

DATA BOOK

updated June 07, 2021

HYPER INVERTER PACKAGED AIR-CONDITIONERS

140VSXWTVH

(Split system, air to air heat pump type)

CEILING CASSETTE-4 WAY TYPE

Triple type Single type Twin type FDT100VNXWVH FDT100VNXWPVH FDT140VNXWTVH 100VSXWVH 100VSXWPVH 125VNXWVH 125VNXWPVH 125VSXWVH 125VSXWPVH 140VNXWPVH 140VNXWVH 140VSXWVH 140VSXWPVH

CEILING CASSETTE-4 WAY COMPACT TYPE

Twin type Triple type FDTC100VNXWPVH FDTC140VNXWTVH 100VSXWPVH 140VSXWTVH 125VNXWPVH 125VSXWPVH

DUCT CONNECTED-HIGH STATIC PRESSURE TYPE

Single type FDU100VNXWVH 100VSXWVH 125VNXWVH 125VSXWVH 140VNXWVH 140VSXWVH

DUCT CONNECTED-LOW/MIDDLE STATIC PRESSURE TYPE

Single type Triple type Twin type FDUM100VNXWVH FDUM100VNXWPVH FDUM140VNXWTVH 100VSXWVH 100VSXWPVH 140VSXWTVH 125VNXWVH 125VNXWPVH 125VSXWVH 125VSXWPVH 140VNXWVH 140VNXWPVH

140VSXWPVH

CEILING SUSPENDED TYPE

Single type Twin type **Triple type** FDE100VNXWVH FDE100VNXWPVH FDE140VNXWTVH 100VSXWVH 100VSXWPVH 140VSXWTVH 125VNXWVH 125VNXWPVH 125VSXWVH 125VSXWPVH

140VNXWPVH

140VSXWPVH

WALL MOUNTED TYPE

140VSXWVH

Single type Twin type **Triple type** SRK100VNXWZR SRK100VNXWPZSX SRK140VNXWTZSX 100VSXWZR 100VSXWPZSX 140VSXWTZSX 125VNXWPZSX 125VSXWPZSX

V Multi System

140VNXWVH

140VSXWVH

(OUTDOOR UNIT) (INDOOR UNIT) FDC100VNX-W FDT50VH FDE50VH 100VSX-W 60VH 60VH 125VNX-W 71VH **71VH** 125VSX-W 140VNX-W 140VSX-W

MITSUBISHI HEAVY INDUSTRIES THERMAL SYSTEMS, LTD.

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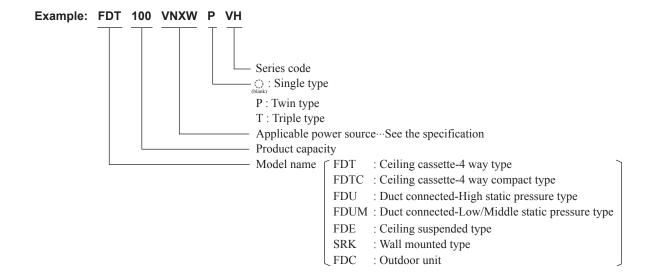
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■How to read the model name



1.1 SPECIFICATIONS

(1) Ceiling cassette-4 way type (FDT)

(a) Single type

			Model		VNXWVH
Item				Indoor unit FDT100VH	Outdoor unit FDC100VNX-W
Power source				1 Phase, 220 - 240	V 50Hz / 220V 60Hz
	Nominal cooling capacity (ra	nge)	kW	10.0 [3.5(Mir	.) - 11.2(Max.)]
	Nominal heating capacity (ra	nge)	kW	11.2 [2.7(Mir	i.) - 12.5(Max.)]
	Cooling			2	.28
	Power consumption	Heating		2	.48
	Max power consumption		1	7	.10
	The state of the s	Cooling			/ 10.6
	Running current Heating		A		/ 11.4
	Inrush current, max current	ricating	⊣ ^ ⊢		25
D	illiusii cuiteit, max cuiteit	Cooling	+ +		98
Operation data	Power factor	Cooling	- %		
iaia		Heating			99
	EER	Cooling			38
	COP	Heating		4	52
	Sound power level	Cooling		62	67
	Courta power level	Heating		02	07
	Council management lavel	Cooling	AD(A)	P-Hi: 47 Hi: 39 Me: 36 Lo: 30	53
	Sound pressure level	Heating	dB(A)	P-Hi: 47 Hi: 39 Me: 36 Lo: 29	51
	Silent mode	Cooling	1		49 /48(Normal/Silent)
	sound pressure level	Heating	1	_	48 /48(Normal/Silent)
vterior dime	nsions (Height x Width x Depth		mm	Unit 298 x 840 x 840	1300x970x370
			111111	Panel 35 x 950 x 950	
xterior appe				Plaster white	Stucco white
Munsell color	r)			(6.8Y8.9/0.2) near equivalent	(4.2Y7.5/1.1) near equivalent
RAL color)				(RAL 9003) near equivalent	(RAL 7044) near equivalent
let weight			kg	Unit 25 Panel 5	97
compressor t	type & Q'ty			_	RMT5134SWP3 x 1
compressor r	notor (Starting method)		kW	_	Direct line start
Refrigerant oi	I (Amount, type)		L	_	0.9 (M-MB75)
	Type, amount, pre-charge lengt	n)	kg	R32 4.0 in outdoor unit (incl. the	ne amount for the piping of 30m)
leat exchang	***	7	1 19	Louver fin & inner grooved tubing	M shape fin & inner grooved tubing
Refrigerant co	<u></u>			• • •	pansion valve
an type & Q'				Turbo fan x1	Propeller fan x2
	arting method)		W	140 < Direct line start >	86x2 < Direct line start >
Air flow	arting metriod)	Cooling	m³/min	P-Hi: 37 Hi: 26 Me: 23 Lo: 17	100
		Heating			
	ernal static pressure		Pa	0	0
Outside air int	take			Possible	_
ir filter, Quali				Pocket plastic net x1(Washable)	_
	Air filter, Quality / Quantity			Rubber sleeve(for fan motor) Rubber sleeve (for fan motor & c	
hock & vibra	ttion absorber			Rubber sleeve(for fan motor)	Rubber sleeve (for fan motor & compresse
	ation absorber		W	Rubber sleeve(for fan motor) —	Rubber sleeve (for fan motor & compressor 20(Crank case heater)
lectric heate	ation absorber		W		· · ·
lectric heate	ation absorber		W	(Option) Wired: RC-EX3A, RC-E5	20(Crank case heater) , RCH-E3 Wireless : RCN-T-5AW-E2
lectric heate Deration	r Remote control Room temperature control		W	(Option) Wired: RC-EX3A, RC-E5	20(Crank case heater)
Electric heate Operation control	r Remote control Room temperature control Operation display		W	(Option) Wired: RC-EX3A, RC-E5 Thermostat Overload protec Frost protect Internal thermos	, RCH-E3 Wireless : RCN-T-5AW-E2
Shock & vibra Electric heate Operation Control	r Remote control Room temperature control Operation display	Liquid line		(Option) Wired: RC-EX3A, RC-E5 Thermostat Overload protec Frost protect Internal thermos Abnormal discharge	20(Crank case heater) , RCH-E3 Wireless : RCN-T-5AW-E2 by electronics tion for fan motor ion thermostat stat for fan motor
Deration Ontrol	r Remote control Room temperature control Operation display	Liquid line Gas line	W W	Option) Wired: RC-EX3A, RC-E5 Thermostat Overload protec Frost protect Internal thermos Abnormal discharge I/U φ 9.52 (3/8") Pipe φ 9.5	20(Crank case heater) , RCH-E3 Wireless : RCN-T-5AW-E2 by electronics tion for fan motor ion thermostat estat for fan motor emperature protection
lectric heate Operation ontrol	r Remote control Room temperature control Operation display Refrigerant piping size	<u> </u>		Option) Wired: RC-EX3A, RC-E5 Thermostat Overload protec Frost protect Internal thermos Abnormal discharge I/U φ 9.52 (3/8") Pipe φ 9.5	20(Crank case heater) , RCH-E3 Wireless : RCN-T-5AW-E2 by electronics tion for fan motor ion thermostat stat for fan motor temperature protection 2 (3/8")x0.8 O/U φ 9.52 (3/8")
Decration ontrol	r Remote control Room temperature control Operation display Refrigerant piping size (O.D)	<u> </u>		Option) Wired: RC-EX3A, RC-E5 Thermostat Overload protec Frost protect Internal thermo: Abnormal discharge I/U φ 9.52 (3/8") Pipe φ 9.5 φ 15.88 (5/8") Pipe φ 15.	20(Crank case heater) , RCH-E3 Wireless : RCN-T-5AW-E2 by electronics tion for fan motor ion thermostat stat for fan motor emperature protection 2 (3/8")x0.8 O/U \(\phi \) 9.52 (3/8") 88(5/8")x1.0 \(\phi \) 1.5.88 (5/8")
peration ontrol afety equipn	r Remote control Room temperature control Operation display Refrigerant piping size (O.D) Connecting method	<u> </u>	- mm -	Option) Wired: RC-EX3A, RC-E5 Thermostat Overload protect Frost protect Internal thermos Abnormal discharge (1/U φ 9.52 (3/8") Pipe φ 9.5 φ 15.88 (5/8") Pipe φ 15. Flare piping	20(Crank case heater) , RCH-E3 Wireless : RCN-T-5AW-E2 by electronics tion for fan motor ion thermostat stat for fan motor emperature protection 2 (3/8")x0.8 O/U \(\phi \) 9.52 (3/8") 88(5/8")x1.0 \(\phi \) 15.88 (5/8")
Department of the state of the	Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping	Gas line	- mm	Option) Wired: RC-EX3A, RC-E5 Thermostat Overload protect Frost protect Internal thermost Abnormal discharge (1/U φ 9.52 (3/8") Pipe φ 9.5 φ 15.88 (5/8") Pipe φ 15. Flare piping Necessary (both	20(Crank case heater) , RCH-E3 Wireless : RCN-T-5AW-E2 by electronics
Department of the state of the	r Remote control Room temperature control Operation display nents Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) ler	Gas line	- mm	Option) Wired: RC-EX3A, RC-E5 Thermostat Overload protect Frost protect Internal thermos Abnormal discharge (1/U φ 9.52 (3/8") Pipe φ 9.5 φ 15.88 (5/8") Pipe φ 15. Flare piping Necessary (both Min.3,	20(Crank case heater) , RCH-E3 Wireless : RCN-T-5AW-E2 by electronics
Department of the state of the	Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) ler Vertical height diff. between O/L	Gas line	- mm	Option) Wired: RC-EX3A, RC-E5 Thermostat Overload protect Frost protect Internal thermos Abnormal discharge (1/U φ 9.52 (3/8") Pipe φ 9.5 φ 15.88 (5/8") Pipe φ 15. Flare piping Necessary (both Min.3, Max.50 (Outdoor unit is higher)	20(Crank case heater) , RCH-E3 Wireless : RCN-T-5AW-E2 by electronics
Department of the state of the	Remote control Room temperature control Operation display nents Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) ler Vertical height diff. between O/L Drain hose	Gas line	m m m	Option) Wired: RC-EX3A, RC-E5 Thermostat Overload protect Frost protect Internal thermos Abnormal discharge (I/U φ 9.52 (3/8") Pipe φ 9.5 φ 15.88 (5/8") Pipe φ 15. Flare piping Necessary (both Min.3, Max.50 (Outdoor unit is higher) Hose connectable with VP25(O.D.32)	20(Crank case heater) , RCH-E3 Wireless : RCN-T-5AW-E2 by electronics
peration ontrol afety equipn astallation ata	r Remote control Room temperature control Operation display nents Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) ler Vertical height diff. between O/L Drain hose max lift height	Gas line	m m m mm	Option) Wired: RC-EX3A, RC-E5 Thermostat Overload protect Frost protect Internal thermos Abnormal discharge (1/U φ 9.52 (3/8") Pipe φ 9.5 φ 15.88 (5/8") Pipe φ 15. Flare piping Necessary (both Min.3, Max.50 (Outdoor unit is higher)	20(Crank case heater) , RCH-E3 Wireless : RCN-T-5AW-E2 by electronics
Department of the state of the	Remote control Room temperature control Operation display Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) ler Vertical height diff. between O/L Drain hose max lift height de breaker size	Gas line	m m m A	Option) Wired: RC-EX3A, RC-E5 Thermostat Overload protect Frost protect Internal thermo: Abnormal discharge t I/U φ 9.52 (3/8") Pipe φ 9.5 φ 15.88 (5/8") Pipe φ 15. Flare piping Necessary (both Min.3, Max.50 (Outdoor unit is higher) Hose connectable with VP25(O.D.32) Built-in drain pump, 850	20(Crank case heater) , RCH-E3 Wireless : RCN-T-5AW-E2 by electronics — tion for fan motor ion thermostat stat for fan motor remperature protection 2 (3/8")x0.8
Department of the state of the	Remote control Room temperature control Operation display Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) ler Vertical height diff. between O/L Drain hose max lift height de breaker size d rotor ampere)	Gas line ligth J and I/U	m m m mm	Option) Wired: RC-EX3A, RC-E5 Thermostat Overload protect Frost protect Internal thermos Abnormal discharge t I/U φ 9.52 (3/8") Pipe φ 9.5 φ 15.88 (5/8") Pipe φ 15. Flare piping Necessary (both Min.3, Max.50 (Outdoor unit is higher) Hose connectable with VP25(O.D.32) Built-in drain pump, 850	20(Crank case heater) , RCH-E3 Wireless : RCN-T-5AW-E2 by electronics
Department of the commender of the comme	Remote control Room temperature control Operation display Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) ler Vertical height diff. between O/L Drain hose max lift height de breaker size d rotor ampere)	Gas line	m m m A	Option) Wired: RC-EX3A, RC-E5 Thermostat Overload protector Frost protect Internal thermostal Internal thermostal Internal discharge in I/U φ 9.52 (3/8") Pipe φ 9.5 φ 15.88 (5/8") Pipe φ 15. Flare piping Necessary (both Min.3, Max.50 (Outdoor unit is higher) Hose connectable with VP25(O.D.32) Built-in drain pump, 850	20(Crank case heater) , RCH-E3 Wireless : RCN-T-5AW-E2 by electronics tion for fan motor ion thermostat stat for fan motor emperature protection 2 (3/8")x0.8 O/U φ 9.52 (3/8") 88(5/8")x1.0 φ 15.88 (5/8") Flare piping — Liquid & Gas lines) Max.100 Max.15 (Outdoor unit is lower) Hole size φ 20 x 3 pcs — 5.0 / Terminal block (Screw fixing type)
Department of the control of the con	Remote control Room temperature control Operation display Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) ler Vertical height diff. between O/L Drain hose max lift height ad breaker size d rotor ampere) ng wires Size x	Gas line ligth J and I/U	m m m A	Option) Wired: RC-EX3A, RC-E5 Thermostat Overload protec Frost protect Internal thermo: Abnormal discharge i I/U φ 9.52 (3/8") Pipe φ 9.5 φ 15.88 (5/8") Pipe φ 15. Flare piping Necessary (both Min.3, Max.50 (Outdoor unit is higher) Hose connectable with VP25(O.D.32) Built-in drain pump, 850	20(Crank case heater) , RCH-E3 Wireless : RCN-T-5AW-E2 by electronics tion for fan motor ion thermostat stat for fan motor emperature protection 2 (3/8")x0.8
Department of the commender of the comme	Remote control Room temperature control Operation display Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) ler Vertical height diff. between O/L Drain hose max lift height ad breaker size d rotor ampere) ng wires Size x	Gas line ligth J and I/U	m m m A	Option) Wired: RC-EX3A, RC-E5 Thermostat Overload protector Frost protect Internal thermostal Internal thermostal Internal discharge in I/U φ 9.52 (3/8") Pipe φ 9.5 φ 15.88 (5/8") Pipe φ 15. Flare piping Necessary (both Min.3, Max.50 (Outdoor unit is higher) Hose connectable with VP25(O.D.32) Built-in drain pump, 850	20(Crank case heater) , RCH-E3 Wireless : RCN-T-5AW-E2 by electronics tion for fan motor ion thermostat stat for fan motor emperature protection 2 (3/8")x0.8

Notes (1) The data are measured at the following conditions.

The	pipe	length	is	7.5m

Item	Indoor air temperature		Outdoor air temperature		Standards
Operation	DB	WB	DB	WB	Standards
Cooling	27°C	19°C	35°C	24°C	ISO5151-T1
Heating	20°C	_	7°C	6°C	ISO5151-H1

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.
- (3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.

 (4) Select the breaker size according to the own national standard.

 (5) The operation data indicate when the air-conditioner is operated at 230V 50Hz or 220V 60Hz.

PJF000Z589

	M						
Item				Indoor unit FDT100VH	Outdoor unit FDC100VSX-W		
Power source				3 Phase, 380 - 415\	V 50Hz / 380V 60Hz		
	Nominal cooling capacity (ra	inge)	kW	10.0 [3.5(Min.) - 11.2(Max.)]		
	Nominal heating capacity (ra	ange)	kW	11.2 [2.7(Min.) - 16.0(Max.)]			
	Power consumption Cooling Heating		+		28		
			H kW H	2.			
			┦ ⊢	8.			
	Wax power consumption	Cooling	+ +	3.9			
	Running current Heating		\vdash \land \vdash	4.2			
	Inrush current, max current	rieating	⊣ ^ ⊢		14		
0	illusti current, max current	Cooling	+				
Operation data	Power factor		- % -	<u> </u>			
uaia	FED	Heating	++	·			
	EER	Cooling	⊣ ⊢		38		
	СОР	Heating	+	4.	52		
	Sound power level	Cooling	_	62	67		
	·	Heating	4				
	Sound pressure level	Cooling	dB(A)	P-Hi: 47 Hi: 39 Me: 36 Lo: 30	53		
	Courte process of the	Heating		P-Hi: 47 Hi: 39 Me: 36 Lo: 29	51		
	Silent mode	Cooling		_	49 /48(Normal/Silent)		
	sound pressure level	Heating			48 /48(Normal/Silent)		
Exterior dimer	nsions (Height x Width x Depth)	mm	Unit 298 x 840 x 840 Panel 35 x 950 x 950	1300x970x370		
Exterior appea	arance			Plaster white	Stucco white		
(Munsell color)			(6.8Y8.9/0.2) near equivalent	(4.2Y7.5/1.1) near equivalent		
(RAL color)				(RAL 9003) near equivalent	(RAL 7044) near equivalent		
Net weight			kg	Unit 25 Panel 5	99		
Compressor ty	ype & Q'ty			_	RMT5134SWP4 x 1		
Compressor n	notor (Starting method)		kW	_	Direct line start		
Refrigerant oil	(Amount, type)		L	_	0.9 (M-MB75)		
Refrigerant (T	ype, amount, pre-charge lengt	h)	kg	R32 4.0 in outdoor unit (incl. th	e amount for the piping of 30m)		
Heat exchange		,	+ +	Louver fin & inner grooved tubing	M shape fin & inner grooved tubing		
Refrigerant co			1	•	pansion valve		
Fan type & Q'1		-	+ +	Turbo fan x1	Propeller fan x2		
	arting method)		W	140 < Direct line start >	86x2 < Direct line start >		
Air flow	<u> </u>	Cooling Heating	m³/min	P-Hi: 37 Hi: 26 Me: 23 Lo: 17	100		
Available exte	rnal static pressure	Ticating	Pa	0	0		
Outside air int	<u> </u>		1 a	Possible	_		
			++				
	ty / Quantity			Pocket plastic net x1(Washable) —			
Shock & Vibra	Air filter, Quality / Quantity		++	, ,			
	tion absorber			Rubber sleeve(for fan motor)	` '		
	1		W		20(Crank case heater)		
Electric heater	Remote control		W	(Option) Wired: RC-EX3A, RC-E5,	20(Crank case heater) RCH-E3 Wireless: RCN-T-5AW-E2		
Electric heater Operation control	Remote control Room temperature control		W	(Option) Wired: RC-EX3A, RC-E5,	20(Crank case heater)		
Electric heater Operation	Remote control		W	(Option) Wired: RC-EX3A, RC-E5, Thermostat b	20(Crank case heater) RCH-E3 Wireless: RCN-T-5AW-E2 by electronics		
Electric heater Operation control	Remote control Room temperature control Operation display		W	(Option) Wired: RC-EX3A, RC-E5, Thermostat be Overload protect Frost protecti Internal thermos	20(Crank case heater) RCH-E3 Wireless : RCN-T-5AW-E2 by electronics		
Electric heater Operation	Remote control Room temperature control Operation display	Liquid line		(Option) Wired: RC-EX3A, RC-E5, Thermostat be Overload protect Frost protecti Internal thermos	20(Crank case heater) RCH-E3 Wireless: RCN-T-5AW-E2 by electronics ion for fan motor on thermostat tat for fan motor emperature protection		
Electric heater Operation control	Remote control Room temperature control Operation display		W	Option) Wired: RC-EX3A, RC-E5, Thermostat b Overload protect Frost protecti Internal thermos Abnormal discharge t I/U φ 9.52 (3/8") Pipe φ 9.52	20(Crank case heater) RCH-E3 Wireless: RCN-T-5AW-E2 by electronics - ion for fan motor on thermostat tat for fan motor emperature protection 2 (3/8")x0.8 O/U \(\phi \) 9.52 (3/8")		
Electric heater Operation control	Remote control Room temperature control Operation display nents Refrigerant piping size (O.D)	Liquid line Gas line		(Option) Wired: RC-EX3A, RC-E5, Thermostat be Overload protect Frost protecti Internal thermos Abnormal discharge to	20(Crank case heater) RCH-E3 Wireless: RCN-T-5AW-E2 by electronics cion for fan motor on thermostat tat for fan motor emperature protection 2 (3/8")x0.8 O/U \(\phi \) 9.52 (3/8") 38(5/8")x1.0 \(\phi \) 15.88 (5/8")		
Electric heater Operation control Safety equipm	Remote control Room temperature control Operation display nents Refrigerant piping size (O.D) Connecting method		mm	Option) Wired: RC-EX3A, RC-E5, Thermostat b Overload protect Frost protecti Internal thermos Abnormal discharge to I/U φ 9.52 (3/8") Pipe φ 9.52 φ 15.88 (5/8") Pipe φ 15.8	20(Crank case heater) RCH-E3 Wireless: RCN-T-5AW-E2 by electronics - ion for fan motor on thermostat tat for fan motor emperature protection 2 (3/8")x0.8 O/U \(\phi \) 9.52 (3/8")		
Electric heater Operation control Safety equipm	Remote control Room temperature control Operation display nents Refrigerant piping size (O.D) Connecting method Attached length of piping			Option) Wired: RC-EX3A, RC-E5, Thermostat b Overload protect Frost protecti Internal thermos Abnormal discharge t I/U φ 9.52 (3/8") Pipe φ 9.52 φ 15.88 (5/8") Pipe φ 15.8	20(Crank case heater) RCH-E3 Wireless: RCN-T-5AW-E2 by electronics		
Electric heater Operation control Safety equipm	Remote control Room temperature control Operation display nents Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping	Gas line	m m	(Option) Wired: RC-EX3A, RC-E5, Thermostat b Overload protect Frost protecti Internal thermos Abnormal discharge t I/U φ 9.52 (3/8") Pipe φ 9.52 φ 15.88 (5/8") Pipe φ 15.8 Flare piping Necessary (both b	20(Crank case heater) RCH-E3 Wireless: RCN-T-5AW-E2 by electronics		
Electric heater Operation control Safety equipm	Remote control Room temperature control Operation display nents Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) ler	Gas line	m m	(Option) Wired: RC-EX3A, RC-E5, Thermostat b Overload protect Frost protecti Internal thermos Abnormal discharge t I/U φ 9.52 (3/8") Pipe φ 9.52 φ 15.88 (5/8") Pipe φ 15.8 Flare piping Necessary (both L Min.3, I	20(Crank case heater) RCH-E3 Wireless: RCN-T-5AW-E2 by electronics - cion for fan motor on thermostat tat for fan motor emperature protection 2 (3/8")x0.8 O/U \$\phi\$ 9.52 (3/8") 38(5/8")x1.0 \$\phi\$ 15.88 (5/8") Flare piping - ciquid & Gas lines) Max.100		
Electric heater Operation control Safety equipm	Remote control Room temperature control Operation display nents Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) ler Vertical height diff. between O/I	Gas line	m m	- (Option) Wired: RC-EX3A, RC-E5, Thermostat be Overload protect Frost protecti Internal thermos Abnormal discharge te I/U φ 9.52 (3/8") Pipe φ 9.52 φ 15.88 (5/8") Pipe φ 15.8 Flare piping - Necessary (both L Min.3, I	20(Crank case heater) RCH-E3 Wireless: RCN-T-5AW-E2 by electronics - cion for fan motor on thermostat tat for fan motor emperature protection 2 (3/8")x0.8 O/U \$\phi\$ 9.52 (3/8") 38(5/8")x1.0 \$\phi\$ 15.88 (5/8") Flare piping - ciquid & Gas lines) Max.100 Max.15 (Outdoor unit is lower)		
Electric heater Operation control Safety equipm Installation data	Remote control Room temperature control Operation display nents Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) ler Vertical height diff. between O/I Drain hose	Gas line	m m m	(Option) Wired: RC-EX3A, RC-E5, Thermostat b Overload protect Frost protecti Internal thermos Abnormal discharge t I/U φ 9.52 (3/8") Pipe φ 9.52 φ 15.88 (5/8") Pipe φ 15.8 Flare piping Necessary (both L Min.3, I Max.50 (Outdoor unit is higher) Hose connectable with VP25(O.D.32)	20(Crank case heater) RCH-E3 Wireless: RCN-T-5AW-E2 by electronics - cion for fan motor on thermostat tat for fan motor emperature protection 2 (3/8")x0.8 O/U \$\phi\$ 9.52 (3/8") 38(5/8")x1.0 \$\phi\$ 15.88 (5/8") Flare piping - ciquid & Gas lines) Max.100 Max.15 (Outdoor unit is lower) Hole size \$\phi\$ 20 x 3 pcs		
Electric heater Operation control Safety equipm Installation data Drain pump, n	Remote control Room temperature control Operation display nents Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) ler Vertical height diff. between O/I Drain hose nax lift height	Gas line	m m m m m m	- (Option) Wired: RC-EX3A, RC-E5, Thermostat be Overload protect Frost protecti Internal thermos Abnormal discharge te I/U φ 9.52 (3/8") Pipe φ 9.52 φ 15.88 (5/8") Pipe φ 15.8 Flare piping - Necessary (both L Min.3, I	20(Crank case heater) RCH-E3 Wireless: RCN-T-5AW-E2 by electronics - cion for fan motor on thermostat tat for fan motor emperature protection 2 (3/8")x0.8 O/U \$\phi\$ 9.52 (3/8") 38(5/8")x1.0 \$\phi\$ 15.88 (5/8") Flare piping - ciquid & Gas lines) Max.100 Max.15 (Outdoor unit is lower)		
Electric heater Operation control Safety equipm Installation data Drain pump, n Recommende	Remote control Room temperature control Operation display nents Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) ler Vertical height diff. between O/I Drain hose nax lift height d breaker size	Gas line	m m m A	(Option) Wired: RC-EX3A, RC-E5, Thermostat be Overload protect Frost protecti Internal thermos Abnormal discharge to I/U φ 9.52 (3/8") Pipe φ 9.52 φ 15.88 (5/8") Pipe φ 15.8 Flare piping Necessary (both L Min.3, I Max.50 (Outdoor unit is higher) Hose connectable with VP25(O.D.32) Built-in drain pump, 850	20(Crank case heater) RCH-E3 Wireless: RCN-T-5AW-E2 by electronics - cion for fan motor on thermostat tat for fan motor emperature protection 2 (3/8")x0.8 O/U φ 9.52 (3/8") 38(5/8")x1.0 φ 15.88 (5/8") Flare piping - ciquid & Gas lines) Max.100 Max.15 (Outdoor unit is lower) Hole size φ 20 x 3 pcs		
Electric heater Operation control Safety equipm Installation data Drain pump, n Recommende L.R.A. (Locked	Remote control Room temperature control Operation display nents Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) ler Vertical height diff. between O/I Drain hose nax lift height d breaker size d rotor ampere)	Gas line ngth U and I/U	m m m m m m	(Option) Wired: RC-EX3A, RC-E5, Thermostat b Overload protect Frost protecti Internal thermos Abnormal discharge t I/U φ 9.52 (3/8") Pipe φ 9.52 φ 15.88 (5/8") Pipe φ 15.8 Flare piping - Necessary (both L Min.3, I Max.50 (Outdoor unit is higher) Hose connectable with VP25(O.D.32) Built-in drain pump, 850	20(Crank case heater) RCH-E3 Wireless: RCN-T-5AW-E2 by electronics - cion for fan motor on thermostat tat for fan motor emperature protection 2 (3/8")x0.8 O/U φ 9.52 (3/8") 38(5/8")x1.0 φ 15.88 (5/8") Flare piping - ciquid & Gas lines) Max.100 Max.15 (Outdoor unit is lower) Hole size φ 20 x 3 pcs		
Electric heater Operation control Safety equipm Installation data Drain pump, n Recommende L.R.A. (Locked Interconnectin	Remote control Room temperature control Operation display nents Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) ler Vertical height diff. between O/I Drain hose nax lift height d breaker size d rotor ampere)	Gas line	m m m A	(Option) Wired: RC-EX3A, RC-E5, Thermostat b Overload protect Frost protecti Internal thermos Abnormal discharge to I/U φ 9.52 (3/8") Pipe φ 9.52 φ 15.88 (5/8") Pipe φ 15.8 Flare piping Necessary (both L Min.3, I Max.50 (Outdoor unit is higher) Hose connectable with VP25(O.D.32) Built-in drain pump, 850	20(Crank case heater) RCH-E3 Wireless: RCN-T-5AW-E2 by electronics - cion for fan motor on thermostat tat for fan motor emperature protection 2 (3/8")x0.8 O/U φ 9.52 (3/8") 38(5/8")x1.0 φ 15.88 (5/8") Flare piping - ciquid & Gas lines) Max.100 Max.15 (Outdoor unit is lower) Hole size φ 20 x 3 pcs		
Electric heater Operation control Safety equipm Installation data Drain pump, n Recommende L.R.A. (Locked Interconnectin IP number	Remote control Room temperature control Operation display nents Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) ler Vertical height diff. between O/I Drain hose nax lift height d breaker size d rotor ampere) ng wires Size x	Gas line ngth U and I/U	m m m A	(Option) Wired: RC-EX3A, RC-E5, Thermostat b Overload protect Frost protecti Internal thermos Abnormal discharge t I/U φ 9.52 (3/8") Pipe φ 9.52 φ 15.88 (5/8") Pipe φ 15.8 Flare piping Necessary (both L Min.3, I Max.50 (Outdoor unit is higher) Hose connectable with VP25(O.D.32) Built-in drain pump, 850 φ 1.6mm x3 cores + earth cable of IPX0	20(Crank case heater) RCH-E3 Wireless: RCN-T-5AW-E2 by electronics - ion for fan motor on thermostat tat for fan motor emperature protection 2 (3/8")x0.8 O/U φ 9.52 (3/8") 38(5/8")x1.0 φ 15.88 (5/8") Flare piping - Liquid & Gas lines) Max.100 Max.15 (Outdoor unit is lower) Hole size φ 20 x 3 pcs 0 7 Terminal block (Screw fixing type)		
Electric heater Operation control Safety equipm Installation data Drain pump, n Recommende L.R.A. (Locked Interconnection	Remote control Room temperature control Operation display nents Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) ler Vertical height diff. between O/I Drain hose nax lift height d breaker size d rotor ampere) ng wires Size x	Gas line ngth U and I/U	m m m A	(Option) Wired: RC-EX3A, RC-E5, Thermostat b Overload protect Frost protecti Internal thermos Abnormal discharge to I/U φ 9.52 (3/8") Pipe φ 9.52 φ 15.88 (5/8") Pipe φ 15.8 Flare piping Necessary (both L Min.3, 1 Max.50 (Outdoor unit is higher) Hose connectable with VP25(O.D.32) Built-in drain pump, 850 φ 1.6mm x3 cores + earth cable of IPX0 Mounting kit, Drain hose	RCH-E3 Wireless: RCN-T-5AW-E2 by electronics - ion for fan motor on thermostat tat for fan motor emperature protection 2 (3/8")x0.8 O/U \$\phi\$ 9.52 (3/8") 38(5/8")x1.0 \$\phi\$ 15.88 (5/8") Flare piping - Liquid & Gas lines) Max.100 Max.15 (Outdoor unit is lower) Hole size \$\phi\$ 20 x 3 pcs 0.0 / Terminal block (Screw fixing type)		

The pipe length is 7.5m.

Item	Item Indoor air temperature		Outdoor air	temperature	Standards
Operation	DB	WB	DB	WB	Staridards
Cooling	27°C	19°C	35°C	24°C	ISO5151-T1
Heating	20°C	_	7°C	6°C	ISO5151-H1

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.
- (3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.

 (4) Select the breaker size according to the own national standard.

 (5) The operation data indicate when the air-conditioner is operated at 400V 50Hz or 380V 60Hz.

PJF000Z589

			Model	FDT125\	VNXWVH	
Item				Indoor unit FDT125VH	Outdoor unit FDC125VNX-W	
Power source					V 50Hz / 220V 60Hz	
	Nominal cooling capacity (ran	ige)	kW	12.5 [3.5(Min	.) - 14.0(Max.)]	
	Nominal heating capacity (ran	ige)	kW	14.0 [2.7(Min.) - 17.0(Max.)]		
	Cooling			3.	21	
	Power consumption	Power consumption Heating		3.	43	
	Max power consumption			7.	10	
	max perior concumption	Cooling			/ 14.9	
	Running current	Heating	A		/ 15.8	
	Inrush current, max current	rieating	- ^ -		27	
O	midsir current, max current	Cooling	+ +	٥,		
Operation data	Power factor		- %	g	99	
uaia	FFD	Heating		0	00	
	EER	Cooling	4		89	
	COP	Heating			08	
	Sound power level	Cooling	_	63	68	
	Courte porter total	Heating	_	64	70	
	Sound pressure level	Cooling	dB(A)	P-Hi: 48 Hi: 41 Me: 39 Lo: 31	53	
	Souria pressure lever	Heating		P-Hi: 48 Hi: 41 Me: 38 Lo: 31	54	
	Silent mode	Cooling	1 [50 /49(Normal/Silent)	
	sound pressure level	Heating	7	_	50 /48(Normal/Silent)	
Exterior dimer	nsions (Height x Width x Depth)		mm	Unit 298 x 840 x 840 Panel 35 x 950 x 950	1300x970x370	
Exterior appea	arance			Plaster white	Stucco white	
(Munsell color				(6.8Y8.9/0.2) near equivalent	(4.2Y7.5/1.1) near equivalent	
(Warioon Color	,			(RAL 9003) near equivalent	(RAL 7044) near equivalent	
Net weight			kg	Unit 25 Panel 5	97	
Compressor to	rno 8 O'ty		, kg	——————————————————————————————————————	RMT5134SWP3 x 1	
<u> </u>	notor (Starting method)		kW		Direct line start	
	(Amount, type)		L		0.9 (M-MB75)	
	ype, amount, pre-charge length)	kg	,	e amount for the piping of 30m)	
Heat exchang			1	Louver fin & inner grooved tubing	M shape fin & inner grooved tubing	
Refrigerant co					pansion valve	
Fan type & Q'	<u> </u>			Turbo fan x1	Propeller fan x2	
Fan motor (Sta	arting method)		W	140 < Direct line start >	86x2 < Direct line start >	
Air flow		Cooling Heating	m³/min	P-Hi: 38 Hi: 28 Me: 25 Lo: 18	100	
Available exte	rnal static pressure		Pa	0	0	
Outside air int	ake			Possible	_	
Air filter, Quali	ty / Quantity			Pocket plastic net x1(Washable)	-	
Shock & vibra	tion absorber			Rubber sleeve(for fan motor)	Rubber sleeve (for fan motor & compressor)	
Electric heater	•		W	<u> </u>	20(Crank case heater)	
	Remote control			(Option) Wired: RC-EX3A.RC-E5.	, RCH-E3 Wireless : RCN-T-5AW-E2	
Operation	Room temperature control		1		by electronics	
control	Operation display		+ +		_	
Safety equipm				Frost protecti Internal thermos	tion for fan motor on thermostat stat for fan motor emperature protection	
	Refrigerant piping size	Liquid line		I/U φ 9.52 (3/8") Pipe φ 9.53		
	(O.D)	Gas line	mm -	, , , , , ,	88(5/8")x1.0 φ 15.88 (5/8")	
	Connecting method	Gao inio	+ +	Flare piping	Flare piping	
Installation	Attached length of piping		m	—	–	
data	Insulation for piping		'''		 Liquid & Gas lines)	
aata		u.ė.la	-			
	Refrigerant line (one way) leng		m	<u> </u>	Max.100	
	Vertical height diff. between O/U	and I/U	m	Max.50 (Outdoor unit is higher)	Max.15 (Outdoor unit is lower)	
	Drain hose			Hose connectable with VP25(O.D.32)	Hole size φ 20 x 3 pcs	
Drain pump, n			mm	Built-in drain pump , 850	_	
Recommende	d breaker size		A		_	
L.R.A. (Locked	d rotor ampere)		Α	5	5.0	
Interconnectin	g wires Size x 0	Core number		φ 1.6mm x3 cores + earth cable /	/ Terminal block (Screw fixing type)	
IP number			1	IPX0	IP24	
Standard acce	essories			Mounting kit, Drain hose	_	
Option parts			1		or : LB-T-5W-E	
, parto					-	

Item	Item Indoor air temperature			temperature	Standards
Operation	DB	WB	DB	WB	Standards
Cooling	27°C	19°C	35°C	24°C	ISO5151-T1
Heating	20°C	_	7°C	6°C	ISO5151-H1

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.
- (3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
 (4) Select the breaker size according to the own national standard.
 (5) The operation data indicate when the air-conditioner is operated at 230V 50Hz or 220V 60Hz.

			Model				
Item				Indoor unit FDT125VH	Outdoor unit FDC125VSX-W		
Power source)				V 50Hz / 380V 60Hz		
	Nominal cooling capacity (ra	inge)	kW	12.5 [3.5(Min	.) - 14.0(Max.)]		
	Nominal heating capacity (ra		kW	14.0 [2.7(Min.) - 18.0(Max.)]			
		Cooling			21		
	Power consumption	Heating	⊢ kW ⊢		43		
	Max power consumption		┦ '''' ├		90		
	Wax power concernation	Cooling			/ 5.5		
	Running current Heating				/ 5.9		
	Inrush current, max current	rieating	⊣ ^ ⊦		14		
o	Illiusii current, max current	Caalina					
Operation data	Power factor	Cooling	- %		<u>0</u> .8		
uala	FFD	Heating					
	EER	Cooling			89		
	СОР	Heating			08		
	Sound power level	Cooling		63	68		
		Heating	_	64	70		
	Sound pressure level	Cooling	dB(A)	P-Hi: 48 Hi: 41 Me: 39 Lo: 31	53		
	р с с с с с с с с с с с с с с с с с с с	Heating		P-Hi: 48 Hi: 41 Me: 38 Lo: 31	54		
	Silent mode	Cooling		_	50 /49(Normal/Silent)		
	sound pressure level	Heating			50 /48(Normal/Silent)		
Exterior dimer	nsions (Height x Width x Depth)	mm	Unit 298 x 840 x 840 Panel 35 x 950 x 950	1300x970x370		
Exterior appea	arance			Plaster white	Stucco white		
(Munsell color	r)			(6.8Y8.9/0.2) near equivalent	(4.2Y7.5/1.1) near equivalent		
(RAL color)				(RAL 9003) near equivalent	(RAL 7044) near equivalent		
Net weight			kg	Unit 25 Panel 5	99		
Compressor t	type & Q'ty			_	RMT5134SWP4 x 1		
Compressor r	motor (Starting method)		kW	_	Direct line start		
Refrigerant oil	I (Amount, type)		L	_	0.9 (M-MB75)		
Refrigerant (T	Type, amount, pre-charge lengt	h)	kg	R32 4.0 in outdoor unit (incl. th	e amount for the piping of 30m)		
Heat exchang		,		Louver fin & inner grooved tubing	M shape fin & inner grooved tubing		
Refrigerant co	<u></u>				pansion valve		
Fan type & Q'				Turbo fan x1	Propeller fan x2		
	tarting method)		W	140 < Direct line start >	86x2 < Direct line start >		
Air flow		Cooling Heating	m³/min	P-Hi: 38 Hi: 28 Me: 25 Lo: 18	100		
Available exte	ernal static pressure	1.1049	Pa	0	0		
Outside air int			1 4	Possible	_		
Air filter, Quali			+		_		
	ation absorber			Pocket plastic net x1(Washable) Rubber sleeve(for fan motor) Rubber sleeve (for fan motor &			
Electric heate			W	Tubbel sleeve(lot lattitiotol)	20(Crank case heater)		
Liectric rieate	· · · · · · · · · · · · · · · · · · ·		VV	(Ontion) Mired - DC EVAA DC EE	RCH-E3 Wireless : RCN-T-5AW-E2		
Operation	Remote control						
control	Room temperature control		+ +	i nermostat t	by electronics		
Safety equipn	Operation display			Overload protection for fan motor Frost protection thermostat Internal thermostat for fan motor Abnormal discharge temperature protection			
	Refrigerant piping size	Liquid line		I/U φ 9.52 (3/8") Pipe φ 9.53			
	(O.D)	Gas line	⊢ mm ⊦		88(5/8")x1.0 φ 15.88 (5/8")		
	Connecting method			Flare piping	Flare piping		
Installation	Attached length of piping		m				
data	Insulation for piping		+ " +	Necessary (both I	Liquid & Gas lines)		
	Refrigerant line (one way) le	nath	m		Max.100		
	Vertical height diff. between O/		m	Max.50 (Outdoor unit is higher)	Max.15 (Outdoor unit is lower)		
	Drain hose		+	Hose connectable with VP25(O.D.32)	Hole size φ 20 x 3 pcs		
Drain nump r	max lift height		mm	Built-in drain pump , 850	— Hole size φ 20 x 3 pcs		
				built-iii uraiii puilip , 000			
	ed breaker size		A		_		
•	d rotor ampere)	0	A		i.O		
Interconnectir	ng wires Size x	Core number		,	Terminal block (Screw fixing type)		
IP number				IPX0	IP24		
Standard acc	essories		1	Mounting kit, Drain hose	_		
Option parts				Motion senso	pr : LB-T-5W-E		

The pipe length is 7.5m.

Item	Indoor air temperature		Outdoor air	temperature	Standards
Operation	DB	WB	DB	WB	Standards
Cooling	27°C	19°C	35°C	24°C	ISO5151-T1
Heating	20°C	_	7°C	6°C	ISO5151-H1

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.
- (3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.

 (4) Select the breaker size according to the own national standard.

 (5) The operation data indicate when the air-conditioner is operated at 400V 50Hz or 380V 60Hz.

PJF000Z589 ⚠

Nominal cooling capacity (range) kW	FD1140VI	NXWVH
Nominal cooling capacity (range) kW	T140VH	Outdoor unit FDC140VNX-W
	1 Phase, 220 - 240V	50Hz / 220V 60Hz
	14.0 [3.5(Min.)	- 16.0(Max.)]
Nominal heating capacity (range) kW	16.0 [2.7(Min.)	- 18.0(Max.)]
Cooling	3.8	
Power consumption Heating kW	4.20	
Max power consumption	7.10	
Cooling	17.0 /	
Running current Heating A	18.3 /	
Inrush current, max current	5, 2	
	5, 2	ı
Operation data Power factor Cooling Heating %	99	
T. Carrier S	0.00	^
EER Cooling	3.6	
COP Heating	3.8	
Sound power level Cooling 63		69
Heating 64		71
Sound pressure level Cooling dB(A) P-Hi: 48 Hi: 42 Me		54
Heating P-Hi: 48 Hi: 41 Me	e: 38 Lo: 31	
Silent mode Cooling		50 /49(Normal/Silent)
sound pressure level Heating		51 /48(Normal/Silent)
Exterior dimensions (Height x Width x Depth) mm Unit 298 x 840 Panel 35 x 950		1300x970x370
Exterior appearance Plaster wh	nite	Stucco white
(Munsell color) (6.8Y8.9/0.2) near		(4.2Y7.5/1.1) near equivalent
(RAL 9003) near e	equivalent	(RAL 7044) near equivalent
Net weight kg Unit 25 Par	nel 5	97
Compressor type & Q'ty —		RMT5134SWP3 x 1
Compressor motor (Starting method) kW -		Direct line start
Refrigerant oil (Amount, type)	- 0.9 (M-MB75	
	outdoor unit (incl. the	amount for the piping of 30m)
Heat exchanger Louver fin & inner gro	· · ·	M shape fin & inner grooved tubing
Refrigerant control	Electronic exp	
Fan type & Q'ty Turbo fan	-	Propeller fan x2
Fan motor (Starting method) W 140 < Direct lin		86x2 < Direct line start >
3 2 2 3	P-Hi: 38 Hi: 29 Me: 26 Lo: 19 100	
Air flow Cooling Heating m³/min P-Hi: 38 Hi: 29 Me	0. 20 200	100
Air flow Heating m ² /min P-Hi: 38 Hi: 29 Me	0.20 20.10	
Arr flow Heating m³/min P-Hi: 38 Hi: 29 Me Available external static pressure Pa 0		0
Available external static pressure Pa 0 Outside air intake P-Hi: 38 Hi: 29 Me P-Hi: 38 Hi: 29 Me Outside air intake	9	0 —
Arr flow Heating m³/min P-Hi: 38 Hi: 29 Me Available external static pressure Pa 0 Outside air intake Possible Air filter, Quality / Quantity Pocket plastic net x	e :1(Washable)	0 -
Arr flow Heating m³/min P-Hi: 38 Hi: 29 Me Available external static pressure Pa 0 Outside air intake Possible Air filter, Quality / Quantity Pocket plastic net x Shock & vibration absorber Rubber sleeve(for	e :1(Washable)	0 — — Rubber sleeve (for fan motor & compresso
Arr flow Heating m³/min P-Hi: 38 Hi: 29 Me Available external static pressure Pa 0 Outside air intake Possible Air filter, Quality / Quantity Pocket plastic net x Shock & vibration absorber Rubber sleeve(for Electric heater W —	e :1(Washable) fan motor)	0 — — Rubber sleeve (for fan motor & compresso 20(Crank case heater)
Arr flow Heating m³/min P-Hi: 38 Hi: 29 Me Available external static pressure Pa 0 Outside air intake Possible Air filter, Quality / Quantity Pocket plastic net x Shock & vibration absorber Rubber sleeve(for Electric heater W — Operation Remote control (Option) Wired:	e :1(Washable) fan motor) RC-EX3A , RC-E5 , F	0 — Rubber sleeve (for fan motor & compresso 20(Crank case heater) RCH-E3 Wireless: RCN-T-5AW-E2
Arr flow Heating m³/min P-Hi: 38 Hi: 29 Me Available external static pressure Pa 0 Outside air intake Possible Air filter, Quality / Quantity Pocket plastic net x Shock & vibration absorber Rubber sleeve(for Electric heater W — Operation Control Room temperature control	e :1(Washable) fan motor)	0 — Rubber sleeve (for fan motor & compresso 20(Crank case heater) RCH-E3 Wireless: RCN-T-5AW-E2
Arr flow Heating m³/min P-Hi: 38 Hi: 29 Me Available external static pressure Outside air intake Air filter, Quality / Quantity Shock & vibration absorber Electric heater Operation control Remote control Room temperature control Operation display Safety equipments	RC-EX3A , RC-E5 , F Thermostat by Overload protectio Frost protectio Internal thermosta	0 — Rubber sleeve (for fan motor & compresso 20(Crank case heater) RCH-E3 Wireless: RCN-T-5AW-E2 r electronics on for fan motor n thermostat
Available external static pressure Available external static pressure Outside air intake Air filter, Quality / Quantity Shock & vibration absorber Electric heater Operation control Remote control Remote control Operation display Safety equipments Refrigerant piping size Liquid line My/min P-Hi: 38 Hi: 29 Me Possible Possible Possible Rubber sleeve(for (Option) Wired: (Option) Wired: Ab	RC-EX3A , RC-E5 , F Thermostat by Overload protectio Frost protection Internal thermostatonormal discharge tel	0 — Rubber sleeve (for fan motor & compresso 20(Crank case heater) RCH-E3 Wireless: RCN-T-5AW-E2 relectronics on for fan motor thermostat at for fan motor mperature protection
Arr flow Heating m³/min P-Hi: 38 Hi: 29 Me Available external static pressure Pa 0 Outside air intake Possible Air filter, Quality / Quantity Pocket plastic net x Shock & vibration absorber Rubber sleeve(for Electric heater W — Operation control Room temperature control Operation display Safety equipments Ab	RC-EX3A , RC-E5 , F Thermostat by Overload protection Frost protection Internal thermostat pnormal discharge tel (8") Pipe ϕ 9.52	0 — Rubber sleeve (for fan motor & compresso 20(Crank case heater) RCH-E3 Wireless: RCN-T-5AW-E2 relectronics on for fan motor thermostat at for fan motor mperature protection (3/8")x0.8 O/U \$\phi\$ 9.52 (3/8")
Arr flow Heating m³/min P-Hi: 38 Hi: 29 Me Available external static pressure Pa 0 Outside air intake Possible Air filter, Quality / Quantity Pocket plastic net x Shock & vibration absorber Rubber sleeve(for Electric heater W — Operation control Room temperature control Operation display Safety equipments Refrigerant piping size Liquid line mm I/U \$\phi\$ 9.52 (3/2)	RC-EX3A , RC-E5 , F Thermostat by Overload protection Frost protection Internal thermostat promail discharge ter (8") Pipe \$\phi\$ 9.52 (5/8") Pipe \$\phi\$ 15.88	0 — Rubber sleeve (for fan motor & compresso 20(Crank case heater) RCH-E3 Wireless: RCN-T-5AW-E2 relectronics on for fan motor thermostat at for fan motor mperature protection (3/8")x0.8 O/U \$\phi\$ 9.52 (3/8")
Available external static pressure Pa O Outside air intake Possible Air filter, Quality / Quantity Pocket plastic net x Shock & vibration absorber Rubber sleeve(for Electric heater W — Operation control Room temperature control Operation display Safety equipments Refrigerant piping size (O.D) Gas line Mm P-Hi: 38 Hi: 29 Me P-Hi: 38 Hi: 29 Me Operation (Option) Wired Possible	RC-EX3A , RC-E5 , F Thermostat by Overload protection Frost protection Internal thermostat promail discharge ter (8") Pipe \$\phi\$ 9.52 (5/8") Pipe \$\phi\$ 15.88	0 — Rubber sleeve (for fan motor & compresso 20(Crank case heater) RCH-E3 Wireless: RCN-T-5AW-E2 relectronics on for fan motor thermostat at for fan motor mperature protection (3/8")x0.8 O/U \(\phi \) 9.52 (3/8") (3/6")x1.0 \(\phi \) 15.88 (5/8")
Arr flow	RC-EX3A , RC-E5 , F Thermostat by Overload protection Frost protection Internal thermostat promail discharge ter (8") Pipe \$\phi\$ 9.52 (5/8") Pipe \$\phi\$ 15.88	O ————————————————————————————————————
Arrifow Heating M*/min P-Hi: 38 Hi: 29 Me Available external static pressure Pa 0 Outside air intake Possible Air filter, Quality / Quantity Pocket plastic net x Shock & vibration absorber Rubber sleeve(for Electric heater W — Operation control Room temperature control Operation display Operation display Safety equipments Ab Refrigerant piping size (O.D) Gas line Mm Mired Connecting method Flare pipin Attached length of piping M Installation data Insulation for piping Insulation for piping Auxiliary P-Hi: 38 Hi: 29 Methods Pa 0 Operation Operation (Option) Wired : (I/U \$\phi\$ 9.52 (3/\text{ operation piping mm } Operation (I/U \$\phi\$ 9.52 (3/\text{ operation piping mm } Operation Insulation for piping mm Insulation for piping mm	RC-EX3A , RC-E5 , F Thermostat by Overload protection Frost protection Internal thermostatorormal discharge tet (78") Pipe \$\phi\$ 9.52 (5/8") Pipe \$\phi\$ 15.88 Necessary (both Lie	0 ————————————————————————————————————
Available external static pressure Pa 0 Outside air intake Possible Air filter, Quality / Quantity Pocket plastic net x Shock & vibration absorber Rubber sleeve(for Electric heater W — Operation control Room temperature control Operation display Safety equipments Refrigerant piping size (O.D) Connecting method Installation data Refrigerant line (one way) length m — Residence Possible Pa 0 Oposible Possible	RC-EX3A , RC-E5 , F Thermostat by Overload protectic Frost protectic Frost protectic Internal thermost promal discharge tel (8") Pipe φ 9.52 (5/8") Pipe φ 15.88 Necessary (both Lic Min.3 , M	0 — Rubber sleeve (for fan motor & compresso 20(Crank case heater) RCH-E3 Wireless: RCN-T-5AW-E2 relectronics on for fan motor n thermostat at for fan motor mperature protection (3/8")x0.8 O/U \(\phi \) 9.52 (3/8") 8(5/8")x1.0 \(\phi \) 15.88 (5/8") Flare piping — quid & Gas lines) lax.100
Available external static pressure Pa 0 Outside air intake Possible Air filter, Quality / Quantity Pocket plastic net x Shock & vibration absorber Rubber sleeve(for Electric heater W — Operation control Room temperature control Operation display Safety equipments Refrigerant piping size (O.D) Gas line Mm Attached length of piping Mattached length of piping Refrigerant line (one way) length Mat.50 (Outdoor un Max.50 (Outdoor u	RC-EX3A , RC-E5 , F Thermostat by Overload protectic Frost protectic Internal thermosta nonrmal discharge ter (8") Pipe φ 9.52 (5/8") Pipe φ 15.88 ng Necessary (both Lic Min.3 , M nit is higher)	0 — Rubber sleeve (for fan motor & compresso 20(Crank case heater) RCH-E3 Wireless: RCN-T-5AW-E2 relectronics on for fan motor n thermostat at for fan motor mperature protection (3/8")x0.8 O/U \(\phi \) 9.52 (3/8") Flare piping — quid & Gas lines) lax.100 Max.15 (Outdoor unit is lower)
Available external static pressure Pa 0 Outside air intake Possible Air filter, Quality / Quantity Pocket plastic net x Shock & vibration absorber Rubber sleeve(for Electric heater W — Operation control Room temperature control Operation display Safety equipments Refrigerant piping size (O.D) Gas line Mm (O.D) Wired: Connecting method Flare piping Installation data Refrigerant line (one way) length Methods Wired: Max.50 (Outdoor und Max.	RC-EX3A , RC-E5 , F Thermostat by Overload protectic Frost protectic Internal thermost nonrmal discharge ter (8") Pipe φ 9.52 (5/8") Pipe φ 15.88 ng Necessary (both Lin Min.3 , M nit is higher)	0 — — Rubber sleeve (for fan motor & compresso 20(Crank case heater) RCH-E3 Wireless: RCN-T-5AW-E2 relectronics on for fan motor n thermostat at for fan motor mperature protection (3/8")x0.8 O/U φ 9.52 (3/8") 3(5/8")x1.0 φ 15.88 (5/8") Flare piping — quid & Gas lines) lax.100 Max.15 (Outdoor unit is lower) Hole size φ 20 x 3 pcs
Available external static pressure Pa 0 Outside air intake Possible Air filter, Quality / Quantity Pocket plastic net x Shock & vibration absorber Rubber sleeve(for Electric heater W — Operation control Room temperature control Operation display Safety equipments Refrigerant piping size (O.D) Gas line Mm (O.D) Flare piping linstallation data Absorber Alexandra Max.50 (Outdoor und I/U	RC-EX3A , RC-E5 , F Thermostat by Overload protectic Frost protectic Internal thermost nonrmal discharge ter (8") Pipe φ 9.52 (5/8") Pipe φ 15.88 ng Necessary (both Lin Min.3 , M nit is higher)	0 — Rubber sleeve (for fan motor & compresso 20(Crank case heater) RCH-E3 Wireless: RCN-T-5AW-E2 relectronics on for fan motor n thermostat at for fan motor mperature protection (3/8")x0.8 O/U \(\phi \) 9.52 (3/8") 8(5/8")x1.0 \(\phi \) 15.88 (5/8") Flare piping — quid & Gas lines) lax.100 Max.15 (Outdoor unit is lower)
Available external static pressure Pa 0 Outside air intake Possible Air filter, Quality / Quantity Pocket plastic net x Shock & vibration absorber Rubber sleeve(for Electric heater W — Operation control Room temperature control Operation display Safety equipments Refrigerant piping size Liquid line Gas line M 1/U \$\phi\$ 9.52 (3/\text{ (O.D)} Gas line M 15.88 Connecting method Flare pipin Attached length of piping M — Insulation data Refrigerant line (one way) length M Vertical height diff. between O/U and I/U M Max.50 (Outdoor und Drain hose M 15 and During Packet Size M 16 and D	RC-EX3A , RC-E5 , F Thermostat by — Overload protectic Frost protectio Internal thermost onormal discharge ter (8") Pipe φ 9.52 (5/8") Pipe φ 15.88 ng Necessary (both Li Min.3 , M nit is higher) n VP25(O.D.32) mp , 850	O — Rubber sleeve (for fan motor & compresso 20(Crank case heater) RCH-E3 Wireless: RCN-T-5AW-E2 relectronics on for fan motor In thermostat at for fan motor (3/8")x0.8 O/U \(\phi \) 9.52 (3/8") R(5/8")x1.0 \(\phi \) 15.88 (5/8") Flare piping — quid & Gas lines) ax.100 Max.15 (Outdoor unit is lower) Hole size \(\phi \) 20 x 3 pcs
Available external static pressure Pa 0 Outside air intake Possible Air filter, Quality / Quantity Pocket plastic net x Shock & vibration absorber Rubber sleeve(for Electric heater W — Operation control Room temperature control Operation display Safety equipments Refrigerant piping size Liquid line Gas line Mm [I/U \$\phi\$ 9.52 (3/ (0.D) Gas line Mm] Attached length of piping Mata Place on the piping Mata Place on the piping Mata Max.50 (Outdoor und Insulation for piping Max.50 (Outdoor und Insulation Max.50 (Outdoor und	RC-EX3A , RC-E5 , F Thermostat by Overload protectic Frost protectio Internal thermost anomal discharge ter (8") Pipe \$ 9.52 (5/8") Pipe \$ 15.88 Ing Necessary (both Lie Min.3 , M Init is higher) INVP25(O.D.32) Imp , 850 5.6	O — Rubber sleeve (for fan motor & compresso 20(Crank case heater) RCH-E3 Wireless: RCN-T-5AW-E2 relectronics on for fan motor n thermostat at for fan motor (3/8")x0.8 O/U \$\phi\$ 9.52 (3/8") R(5/8")x1.0 \$\phi\$ 15.88 (5/8") Flare piping — quid & Gas lines) ax.100 Max.15 (Outdoor unit is lower) Hole size \$\phi\$ 20 x 3 pcs
Available external static pressure Pa 0 Outside air intake Possible Air filter, Quality / Quantity Pocket plastic net x Shock & vibration absorber Rubber sleeve(for Electric heater W — Operation control Room temperature control Operation display Safety equipments Refrigerant piping size Liquid line Gas line Mm [I/U \$\phi\$ 9.52 (3/ \$\phi\$ 15.88] Connecting method Flare piping Attached length of piping Mefrigerant line (one way) length Methods and provided in the provide	RC-EX3A , RC-E5 , F Thermostat by Overload protectic Frost protectio Internal thermost anomal discharge ter (8") Pipe \$ 9.52 (5/8") Pipe \$ 15.88 Ing Necessary (both Lie Min.3 , M Init is higher) INVP25(O.D.32) Imp , 850 5.6	O — Rubber sleeve (for fan motor & compresso 20(Crank case heater) RCH-E3 Wireless: RCN-T-5AW-E2 relectronics on for fan motor n thermostat at for fan motor mperature protection (3/8")x0.8 O/U \$\phi\$ 9.52 (3/8") 8(5/8")x1.0 \$\phi\$ 15.88 (5/8") Flare piping — quid & Gas lines) ax.100 Max.15 (Outdoor unit is lower) Hole size \$\phi\$ 20 x 3 pcs — O Terminal block (Screw fixing type)
Ar flow Heating M**/ Available external static pressure Pa 0 Outside air intake Possible Air filter, Quality / Quantity Pocket plastic net x Shock & vibration absorber Rubber sleeve(for Electric heater W — Operation control Room temperature control Operation display Safety equipments Refrigerant piping size (O.D) Gas line M** Connecting method Flare piping Installation data Insulation for piping Refrigerant line (one way) length Wertical height diff. between O/U and I/U M** Drain pump, max lift height M** Recommended breaker size A Line M** Line M** Line M** Ab Liquid line M** Gas line M** M** Liquid line Gas line M** M** M** M** M** M** M** M**	RC-EX3A , RC-E5 , F Thermostat by — Overload protectic Frost protectio Internal thermosta following by — Necessary (both Lie Min.3 , M mit is higher) — NP25(0.D.32) mp , 850 — Sores + earth cable /	0 — Rubber sleeve (for fan motor & compresso 20(Crank case heater) RCH-E3 Wireless: RCN-T-5AW-E2 relectronics on for fan motor n thermostat at for fan motor (3/8")x0.8 O/U \(\phi \) 9.52 (3/8") R(5/8")x1.0 \(\phi \) 15.88 (5/8") Flare piping — quid & Gas lines) ax.100 Max.15 (Outdoor unit is lower) Hole size \(\phi \) 20 x 3 pcs — O Terminal block (Screw fixing type) IP24
Available external static pressure Pa 0 Outside air intake Possible Air filter, Quality / Quantity Pocket plastic net x Shock & vibration absorber Rubber sleeve(for Electric heater W — Operation control Room temperature control Operation display Safety equipments Refrigerant piping size Liquid line Gas line Mm [I/U \$\phi\$ 9.52 (3/ (0.D) Gas line Mm] Connecting method Flare piping Matalation for piping Mefrigerant line (one way) length Methods	RC-EX3A , RC-E5 , F Thermostat by — Overload protectic Frost protectio Internal thermosta following by — Necessary (both Lie Min.3 , M mit is higher) — NP25(0.D.32) mp , 850 — Sores + earth cable /	O ———————————————————————————————————

The pipe length is 7.5m.

Item	Indoor air t	emperature	Outdoor air	temperature	Standards
Operation	DB	WB	DB	WB	Standards
Cooling	27°C	19°C	35°C	24°C	ISO5151-T1
Heating	20°C	_	7°C	6°C	ISO5151-H1

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.
- (3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
 (4) Select the breaker size according to the own national standard.
 (5) The operation data indicate when the air-conditioner is operated at 230V 50Hz or 220V 60Hz.

PJF000Z589 ⚠

Information				Model	FDT140	VSXWVH	
Nominat conting capacity (range)	Item				Indoor unit FDT140VH	Outdoor unit FDC140VSX-W	
Norminal heating capacity (rangin)	Power source)			3 Phase, 380 - 415	V 50Hz / 380V 60Hz	
Norminal heating capacity (rangin)		Nominal cooling capacity (ra	ange)	kW	14.0 [3.5(Min.) - 16.0(Max.)]		
Power consumption					- '		
Mean			- '	1			
Max Dever consumption Cooling Funning current Cooling Funning current		Power consumption		kW			
Running current		Max power consumption	ricating	⊣ ````			
Running current Heating A 6.7.7.1		Max power consumption	Cooling	+			
		Running current		- ,			
Operation			Heating	- A			
Power factor		Inrush current, max current	To "				
ERR		Power factor		- % -			
COP	data						
Sound power level				_			
Sound pressure level Heating Sound pressure level Cooling Heating Sound pressure level Heating Sound pressure level Heating Sound pressure level Heating Heating Sound pressure level Sound pressure l		COP	Heating		3.	81	
Fleating Sound pressure level Cooling Heating Silent mode Sound pressure level Heating Silent mode Silent mod		Sound nower level	Cooling		63	69	
Sound pressure level Heating Sound pressure level Sound pres		Souria power level	Heating		64	71	
Pi-Hi- 48 Hi- 41 Mer. 38 LO: 31 50 /49(Normal/Silent)		0	Cooling	-ID(A)	P-Hi: 48 Hi: 42 Me: 39 Lo: 32	54	
Sound pressure level Heating mm		Sound pressure level	Heating		P-Hi: 48 Hi: 41 Me: 38 Lo: 31	54	
Sound pressure level Heating mm		Silent mode	Cooling	7		50 /49(Normal/Silent)	
Exterior dimensions (Height x Width x Depth)					_	51 /48(Normal/Silent)	
Exterior appearance	Exterior dime	nsions (Height x Width x Depth		mm		1300x970x370	
(6.878.8/0.2) near equivalent (RAL 7044) near	Exterior anne	arance		+ +		Stucco white	
RAL 9003 near equivalent RAL 7044 near equivalent							
Net weight	(Manach colo	'')					
Compressor type & O'ty	Net weight			ka		, , ,	
Compressor motor (Starting method) KW		trino 8 Oltri		, kg	Offit 23 Tarier 3		
Refrigerant oil (Amount, type)		/ /		14/4/			
Refrigerant (Type, amount, pre-charge length) kg				_			
Heat exchanger					` '		
Refrigerant control				kg	,	, , , , , , , , , , , , , , , , , , , ,	
Fan type & Q'ty		<u></u>					
Fan motor (Starting method) W							
Air flow		<u> </u>				·	
Heating	Fan motor (St	tarting method)		W	140 < Direct line start > 86x2 < Direct line start		
Outside air intake Possible — Air filter, Quality / Quantity Pocket plastic net x1 (Washable) — Shock & vibration absorber Rubber sleeve(for fan motor) Rubber sleeve (for fan motor & compressor Electric heater Operation control W — 20(Crank case heater) Operation control Remote control (Option) Wired: RC-EX3A, RC-E5, RCH-E3 Wireless: RCN-T-5AW-E2 Operation display — Overload protection for fan motor Frost protection thermostat Internal thermostat Internal thermostat Internal thermostat for fan motor Abnormal discharge temperature protection Safety equipments Refrigerant piping size (O.D) Liquid line Gas line Internal Hermostat for fan motor Frost protection thermostat Internal thermostat for fan motor Abnormal discharge temperature protection Installation data Refrigerant piping size (O.D) Liquid line Gas line Internal Hermostat Machine Gas line Internal Hermostat Machine Gas (S/8") N.0.8 Pipe Ø 9.52 (3/8") N.0.8 O/U Ø 9.52 (3/8") N.0.8 O/U Ø 9.52 (3/8") Pipe Ø 9.52 (3/8") N.0.8 O/U Ø 9.52 (3/8") N.0.8 O/U Ø 9.52 (3/8") Pipe Ø 9.52 (3/8") N.0.8 O/U Ø 9.52 (3/8") Pipe Ø 9.52 (3/8") N.0.8 O/U Ø 9.52 (3/8") Pipe Ø 9.52 (3/8") N.0.8 O/U Ø 9.52 (3/8") Pipe Ø 9.52 (3/8") N.0.8 O/U Ø 9.52 (3/8") Pipe Ø 9.52 (3/8") N.0.8 O/U Ø 9.52 (3/8") Pipe Ø 9.52 (3/8") N.0.8 O/U Ø 9.52 (3/8")	Air flow			m³/min	P-Hi: 38 Hi: 29 Me: 26 Lo: 19	100	
Air filter, Quality / Quantity Pocket plastic net x1(Washable) Rubber sleeve (for fan motor) Rubber sleeve (for fan mo	Available exte	ernal static pressure		Pa	0	0	
Rubber sleeve(for fan motor) Rubber sleeve (for fan motor & compressor Electric heater W	Outside air in	take			Possible	-	
Remote control	Air filter, Qual	ity / Quantity			Pocket plastic net x1(Washable)	_	
Remote control	Shock & vibra	ation absorber			Rubber sleeve(for fan motor)	Rubber sleeve (for fan motor & compressor)	
Remote control Room temperature control Thermostat by electronics	Electric heate	r		W		20(Crank case heater)	
Operation control Room temperature control Thermostat by electronics Operation display — Safety equipments Refrigerant piping size (O.D) Liquid line (O.D) Image: Liqui		· · · · · · · · · · · · · · · · · · ·			(Option) Wired : BC-EX3A BC-E5		
Operation display	Operation						
Safety equipments Coverload protection for fan motor Frost protection thermostat Internal thermostat Internal thermostat Internal thermostat for fan motor Abnormal discharge temperature protection Refrigerant piping size (O.D) Gas line mm I/U \(\phi \) 9.52 (3/8")x0.8 Pipe \(\phi \) 9.52 (3/8")x0.8 O/U \(\phi \) 9.52 (3/8") Connecting method Flare piping	control	· · · · · · · · · · · · · · · · · · ·		1		_	
Refrigerant piping size	Safety equipn				Frost protecti Internal thermos	on thermostat stat for fan motor	
Co.D Gas line Mm		Refrigerant piping size	Liquid line	+ +			
Connecting method Installation data Attached length of piping Refrigerant line (one way) length Vertical height diff. between O/U and I/U Drain hose Drain pump, max lift height Recommended breaker size L.R.A. (Locked rotor ampere) Insulation for piping Refrigerant line (one way) length Max.50 (Outdoor unit is higher) Max.15 (Outdoor unit is lower) Max.15 (Outdoor uni				_ mm ├	1, 0 \$ 0.02 (0,0)x0.0	· · · · · · · · · · · · · · · · · · ·	
Installation data Attached length of piping m — Insulation for piping Necessary (both Liquid & Gas lines) Refrigerant line (one way) length m Min.3, Max.100 Vertical height diff. between O/U and I/U m Max.50 (Outdoor unit is higher) Max.15 (Outdoor unit is lower) Drain hose Hose connectable with VP25(O.D.32) Hole size φ 20 x 3 pcs Drain pump, max lift height mm Built-in drain pump, 850 — Recommended breaker size A — L.R.A. (Locked rotor ampere) A 5.0 Interconnecting wires Size x Core number φ 1.6mm x3 cores + earth cable / Terminal block (Screw fixing type) IP number IPX0 IP24 Standard accessories Mounting kit, Drain hose —		` ,	Guo III lo	+ +			
Insulation for piping Refrigerant line (one way) length m Max.50 (Outdoor unit is higher) Max.15 (Outdoor unit is lower)	Installation			m	- Figure Piping		
Refrigerant line (one way) length m Min.3 , Max.100 Vertical height diff. between O/U and I/U m Max.50 (Outdoor unit is higher) Max.15 (Outdoor unit is lower) Drain hose Hose connectable with VP25(O.D.32) Hole size φ 20 x 3 pcs Drain pump, max lift height mm Built-in drain pump , 850 — Recommended breaker size A — L.R.A. (Locked rotor ampere) A 5.0 Interconnecting wires Size x Core number φ 1.6mm x3 cores + earth cable / Terminal block (Screw fixing type) IP number IPX0 IP24 Standard accessories Mounting kit, Drain hose —		0 11 0		111	Nacassani (hoth I	l .	
Vertical height diff. between O/U and I/U m Max.50 (Outdoor unit is higher) Max.15 (Outdoor unit is lower) Drain hose Hose connectable with VP25(O.D.32) Hole size φ 20 x 3 pcs Drain pump, max lift height mm Built-in drain pump, 850 — Recommended breaker size A — L.R.A. (Locked rotor ampere) A 5.0 Interconnecting wires Size x Core number φ 1.6mm x3 cores + earth cable / Terminal block (Screw fixing type) IP number IPX0 IP24 Standard accessories Mounting kit, Drain hose —	adia		nath				
Drain hose Hose connectable with VP25(0.D.32) Hole size φ 20 x 3 pcs Drain pump, max lift height mm Built-in drain pump , 850 — Recommended breaker size A — L.R.A. (Locked rotor ampere) A 5.0 Interconnecting wires Size x Core number φ 1.6mm x3 cores + earth cable / Terminal block (Screw fixing type) IP number IPX0 IP24 Standard accessories Mounting kit, Drain hose —		0 1 77			<u> </u>		
Drain pump, max lift height mm Built-in drain pump, 850 — Recommended breaker size A — L.R.A. (Locked rotor ampere) A 5.0 Interconnecting wires Size x Core number φ 1.6mm x3 cores + earth cable / Terminal block (Screw fixing type) IP number IPX0 IP24 Standard accessories Mounting kit, Drain hose —			m		` '		
Recommended breaker size A — L.R.A. (Locked rotor ampere) A 5.0 Interconnecting wires Size x Core number φ 1.6mm x3 cores + earth cable / Terminal block (Screw fixing type) IP number IPX0 IP24 Standard accessories Mounting kit, Drain hose —	Di.			+ +	, ,		
L.R.A. (Locked rotor ampere) A 5.0 Interconnecting wires Size x Core number φ 1.6mm x3 cores + earth cable / Terminal block (Screw fixing type) IP number IPX0 IP24 Standard accessories Mounting kit, Drain hose —							
Interconnecting wires Size x Core number ϕ 1.6mm x3 cores + earth cable / Terminal block (Screw fixing type) IP number IPX0 IP24 Standard accessories Mounting kit, Drain hose —							
IP number IPX0 IP24 Standard accessories Mounting kit, Drain hose —	L.R.A. (Locke			A			
Standard accessories Mounting kit, Drain hose –	Interconnectin	ng wires Size x	Core number		<u> </u>	/ Terminal block (Screw fixing type)	
<u> </u>	IP number				IPX0	IP24	
Option parts Motion sensor : LB-T-5W-E	Standard acc	essories			Mounting kit, Drain hose	_	
	Option parts				Motion senso	or : LB-T-5W-E	

Item	Indoor air t	emperature	Outdoor air	temperature	Standards
Operation	DB	WB	DB	WB	Standards
Cooling	27°C	19°C	35°C	24°C	ISO5151-T1
Heating	20°C	_	7°C	6°C	ISO5151-H1

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.
- (3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.

 (4) Select the breaker size according to the own national standard.

 (5) The operation data indicate when the air-conditioner is operated at 400V 50Hz or 380V 60Hz.

(b) Twin type

			Model		NXWPVH
Item				Indoor unit FDT50VH (2 units)	Outdoor unit FDC100VNX-W
Power source				1 Phase, 220 - 240	V 50Hz / 220V 60Hz
	Nominal cooling capacity (ra	ange)	kW	10.0 [3.5(Min	.) - 11.2(Max.)]
	Nominal heating capacity (ra	ange)	kW	11.2 [2.7(Min	.) - 12.5(Max.)]
	Davier assessmentias	Cooling		2.	30
	Power consumption	Heating	kW	2.	64
	Max power consumption		7	7.	.10
	·	Cooling		10.2	/ 10.7
	Running current	Heating	A		/ 12.1
	Inrush current, max current	riodaling	⊣ ′`		25
Operation	muon canoni, max canoni	Cooling			98
data	Power factor	Heating	- %		99
Jata	FED				
	EER COP	Cooling	-		.35
	COP	Heating			.25
	Sound power level	Cooling	4	55	67
		Heating		56	
	Sound pressure level	Cooling	dB(A)	P-Hi: 41 Hi: 33 Me: 30 Lo: 26	53
	Courta pressure level	Heating	ab(A)	P-Hi: 42 Hi: 33 Me: 28 Lo: 20	51
	Silent mode	Cooling			49 /48(Normal/Silent)
	sound pressure level	Heating		-	48 /48(Normal/Silent)
Exterior dimer	nsions (Height x Width x Depth	n)	mm	Unit 236 x 840 x 840 Panel 35 x 950 x 950	1300x970x370
Exterior appea	arance			Plaster white	Stucco white
Munsell color				(6.8Y8.9/0.2) near equivalent	(4.2Y7.5/1.1) near equivalent
RAL color)	,			(RAL 9003) near equivalent	(RAL 7044) near equivalent
Net weight			kg	Unit 19 Panel 5	97
Compressor to	una ^o Oltu		, kg	Offic 13 1 dilei 3	RMT5134SWP3 x 1
	<u>, </u>		14147	_	
<u> </u>	notor (Starting method)		kW	_	Direct line start
	(Amount, type)		L	_	0.9 (M-MB75)
Refrigerant (T	ype, amount, pre-charge leng	:h)	kg	R32 4.0 in outdoor unit (incl. th	ne amount for the piping of 30m)
Heat exchang	er			Louver fin & inner grooved tubing	M shape fin & inner grooved tubing
Refrigerant co	ntrol			Electronic ex	pansion valve
an type & Q'	ty			Turbo fan x1	Propeller fan x2
an motor (St	arting method)		W	50 < Direct line start >	86x2 < Direct line start >
Air flow		Cooling Heating	m³/min	P-Hi: 22 Hi: 16 Me: 13 Lo: 10	100
Available exte	rnal static pressure	1110441119	Pa	0	0
Outside air int			ıα	Possible	_
					_
Air filter, Quali	· · · · · · · · · · · · · · · · · · ·			Pocket plastic net x1(Washable)	
	tion absorber			Rubber sleeve(for fan motor)	Rubber sleeve (for fan motor & compresso
lectric heater			W	<u> </u>	20(Crank case heater)
Operation	Remote control			(Option) Wired: RC-EX3A, RC-E5	, RCH-E3 Wireless : RCN-T-5AW-E2
control	Room temperature control			Thermostat I	by electronics
	Operation display				_
Safety equipm	nents			Frost protecti Internal thermos	tion for fan motor ion thermostat stat for fan motor emperature protection
	Refrigerant piping size (O.D)	Liquid line Gas line	mm	I/U φ 6.35 (1/4") ② φ 9.52 (3/8")x0.8	① φ 9.52 (3/8")x0.8 O/U φ 9.52 (3/8") ① φ 15.88(5/8")x1.0 φ 15.88 (5/8")
	Connecting method	1		Flare piping	Flare piping
nstallation	Attached length of piping		m		
lata	Insulation for piping		1111		 Liquid & Gas lines)
	110	nath			Max.100
	Refrigerant line (one way) le		m	- ,	
	Vertical height diff. between O/	U allu I/U	m	Max.50 (Outdoor unit is higher)	Max.15 (Outdoor unit is lower)
	Drain hose			Hose connectable with VP25(O.D.32)	Hole size φ 20 x 3 pcs
	nax lift height		mm	Built-in drain pump , 850	_
<u>Recommende</u>	d breaker size		Α		
R.A. (Locked	d rotor ampere)		Α	5	5.0
nterconnectin	ng wires Size x	Core number		φ 1.6mm x3 cores + earth cable	/ Terminal block (Screw fixing type)
P number	1 223			IPX0	IP24
Standard acce	essories			Mounting kit, Drain hose	_
Option parts					pr : LB-T-5W-E
JULIULI DALLS				IVIOLIOTI SELISC	JI. L□ I-UVV-L

Notes (1) The data are measured at the following conditions.

Item	Indoor air te	emperature	Outdoor air	temperature	Standards
Operation	DB	WB	DB	WB	Standards
Cooling	27°C	19°C	35°C	24°C	ISO5151-T1
Heating	20°C	_	7°C	6°C	ISO5151-H1

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.
- (3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
 (4) Select the breaker size according to the own national standard.
 (5) The operation data indicate when the air-conditioner is operated at 230V 50Hz or 220V 60Hz.

- (6) Indoor unit specifications for one unit. Capacity and operation data is two indoor units are combined and run together. (7) Branching pipe set "DIS-WA1G"×1(Option). ①: Pipe of O/U-Branch, ②: Pipe of Branch-I/U

			Model	FDT100V	SXWPVH
Item				Indoor unit FDT50VH (2 units)	Outdoor unit FDC100VSX-W
Power source				3 Phase, 380 - 415	V 50Hz / 380V 60Hz
	Nominal cooling capacity (ran	ge)	kW	10.0 [3.5(Min	.) - 11.2(Max.)]
	Nominal heating capacity (ran	ige)	kW	11.2 [2.7(Min	.) - 16.0(Max.)]
	Power consumption	Cooling		2.	30
	Power consumption	Heating	kW	2.	64
	Max power consumption			8.	90
	Dunning ourrent	Cooling		3.9	/ 4.1
	Running current	Heating	Α	4.4	4.7
	Inrush current, max current			5,	14
Operation	Power factor	Cooling	- %	8	5
data	Power factor	Heating	70	8	66
	EER	Cooling		4.	35
	COP	Heating		4.	25
	Sound power level	Cooling		55	67
	Sourid power level	Heating		56	07
	Sound procesure level	Cooling	4B(V)	P-Hi: 41 Hi: 33 Me: 30 Lo: 26	53
	Sound pressure level	Heating	dB(A)	P-Hi: 42 Hi: 33 Me: 28 Lo: 20	51
	Silent mode	Cooling			49 /48(Normal/Silent)
	sound pressure level	Heating		_	48 /48(Normal/Silent)
Exterior dimer	nsions (Height x Width x Depth)		mm	Unit 236 x 840 x 840 Panel 35 x 950 x 950	1300x970x370
Exterior appea	arance			Plaster white	Stucco white
(Munsell color)			(6.8Y8.9/0.2) near equivalent	(4.2Y7.5/1.1) near equivalent
				(RAL 9003) near equivalent	(RAL 7044) near equivalent
Net weight			kg	Unit 19 Panel 5	99
Compressor t	/pe & Q'ty			_	RMT5134SWP4 x 1
Compressor n	notor (Starting method)		kW	_	Direct line start
Refrigerant oil	(Amount, type)		L	_	0.9 (M-MB75)
Refrigerant (T	ype, amount, pre-charge length)	kg	R32 4.0 in outdoor unit (incl. th	e amount for the piping of 30m)
Heat exchang	er			Louver fin & inner grooved tubing	M shape fin & inner grooved tubing
Refrigerant co	ntrol			Electronic ex	pansion valve
Fan type & Q'	ty			Turbo fan x1	Propeller fan x2
Fan motor (St	arting method)		W	50 < Direct line start >	86x2 < Direct line start >
Air flow		Cooling Heating	m³/min	P-Hi: 22 Hi: 16 Me: 13 Lo: 10	
Available exte	rnal static pressure		Pa	0	0
Outside air int	ake			Possible	-
Air filter, Quali	ty / Quantity			Pocket plastic net x1(Washable)	_
Shock & vibra	tion absorber			Rubber sleeve(for fan motor)	Rubber sleeve (for fan motor & compressor)
Electric heater	•		W	-	20(Crank case heater)
O 11	Remote control			(Option) Wired: RC-EX3A, RC-E5,	RCH-E3 Wireless : RCN-T-5AW-E2
Operation control	Room temperature control			Thermostat b	by electronics
Control	Operation display			-	
Safety equipm	nents			Frost protecti Internal thermos	tion for fan motor on thermostat stat for fan motor emperature protection
	Refrigerant piping size	Liquid line		I/U φ 6.35 (1/4") ② φ 9.52 (3/8")x0.8	① ϕ 9.52 (3/8")x0.8 O/U ϕ 9.52 (3/8")
	(O.D)	Gas line	mm		① ϕ 15.88(5/8")x1.0 ϕ 15.88 (5/8")
	Connecting method			Flare piping	Flare piping
Installation	Attached length of piping		m	_	_
data	Insulation for piping			Necessary (both I	Liquid & Gas lines)
	Refrigerant line (one way) leng	gth	m	Min.3 , l	Max.100
	Vertical height diff. between O/U	and I/U	m	Max.50 (Outdoor unit is higher)	Max.15 (Outdoor unit is lower)
Drain hose			Hose connectable with VP25(O.D.32)	Hole size φ 20 x 3 pcs	
Drain pump, n	nax lift height		mm	Built-in drain pump , 850	_
	d breaker size		А		_
	d rotor ampere)		А	5	.0
Interconnectin		Core number		φ 1.6mm x3 cores + earth cable	Terminal block (Screw fixing type)
IP number	1			IPX0	IP24
Standard acce	essories			Mounting kit, Drain hose	
Option parts					r : LB-T-5W-E
Οριίοπ ραιτο					

,	mo pipo ionganio momi				
Item	Indoor air t	emperature	Outdoor air	temperature	Standards
Operation	DB	WB	DB	WB	Staridards
Cooling	27°C	19°C	35°C	24°C	ISO5151-T1
Heating	20°C	_	7°C	6°C	ISO5151-H1

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.
- (3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.

 (4) Select the breaker size according to the own national standard.

 (5) The operation data indicate when the air-conditioner is operated at 400V 50Hz or 380V 60Hz.

- (6) Indoor unit specifications for one unit. Capacity and operation data is two indoor units are combined and run together. (7) Branching pipe set "DIS-WA1G"×1(Option). ①: Pipe of O/U-Branch, ②: Pipe of Branch-I/U

Nominal baseling capacity yrange KW 1.5 (13 KM) 1.5 (10 KM) 1.5 (13 KM) 1				Model	FDT125V	/NXWPVH	
Norminal conting capacity (range)	Item				Indoor unit FDT60VH (2 units)	Outdoor unit FDC125VNX-W	
Nominal heating capacity (vanape)	Power source				1 Phase, 220 - 240	V 50Hz / 220V 60Hz	
Power consumption		Nominal cooling capacity (ra	nge)	kW	12.5 [3.5(Min	.) - 14.0(Max.)]	
Mex. power consumption		Nominal heating capacity (ra	nge)	kW	14.0 [2.7(Min	ı.) - 17.0(Max.)]	
Mex. power consumption			Cooling		2.	98	
Most power consumption		Power consumption		kW			
Running current Heating A 13.1 / 13.7		Max power consumption		7			
Running current Heating A 13.3 / 13.9			Cooling				
		Running current		Α Δ			
Power factor		Inrush current may current	Troduing	- ^			
Power factor	Omawatian	illiusii cuiteiti, illax cuiteiti	Cooling	+	<u> </u>		
ERR		Power factor		- %	Ş	99	
COP	data	FED			4	10	
Sound power level				\dashv			
Sound pressure level Heating Sound pressure level Cooling Heating Silent mode Cooling Heating Silent mode Cooling Heating Silent mode Sound pressure level Sound pressure Sound pressure level Sound pressure Sou		COP				·	
Sound pressure level		Sound power level		4			
Sound pressure level Heating Sound pressure level Heating Heating Sound pressure level Heating Heating Sound pressure level Heating Sound pressure level Heating Sound pressure level Heating Sound pressure		·		_			
Pittle 4 Hi 34 Me 30 Lo 23 53		Sound pressure level		dB(A)			
Sound pressure level Heating				_ ' '	P-Hi: 44 Hi: 34 Me: 30 Lo: 23		
Exterior dimensions (Height x Width x Depth)					_	` ,	
Panel 35 x 850 x 950 1300x9/Ux7/Ux7/Ux7/Ux7/Ux7/Ux7/Ux7/Ux7/Ux7/Ux7		sound pressure level	Heating			50 /48(Normal/Silent)	
Munsell color) (6,878.8/0.2) near equivalent (4,277.5/1.1) near equivalent (RAL 9003) near equivalent (RAL 7044) near equi	Exterior dimer	nsions (Height x Width x Depth)	mm		1300x970x370	
(RAL 500ar)	Exterior appea	arance			Plaster white	Stucco white	
Met weight	`	7)					
Compressor type & O'ty	(RAL color)				(RAL 9003) near equivalent	(RAL 7044) near equivalent	
Compressor motor (Starting method) KW	Net weight			kg	Unit 21 Panel 5	97	
Refrigerant oil (Amount, type)	Compressor t	ype & Q'ty			_	RMT5134SWP3 x 1	
Refrigerant (Type, amount, pre-charge length) kg	Compressor n	notor (Starting method)		kW	_	Direct line start	
Refrigerant (Type, amount, pre-charge length) kg	Refrigerant oil	(Amount, type)		L	_	0.9 (M-MB75)	
Heat exchanger Refrigerant control Fan type & City Fan motor (Starting method) Available external static pressure Outside air intake Refrigerant obsorber Electric heater Operation Control Refrigerant piping size (I.O.D) Refrigerant line (one way) length Refrigerant line (one way) length Personal refreshments Resommended breaker size L.F.A. (Locked rotor ampere) Resommended breaker size L.F.A. (Locked rotor ampere) Resommended breaker size Renumber Standard accessories Resommended breaker size Renumber Standard accessories Resommended breaker size Renumber Standard accessories Resommended breaker size L.F.A. (Locked rotor ampere) Renumber Standard accessories Resommended breaker size L.F.A. (Locked rotor ampere) Renumber Standard accessories Resommended breaker size L.F.A. (Locked rotor ampere) Renumber Standard accessories Resommended breaker size L.F.A. (Locked rotor ampere) Respired A country in the first since and size			h)	ka	R32 4.0 in outdoor unit (incl. th	ne amount for the piping of 30m)	
Refrigerant control			,	 	,	, , ,	
Fan type & Q'ty		<u></u>			· ·		
Fan motor (Starting method) W 50 < Direct line start > 86x2 < Direct line start >					Turbo fan x1	Propeller fan x2	
Air flow		<u> </u>		W		·	
Available external static pressure	Air flow			1 -			
Outside air intake Possible — Air filter, Quality / Quantity Pocket plastic net x1 (Washable) — Shock & vibration absorber Rubber sleeve(for fan motor) Rubber sleeve (for fan motor & compressor) Electric heater W — 20(Crank case heater) Operation control Remote control (Option) Wired : RC-EX3A , RC-E5 , RCH-E3 Wireless : RCN-T-5AW-E2 Operation display — Overload protection for fan motor Frost protection thermostat Internal thermostat for fan motor Abnormal discharge temperature protection Safety equipments Refrigerant piping size (O.D) Liquid line Gas line Matched length of piping in Flare piping Matched length of piping in Flare piping Max.15 (Outdoor unit is lower) Max.15 (Outdoor unit is lower) Hose connectable with VP25(O.D.32) Hole size φ 20 x 3 pcs Drain hose — LR.A. (Locked rotor ampere) A —	Available exte	arnal static pressure	Trouting	Da	0	0	
Air filter, Quality / Quantity Shock & vibration absorber Electric heater Operation Control Remote control Operation Operation display Safety equipments Refrigerant piping size (O.D.) Connecting method Installation data Attached length of piping Insulation for piping Refrigerant line (one way) length Vertical height diff. between O/U and I/U Drain pump, max lift height Recommended breaker size L.R.A. (Locked rotor ampere) Remote control Operation (Option) Wired: RC-EX3A, RC-E5, RCH-E3 Wireless: RCN-T-5AW-E2 (Option) Wired: RC-EX3A, RC-E5, RCH-E3 Wireless: RCN-T-5AW-E2 (Option) Wired: RC-EX3A, RC-E5, RCH-E3 Wireless: RCN-T-5AW-E2 Thermostat by electronics Overload protection for fan motor Frost protection for fan motor Abnormal discharge temperature protection Abnormal discharge temperature protection Abnormal discharge temperature protection Flare piping Flare piping Flare piping Flare piping Flare piping Refrigerant line (one way) length Max.50 (Outdoor unit is higher) Flare piping Flare piping Flare piping Refrigerant line (one way) length Max.15 (Outdoor unit is lower) Drain hose Flare piping Flare piping Resommended breaker size A L.R.A. (Locked rotor ampere) A Built-in drain pump, 850 — L.R.A. (Locked rotor ampere) Flare piping F		· · · · · · · · · · · · · · · · · · ·		+ ι α		· ·	
Rubber sleeve (for fan motor) Rubber sleeve (for fan motor) Rubber sleeve (for fan motor & compressor				+			
Remote control		· · · · · · · · · · · · · · · · · · ·		+	. , ,		
Remote control Room temperature control Coption Wired : RC-EX3A , RC-E5 , RCH-E3 Wireless : RCN-T-5AW-E2				14/	Rubber sleeve(for fan motor)		
Refrigerant piping size Liquid line (O.D) Gas line Max.50 (Outdoor unit is ligher) Max.15 (Outdoor unit is lower) Drain hose Drain pump, max lift height Max.15 (Outdoor unit is lower) A Becommended breaker size A Berlian Height A Berli	Electric neater			VV			
Nom temperature control Thermostat by electronics Thermostat by electronics Thermostat by electronics Thermostat by electronics	Operation				,		
Safety equipments Coverload protection for fan motor Frost protection thermostat Internal thermostat of fan motor Abnormal discharge temperature protection Refrigerant piping size	control	· · · · · · · · · · · · · · · · · · ·		+	I hermostat i	by electronics	
Refrigerant piping size	Safety equipm				Frost protecti Internal thermos	ion thermostat stat for fan motor	
(O.D) Gas line mm φ 12.7 (1/2") ② φ 12.7 (1/2")x0.8 ① φ 15.88(5/8")x1.0 φ 15.88 (5/8")		Refrigerant pining size	Liquid line	+	· ·		
Connecting method Flare piping Flare piping Attached length of piping Mecessary (both Liquid & Gas lines) Refrigerant line (one way) length Merical height diff. between O/U and I/U Merical height Max.50 (Outdoor unit is higher) Max.15 (Outdoor unit is lower) Drain hose Hose connectable with VP25(O.D.32) Hole size \$\phi 20 \times 3 \text{ pc} 20 \text{ pc} 3 \t				mm	. , , , , , , , , , , , , , , , , , , ,		
Attached length of piping m — — — — — — — — — — — — — — — — — —			Gas III le	+	. , , , , , , , ,		
Insulation for piping Refrigerant line (one way) length m Max.50 (Outdoor unit is higher) Max.15 (Outdoor unit is lower) Drain hose Hose connectable with VP25(O.D.32) Hole size ϕ 20 x 3 pcs Drain pump, max lift height mm Built-in drain pump, 850 — Recommended breaker size A — L.R.A. (Locked rotor ampere) A 5.0 Interconnecting wires Size x Core number P 100 Mounting kit, Drain hose — Standard accessories Mounting kit, Drain hose — Next Sas lines) Max.15 (Outdoor unit is lower) Max.15 (Outdoor unit is higher) Max.15 (Outdoor unit is lower) Max.15 (Outdoor unit is higher) Max.15 (Outdoor unit is lower) Max.15 (Outdoor unit is higher) Max.15 (Outdoor unit is lower) Max.15 (Outdoor unit is higher) Max.15 (Outdoor unit is higher) Max.15 (Outdoor unit is higher) Max.15 (Outdoor unit is higher) Max.15 (Outdoor unit is higher) Max.15 (Outdoor unit is higher) Max.15 (Outdoor unit is higher) Max.15 (Outdoor unit is higher) Max.15 (Outdoor unit is higher) Max.15 (Outdoor unit is higher) Max.15 (Outdoor unit is higher) Max.15 (Outdoor unit is higher) Max.15 (Outdoor unit is higher) Max.15 (Outdoor unit is higher) Max.15 (Outdoor unit is higher) Max.15 (Outdoor unit is higher) Max.15 (Outdoor unit is higher) Max.15 (Outdoor unit is higher) Max.15 (Outdoor unit is higher) Max.15 (Outdoor unit is higher) Max.15 (Outdoor unit is higher) Max.15 (Outdoor unit is higher) Max.15 (Outdoor unit is higher) Max.15 (Outdoor unit is higher) Max.15 (Outdoor unit is higher) Max.15 (Outdoor unit is higher) Max.15 (Outdoor unit is higher) Max.15 (Outdoor unit is higher) Max.15 (Outdoor unit is higher) Max.15 (Outdoor unit is higher) Max.15 (Outdoor unit is higher) Max.15 (Outdoor unit is higher) Max.15 (Outdoor unit is higher) Max.15 (Outdoor unit is higher) Max.15 (Outdoor unit is higher) Max.15 (Outdoor unit is higher) Max.15 (Outdoor unit is higher) Max.15 (Outdoor unit is higher) Max.15 (Outdoor unit is high	Inotaliation					110	
Refrigerant line (one way) length m Max.50 (Outdoor unit is higher) Max.100 Vertical height diff. between O/U and I/U m Max.50 (Outdoor unit is higher) Max.15 (Outdoor unit is lower) Drain hose Hose connectable with VP25(O.D.32) Hole size ϕ 20 x 3 pcs Drain pump, max lift height mm Built-in drain pump, 850 — Recommended breaker size A — L.R.A. (Locked rotor ampere) A 5.0 Interconnecting wires Size x Core number ϕ 1.6mm x3 cores + earth cable / Terminal block (Screw fixing type) IP number IPX0 IP24 Standard accessories Mounting kit, Drain hose —				"			
Vertical height diff. between O/U and I/U m Max.50 (Outdoor unit is higher) Max.15 (Outdoor unit is lower) Drain hose Hose connectable with VP25(O.D.32) Hole size φ 20 x 3 pcs Drain pump, max lift height mm Built-in drain pump, 850 — Recommended breaker size A — L.R.A. (Locked rotor ampere) A 5.0 Interconnecting wires Size x Core number φ 1.6mm x3 cores + earth cable / Terminal block (Screw fixing type) IP number IPX0 IP24 Standard accessories Mounting kit, Drain hose —	uala				,	. · · · · · · · · · · · · · · · · · · ·	
Drain hose Hose connectable with VP25(0.D.32) Hole size φ 20 x 3 pcs Drain pump, max lift height mm Built-in drain pump , 850 — Recommended breaker size A — L.R.A. (Locked rotor ampere) A 5.0 Interconnecting wires Size x Core number φ 1.6mm x3 cores + earth cable / Terminal block (Screw fixing type) IP number IPX0 IP24 Standard accessories Mounting kit, Drain hose —				+			
Drain pump, max lift height mm Built-in drain pump , 850 — Recommended breaker size A — L.R.A. (Locked rotor ampere) A 5.0 Interconnecting wires Size x Core number φ 1.6mm x3 cores + earth cable / Terminal block (Screw fixing type) IP number IPX0 IP24 Standard accessories Mounting kit, Drain hose —	-		m	, , ,	,		
Recommended breaker size A — L.R.A. (Locked rotor ampere) A 5.0 Interconnecting wires Size x Core number φ 1.6mm x3 cores + earth cable / Terminal block (Screw fixing type) IP number IPX0 IP24 Standard accessories Mounting kit, Drain hose —		<u> </u>		1	,		
L.R.A. (Locked rotor ampere) A 5.0 Interconnecting wires Size x Core number φ 1.6mm x3 cores + earth cable / Terminal block (Screw fixing type) IP number IPX0 IP24 Standard accessories Mounting kit, Drain hose —	- ' '				Built-in drain pump , 850	_	
Interconnecting wires Size x Core number φ 1.6mm x3 cores + earth cable / Terminal block (Screw fixing type) IP number IPX0 IP24 Standard accessories Mounting kit, Drain hose —	Recommended breaker size		Α		_		
IP number IPX0 IP24 Standard accessories Mounting kit, Drain hose —	L.R.A. (Locked	d rotor ampere)		Α		5.0	
Standard accessories Mounting kit, Drain hose –	Interconnectin	ng wires Size x	Core number		φ 1.6mm x3 cores + earth cable	/ Terminal block (Screw fixing type)	
	IP number				IPX0	IP24	
	Standard acce	essories			Mounting kit, Drain hose	_	
				1	,	or · I D T 5W E	

	,	mo pipo ionganio momi				
	Item	Indoor air t	emperature	Outdoor air	temperature	Standards
	Operation	DB	WB	DB	WB	Staridards
	Cooling	27°C	19°C	35°C	24°C	ISO5151-T1
ĺ	Heating	20°C	_	7°C	6°C	ISO5151-H1

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.
- (2) Inis air-conditioner is manufactured and tested in conformity with the ISO.
 (3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
 (4) Select the breaker size according to the own national standard.
 (5) The operation data indicate when the air-conditioner is operated at 230V 50Hz or 220V 60Hz.
 (6) Indoor unit specifications for one unit. Capacity and operation data is two indoor units are combined and run together.
 (7) Branching pipe set "DIS-WA1G"×1(Option). ①: Pipe of O/U-Branch, ②: Pipe of Branch-I/U

			Model	FDT125\	/SXWPVH
Item				Indoor unit FDT60VH (2 units)	Outdoor unit FDC125VSX-W
Power source				3 Phase, 380 - 415	V 50Hz / 380V 60Hz
	Nominal cooling capacity (ra	ange)	kW	12.5 [3.5(Mir	n.) - 14.0(Max.)]
	Nominal heating capacity (ra	ange)	kW	14.0 [2.7(Mir	n.) - 18.0(Max.)]
	Davier assessmentias	Cooling		2	.98
	Power consumption	Heating	kW	3	.03
	Max power consumption		7	8	.90
	·	Cooling			/5.0
	Running current	Heating	A		/ 5.2
	Inrush current, max current	ricating	⊣ ′′		14
Operation	mach carrent, max carrent	Cooling			90
data	Power factor	Heating	- %		38
data	EER	Cooling			.19
	COP		-		.62
	COP	Heating	-		-
	Sound power level	Cooling	_	58	68
		Heating	_	59	70
	Sound pressure level	Cooling	dB(A)	P-Hi: 44 Hi: 34 Me: 30 Lo: 27	53
		Heating		P-Hi: 44 Hi: 34 Me: 30 Lo: 23	54
	Silent mode	Cooling		_	50 /49(Normal/Silent)
	sound pressure level	Heating		_	50 /48(Normal/Silent)
Exterior dimer	nsions (Height x Width x Depth	1)	mm	Unit 236 x 840 x 840 Panel 35 x 950 x 950	1300x970x370
Exterior appea	arance			Plaster white	Stucco white
(Munsell color				(6.8Y8.9/0.2) near equivalent	(4.2Y7.5/1.1) near equivalent
`	,			(RAL 9003) near equivalent	(RAL 7044) near equivalent
Net weight			kg	Unit 21 Panel 5	99
Compressor t	vne & O'tv		1 3	_	RMT5134SWP4 x 1
	notor (Starting method)		kW	_	Direct line start
	(Amount, type)		L	_	0.9 (M-MB75)
	ype, amount, pre-charge leng	-h)	kg	P32 4 0 in outdoor unit (incl. th	ne amount for the piping of 30m)
Heat exchang	· · · · · · · · · · · · · · · · · · ·		, kg	Louver fin & inner grooved tubing	M shape fin & inner grooved tubing
Refrigerant co			+		pansion valve
Fan type & Q'	<u> </u>		W	Turbo fan x1 50 < Direct line start >	Propeller fan x2 86x2 < Direct line start >
ran motor (St	arting method)	Caaling	VV	50 C Direct line start > 60x2 C Direct line star	
Air flow		Cooling Heating	m³/min	P-Hi: 26 Hi: 17 Me: 14 Lo: 11 100	
	rnal static pressure		Pa	0	0
Outside air int	ake			Possible	_
Air filter, Quali	ty / Quantity			Pocket plastic net x1(Washable)	_
Shock & vibra	tion absorber			Rubber sleeve(for fan motor)	Rubber sleeve (for fan motor & compressor
Electric heater	r		W	_	20(Crank case heater)
	Remote control			(Option) Wired: RC-EX3A, RC-E5	, RCH-E3 Wireless : RCN-T-5AW-E2
Operation control	Room temperature control			Thermostat	by electronics
CONTROL	Operation display				
Safety equipm	nents			Frost protect Internal thermos	tion for fan motor ion thermostat stat for fan motor temperature protection
	Refrigerent piping size	Liquid line	+	-	① φ 9.52 (3/8")x0.8 O/U φ 9.52 (3/8")
	Refrigerant piping size (O.D)		mm		
	` '	Gas line	1	φ 12.7 (1/2") ② φ 12.7(1/2")x0.8	① ϕ 15.88(5/8")x1.0 ϕ 15.88 (5/8")
	Connecting method		+	Flare piping	Flare piping
Installation	Attached length of piping		m	_	_
data	Insulation for piping				Liquid & Gas lines)
	Refrigerant line (one way) le	0	m		Max.100
Vertical height diff. between O/U and I/U		m	Max.50 (Outdoor unit is higher)	Max.15 (Outdoor unit is lower)	
Drain hose			Hose connectable with VP25(O.D.32)	Hole size φ 20 x 3 pcs	
Drain pump, n	nax lift height		mm	Built-in drain pump , 850	_
Recommende	d breaker size		А		_
L.R.A. (Locked	d rotor ampere)		А		5.0
· · · · · · · · · · · · · · · · · · ·	· , ,	Core number		φ 1.6mm x3 cores + earth cable	/ Terminal block (Screw fixing type)
Interconnecting wires Size x Core number			+	IPX0	IP24
IP number				I IFAU	F24
IP number Standard acce	essories				
IP number Standard acco	essories			Mounting kit, Drain hose	1F24 — — — — — — — — — — — — — — — — — — —

,	mo pipo ionganio momi				
Item	Indoor air t	emperature	Outdoor air	temperature	Standards
Operation	DB	WB	DB	WB	Staridards
Cooling	27°C	19°C	35°C	24°C	ISO5151-T1
Heating	20°C	_	7°C	6°C	ISO5151-H1

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.
- (2) Inis air-conditioner is manufactured and tested in conformity with the ISO.
 (3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
 (4) Select the breaker size according to the own national standard.
 (5) The operation data indicate when the air-conditioner is operated at 230V 50Hz or 220V 60Hz.
 (6) Indoor unit specifications for one unit. Capacity and operation data is two indoor units are combined and run together.
 (7) Branching pipe set "DIS-WA1G"×1(Option). ①: Pipe of O/U-Branch, ②: Pipe of Branch-I/U

Indoor unit FDT71VH (2 units)) - 16.0(Max.)]) - 18.0(Max.)] 14 64 10 15.8 16.7 27 9 07 10 69 71
Nominal cooling capacity (range) kW 14.0 [3.5(Min.)) - 16.0(Max.)]) - 18.0(Max.)] 14 64 10 15.8 16.7 27 9 07 10 69 71
Nominal heating capacity (range) kW 16.0 [2.7(Min.)	0 - 18.0(Max.)] 144 64 100 115.8 116.7 227 9 107 100 69 71
Power consumption	144 64 100 115.8 116.7 227 9 907 140 69 71
Power consumption	64 10 115.8 116.7 27 9 9 07 40 69 71
Max power consumption T.1	10 115.8 116.7 27 9 9 07 40 69 71
Running current	15.8 16.7 27 9 9 07 40 69 71
Running current	15.8 16.7 27 9 9 07 40 69 71
Running current	16.7 27 9 07 40 69 71
Inrush current, max current	27 9 07 40 69 71
Operation data Power factor Cooling Heating % 99 EER Cooling 4.0 COP Heating 4.4 Sound power level Cooling Heating 59 Sound pressure level Cooling Heating 60 Silent mode Cooling	9 07 40 69 71
Power factor	07 40 69 71
EER Cooling 4.0 COP Heating 4.4 Sound power level Cooling Heating 59 Sound pressure level Cooling Heating 60 Silent mode Cooling P-Hi: 46 Hi: 34 Me: 31 Lo: 26	40 69 71
COP Heating 4.4 Sound power level Cooling Heating 59 Sound pressure level Cooling Heating 60 Silent mode Cooling	40 69 71
Cooling 59	69 71
Sound power level Heating Sound pressure level Cooling Heating Silent mode Cooling Heating G0 P-Hi: 46 Hi: 34 Me: 31 Lo: 26	71
Sound pressure level Cooling Heating Silent mode Cooling dB(A) P-Hi: 46 Hi: 34 Me: 31 Lo: 26	
Sound pressure level Heating Silent mode Gooling GOOLING Heating AB(A) P-Hi: 46 Hi: 34 Me: 31 Lo: 26	- ·
Silent mode Cooling	54
	50 /49(Normal/Silent)
sound pressure level Heating	51 /48(Normal/Silent)
Exterior dimensions (Height x Width x Depth) mm Unit 236 x 840 x 840 Panel 35 x 950 x 950	1300x970x370
Exterior appearance Plaster white	Stucco white
(Munsell color) (6.8Y8.9/0.2) near equivalent	(4.2Y7.5/1.1) near equivalent
(RAL color) (RAL 9003) near equivalent	(RAL 7044) near equivalent
Net weight kg Unit 21 Panel 5	97
Compressor type & Q'ty —	RMT5134SWP3 x 1
Compressor motor (Starting method) kW -	Direct line start
Refrigerant oil (Amount, type) L -	0.9 (M-MB75)
Refrigerant (Type, amount, pre-charge length) kg R32 4.0 in outdoor unit (incl. the	e amount for the piping of 30m)
Heat exchanger Louver fin & inner grooved tubing	M shape fin & inner grooved tubing
Refrigerant control Electronic exp	pansion valve
Fan type & Q'ty Turbo fan x1	Propeller fan x2
Fan motor (Starting method) W 50 < Direct line start >	86x2 < Direct line start >
Air flow Cooling Heating m³/min P-Hi: 28 Hi: 18 Me: 15 Lo: 12	100
Available external static pressure Pa 0	0
Outside air intake Possible	
Air filter, Quality / Quantity Pocket plastic net x1(Washable)	_
Shock & vibration absorber Rubber sleeve(for fan motor)	Rubber sleeve (for fan motor & compressor
Electric heater W —	20(Crank case heater)
Remote control (Option) Wired: RC-EX3A, RC-E5,	,
Operation Room temperature control Thermostat b	
control Hoom temperature control	y electronics
Operation display	
Operation display Overload protecti Frost protectic Internal thermost Abnormal discharge te	on thermostat tat for fan motor
Operation display Safety equipments Internal thermost Abnormal discharge te	on thermostat tat for fan motor
Operation display Safety equipments Safety equipments Refrigerant piping size Liquid line mm Overload protecti Frost protectic Internal thermost Abnormal discharge te	on thermostat tat for fan motor emperature protection
Operation display Safety equipments Safety equipments Refrigerant piping size Liquid line mm Overload protecti Frost protectic Internal thermost Abnormal discharge te	on thermostat tat for fan motor emperature protection ①
Operation display	on thermostat tat for fan motor emperature protection ① φ 9.52 (3/8")x0.8 O/U φ 9.52 (3/8") ① φ 15.88(5/8")x1.0 φ 15.88 (5/8")
Operation display	on thermostat tat for fan motor emperature protection ① φ 9.52 (3/8")x0.8 O/U φ 9.52 (3/8") ① φ 15.88(5/8")x1.0 φ 15.88 (5/8") Flare piping —
Operation display	on thermostat tat for fan motor emperature protection ① φ 9.52 (3/8")x0.8 O/U φ 9.52 (3/8") ① φ 15.88(5/8")x1.0 φ 15.88 (5/8") Flare piping — iquid & Gas lines)
Operation display	on thermostat tat for fan motor emperature protection ① φ 9.52 (3/8")x0.8 O/U φ 9.52 (3/8") ① φ 15.88(5/8")x1.0 φ 15.88 (5/8") Flare piping — iquid & Gas lines) Max.100
Operation display Safety equipments Refrigerant piping size (O.D) Connecting method Installation data Refrigerant line (one way) length Vertical height diff. between O/U and I/U Overload protectic Frost protectic Internal thermost Abnormal discharge te Insulation of Plare piping Max.50 (Outdoor unit is higher)	on thermostat tat for fan motor emperature protection ① φ 9.52 (3/8")x0.8
Operation display Overload protectic Frost protectic Internal thermost Abnormal discharge te	on thermostat tat for fan motor emperature protection ① φ 9.52 (3/8")x0.8
Operation display Overload protectic Frost protectic Internal thermost Abnormal discharge te	on thermostat tat for fan motor emperature protection ① φ 9.52 (3/8")x0.8
Operation display Safety equipments Refrigerant piping size (O.D) Connecting method Installation data Refrigerant line (one way) length Vertical height diff. between O/U and I/U Drain pump, max lift height Recommended breaker size Overload protectic Frost protectic Internal thermost Abnormal discharge te Invu 9.52 (3/8") ② \$\phi\$ 9.52 (3/8")x0.8 Verios (O.D) Gas line mm I/U \$\phi\$ 9.52 (3/8") ② \$\phi\$ 9.52 (3/8")x1.0 Flare piping m —	on thermostat tat for fan motor emperature protection ① φ 9.52 (3/8")x0.8 O/U φ 9.52 (3/8") ① φ 15.88(5/8")x1.0 φ 15.88 (5/8") Flare piping — iquid & Gas lines) Max.100 Max.15 (Outdoor unit is lower) Hole size φ 20 x 3 pcs
Operation display Safety equipments Refrigerant piping size (O.D) Connecting method Installation data Refrigerant line (one way) length Vertical height diff. between O/U and I/U Drain pump, max lift height Recommended breaker size Liquid line (M.D.) Gas line Gas line Mm Min.3 , Nounce (O.D.) Refrigerant piping size (D.D.) Gas line Mm Min.3 , Nounce (O.D.) Refrigerant piping (D.D.) Refrigerant line (one way) length (D.D.) Drain pump, max lift height (D.D.) Recommended breaker size A Connecting method Flare piping Min.3 , Nounce (D.D.) Min.3 , Nounce (D.D.) Max.50 (Outdoor unit is higher) Min.3 , Nounce (D.D.) Max.50 (Outdoor unit is higher) Min.3 , Nounce (D.D.) Max.50 (Outdoor unit is higher) Min.3 , Nounce (D.D.) Min.3 , Noun	on thermostat tat for fan motor emperature protection ①
Operation display	on thermostat tat for fan motor emperature protection ①
Safety equipments Saf	on thermostat tat for fan motor emperature protection ① φ 9.52 (3/8")x0.8 O/U φ 9.52 (3/8") ① φ 15.88(5/8")x1.0 φ 15.88 (5/8") Flare piping — iquid & Gas lines) Max.100 Max.15 (Outdoor unit is lower) Hole size φ 20 x 3 pcs — 0 Terminal block (Screw fixing type) IP24
Operation display	on thermostat tat for fan motor emperature protection ① φ 9.52 (3/8")x0.8 O/U φ 9.52 (3/8") ① φ 15.88(5/8")x1.0 φ 15.88 (5/8") Flare piping — iquid & Gas lines) Max.100 Max.15 (Outdoor unit is lower) Hole size φ 20 x 3 pcs — - 0 Terminal block (Screw fixing type) IP24 —

	,		5			mo pipo ionganio momi
	Item	Indoor air t	emperature	Outdoor air	temperature	Standards
	Operation	DB	WB	DB	WB	Staridards
	Cooling	27°C	19°C	35°C	24°C	ISO5151-T1
ĺ	Heating	20°C	_	7°C	6°C	ISO5151-H1

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.
- (3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
 (4) Select the breaker size according to the own national standard.
 (5) The operation data indicate when the air-conditioner is operated at 230V 50Hz or 220V 60Hz.

- (6) Indoor unit specifications for one unit. Capacity and operation data is two indoor units are combined and run together. (7) Branching pipe set "DIS-WA1G"×1(Option). ①: Pipe of O/U-Branch, ②: Pipe of Branch-I/U

			Model	FDT140V	SXWPVH	
Item				Indoor unit FDT71VH (2 units)	Outdoor unit FDC140VSX-W	
Power source					V 50Hz / 380V 60Hz	
	Nominal cooling capacity (ra	nge)	kW	14.0 [3.5(Min		
	Nominal heating capacity (ra		kW	- `	.) - 20.0(Max.)]	
	rtermia ricating capacity (is	Cooling	1	, ,	44	
	Power consumption	Heating	H kW		64	
	May navyay as as your time	rieating	- NVV			
	Max power consumption	0 15			90	
	Running current	Running current Cooling			/ 5.7	
		Heating	Α		/ 6.2	
	Inrush current, max current			5,	14	
Operation	Power factor	Cooling	- %	9	1	
data	1 ower factor	Heating	70	8	9	
	EER	Cooling		4.	07	
	COP	Heating		4.	40	
		Cooling		59	69	
	Sound power level	Heating		60	71	
		Cooling				
	Sound pressure level	Heating	dB(A)	P-Hi: 46 Hi: 34 Me: 31 Lo: 26	54	
	Silent mode	Cooling	-		50 /49(Normal/Silent)	
	sound pressure level	Heating	\dashv	_	51 /48(Normal/Silent)	
	Todana produite level	riealing	+	Unit 236 x 840 x 840	51/40(NOTHAR/SHEIL)	
	nsions (Height x Width x Depth)	mm	Panel 35 x 950 x 950	1300x970x370	
Exterior appea				Plaster white	Stucco white	
Munsell color)			(6.8Y8.9/0.2) near equivalent	(4.2Y7.5/1.1) near equivalent	
				(RAL 9003) near equivalent	(RAL 7044) near equivalent	
Net weight			kg	Unit 21 Panel 5	99	
Compressor t	ype & Q'ty			-	RMT5134SWP4 x 1	
Compressor n	notor (Starting method)		kW	_	Direct line start	
Refrigerant oil	(Amount, type)		L	- 0.9 (M-MB75)		
Refrigerant (T	ype, amount, pre-charge lengt	h)	kg	R32 4.0 in outdoor unit (incl. th	e amount for the piping of 30m)	
Heat exchang		,	† <u> </u>	Louver fin & inner grooved tubing	M shape fin & inner grooved tubing	
Refrigerant co				, ,	pansion valve	
Fan type & Q'				Turbo fan x1	Propeller fan x2	
	arting method)		W	50 < Direct line start >	86x2 < Direct line start >	
Air flow	arting motiody	Cooling	m³/min	P-Hi: 28 Hi: 18 Me: 15 Lo: 12		
		Heating			_	
	rnal static pressure		Pa	0	0	
Outside air int				Possible	-	
Air filter, Quali	· · · · · · · · · · · · · · · · · · ·			Pocket plastic net x1(Washable)	_	
Shock & vibra	tion absorber			Rubber sleeve(for fan motor)	Rubber sleeve (for fan motor & compress	
Electric heate	<u> </u>		W	_	20(Crank case heater)	
	Remote control			(Option) Wired: RC-EX3A, RC-E5,	RCH-E3 Wireless: RCN-T-5AW-E2	
Operation control	Room temperature control			Thermostat b	by electronics	
CONTROL	Operation display			-	_	
Safety equipm	nents			Frost protecti Internal thermos	tion for fan motor on thermostat stat for fan motor emperature protection	
	Refrigerant piping size	Liquid line	mre	I/U φ 9.52 (3/8") ② φ 9.52 (3/8")x0.8	① φ 9.52 (3/8")x0.8 O/U φ 9.52 (3/8	
	(O.D)	Gas line	mm	φ 15.88 (5/8") ② φ 15.88(5/8")x1.0	① φ 15.88(5/8")x1.0 φ 15.88 (5/8")	
	Connecting method			Flare piping	Flare piping	
nstallation	Attached length of piping		m	_	_	
data	Insulation for piping			Necessarv (both I	Liquid & Gas lines)	
	Refrigerant line (one way) ler	nath	m	• `	Max.100	
	Vertical height diff. between O/U		m	Max.50 (Outdoor unit is higher)	Max.15 (Outdoor unit is lower)	
	Drain hose) and 1/0	1111	Hose connectable with VP25(O.D.32)	Hole size ϕ 20 x 3 pcs	
Orain numer	ļ		mre	` ,	· · ·	
	nax lift height		mm	Built-in drain pump , 850	_	
	d breaker size		A	-	_	
,	d rotor ampere)		A		.0	
nterconnectir	ig wires Size x	Core number		,	/ Terminal block (Screw fixing type)	
P number				IPX0	IP24	
Standard acce	essories			Mounting kit, Drain hose	-	
Option parts				Motion senso	or : LB-T-5W-E	
				•		

Item	Indoor air t	emperature	Outdoor air	temperature	Standards
Operation	DB	WB	DB	WB	Standards
Cooling	27°C	19°C	35°C	24°C	ISO5151-T1
Heating	20°C	_	7°C	6°C	ISO5151-H1

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.
- (3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.

 (4) Select the breaker size according to the own national standard.

 (5) The operation data indicate when the air-conditioner is operated at 400V 50Hz or 380V 60Hz.

- (6) Indoor unit specifications for one unit. Capacity and operation data is two indoor units are combined and run together. (7) Branching pipe set "DIS-WA1G"×1(Option). ①: Pipe of O/U-Branch, ②: Pipe of Branch-I/U

(c) Triple type

			Model	FDT140V	NXWTVH
Item				Indoor unit FDT50VH (3 units)	Outdoor unit FDC140VNX-W
Power source				1 Phase, 220 - 240	V 50Hz / 220V 60Hz
	Nominal cooling capacity (range	ge)	kW	14.0 [3.5(Min	ı.) - 16.0(Max.)]
	Nominal heating capacity (ran		kW	* `	i.) - 18.0(Max.)]
		Cooling		,	48
	Power consumption	Heating	kW		74
	Max power consumption	<u> </u>	1		.10
	max porrer conteamprion	Cooling			/ 16.1
	Running current	Heating	A		/ 17.2
	Inrush current, max current	rieating	- ^		27
O	Illiusii current, max current	Cooling		·	98
Operation data	Power factor	Cooling	- %		-
uaia		Heating			99
	EER	Cooling	_		.02
	COP	Heating			.28
	Sound power level	Cooling	_	55	69
		Heating		56	71
	Sound pressure level	Cooling	dB(A)	P-Hi: 41 Hi: 33 Me: 30 Lo: 26	54
	Courta pressure level	Heating	_ ub(A)	P-Hi: 42 Hi: 33 Me: 28 Lo: 20	04
	Silent mode	Cooling			50 /49(Normal/Silent)
	sound pressure level	Heating		_	51 /48(Normal/Silent)
Exterior dimon	sions (Height x Width x Depth)	•	mm	Unit 236 x 840 x 840	1300x970x370
Exterior dimen	sions (Height x Width x Depth)		111111	Panel 35 x 950 x 950	1300x970x370
Exterior appea	rance			Plaster white	Stucco white
(Munsell color)				(6.8Y8.9/0.2) near equivalent	(4.2Y7.5/1.1) near equivalent
(RAL color)				(RAL 9003) near equivalent	(RAL 7044) near equivalent
Net weight			kg	Unit 19 Panel 5	97
Compressor ty	pe & Q'ty			-	RMT5134SWP3 x 1
Compressor m	notor (Starting method)		kW	_	Direct line start
Refrigerant oil	(Amount, type)		L	_	0.9 (M-MB75)
Refrigerant (Ty	/pe, amount, pre-charge length)		kg	R32 4.0 in outdoor unit (incl. th	ne amount for the piping of 30m)
Heat exchange	er		1	Louver fin & inner grooved tubing	M shape fin & inner grooved tubing
Refrigerant cor					pansion valve
Fan type & Q'ty				Turbo fan x1	Propeller fan x2
Fan motor (Sta	<u> </u>		W	50 < Direct line start >	86x2 < Direct line start >
,		Cooling			
Air flow		Heating	m³/min	P-Hi: 22 Hi: 16 Me: 13 Lo: 10	100
	nal static pressure		Pa	0	0
Outside air inta				Possible	_
Air filter, Qualit	y / Quantity			Pocket plastic net x1(Washable)	_
Shock & vibrat	ion absorber			Rubber sleeve(for fan motor)	Rubber sleeve (for fan motor & compressor
Electric heater			W	-	20(Crank case heater)
O	Remote control			(Option) Wired: RC-EX3A, RC-E5	, RCH-E3 Wireless : RCN-T-5AW-E2
Operation control	Room temperature control			Thermostat b	by electronics
CONTROL	Operation display			-	_
Safety equipme	ents			Frost protecti Internal thermos	tion for fan motor ion thermostat stat for fan motor
	I =	11:		<u> </u>	temperature protection
		Liquid line	mm	I/U φ 6.35 (1/4") ② φ 9.52 (3/8")x0.8	① φ 9.52 (3/8")x0.8 O/U φ 9.52 (3/8")
	Refrigerant piping size				
	(O.D)	Gas line			① ϕ 15.88(5/8")x1.0 ϕ 15.88 (5/8")
	(O.D) Connecting method	Gas line		Flare piping	Flare piping
	(O.D) Connecting method Attached length of piping	Gas line	m	Flare piping —	Flare piping —
	(O.D) Connecting method	Gas line		Flare piping —	Flare piping
Installation data	(O.D) Connecting method Attached length of piping			Flare piping Necessary (both I	Flare piping —
	(O.D) Connecting method Attached length of piping Insulation for piping	ıth	m	Flare piping Necessary (both I	Flare piping — Liquid & Gas lines)
	(O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) leng	ıth	m m	Flare piping — Necessary (both I Min.3,	Flare piping — Liquid & Gas lines) Max.100
data	(O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) leng Vertical height diff. between O/U or Drain hose	ıth	m m m	Flare piping — Necessary (both I Min.3 , Max.50 (Outdoor unit is higher) Hose connectable with VP25(O.D.32)	Flare piping Liquid & Gas lines) Max.100 Max.15 (Outdoor unit is lower)
data Drain pump, m	(O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) leng Vertical height diff. between O/U Drain hose ax lift height	ıth	m m m	Flare piping — Necessary (both I Min.3 , Max.50 (Outdoor unit is higher) Hose connectable with VP25(O.D.32) Built-in drain pump , 850	Flare piping Liquid & Gas lines) Max.100 Max.15 (Outdoor unit is lower) Hole size ϕ 20 x 3 pcs
Drain pump, m Recommended	(O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) leng Vertical height diff. between O/U Drain hose nax lift height d breaker size	ıth	m m m A	Flare piping — Necessary (both I Min.3 , Max.50 (Outdoor unit is higher) Hose connectable with VP25(O.D.32) Built-in drain pump , 850	Flare piping Liquid & Gas lines) Max.100 Max.15 (Outdoor unit is lower) Hole size ϕ 20 x 3 pcs —
Drain pump, m Recommended L.R.A. (Locked	(O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) leng Vertical height diff. between O/U Drain hose nax lift height d breaker size I rotor ampere)	yth and I/U	m m m	Flare piping — Necessary (both I Min.3 , Max.50 (Outdoor unit is higher) Hose connectable with VP25(O.D.32) Built-in drain pump , 850	Flare piping Liquid & Gas lines) Max.100 Max.15 (Outdoor unit is lower) Hole size \$\phi\$ 20 x 3 pcs — 5.0
Drain pump, m Recommended L.R.A. (Locked Interconnecting	(O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) leng Vertical height diff. between O/U Drain hose nax lift height d breaker size I rotor ampere)	ıth	m m m A	Flare piping	Flare piping Liquid & Gas lines) Max.100 Max.15 (Outdoor unit is lower) Hole size \$\phi\$ 20 x 3 pcs 5.0 / Terminal block (Screw fixing type)
Drain pump, m Recommended L.R.A. (Locked Interconnecting IP number	(O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) leng Vertical height diff. between O/U Drain hose nax lift height d breaker size I rotor ampere) g wires Size x C	yth and I/U	m m m A	Flare piping	Flare piping Liquid & Gas lines) Max.100 Max.15 (Outdoor unit is lower) Hole size ϕ 20 x 3 pcs — 5.0 / Terminal block (Screw fixing type)
Drain pump, m Recommended L.R.A. (Locked Interconnecting	(O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) leng Vertical height diff. between O/U Drain hose nax lift height d breaker size I rotor ampere) g wires Size x C	yth and I/U	m m m A	Flare piping	Flare piping Liquid & Gas lines) Max.100 Max.15 (Outdoor unit is lower) Hole size \$\phi\$ 20 x 3 pcs 5.0 / Terminal block (Screw fixing type)

Notes (1) The data are measured at the following conditions.

	,		5			mo pipo ionganio momi
	Item	Indoor air t	emperature	Outdoor air	temperature	Standards
	Operation	DB	WB	DB	WB	Staridards
	Cooling	27°C	19°C	35°C	24°C	ISO5151-T1
ĺ	Heating	20°C	_	7°C	6°C	ISO5151-H1

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.
- (3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
 (4) Select the breaker size according to the own national standard.
 (5) The operation data indicate when the air-conditioner is operated at 230V 50Hz or 220V 60Hz.

- (6) Indoor unit specifications for one unit. Capacity and operation data is three indoor units are combined and run together. (7) Branching pipe set "DIS-TB1G"×1(Option). ① : Pipe of O/U-Branch, ② : Pipe of Branch-I/U

Nominal coeffing capacity (range)				Model	FDT140V	SXWTVH
Naminal cooling capacity frame IAW 14.0 3.5(Min) - 16.0(Max)	Item				Indoor unit FDT50VH (3 units)	Outdoor unit FDC140VSX-W
Nominal heating capacity (range)	Power source				, , ,	V 50Hz / 380V 60Hz
Nominal heating capacity (range)		Nominal cooling capacity (ra	nae)	kW		
Power consumption			<u> </u>		* `	· · · · · · · · · · · · · · · · · · ·
Meaning current			- '		• ,	
Max power consumption Cooling Funding current Cooling Funding current Cooling Funding current Funding current Funding current Funding current Funding current Funding current Funding Funding current Funding Funding current Funding Funding current		Power consumption		k/W		
Running current		May power consumption	Troduing	- ***		
Running current Heating A 6.3 / 6.6		Max power consumption	Cooling			
		Running current		- ,		
Power factor			Heating	- A		
Power factor		Inrush current, max current	To ::			
Heating Heating	Operation	Power factor		- %		
COP	data			/-		·
Sound pressure level			Cooling			
Sound pressure level		COP	Heating		4.	28
Fleating Cooling Heating Sound pressure level Cooling Heating Silent mode Cooling Silent mode Sound pressure level Heating Silent wildth x Depth) The pressure Silent mode Sound pressure level Heating Silent wildth x Depth) The pressure Silent mode Si		Sound nower lovel	Cooling		55	69
Sound pressure level Heating Gooling Silent mode Cooling Sound pressure level Heating Sound pressure False twite Sound pressure		Souria power level	Heating		56	71
Heating Silent mode Cooling Silent mode Sound pressure level Heating First AlgNormal/Silent) First AlgNorm			Cooling] _{ID(A)}	P-Hi: 41 Hi: 33 Me: 30 Lo: 26	5.4
Silent mode Sund pressure level Heating - 50 /48 Normal/Silent)		Sound pressure level	Heating	dB(A)	P-Hi: 42 Hi: 33 Me: 28 Lo: 20	54
Sound pressure level Heating		Silent mode				50 /49(Normal/Silent)
Available external static pressure					_	` ,
Panel 30 x 90 x	Exterior dimer	· · · · · · · · · · · · · · · · · · ·		mm		, ,
(6.878.970.2) near equivalent (RAL 7044) near						
RAL 9003 near equivalent RAL 7044 near equivalent Ral 7049 near equivalent						
Net weight	(iviuriseii color)				
Compressor type & O'ty	Naturalalat			l.m	` / '	, , ,
Compressor motor (Starting method) KW -				kg	Offic 19 Parier 5	
Refrigerant oil (Amount, type) L		· · · · · · · · · · · · · · · · · · ·		1.147	-	
Refrigerant (Type, amount, pre-charge length) kg	<u> </u>				<u> </u>	
Louver fin & inner grooved tubing M shape fin & inner grooved tubing Electronic expansion valve Electronic expansion valve Electronic expansion valve Electronic expansion valve Turbo fan x1 Propeller fan x2						, ,
Refrigerant control Figure & O'ty Fan type & O'ty Fan motor (Starting method) Available external static pressure Pa Outside air intake Possible Pocket plastic net x1(Washable) Poscet plastic net x1(Washable) Poscet plastic net x1(Washable) Poperation absorber Rubber sleeve(for fan motor) Rom temperature control Poperation other) Rom temperature control Poperation display Refrigerant piping size (O.D) Gas line Possible Pocket plastic net x1(Washable) Possible Poss			ገ)	kg	,	,
Fan type & Q'ty Fan motor (Starting method) Air flow Cooling Heating Patient P						
Cooling	Refrigerant co	ntrol			Electronic ex	pansion valve
Cooling	Fan type & Q'	ty			Turbo fan x1	Propeller fan x2
Heating	Fan motor (St	arting method)		W	50 < Direct line start >	86x2 < Direct line start >
Possible	Air flow			m³/min	P-Hi: 22 Hi: 16 Me: 13 Lo: 10	100
Pocket plastic net x1(Washable)	Available exte	rnal static pressure		Pa	0	0
Rubber sleeve (for fan motor) Rubber sleeve (for fan motor & compressor 20(Crank case heater)	Outside air int	ake			Possible	_
Rubber sleeve (for fan motor) Rubber sleeve (for fan motor & compressor 20(Crank case heater)	Air filter, Quali	ty / Quantity			Pocket plastic net x1(Washable)	_
Remote control Room temperature control Coperation control Room temperature control Coperation control Coperation display	Shock & vibra	tion absorber			Rubber sleeve(for fan motor)	Rubber sleeve (for fan motor & compressor
Remote control Room temperature control Room temperature control Refrigerant piping size Connecting method Refrigerant line (one way) length Refrigerant line (one way) length Vertical height diff. between O/U and I/U Prain hose Refrigerant piping max lift height Refrigerant piping max lift height Refrigerant piping Re	Electric heater			W	_	` '
Room temperature control Thermostat by electronics					(Ontion) Wired : BC-FX3A BC-F5	, , ,
Operation display Operation display Overload protection for fan motor Frost protection thermostat Internal thermostat of fan motor Abnormal discharge temperature protection	Operation					·
Overload protection for fan motor Frost protection thermostat Internal thermostat for fan motor Abnormal discharge temperature protection Refrigerant piping size	control	<u> </u>			memostati	by electronics
(O.D) Gas line ## ## ## ## ## ## ## ## ## ## ## ## ##	Safety equipm				Frost protecti Internal thermos	on thermostat stat for fan motor
(O.D) Gas line mm \$\phi 12.7 (1/2") \(\bar{2} \) \$\phi 12.7 (1/2") \(\bar{2} \) \$\phi 12.8 (5/8") \(\text{x} 1.0 \) \$\phi 15.88 (5/8") \\ \text{x} 1.0 \\ \text{y 15.88 (5/8")} \\ \text{1.0 \text{ming} 1.0 \\ \text{y 1.0 \text{ming} 1.0 \\ \text{ming} 1.		Refrigerant piping size	Liquid line		I/U φ 6.35 (1/4") ② φ 9.52 (3/8")x0.8	① φ 9.52 (3/8")x0.8 O/U φ 9.52 (3/8")
Connecting method Attached length of piping Insulation data Attached length of piping Refrigerant line (one way) length Vertical height diff. between O/U and I/U Drain hose Drain pump, max lift height Recommended breaker size R.A. (Locked rotor ampere) P number Connecting method Flare piping Flare piping M			Gas line	_ mm		① φ 15.88(5/8")x1.0 φ 15.88 (5/8")
Attached length of piping m — — — — — — — — — — — — — — — — — —		Connecting method			. , , , , , ,	
Insulation for piping Refrigerant line (one way) length Wertical height diff. between O/U and I/U Drain hose Prain pump, max lift height Recommended breaker size R.R.A. (Locked rotor ampere) Reconnecting wires Reconnecting wires Reconnections Reconnectio	Installation			m		110
Refrigerant line (one way) length m Min.3 , Max.100 Vertical height diff. between O/U and I/U m Max.50 (Outdoor unit is higher) Max.15 (Outdoor unit is lower) Drain hose Hose connectable with VP25(0.D.32) Hole size ϕ 20 x 3 pcs Drain pump, max lift height mm Built-in drain pump , 850 — Recommended breaker size A — LR.A. (Locked rotor ampere) A 5.0 Interconnecting wires Size x Core number ϕ 1.6mm x3 cores + earth cable / Terminal block (Screw fixing type) P number IPX0 IP24 Standard accessories Mounting kit, Drain hose —	data				Necessary (both I	Liquid & Gas lines)
Vertical height diff. between O/U and I/U m Max.50 (Outdoor unit is higher) Max.15 (Outdoor unit is lower) Drain hose Hose connectable with VP25(O.D.32) Hole size φ 20 x 3 pcs Drain pump, max lift height mm Built-in drain pump , 850 — Recommended breaker size A — R.A. (Locked rotor ampere) A 5.0 Interconnecting wires Size x Core number φ 1.6mm x3 cores + earth cable / Terminal block (Screw fixing type) P number IPX0 IP24 Standard accessories Mounting kit, Drain hose —			ath	m	, ,	
Drain hose Hose connectable with VP25(0.D.32) Hole size φ 20 x 3 pcs Drain pump, max lift height mm Built-in drain pump , 850 — Recommended breaker size A — L.R.A. (Locked rotor ampere) A 5.0 Interconnecting wires Size x Core number φ 1.6mm x3 cores + earth cable / Terminal block (Screw fixing type) P number IPX0 IP24 Standard accessories Mounting kit, Drain hose —		,				1
Drain pump, max lift height mm Built-in drain pump, 850 — Recommended breaker size A — R.A. (Locked rotor ampere) A 5.0 Interconnecting wires Size x Core number φ 1.6mm x3 cores + earth cable / Terminal block (Screw fixing type) P number IPX0 IP24 Standard accessories Mounting kit, Drain hose —				+ '''	, ,	,
Recommended breaker size A — R.A. (Locked rotor ampere) A 5.0 nterconnecting wires Size x Core number φ 1.6mm x3 cores + earth cable / Terminal block (Screw fixing type) P number IPX0 IP24 Standard accessories Mounting kit, Drain hose —	Drain numn n	ļ		mm	` '	, ,
R.A. (Locked rotor ampere) A 5.0 nterconnecting wires Size x Core number φ 1.6mm x3 cores + earth cable / Terminal block (Screw fixing type) P number IPX0 IP24 Standard accessories Mounting kit, Drain hose —					Built-in drain pump , 650	_
nterconnecting wires Size x Core number φ 1.6mm x3 cores + earth cable / Terminal block (Screw fixing type) P number IPX0 IP24 Standard accessories Mounting kit, Drain hose —					-	
P number IPX0 IP24 Standard accessories Mounting kit, Drain hose —	•	· · ·		Α		
Standard accessories Mounting kit, Drain hose –		g wires Size x	Core number		,	
	IP number					IP24
Option parts Motion sensor : LB-T-5W-E	Standard acce	essories			Mounting kit, Drain hose	_
	Option parts				Motion senso	or : LB-T-5W-E

Item	Indoor air t	emperature	Outdoor air	temperature	Standards
Operation	DB	WB	DB	WB	Standards
Cooling	27°C	19°C	35°C	24°C	ISO5151-T1
Heating	20°C	_	7°C	6°C	ISO5151-H1

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.
- (3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.

 (4) Select the breaker size according to the own national standard.

 (5) The operation data indicate when the air-conditioner is operated at 400V 50Hz or 380V 60Hz.

- (6) Indoor unit specifications for one unit. Capacity and operation data is three indoor units are combined and run together. (7) Branching pipe set "DIS-TB1G"×1(Option). ① : Pipe of O/U-Branch, ② : Pipe of Branch-I/U

(2) Ceiling cassette-4 way compact type (FDTC)

(a) Twin type

			Model	FDTC100	VNXWPVH	
Item				Indoor unit FDTC50VH (2 units)	Outdoor unit FDC100VNX-W	
Power source				` '	V 50Hz / 220V 60Hz	
	Nominal cooling capacity (ra	nne)	kW	,	.) - 11.2(Max.)]	
	Nominal heating capacity (ra	<u> </u>	kW	* `	.) - 12.5(Max.)]	
	14011111 at reading supporty (re	Cooling	i i i i i i i i i i i i i i i i i i i	- `	60	
	Power consumption	Heating	kW		04	
	Mary mary as a superior	rieating	- NVV		10	
	Max power consumption	0 15			·	
	Running current	Cooling			/ 12.1	
		Heating	Α		/ 14.0	
	Inrush current, max current				25	
Operation	Power factor	Cooling	- %	9	98	
data	Fower factor	Heating	70	g	99	
	EER	Cooling		3.	84	
	COP	Heating		3.	69	
		Cooling				
	Sound power level	Heating		59	67	
		Cooling	-		53	
	Sound pressure level	Heating	dB(A)	P-Hi: 44 Hi: 40 Me: 35 Lo: 27	51	
			\dashv			
	Silent mode sound pressure level	Cooling	4	_	49 /48(Normal/Silent)	
	sourid pressure level	Heating			48 /48(Normal/Silent)	
Exterior dimen	nsions (Height x Width x Depth)	mm	Unit 248 x 570 x 570 Panel 10 x 620 x 620	1300x970x370	
Exterior appea	arance			Fine snow	Stucco white	
(Munsell color))			(8.0Y9.3/0.1) near equivalent	(4.2Y7.5/1.1) near equivalent	
(RAL color)				(RAL 9001) near equivalent	(RAL 7044) near equivalent	
Net weight			kg	Unit 14 Panel 2.5	97	
Compressor ty	vpe & Q'tv			_	RMT5134SWP3 x 1	
	notor (Starting method)		kW	_	Direct line start	
	(Amount, type)		L	_	0.9 (M-MB75)	
	ype, amount, pre-charge lengt	h)	_	P22 4 0 in outdoor unit (Incl. th	e amount for the piping of 30m)	
		11)	kg	,		
Heat exchange				Louver fin & inner grooved tubing	M shape fin & inner grooved tubing	
Refrigerant co					pansion valve	
Fan type & Q't	<u> </u>			Turbo fan x1	Propeller fan x2	
Fan motor (Sta	arting method)		W	50 < Direct line start >	86x2 < Direct line start >	
Air flow		Cooling Heating	m³/min	P-Hi: 13 Hi: 11 Me: 9 Lo: 7	100	
All HOW			Pa	0	0	
	rnal static pressure					
				Possible –		
Available exter	ake			Possible Pocket plastic net x1(Washable)		
Available exter Outside air inta Air filter, Qualit	ake ty / Quantity			Pocket plastic net x1(Washable)	-	
Available exter Outside air inta Air filter, Qualit Shock & vibrat	ake ty / Quantity tion absorber		W		Rubber sleeve (for fan motor & compressor	
Available exter Outside air inta Air filter, Qualit	ake ty / Quantity tion absorber r		W	Pocket plastic net x1(Washable) Rubber sleeve(for fan motor) —	Rubber sleeve (for fan motor & compressor 20(Crank case heater)	
Available exter Outside air inta Air filter, Qualit Shock & vibrat Electric heater Operation	take ty / Quantity tion absorber r Remote control		W	Pocket plastic net x1(Washable) Rubber sleeve(for fan motor) - (Option) Wired: RC-EX3A, RC-E5,	- Rubber sleeve (for fan motor & compressor) 20(Crank case heater) RCH-E3 Wireless: RCN-TC-5AW-E2	
Available exter Outside air inta Air filter, Qualit Shock & vibrat Electric heater	ty / Quantity tion absorber r Remote control Room temperature control		W	Pocket plastic net x1(Washable) Rubber sleeve(for fan motor) - (Option) Wired: RC-EX3A, RC-E5,	Rubber sleeve (for fan motor & compressor 20(Crank case heater)	
Available exter Outside air inta Air filter, Qualit Shock & vibrat Electric heater Operation	take ty / Quantity tion absorber r Remote control Room temperature control Operation display		W	Pocket plastic net x1(Washable) Rubber sleeve(for fan motor) — (Option) Wired: RC-EX3A, RC-E5, Thermostat I Overload protect Frost protecti Internal thermos	- Rubber sleeve (for fan motor & compressor 20(Crank case heater) RCH-E3 Wireless: RCN-TC-5AW-E2	
Available exter Outside air int. Air filter, Qualit Shock & vibrat Electric heater Operation control	take ty / Quantity tion absorber r Remote control Room temperature control Operation display	Liquid line Gas line	W mm	Pocket plastic net x1(Washable) Rubber sleeve(for fan motor) (Option) Wired: RC-EX3A, RC-E5, Thermostat I Overload protect Frost protecti Internal thermos Abnormal discharge t I/U \$\phi\$ 6.35 (1/4")	Rubber sleeve (for fan motor & compressor) 20(Crank case heater) RCH-E3 Wireless: RCN-TC-5AW-E2 by electronics tion for fan motor on thermostat stat for fan motor	
Available exter Outside air int. Air filter, Qualit Shock & vibrat Electric heater Operation control	ake ty / Quantity tion absorber r Remote control Room temperature control Operation display Refrigerant piping size			Pocket plastic net x1(Washable) Rubber sleeve(for fan motor) — (Option) Wired: RC-EX3A, RC-E5, Thermostat I Overload protect Frost protecti Internal thermos Abnormal discharge t I/U \$\phi\$ 6.35 (1/4") ② \$\phi\$ 9.52 (3/8")x0.8	Rubber sleeve (for fan motor & compressor) 20(Crank case heater) RCH-E3 Wireless: RCN-TC-5AW-E2 by electronics tion for fan motor on thermostat stat for fan motor emperature protection ① \$\phi\$ 9.52 (3/8")x0.8 O/U \$\phi\$ 9.52 (3/8")	
Available external Available external Available external Available air introduced Available external Available external Available external Available Availab	Remote control Room temperature control Operation display Refrigerant piping size (O.D) Connecting method		mm	Pocket plastic net x1(Washable) Rubber sleeve(for fan motor) — (Option) Wired: RC-EX3A, RC-E5, Thermostat I Overload protect Frost protecti Internal thermos Abnormal discharge t I/U \$\phi\$ 6.35 (1/4") ② \$\phi\$ 9.52 (3/8")x0.8	Rubber sleeve (for fan motor & compressor) 20(Crank case heater) RCH-E3 Wireless: RCN-TC-5AW-E2 by electronics tion for fan motor on thermostat stat for fan motor emperature protection ① \$\phi\$ 9.52 (3/8")x0.8 O/U \$\phi\$ 9.52 (3/8") ① \$\phi\$ 15.88(5/8")x1.0 \$\phi\$ 15.88 (5/8")	
Available exter Outside air int. Air filter, Qualit Shock & vibrat Electric heater Operation control	Refrigerant piping size (O.D) Connecting method Attached length of piping			Pocket plastic net x1(Washable) Rubber sleeve(for fan motor) — (Option) Wired: RC-EX3A, RC-E5, Thermostat It Overload protect Frost protecti Internal thermos Abnormal discharge t I/U \$\phi\$ 6.35 (1/4") ② \$\phi\$ 9.52 (3/8")x0.8 \$\phi\$ 12.7 (1/2") ② \$\phi\$ 12.7(1/2")x0.8 Flare piping	Rubber sleeve (for fan motor & compressor) 20(Crank case heater) RCH-E3 Wireless: RCN-TC-5AW-E2 by electronics tion for fan motor on thermostat stat for fan motor emperature protection ① \$\phi\$ 9.52 (3/8")x0.8 O/U \$\phi\$ 9.52 (3/8") \$\frac{1}{2}\$ flare piping —	
Available exter Outside air inta Air filter, Qualit Shock & vibrat Electric heater Operation control Safety equipm	Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation absorber Remote control Remote control Remote control Remote control Refrigerat piping size (O.D) Connecting method Attached length of piping Insulation for piping	Gas line	— mm	Pocket plastic net x1(Washable) Rubber sleeve(for fan motor) — (Option) Wired: RC-EX3A, RC-E5, Thermostat I Overload protect Frost protecti Internal thermos Abnormal discharge t I/U \(\phi \) 6.35 (1/4") ② \(\phi \) 9.52 (3/8")x0.8 \(\phi \) 12.7 (1/2") ② \(\phi \) 12.7(1/2")x0.8 Flare piping — Necessary (both I	Rubber sleeve (for fan motor & compressor 20(Crank case heater) RCH-E3 Wireless: RCN-TC-5AW-E2 by electronics tion for fan motor on thermostat stat for fan motor emperature protection ① φ 9.52 (3/8")x0.8 O/U φ 9.52 (3/8") ① φ 15.88(5/8")x1.0 φ 15.88 (5/8") Flare piping Liquid & Gas lines)	
Available exter Outside air inta Air filter, Qualit Shock & vibrat Electric heater Operation control Safety equipm	Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) ler	Gas line	m m	Pocket plastic net x1(Washable) Rubber sleeve(for fan motor) — (Option) Wired: RC-EX3A, RC-E5, Thermostat It Overload protect Frost protecti Internal thermos Abnormal discharge t I/U \$\phi\$ 6.35 (1/4") ② \$\phi\$ 9.52 (3/8")x0.8 \$\phi\$ 12.7 (1/2") ② \$\phi\$ 12.7(1/2")x0.8 Flare piping — Necessary (both It Min.3, 1	- Rubber sleeve (for fan motor & compressor) 20(Crank case heater) RCH-E3 Wireless: RCN-TC-5AW-E2 by electronics - tion for fan motor on thermostat stat for fan motor emperature protection ① φ 9.52 (3/8")x0.8 O/U φ 9.52 (3/8") ① φ 15.88(5/8")x1.0 φ 15.88 (5/8") Flare piping - Liquid & Gas lines) Max.100	
Available exter Outside air inta Air filter, Qualit Shock & vibrat Electric heater Operation control Safety equipm	Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) ler Vertical height diff. between O/N	Gas line	— mm	Pocket plastic net x1(Washable) Rubber sleeve(for fan motor) — (Option) Wired: RC-EX3A, RC-E5, Thermostat It Overload protect Frost protecti Internal thermos Abnormal discharge t I/U \$\phi 6.35 (1/4") ② \phi 9.52 (3/8")x0.8 \$\phi 12.7 (1/2") ③ \phi 12.7 (1/2")x0.8 Flare piping — Necessary (both It Min.3, Max.50 (Outdoor unit is higher)	- Rubber sleeve (for fan motor & compressor) 20(Crank case heater) RCH-E3 Wireless: RCN-TC-5AW-E2 by electronics - tion for fan motor on thermostat stat for fan motor emperature protection ① φ 9.52 (3/8")x0.8 O/U φ 9.52 (3/8") ① φ 15.88(5/8")x1.0 φ 15.88 (5/8") Flare piping - Liquid & Gas lines) Max.100 / Max.15 (Outdoor unit is lower)	
Available external Available external Available external Air filter, Quality Shock & vibraty Electric heater Operation control Safety equipment Installation data	Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) ler Vertical height diff. between O/I Drain hose	Gas line	m m m	Pocket plastic net x1(Washable) Rubber sleeve(for fan motor) — (Option) Wired: RC-EX3A, RC-E5, Thermostat It Overload protect Frost protecti Internal thermos Abnormal discharge t I/U \$\phi 6.35 (1/4")	- Rubber sleeve (for fan motor & compressor 20(Crank case heater) RCH-E3 Wireless: RCN-TC-5AW-E2 by electronics - tion for fan motor on thermostat stat for fan motor emperature protection ① φ 9.52 (3/8")x0.8 O/U φ 9.52 (3/8") ① φ 15.88(5/8")x1.0 φ 15.88 (5/8") Flare piping - Liquid & Gas lines) Max.100 / Max.15 (Outdoor unit is lower) Hole size φ 20 x 3 pcs	
Available exter Outside air inta Air filter, Qualit Shock & vibrat Electric heater Operation control Safety equipm Installation data Drain pump, m	Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) ler Vertical height diff. between O/D Drain hose max lift height	Gas line	m m m m m	Pocket plastic net x1(Washable) Rubber sleeve(for fan motor) — (Option) Wired: RC-EX3A, RC-E5, Thermostat It Overload protect Frost protecti Internal thermos Abnormal discharge t I/U \$\phi 6.35 (1/4") ② \phi 9.52 (3/8")x0.8 \$\phi 12.7 (1/2") ③ \phi 12.7 (1/2")x0.8 Flare piping — Necessary (both It Min.3, Max.50 (Outdoor unit is higher) Hose connectable with VP25(O.D.32) Built-in drain pump, 850	- Rubber sleeve (for fan motor & compressor 20(Crank case heater) RCH-E3 Wireless: RCN-TC-5AW-E2 by electronics - tion for fan motor on thermostat stat for fan motor emperature protection ① φ 9.52 (3/8")x0.8 O/U φ 9.52 (3/8") ① φ 15.88(5/8")x1.0 φ 15.88 (5/8") Flare piping - Liquid & Gas lines) Max.100 / Max.15 (Outdoor unit is lower) Hole size φ 20 x 3 pcs	
Available exter Outside air inta Air filter, Qualit Shock & vibrat Electric heater Operation control Safety equipm Installation data Drain pump, m Recommende	Remote control Room temperature control Operation display Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) let Vertical height diff. between O/I Drain hose max lift height de breaker size	Gas line	m m m m A	Pocket plastic net x1(Washable) Rubber sleeve(for fan motor) — (Option) Wired: RC-EX3A, RC-E5, Thermostat It Overload protect Frost protecti Internal thermos Abnormal discharge t I/U φ 6.35 (1/4") ② φ 9.52 (3/8")x0.8 φ 12.7 (1/2") ② φ 12.7(1/2")x0.8 Flare piping — Necessary (both It Min.3, Max.50 (Outdoor unit is higher) Hose connectable with VP25(O.D.32) Built-in drain pump, 850	- Rubber sleeve (for fan motor & compressor 20(Crank case heater) RCH-E3 Wireless: RCN-TC-5AW-E2 by electronics tion for fan motor on thermostat stat for fan motor emperature protection ① φ 9.52 (3/8")x0.8 O/U φ 9.52 (3/8") ① φ 15.88(5/8")x1.0 φ 15.88 (5/8") Flare piping - Liquid & Gas lines) Max.100 / Max.15 (Outdoor unit is lower) Hole size φ 20 x 3 pcs	
Available exter Outside air inta Air filter, Qualit Shock & vibrat Electric heater Operation control Safety equipm Installation data Drain pump, m Recommende L.R.A. (Locket	Remote control Room temperature control Operation display Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) let Vertical height diff. between O/I Drain hose max lift height d breaker size d rotor ampere)	Gas line Ingth J and I/U	m m m m m	Pocket plastic net x1(Washable) Rubber sleeve(for fan motor) — (Option) Wired: RC-EX3A, RC-E5, Thermostat I Overload protecti Internal thermos Abnormal discharge t I/U \$\phi\$ 6.35 (1/4") ② \$\phi\$ 9.52 (3/8")x0.8 \$\phi\$ 12.7 (1/2") ② \$\phi\$ 12.7(1/2")x0.8 Flare piping — Necessary (both I Min.3, Max.50 (Outdoor unit is higher) Hose connectable with VP25(O.D.32) Built-in drain pump, 850	Rubber sleeve (for fan motor & compressor 20(Crank case heater) RCH-E3 Wireless: RCN-TC-5AW-E2 by electronics - tion for fan motor on thermostat stat for fan motor emperature protection ① φ 9.52 (3/8")x0.8 O/U φ 9.52 (3/8") ① φ 15.88(5/8")x1.0 φ 15.88 (5/8") Flare piping - Liquid & Gas lines) Max.100 / Max.15 (Outdoor unit is lower) Hole size φ 20 x 3 pcs	
Available exter Outside air int. Air filter, Qualit Shock & vibrat Electric heater Operation control Safety equipm Installation data Drain pump, m Recommende L.R.A. (Locked Interconnectin	Remote control Room temperature control Operation display Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) let Vertical height diff. between O/I Drain hose max lift height d breaker size d rotor ampere)	Gas line	m m m m A	Pocket plastic net x1(Washable) Rubber sleeve(for fan motor) — (Option) Wired: RC-EX3A, RC-E5, Thermostat It Overload protection Internal thermost Abnormal discharge to the protection of th	Rubber sleeve (for fan motor & compressor 20(Crank case heater) RCH-E3 Wireless: RCN-TC-5AW-E2 by electronics tion for fan motor on thermostat stat for fan motor emperature protection ① φ 9.52 (3/8")x0.8 O/U φ 9.52 (3/8") ① φ 15.88(5/8")x1.0 φ 15.88 (5/8") Flare piping — Liquid & Gas lines) Max.100 / Max.15 (Outdoor unit is lower) Hole size φ 20 x 3 pcs — 6.0 / Terminal block (Screw fixing type)	
Available exter Outside air int. Air filter, Qualit Shock & vibrat Electric heater Operation control Safety equipm Installation data Drain pump, m Recommende L.R.A. (Locked	Remote control Room temperature control Operation display Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) let Vertical height diff. between O/I Drain hose max lift height d breaker size d rotor ampere)	Gas line Ingth J and I/U	m m m m A	Pocket plastic net x1(Washable) Rubber sleeve(for fan motor) — (Option) Wired: RC-EX3A, RC-E5, Thermostat I Overload protect Frost protecti Internal thermos Abnormal discharge t I/U \$\phi\$ 6.35 (1/4") ② \$\phi\$ 9.52 (3/8")x0.8 \$\phi\$ 12.7 (1/2") ② \$\phi\$ 12.7(1/2")x0.8 Flare piping — Necessary (both I Min.3, Max.50 (Outdoor unit is higher) Hose connectable with VP25(O.D.32) Built-in drain pump, 850 \$\phi\$ 1.6mm x3 cores + earth cable of the content of the co	- Rubber sleeve (for fan motor & compressor 20(Crank case heater) RCH-E3 Wireless: RCN-TC-5AW-E2 by electronics - tion for fan motor on thermostat stat for fan motor emperature protection ① φ 9.52 (3/8")x0.8 O/U φ 9.52 (3/8") ① φ 15.88(5/8")x1.0 φ 15.88 (5/8") Flare piping - Liquid & Gas lines) Max.100 / Max.15 (Outdoor unit is lower) Hole size φ 20 x 3 pcs - 5.0	
Available exter Outside air into Air filter, Qualit Shock & vibrat Electric heater Operation control Safety equipm Installation data Drain pump, m Recommende L.R.A. (Locked Interconnectin	Remote control Room temperature control Operation display Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) ler Vertical height diff. between O/I Drain hose max lift height d breaker size d rotor ampere) ng wires Size x	Gas line Ingth J and I/U	m m m m A	Pocket plastic net x1(Washable) Rubber sleeve(for fan motor) — (Option) Wired: RC-EX3A, RC-E5, Thermostat It Overload protection Internal thermost Abnormal discharge to the protection of th	Rubber sleeve (for fan motor & compressor, 20(Crank case heater) RCH-E3 Wireless: RCN-TC-5AW-E2 by electronics - tion for fan motor ton thermostat stat for fan motor emperature protection ① φ 9.52 (3/8")x0.8 O/U φ 9.52 (3/8") ① φ 15.88(5/8")x1.0 φ 15.88 (5/8") Flare piping — Liquid & Gas lines) Max.100 / Max.15 (Outdoor unit is lower) Hole size φ 20 x 3 pcs — 6.0 / Terminal block (Screw fixing type)	

Notes (1) The data are measured at the following conditions.

The	pipe	length	is	7.5m

()			-		The pipe length is 7.011.
Item	Indoor air t	emperature	Outdoor air	temperature	Standards
Operation	DB	WB	DB	WB	Standards
Cooling	27°C	19°C	35°C	24°C	ISO5151-T1
Heating	20°C	_	7°C	6°C	ISO5151-H1

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.
- (3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
- (4) Select the breaker size according to the own national standard.
 (5) The operation data indicate when the air-conditioner is operated at 230V 50Hz or 220V 60Hz.
- (6) Indoor unit specifications for one unit. Capacity and operation data is two indoor units are combined and run together.
 (7) Branching pipe set "DIS-WA1G"×1(Option). ① : Pipe of O/U-Branch, ② : Pipe of Branch-I/U

			Model	FDTC100	VSXWPVH	
Item				Indoor unit FDTC50VH (2 units)	Outdoor unit FDC100VSX-W	
Power source				3 Phase, 380 - 415	V 50Hz / 380V 60Hz	
	Nominal cooling capacity (ra	ange)	kW	10.0 [3.5(Min	.) - 11.2(Max.)]	
	Nominal heating capacity (ra	ange)	kW	11.2 [2.7(Min	.) - 16.0(Max.)]	
		Cooling		2.	60	
	Power consumption	Heating	kW	3.	04	
	Max power consumption			8.	90	
	max perior concemption	Cooling			/ 4.6	
	Running current	Heating	A		/ 5.4	
	Inrush current, max current	rieating	⊣ ^		14	
O	iniusii cuirent, max cuirent	Cooling			35	
Operation data	Power factor		- %		36	
uala	550	Heating				
	EER	Cooling	_		84	
	COP	Heating		3.	69	
	Sound power level	Cooling		59	67	
	Country power level	Heating				
	Sound pressure level	Cooling	dB(A)	P-Hi: 44 Hi: 40 Me: 35 Lo: 27	53	
	Souria pressure level	Heating	GD(A)	1 -1 II. 44 T II. 40 IVIE. 33 LO. 21	51	
	Silent mode	Cooling			49 /48(Normal/Silent)	
	sound pressure level	Heating		_	48 /48(Normal/Silent)	
Evtorio- dim -	oione (Height v Wielth v Deerte		p	Unit 248 x 570 x 570	1300x970x370	
Exterior aimer	nsions (Height x Width x Depth	1)	mm	Panel 10 x 620 x 620	1300x970x370	
Exterior appea	arance			Fine snow	Stucco white	
(Munsell color	·)			(8.0Y9.3/0.1) near equivalent	(4.2Y7.5/1.1) near equivalent	
(RAL color)				(RAL 9001) near equivalent	(RAL 7044) near equivalent	
Net weight			kg	Unit 14 Panel 2.5	99	
Compressor t	ype & Q'ty			_	RMT5134SWP4 x 1	
Compressor n	notor (Starting method)		kW	_	Direct line start	
	(Amount, type)		L	_	0.9 (M-MB75)	
	ype, amount, pre-charge lengt	th)	kg	R32 4 0 in outdoor unit (Incl. th	e amount for the piping of 30m)	
Heat exchang		,	i iig	Louver fin & inner grooved tubing	M shape fin & inner grooved tubing	
Refrigerant co					pansion valve	
					r T	
Fan type & Q'	·		10/	Turbo fan x1	Propeller fan x2	
Fan motor (St	arting method)	10 11	W	50 < Direct line start >	86x2 < Direct line start >	
Air flow		Cooling Heating	m³/min	P-Hi: 13 Hi: 11 Me: 9 Lo: 7	100	
Available exte	rnal static pressure		Pa	0	0	
Outside air int	ake			Possible	_	
Air filter, Quali	ty / Quantity			Pocket plastic net x1(Washable)	_	
Shock & vibra	tion absorber			Rubber sleeve(for fan motor)	Rubber sleeve (for fan motor & compresso	
Electric heate	r		W	_	20(Crank case heater)	
	Remote control			(Option) Wired: RC-EX3A, RC-E5,	RCH-E3 Wireless : RCN-TC-5AW-E2	
Operation				Thermostat by electronics		
				memosiai i		
control	·			memostat i	_	
	Operation display			Overload protect Frost protecti Internal thermos Abnormal discharge t	tion for fan motor on thermostat stat for fan motor emperature protection	
control Safety equipm	Operation display	Liquid line Gas line	— mm	Overload protect Frost protecti Internal thermos Abnormal discharge t I/U ϕ 6.35 (1/4") ② ϕ 9.52 (3/8")x0.8	tion for fan motor on thermostat stat for fan motor	
	Operation display nents Refrigerant piping size	<u> </u>	— mm	Overload protect Frost protecti Internal thermos Abnormal discharge t I/U ϕ 6.35 (1/4") ② ϕ 9.52 (3/8")x0.8	tion for fan motor on thermostat stat for fan motor emperature protection ① ϕ 9.52 (3/8")x0.8 O/U ϕ 9.52 (3/8	
Safety equipm	Operation display nents Refrigerant piping size (O.D)	<u> </u>	— mm	Overload protect Frost protecti Internal thermos Abnormal discharge t I/U φ 6.35 (1/4") ② φ 9.52 (3/8")x0.8 φ 12.7 (1/2") ② φ 12.7(1/2")x0.8	tion for fan motor on thermostat stat for fan motor emperature protection ① ϕ 9.52 (3/8")x0.8 O/U ϕ 9.52 (3/8 ① ϕ 15.88 (5/8")x1.0 ϕ 15.88 (5/8")	
Safety equipm	Operation display nents Refrigerant piping size (O.D) Connecting method Attached length of piping	<u> </u>		Overload protect Frost protect Internal thermos Abnormal discharge t I/U φ 6.35 (1/4") ② φ 9.52 (3/8")x0.8 φ 12.7 (1/2") ② φ 12.7(1/2")x0.8 Flare piping	tion for fan motor on thermostat stat for fan motor emperature protection ① φ 9.52 (3/8")x0.8 O/U φ 9.52 (3/8 ① φ 15.88(5/8")x1.0 φ 15.88 (5/8") Flare piping	
Safety equipm	Operation display nents Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping	Gas line	m	Overload protect Frost protect Internal thermo Abnormal discharge t I/U \(\phi \) 6.35 (1/4") ② \(\phi \) 9.52 (3/8")x0.8 \(\phi \) 12.7 (1/2") ② \(\phi \) 12.7(1/2")x0.8 Flare piping Necessary (both I	tion for fan motor on thermostat stat for fan motor emperature protection ① φ 9.52 (3/8")x0.8 O/U φ 9.52 (3/8 ① φ 15.88(5/8")x1.0 φ 15.88 (5/8") Flare piping — Liquid & Gas lines)	
Safety equipm	Operation display Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) lei	Gas line	m m	Overload protect Frost protecti Internal thermos Abnormal discharge t I/U \(\phi \) 6.35 (1/4") ② \(\phi \) 9.52 (3/8")x0.8 \(\phi \) 12.7 (1/2") ② \(\phi \) 12.7 (1/2")x0.8 Flare piping - Necessary (both I) Min.3,	tion for fan motor on thermostat stat for fan motor emperature protection ① φ 9.52 (3/8")x0.8 O/U φ 9.52 (3/8 ② φ 15.88(5/8")x1.0 φ 15.88 (5/8") Flare piping — Liquid & Gas lines) Max.100	
Safety equipm	Operation display Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) let Vertical height diff. between O/	Gas line	m	Overload protect Frost protecti Internal thermos Abnormal discharge t I/U \(\phi \) 6.35 (1/4") ② \(\phi \) 9.52 (3/8")x0.8 \(\phi \) 12.7 (1/2") ② \(\phi \) 12.7 (1/2")x0.8 Flare piping - Necessary (both I Min.3 , Max.50 (Outdoor unit is higher)	tion for fan motor on thermostat stat for fan motor emperature protection ① \$\phi\$ 9.52 (3/8")x0.8 O/U \$\phi\$ 9.52 (3/8") ② \$\phi\$ 15.88(5/8")x1.0 \$\phi\$ 15.88 (5/8") Flare piping — Liquid & Gas lines) Max.100 / Max.15 (Outdoor unit is lower)	
Safety equipm	Operation display Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) let Vertical height diff. between O/Drain hose	Gas line	m m m	Overload protect Frost protecti Internal thermos Abnormal discharge I/U \(\phi \) 6.35 (1/4") ② \(\phi \) 9.52 (3/8")x0.8 \(\phi \) 12.7 (1/2") ② \(\phi \) 12.7 (1/2")x0.8 \(\text{Flare piping} \) Necessary (both I) Min.3 , Max.50 (Outdoor unit is higher) Hose connectable with VP25(O.D.32)	tion for fan motor on thermostat stat for fan motor emperature protection ① φ 9.52 (3/8")x0.8 O/U φ 9.52 (3/8") ② φ 15.88(5/8")x1.0 φ 15.88 (5/8") Flare piping — Liquid & Gas lines) Max.100 / Max.15 (Outdoor unit is lower) Hole size φ 20 x 3 pcs	
Safety equipm nstallation data Drain pump, n	Operation display Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) let Vertical height diff. between O/Drain hose max lift height	Gas line	m m m	Overload protect Frost protecti Internal thermos Abnormal discharge t I/U \(\phi \) 6.35 (1/4") ② \(\phi \) 9.52 (3/8")x0.8 \(\phi \) 12.7 (1/2") ② \(\phi \) 12.7 (1/2")x0.8 Flare piping - Necessary (both I Min.3 , Max.50 (Outdoor unit is higher)	tion for fan motor on thermostat stat for fan motor emperature protection ① \$\phi\$ 9.52 (3/8")x1.0 \$\phi\$ 15.88 (5/8") Flare piping — Liquid & Gas lines) Max.15 (Outdoor unit is lower)	
Safety equipm nstallation data Drain pump, r Recommende	Operation display Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) lei Vertical height diff. between O/Drain hose nax lift height d breaker size	Gas line	m m m	Overload protect Frost protecti Internal thermos Abnormal discharge I/U \$\phi\$ 6.35 (1/4")	tion for fan motor on thermostat stat for fan motor emperature protection ① ϕ 9.52 (3/8")x0.8 O/U ϕ 9.52 (3/8") ② ϕ 15.88(5/8")x1.0 ϕ 15.88 (5/8") Flare piping — Liquid & Gas lines) Max.100 / Max.15 (Outdoor unit is lower) Hole size ϕ 20 x 3 pcs	
Safety equipm Installation data Drain pump, r Recommende L.R.A. (Locket	Operation display The state of	Gas line ngth U and I/U	m m m	Overload protect Frost protecti Internal thermos Abnormal discharge t I/U \(\phi \) 6.35 (1/4") ② \(\phi \) 9.52 (3/8")x0.8 \(\phi \) 12.7 (1/2") ② \(\phi \) 12.7 (1/2")x0.8 Flare piping Necessary (both I Min.3, Max.50 (Outdoor unit is higher) Hose connectable with VP25(O.D.32) Built-in drain pump, 850	tion for fan motor on thermostat stat for fan motor emperature protection ① \$\phi\$ 9.52 (3/8")x0.8	
Safety equipm installation data Drain pump, n Recommende L.R.A. (Locked interconnectin	Operation display The state of	Gas line	m m m	Overload protect Frost protecti Internal thermos Abnormal discharge t I/U \$\phi\$ 6.35 (1/4") ② \$\phi\$ 9.52 (3/8")x0.8 \$\phi\$ 12.7 (1/2") ② \$\phi\$ 12.7(1/2")x0.8 Flare piping	tion for fan motor on thermostat stat for fan motor emperature protection ① \$\phi\$ 9.52 (3/8")x0.8	
Safety equipm Installation data Drain pump, r Recommende L.R.A. (Locker Interconnectir IP number	Operation display Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) lei Vertical height diff. between O/Drain hose max lift height diff between direction of the piping The piping of the pipin	Gas line ngth U and I/U	m m m	Overload protect Frost protecti Internal thermos Abnormal discharge t I/U \$\phi\$ 6.35 (1/4")	tion for fan motor on thermostat stat for fan motor emperature protection ① \$\phi\$ 9.52 (3/8")x0.8	
Safety equipm Installation data Drain pump, n Recommende L.R.A. (Locked Interconnectir	Operation display Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) lei Vertical height diff. between O/Drain hose max lift height diff between direction of the piping The piping of the pipin	Gas line ngth U and I/U	m m m	Overload protect Frost protecti Internal thermos Abnormal discharge t I/U \$\phi\$ 6.35 (1/4")	tion for fan motor on thermostat stat for fan motor emperature protection ① \$\phi\$ 9.52 (3/8")x0.8	

()		5			The pipe length to Tierm
Item	Indoor air t	emperature	Outdoor air	temperature	Standards
Operation	DB	WB	DB	WB	Standards
Cooling	27°C	19°C	35°C	24°C	ISO5151-T1
Heating	20°C	_	7°C	6°C	ISO5151-H1

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.
- (3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.

 (4) Select the breaker size according to the own national standard.

 (5) The operation data indicate when the air-conditioner is operated at 400V 50Hz or 380V 60Hz.

- (6) Indoor unit specifications for one unit. Capacity and operation data is two indoor units are combined and run together.
 (7) Branching pipe set "DIS-WA1G"×1(Option). ① : Pipe of O/U-Branch, ② : Pipe of Branch-I/U

			Model	FDTC1	25VNXWPVH		
Item				Indoor unit FDTC60VH (2 units)	Outdoor unit FDC125VNX-W		
Power source)			, ,	40V 50Hz / 220V 60Hz		
	Nominal cooling capacity (ra	inge)	kW	12.5 [3.5(N	/lin.) - 14.0(Max.)]		
	Nominal heating capacity (ra		kW	- `	Min.) - 17.0(Max.)]		
		Cooling		. ,	3.67		
	Power consumption	Heating	kW		4.05		
	Max power consumption	1.1049	┤ ''''		7.10		
	Wax power concernation	Cooling		16	5.1 / 16.9		
	Running current	Heating	A		7.8 / 18.6		
	Inrush current, max current	rieating	⊣ ^	17	5, 27		
0	Illiusii current, max current	Cooling			5, 21		
Operation data	Power factor	Heating	- %		99		
	EER	Cooling		3.41			
	COP	Heating			3.45		
		Cooling			68		
	Sound power level	Heating		60	70		
		Cooling			53		
	Sound pressure level	Heating	dB(A)	P-Hi: 46 Hi: 42 Me: 38 Lo: 31	54		
	Silent mode	Cooling	\dashv		50 /49(Normal/Silent)		
	sound pressure level	Heating	\dashv	_	50 /48(Normal/Silent)		
Exterior dime	nsions (Height x Width x Depth		mm	Unit 248 x 570 x 570	1300x970x370		
		•	1	Panel 10 x 620 x 620			
Exterior appe				Fine snow	Stucco white		
(Munsell color	r)			(8.0Y9.3/0.1) near equivalent (RAL 9001) near equivalent	(4.2Y7.5/1.1) near equivalent (RAL 7044) near equivalent		
(RAL color)			Lon				
Net weight	0.01		kg	Unit 14 Panel 2.5	97		
Compressor t	/ 		1.147		RMT5134SWP3 x 1		
	motor (Starting method)		kW	_	Direct line start		
	I (Amount, type)		L		0.9 (M-MB75)		
	Type, amount, pre-charge lengt	h)	kg	,	the amount for the piping of 30m)		
Heat exchang	<u></u>			Louver fin & inner grooved tubing	M shape fin & inner grooved tubing		
Refrigerant co					expansion valve		
Fan type & Q'	<u> </u>			Turbo fan x1	Propeller fan x2		
Fan motor (St	tarting method)		W	50 < Direct line start >	86x2 < Direct line start >		
Air flow		Cooling Heating	m³/min	P-Hi: 14 Hi: 12 Me: 10 Lo: 8			
Available exte	ernal static pressure		Pa	0	0		
Outside air int	take			Possible –			
Air filter, Quali	ity / Quantity			Pocket plastic net x1(Washable) -			
Shock & vibra	ation absorber			Rubber sleeve(for fan motor) Rubber sleeve (for fan motor & com			
Electric heate	r		W	– 20(Crank case heater)			
	Remote control			(Option) Wired: RC-EX3A, RC-E	5 , RCH-E3 Wireless : RCN-TC-5AW-E2		
Operation	Room temperature control			Thermosta	at by electronics		
control	Operation display						
Safety equipn	nents			Frost prote Internal thern	ection for fan motor ection thermostat nostat for fan motor e temperature protection		
	Refrigerant piping size	Liquid line		I/U φ 6.35 (1/4") ② φ 9.52 (3/8")x0.8			
	(O.D)	Gas line	mm	φ 12.7 (1/2") ② φ 12.7(1/2")x0.8			
	Connecting method			Flare piping	Flare piping		
Installation	Attached length of piping		m		_		
data	Insulation for piping			Necessary (bo	th Liquid & Gas lines)		
	Refrigerant line (one way) le	ngth	m		3 , Max.100		
Vertical height diff. between O/U and I/U		m	Max.50 (Outdoor unit is higher)	Max.15 (Outdoor unit is lower)			
	Drain hose	-		Hose connectable with VP25(O.D.32)	Hole size ϕ 20 x 3 pcs		
Drain pump r	max lift height		mm	Built-in drain pump , 850	— — — — — — — — — — — — — — — — — — —		
	ed breaker size		A	Bant in drain pullip , 000			
	d rotor ampere)		A		5.0		
•	· · · ·	Cara nureh er	_ ^	4 1 6mm + 0			
Interconnectin	ig wires Size x	Core number	+	·	le / Terminal block (Screw fixing type)		
IP number				IPX0	IP24		
Standard accessories				Mounting kit, Drain hose –			
Standard acco	essories		-	• •	DAD-E , Motion sensor : LB-TC-5W-E		

	,		5			mo pipo ionganio momi
	Item	Indoor air t	emperature	Outdoor air	temperature	Standards
	Operation	DB	WB	DB	WB	Staridards
	Cooling	27°C	19°C	35°C	24°C	ISO5151-T1
ĺ	Heating	20°C	_	7°C	6°C	ISO5151-H1

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.
- (2) Inis air-conditioner is manufactured and tested in conformity with the ISO.
 (3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
 (4) Select the breaker size according to the own national standard.
 (5) The operation data indicate when the air-conditioner is operated at 230V 50Hz or 220V 60Hz.
 (6) Indoor unit specifications for one unit. Capacity and operation data is two indoor units are combined and run together.
 (7) Branching pipe set "DIS-WA1G"×1(Option). ①: Pipe of O/U-Branch. ②: Pipe of Branch-I/U

			Model	FDTC125	VSXWPVH
Item				Indoor unit FDTC60VH (2 units)	Outdoor unit FDC125VSX-W
Power source	9			` ′	V 50Hz / 380V 60Hz
	Nominal cooling capacity (ra	inge)	kW	12.5 [3.5(Min	.) - 14.0(Max.)]
	Nominal heating capacity (ra		kW	* `	.) - 18.0(Max.)]
		Cooling	1	- '	67
	Power consumption	Heating	kW		05
	Max power consumption	ricating	- "		90
	Iviax power consumption	Cooling	+		/ 6.2
	Running current	Cooling	⊢ ,		
		Heating	_ A		/7.0
	Inrush current, max current	10 "			14
Operation	Power factor	Cooling	- %		90
data		Heating			38
	EER	Cooling			41
	COP	Heating		3.	45
	Carried a arrival larval	Cooling		60	68
	Sound power level	Heating		60	70
		Cooling	T		53
	Sound pressure level	Heating	dB(A)	P-Hi: 46 Hi: 42 Me: 38 Lo: 31	54
	Silent mode	Cooling	\dashv		50 /49(Normal/Silent)
	sound pressure level	Heating	\dashv	_	50 /48(Normal/Silent)
	Souria pressure lever	rieating	+	Linit 040 v 570 v 570	30 /48(NOITHAI/Sherit)
	nsions (Height x Width x Depth)	mm	Unit 248 x 570 x 570 Panel 10 x 620 x 620	1300x970x370
Exterior appe				Fine snow	Stucco white
(Munsell color	r)			(8.0Y9.3/0.1) near equivalent	(4.2Y7.5/1.1) near equivalent
(RAL color)				(RAL 9001) near equivalent	(RAL 7044) near equivalent
Net weight			kg	Unit 14 Panel 2.5	99
Compressor t	type & Q'ty			_	RMT5134SWP4 x 1
Compressor r	motor (Starting method)		kW	_	Direct line start
Refrigerant oi	il (Amount, type)		L	_	0.9 (M-MB75)
	Type, amount, pre-charge lengt	h)	kg	R32 4.0 in outdoor unit (Incl. th	e amount for the piping of 30m)
Heat exchange		,	1 13	Louver fin & inner grooved tubing	M shape fin & inner grooved tubing
Refrigerant co			+		pansion valve
Fan type & Q'			+	Turbo fan x1	Propeller fan x2
	tarting method)		W	50 < Direct line start >	86x2 < Direct line start >
ran motor (St	tarting method)	0 15	VV	50 < Direct line start >	OOX2 < Direct line start >
Air flow		Cooling Heating	m³/min	P-Hi: 14 Hi: 12 Me: 10 Lo: 8	
Available exte	ernal static pressure		Pa	0	0
Outside air inf	take			Possible	_
Air filter, Quali	lity / Quantity			Pocket plastic net x1(Washable)	_
Shock & vibra	ation absorber			Rubber sleeve(for fan motor) Rubber sleeve (for fan motor & c	
Electric heate	er		W		20(Crank case heater)
	Remote control			(Ontion) Wired : BC-FX3A BC-F5	RCH-E3 Wireless : RCN-TC-5AW-E2
Operation	Room temperature control		+		by electronics
control	Operation display		+	monnootati	sy dicotronico
Safety equipn				Frost protecti Internal thermos	tion for fan motor on thermostat stat for fan motor emperature protection
	Refrigerant piping size	Liquid line	1	I/U φ 6.35 (1/4") ② φ 9.52 (3/8")x0.8	① ϕ 9.52 (3/8")x0.8 O/U ϕ 9.52 (3/8")
	(O.D)	Gas line	mm		① \(\phi \) 9.52 (5/8)x0.6 \(\text{O/O} \(\phi \) 9.52 (5/8) \(\text{O/O} \) \(\phi \) 15.88 (5/8")
		Gas iirie	+		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Connecting method		+	Flare piping	Flare piping
Installation	Attached length of piping		m		_
data	Insulation for piping			7 1	Liquid & Gas lines)
	Refrigerant line (one way) length		m		Max.100
	0 1	Vertical height diff. between O/U and I/U		Max.50 (Outdoor unit is higher) / Max.15 (Outdoor unit is lower)	
	Vertical height diff. between O/	J and I/U	m	,	
	0 1	U and I/U	m	Hose connectable with VP25(O.D.32)	Hole size ϕ 20 x 3 pcs
Drain pump, r	Vertical height diff. between O/	J and I/U	mm	,	
	Vertical height diff. between O/N Drain hose	J and I/U		Hose connectable with VP25(O.D.32) Built-in drain pump , 850	Hole size φ 20 x 3 pcs
Recommende	Vertical height diff. between O/l Drain hose max lift height	J and I/U	mm A	Hose connectable with VP25(O.D.32) Built-in drain pump , 850	Hole size φ 20 x 3 pcs
Recommende L.R.A. (Locke	Vertical height diff. between O/I Drain hose max lift height ed breaker size dr otor ampere)		mm	Hose connectable with VP25(O.D.32) Built-in drain pump , 850	Hole size φ 20 x 3 pcs — — 5.0
Recommende L.R.A. (Locked Interconnection	Vertical height diff. between O/I Drain hose max lift height ed breaker size dr otor ampere)	J and I/U Core number	mm A	Hose connectable with VP25(O.D.32) Built-in drain pump , 850	Hole size φ 20 x 3 pcs — 5.0 / Terminal block (Screw fixing type)
Recommende L.R.A. (Locked Interconnecting IP number	Vertical height diff. between O/I Drain hose max lift height ed breaker size ed rotor ampere) ng wires Size x		mm A	Hose connectable with VP25(O.D.32) Built-in drain pump , 850 φ 1.6mm x3 cores + earth cable IPX0	Hole size ϕ 20 x 3 pcs
Recommende L.R.A. (Locked Interconnection	Vertical height diff. between O/I Drain hose max lift height ed breaker size ed rotor ampere) ng wires Size x		mm A	Hose connectable with VP25(O.D.32) Built-in drain pump , 850	Hole size ϕ 20 x 3 pcs

Item	Indoor air t	emperature	Outdoor air	temperature	Standards
Operation	DB	WB	DB	WB	Standards
Cooling	27°C	19°C	35°C	24°C	ISO5151-T1
Heating	20°C	_	7°C	6°C	ISO5151-H1

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.
- (3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.

 (4) Select the breaker size according to the own national standard.

 (5) The operation data indicate when the air-conditioner is operated at 400V 50Hz or 380V 60Hz.

- (6) Indoor unit specifications for one unit. Capacity and operation data is two indoor units are combined and run together.
 (7) Branching pipe set "DIS-WA1G"×1(Option). ① : Pipe of O/U-Branch, ② : Pipe of Branch-I/U

(b) Triple type

			Model	fel FDTC140VNXWTVH				
Item				Indoor unit FDTC50VH (3 units)	Outdoor unit FDC140VNX-W			
Power source				1 Phase, 220 - 240	V 50Hz / 220V 60Hz			
	Nominal cooling capacity (ran	ge)	kW	14.0 [3.5(Min	.) - 16.0(Max.)]			
	Nominal heating capacity (ran	<u> </u>	kW	16.0 [2.7(Min	.) - 18.0(Max.)]			
		Cooling			96			
	Power consumption	Heating	kW		34			
	Max power consumption		1		10			
		Cooling			/ 18.4			
	Running current	Heating	A		/ 19.9			
	Inrush current, max current	Trouting	⊣ ′`		27			
Operation	middir darront, max darront	Cooling			98			
data	Power factor	Heating	- %	-	99			
data	EER	Cooling		-	54			
	COP	Heating	+		69			
	001	Cooling		0.	69			
	Sound power level		-	59	71			
		Heating	-		/ 1			
	Sound pressure level	Cooling	dB(A)	P-Hi: 44 Hi: 40 Me: 35 Lo: 27	54			
		Heating	_ ` `					
	Silent mode	Cooling	_	_	50 /49(Normal/Silent)			
	sound pressure level	Heating			51 /48(Normal/Silent)			
Exterior dimen	sions (Height x Width x Depth)		mm	Unit 248 x 570 x 570 Panel 10 x 620 x 620	1300x970x370			
Exterior appea	rance			Fine snow	Stucco white			
(Munsell color)	(Munsell color)			(8.0Y9.3/0.1) near equivalent	(4.2Y7.5/1.1) near equivalent			
(RAL color)				(RAL 9001) near equivalent	(RAL 7044) near equivalent			
Net weight			kg	Unit 14 Panel 2.5	97			
Compressor ty	pe & Q'ty			_	RMT5134SWP3 x 1			
Compressor m	notor (Starting method)		kW	_	Direct line start			
Refrigerant oil	(Amount, type)		L	_	0.9 (M-MB75)			
Refrigerant (Ty	pe, amount, pre-charge length))	kg	R32 4.0 in outdoor unit (Incl. th	e amount for the piping of 30m)			
Heat exchange	er			Louver fin & inner grooved tubing	M shape fin & inner grooved tubing			
Refrigerant cor	ntrol			Electronic ex	pansion valve			
Fan type & Q't	V			Turbo fan x1	Propeller fan x2			
Fan motor (Sta	·		W	50 < Direct line start >	86x2 < Direct line start >			
Air flow	,	Cooling	m³/min	P-Hi: 13 Hi: 11 Me: 9 Lo: 7	100			
A !! - !- !		Heating	D-	0				
	nal static pressure		Pa	~	0			
Outside air inta				Possible	_			
Air filter, Quality	<u> </u>			Pocket plastic net x1(Washable)				
Shock & vibrat				Rubber sleeve (for fan motor) Rubber sleeve (for fan motor & comp				
Electric heater			W	– 20(Crank case heater)				
Operation	Remote control			(Option) Wired: RC-EX3A, RC-E5, RCH-E3 Wireless: RCN-TC-5AW-E2				
control	Room temperature control			Thermostat b	by electronics			
	Operation display							
Safety equipme	ents			Frost protecti Internal thermos	tion for fan motor on thermostat stat for fan motor emperature protection			
	Refrigerant piping size	Liquid line		I/U φ 6.35 (1/4") ② φ 9.52 (3/8")x0.8	① φ 9.52 (3/8")x0.8 O/U φ 9.52 (3/8")			
	(O.D)	Gas line	mm	, , , , , , , , , , , , , , , , , , , ,	① φ 15.88(5/8")x1.0 φ 15.88 (5/8")			
	` '	1 Gao mio		Flare piping	Flare piping			
ļ	Connecting method			i iaio piping	I idio piping			
Inetallation			m	_	_			
Installation data	Attached length of piping		m	— Necessary (both I	iquid & Gas lines)			
Installation data	Attached length of piping Insulation for piping	nth.		Necessary (both I	Liquid & Gas lines)			
	Attached length of piping Insulation for piping Refrigerant line (one way) length	·	m	Necessary (both I Min.3,	Liquid & Gas lines) Max.100			
	Attached length of piping Insulation for piping Refrigerant line (one way) leng Vertical height diff. between O/U	·		Necessary (both I Min.3 , I Max.50 (Outdoor unit is higher)	Liquid & Gas lines) Max.100 / Max.15 (Outdoor unit is lower)			
data	Attached length of piping Insulation for piping Refrigerant line (one way) leng Vertical height diff. between O/U Drain hose	·	m m	Necessary (both I Min.3 , I Max.50 (Outdoor unit is higher) Hose connectable with VP25(O.D.32)	iquid & Gas lines) Max.100 / Max.15 (Outdoor unit is lower) Hole size φ 20 x 3 pcs			
data Drain pump, m	Attached length of piping Insulation for piping Refrigerant line (one way) leng Vertical height diff. between O/U Drain hose ax lift height	·	m m	Necessary (both I Min.3 , I Max.50 (Outdoor unit is higher)	Liquid & Gas lines) Max.100 / Max.15 (Outdoor unit is lower)			
Drain pump, m Recommended	Attached length of piping Insulation for piping Refrigerant line (one way) leng Vertical height diff. between O/U Drain hose nax lift height d breaker size	·	m m mm A	Necessary (both I Min.3 , I Max.50 (Outdoor unit is higher) Hose connectable with VP25(O.D.32) Built-in drain pump , 850	Liquid & Gas lines) Max.100 / Max.15 (Outdoor unit is lower) Hole size \$\phi\$ 20 x 3 pcs —			
Drain pump, m Recommended L.R.A. (Locked	Attached length of piping Insulation for piping Refrigerant line (one way) leng Vertical height diff. between O/U Drain hose nax lift height d breaker size I rotor ampere)	and I/U	m m	Necessary (both I Min.3 , I Max.50 (Outdoor unit is higher) Hose connectable with VP25(O.D.32) Built-in drain pump , 850	Liquid & Gas lines) Max.100 / Max.15 (Outdoor unit is lower) Hole size \$\phi\$ 20 x 3 pcs —			
Drain pump, m Recommended L.R.A. (Locked Interconnecting	Attached length of piping Insulation for piping Refrigerant line (one way) leng Vertical height diff. between O/U Drain hose nax lift height d breaker size I rotor ampere)	·	m m mm A	Necessary (both I Min.3, I Max.50 (Outdoor unit is higher) Hose connectable with VP25(O.D.32) Built-in drain pump, 850 σ 1.6mm x3 cores + earth cable σ	iquid & Gas lines) Max.100 / Max.15 (Outdoor unit is lower) Hole size φ 20 x 3 pcs — - - - - - - - - - - - -			
Drain pump, m Recommended L.R.A. (Locked Interconnecting IP number	Attached length of piping Insulation for piping Refrigerant line (one way) leng Vertical height diff. between O/U Drain hose hax lift height d breaker size I rotor ampere) g wires Size x C	and I/U	m m mm A	Necessary (both I Min.3, I Max.50 (Outdoor unit is higher) Hose connectable with VP25(O.D.32) Built-in drain pump, 850 5 \$\phi\$ 1.6mm x3 cores + earth cable in IPX0	Liquid & Gas lines) Max.100 / Max.15 (Outdoor unit is lower) Hole size ϕ 20 x 3 pcs — - -			
Drain pump, m Recommended L.R.A. (Locked Interconnecting	Attached length of piping Insulation for piping Refrigerant line (one way) leng Vertical height diff. between O/U Drain hose hax lift height d breaker size I rotor ampere) g wires Size x C	and I/U	m m mm	Necessary (both I Min.3, , Max.50 (Outdoor unit is higher) Hose connectable with VP25(O.D.32) Built-in drain pump , 850	iquid & Gas lines) Max.100 / Max.15 (Outdoor unit is lower) Hole size φ 20 x 3 pcs — - - - - - - - - - - - -			

Notes (1) The data are measured at the following conditions.

Item	Indoor air t	emperature	Outdoor air	temperature	Standards
Operation	DB	WB	DB	WB	Standards
Cooling	27°C	19°C	35°C	24°C	ISO5151-T1
Heating	20°C	_	7°C	6°C	ISO5151-H1

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.
- (3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
 (4) Select the breaker size according to the own national standard.
 (5) The operation data indicate when the air-conditioner is operated at 230V 50Hz or 220V 60Hz.

- (6) Indoor unit specifications for one unit. Capacity and operation data is two indoor units are combined and run together.
 (7) Branching pipe set "DIS-WA1G"×1(Option). ① : Pipe of O/U-Branch, ② : Pipe of Branch-I/U

			Model	FDTC140	VSXWTVH			
Item			Woder	Indoor unit FDTC50VH (3 units)	Outdoor unit FDC140VSX-W			
Power source)			3 Phase, 380 - 415	V 50Hz / 380V 60Hz			
	Nominal cooling capacity (ra	ange)	kW	14.0 [3.5(Mir	n.) - 16.0(Max.)]			
	Nominal heating capacity (r	ange)	kW	16.0 [2.7(Mir	n.) - 20.0(Max.)]			
		Cooling		3.96				
	Power consumption	Heating	kW	4.34				
	Max power consumption	1	-		.90			
	Wax power concamption	Cooling			/7.1			
	Running current	Heating	A		/7.7			
	Inrush current, max current	rieating	- ^		14			
	mirusii current, max current	Caalina			35			
Operation data	Power factor	Cooling	- %		T., T.			
data		Heating			36			
	EER	Cooling			.54			
	COP	Heating		3	.69			
	Sound power level	Cooling		59	69			
	Sound power level	Heating		39	71			
	Council management lavel	Cooling	4D(A)	D. Hi. 44 Hi. 40 May 05 Lay 07	54			
	Sound pressure level	Heating	dB(A)	P-Hi: 44 Hi: 40 Me: 35 Lo: 27	54			
	Silent mode	Cooling			50 /49(Normal/Silent)			
	sound pressure level	Heating		_	51 /48(Normal/Silent)			
Exterior dimer	nsions (Height x Width x Depth		mm	Unit 248 x 570 x 570 Panel 10 x 620 x 620	1300x970x370			
Exterior appea	arance			Fine snow	Stucco white			
(Munsell color				(8.0Y9.3/0.1) near equivalent	(4.2Y7.5/1.1) near equivalent			
(RAL color)	')			(RAL 9001) near equivalent	(RAL 7044) near equivalent			
Net weight			ka	Unit 14 Panel 2.5	99			
			kg	Offic 14 Pariet 2.5	**			
Compressor ty				_	RMT5134SWP4 x 1			
•	motor (Starting method)		kW	_	Direct line start			
Refrigerant oil	I (Amount, type)		L	_	0.9 (M-MB75)			
Refrigerant (T	Гуре, amount, pre-charge leng	th)	kg	R32 4.0 in outdoor unit (Incl. th	ne amount for the piping of 30m)			
Heat exchang	ger			Louver fin & inner grooved tubing	M shape fin & inner grooved tubing			
Refrigerant co	ontrol			Electronic ex	pansion valve			
Fan type & Q'	ty			Turbo fan x1	Propeller fan x2			
Fan motor (St	arting method)		W	50 < Direct line start >	86x2 < Direct line start >			
Air flow		Cooling Heating	m³/min	P-Hi: 13 Hi: 11 Me: 9 Lo: 7				
Available exte	ernal static pressure		Pa	0	0			
Outside air int	<u> </u>		1	Possible —				
Air filter, Quali				Pocket plastic net x1(Washable)	_			
Shock & vibra	· · · · · · · · · · · · · · · · · · ·			Rubber sleeve(for fan motor)	Dubbar alasya (for fan mater 9 gempresser)			
			W	hubber sleeve(for fait fflotor)	Rubber sleeve (for fan motor & compressor)			
Electric heater	1		VV		20(Crank case heater)			
Operation	Remote control				RCH-E3 Wireless : RCN-TC-5AW-E2			
control	Room temperature control			Thermostat	by electronics			
	Operation display							
					tion for fan motor			
Safety equipm	nents				ion thermostat stat for fan motor			
Safety equipments					temperature protection			
outory oquipit					ioniporature proteotion			
		Liquid line						
	Refrigerant piping size	Liquid line	mm	I/U φ 6.35 (1/4") ② φ 9.52 (3/8")x0.8	① ϕ 9.52 (3/8")x0.8 O/U ϕ 9.52 (3/8")			
	Refrigerant piping size (O.D)	Liquid line Gas line	mm	I/U φ 6.35 (1/4") ② φ 9.52 (3/8")x0.8 φ 12.7 (1/2") ② φ 12.7(1/2")x0.8	① φ 9.52 (3/8")x0.8 O/U φ 9.52 (3/8") ① φ 15.88(5/8")x1.0 φ 15.88 (5/8")			
	Refrigerant piping size (O.D) Connecting method			I/U ϕ 6.35 (1/4") ② ϕ 9.52 (3/8")x0.8 ϕ 12.7 (1/2") ② ϕ 12.7(1/2")x0.8 Flare piping	① φ 9.52 (3/8")x0.8 O/U φ 9.52 (3/8") ① φ 15.88(5/8")x1.0 φ 15.88 (5/8") Flare piping			
Installation	Refrigerant piping size (O.D) Connecting method Attached length of piping		mm m	I/U φ 6.35 (1/4") ② φ 9.52 (3/8")x0.8 φ 12.7 (1/2") ② φ 12.7(1/2")x0.8 Flare piping	① φ 9.52 (3/8")x0.8 O/U φ 9.52 (3/8") ① φ 15.88(5/8")x1.0 φ 15.88 (5/8") Flare piping —			
	Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping	Gas line		I/U φ 6.35 (1/4") ② φ 9.52 (3/8")x0.8 φ 12.7 (1/2") ② φ 12.7(1/2")x0.8 Flare piping	① φ 9.52 (3/8")x0.8 O/U φ 9.52 (3/8") ① φ 15.88(5/8")x1.0 φ 15.88 (5/8") Flare piping			
Installation	Refrigerant piping size (O.D) Connecting method Attached length of piping	Gas line		I/U φ 6.35 (1/4") ② φ 9.52 (3/8")x0.8 φ 12.7 (1/2") ② φ 12.7(1/2")x0.8 Flare piping - Necessary (both	① φ 9.52 (3/8")x0.8 O/U φ 9.52 (3/8") ① φ 15.88(5/8")x1.0 φ 15.88 (5/8") Flare piping —			
Installation	Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping	Gas line	m	\(\begin{align*} \(\phi \) 6.35 \(\text{1/4"} \) \(\begin{align*} \(\phi \) 9.52 \(\text{3/8"} \) x0.8 \\ \(\phi \) 12.7 \(\text{1/2"} \) \(\begin{align*} \(\phi \) 9.52 \(\text{12.7(1/2"} \) x0.8 \\ \(\text{Flare piping} \) \(- \text{Necessary (both Min.3 ,} \)	① φ 9.52 (3/8")x0.8 O/U φ 9.52 (3/8") ① φ 15.88(5/8")x1.0 φ 15.88 (5/8") Flare piping Liquid & Gas lines)			
Installation	Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) le	Gas line	m m	\(\begin{align*} \(\phi \) 6.35 \(\text{1/4"} \) \(\begin{align*} \(\phi \) 9.52 \(\text{3/8"} \) x0.8 \\ \(\phi \) 12.7 \(\text{1/2"} \) \(\begin{align*} \(\phi \) 9.52 \(\text{12.7(1/2"} \) x0.8 \\ \(\text{Flare piping} \) \(- \text{Necessary (both Min.3 ,} \)	① φ 9.52 (3/8")x0.8 O/U φ 9.52 (3/8") ① φ 15.88(5/8")x1.0 φ 15.88 (5/8") Flare piping Liquid & Gas lines) Max.100			
Installation	Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) le Vertical height diff. between O/Drain hose	Gas line	m m	/U φ 6.35 (1/4") ② φ 9.52 (3/8")x0.8 φ 12.7 (1/2") ② φ 12.7(1/2")x0.8 Flare piping - Necessary (both Min.3 , Max.50 (Outdoor unit is higher)	① φ 9.52 (3/8")x0.8 O/U φ 9.52 (3/8") ① φ 15.88(5/8")x1.0 φ 15.88 (5/8") Flare piping Liquid & Gas lines) Max.100 / Max.15 (Outdoor unit is lower)			
Installation data Drain pump, n	Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) le Vertical height diff. between O/ Drain hose max lift height	Gas line	m m m	I/U φ 6.35 (1/4") ② φ 9.52 (3/8")x0.8 φ 12.7 (1/2") ② φ 12.7(1/2")x0.8 Flare piping - Necessary (both Min.3 , Max.50 (Outdoor unit is higher) Hose connectable with VP25(O.D.32) Built-in drain pump , 850	① φ 9.52 (3/8")x0.8 O/U φ 9.52 (3/8") ① φ 15.88(5/8")x1.0 φ 15.88 (5/8") Flare piping Liquid & Gas lines) Max.100 / Max.15 (Outdoor unit is lower)			
Installation data Drain pump, n Recommende	Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) le Vertical height diff. between O/Drain hose max lift height de breaker size	Gas line	m m m A	I/U φ 6.35 (1/4") ② φ 9.52 (3/8")x0.8 φ 12.7 (1/2") ② φ 12.7(1/2")x0.8 Flare piping — Necessary (both Min.3 , Max.50 (Outdoor unit is higher) Hose connectable with VP25(O.D.32) Built-in drain pump , 850	① φ 9.52 (3/8")x0.8 O/U φ 9.52 (3/8") ① φ 15.88(5/8")x1.0 φ 15.88 (5/8") Flare piping — Liquid & Gas lines) Max.100 / Max.15 (Outdoor unit is lower) Hole size φ 20 x 3 pcs —			
Installation data Drain pump, n Recommende L.R.A. (Locked	Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) le Vertical height diff. between O/Drain hose max lift height ad breaker size d rotor ampere)	Gas line ngth U and I/U	m m m	I/U φ 6.35 (1/4") ② φ 9.52 (3/8")x0.8 φ 12.7 (1/2") ② φ 12.7(1/2")x0.8 Flare piping — Necessary (both Min.3 , Max.50 (Outdoor unit is higher) Hose connectable with VP25(O.D.32) Built-in drain pump , 850	① φ 9.52 (3/8")x0.8 O/U φ 9.52 (3/8") ① φ 15.88(5/8")x1.0 φ 15.88 (5/8") Flare piping — Liquid & Gas lines) Max.100 / Max.15 (Outdoor unit is lower) Hole size φ 20 x 3 pcs — 5.0			
Installation data Drain pump, n Recommende L.R.A. (Locked Interconnectin	Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) le Vertical height diff. between O/Drain hose max lift height ad breaker size d rotor ampere)	Gas line	m m m A	I/U φ 6.35 (1/4") ② φ 9.52 (3/8")x0.8 φ 12.7 (1/2") ② φ 12.7(1/2")x0.8 Flare piping Necessary (both Min.3 , Max.50 (Outdoor unit is higher) Hose connectable with VP25(O.D.32) Built-in drain pump , 850	① φ 9.52 (3/8")x0.8 O/U φ 9.52 (3/8") ① φ 15.88(5/8")x1.0 φ 15.88 (5/8") Flare piping — Liquid & Gas lines) Max.100 / Max.15 (Outdoor unit is lower) Hole size φ 20 x 3 pcs — 5.0 / Terminal block (Screw fixing type)			
Drain pump, n Recommende L.R.A. (Locked Interconnectin IP number	Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) le Vertical height diff. between O/Drain hose max lift height ad breaker size d rotor ampere) ng wires Size of	Gas line ngth U and I/U	m m m A	I/U φ 6.35 (1/4")	① φ 9.52 (3/8")x0.8 O/U φ 9.52 (3/8") ① φ 15.88(5/8")x1.0 φ 15.88 (5/8") Flare piping — Liquid & Gas lines) Max.100 / Max.15 (Outdoor unit is lower) Hole size φ 20 x 3 pcs — 5.0 / Terminal block (Screw fixing type) IP24			
Drain pump, n Recommende L.R.A. (Locked Interconnectin	Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) le Vertical height diff. between O/Drain hose max lift height ad breaker size d rotor ampere) ng wires Size of	Gas line ngth U and I/U	m m m A	I/U φ 6.35 (1/4") ② φ 9.52 (3/8")x0.8 φ 12.7 (1/2") ② φ 12.7(1/2")x0.8 Flare piping Necessary (both Min.3 , Max.50 (Outdoor unit is higher) Hose connectable with VP25(O.D.32) Built-in drain pump , 850 φ 1.6mm x3 cores + earth cable IPX0 Mounting kit, Drain hose	① φ 9.52 (3/8")x0.8 O/U φ 9.52 (3/8") ① φ 15.88(5/8")x1.0 φ 15.88 (5/8") Flare piping — Liquid & Gas lines) Max.100 / Max.15 (Outdoor unit is lower) Hole size φ 20 x 3 pcs — 5.0 / Terminal block (Screw fixing type)			

,		5			mo pipo ionganio momi
Item	Indoor air t	emperature	Outdoor air	temperature	Standards
Operation	DB	WB	DB	WB	Staridards
Cooling	27°C	19°C	35°C	24°C	ISO5151-T1
Heating	20°C	_	7°C	6°C	ISO5151-H1

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.
- (3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.

 (4) Select the breaker size according to the own national standard.

 (5) The operation data indicate when the air-conditioner is operated at 400V 50Hz or 380V 60Hz.

- (6) Indoor unit specifications for one unit. Capacity and operation data is two indoor units are combined and run together.
 (7) Branching pipe set "DIS-WA1G"×1(Option). ① : Pipe of O/U-Branch, ② : Pipe of Branch-I/U

(3) Duct connected-High static pressure type (FDU) Single type

			Model					
Item				Indoor unit FDU100VH	Outdoor unit FDC100VNX-W			
Power source	1			1 Phase, 220 - 240	V 50Hz / 220V 60Hz			
	Nominal cooling capacity (rai	nae)	kW	10.0 [3.5(Min	i.) - 11.2(Max.)]			
	Nominal heating capacity (rai		kW	* `	i.) - 12.5(Max.)]			
		Cooling	1	- ,	.59			
	Power consumption	Heating	kW		.63			
	Max power consumption	ricating	-		.10			
	wax power consumption	Caalina	+					
	Running current	Cooling	┥. ト		/ 12.0			
		Heating	_ A		/ 12.1			
	Inrush current, max current				26			
Operation	Power factor	Cooling	_ %	9	98			
data	1 Ower factor	Heating	/0	9	99			
	EER	Cooling		3.	.86			
	COP	Heating	7 [4.	26			
		Cooling		25	0.7			
	Sound power level	Heating	7	65	67			
		Cooling	⊣		53			
	Sound pressure level	Heating	dB(A)	P-Hi: 44 Hi: 38 Me: 36 Lo: 30	51			
	Ciloret manda	Cooling	⊣ ⊦		49 /48(Normal/Silent)			
	Silent mode sound pressure level		-	_	48 /48(Normal/Silent)			
and a second	<u>'</u>	Heating	-	000 :: 4070 - 740				
	nsions (Height x Width x Depth)		mm	280 x 1370 x 740	1300x970x370			
Exterior appearance (Munsell color)			_	Stucco white (4.2Y7.5/1.1) near equivalent				
RAL color)					(RAL 7044) near equivalent			
let weight			kg	54	97			
ompressor ty	ype & Q'ty			_	RMT5134SWP3 (Twin rotary type) x 1			
ompressor n	notor (Starting method)		kW	_	Direct line start			
	(Amount, type)		L	_	0.9 (M-MB75)			
	Type, amount, pre-charge length	-)		P22 4 0 in outdoor unit (Incl. th	ne amount for the piping of 30m)			
0 (71 71 0 0	1)	kg	,				
leat exchange			+ +	Louver fin & inner grooved tubing	M shape fin & inner grooved tubing			
Refrigerant co			1		pansion valve			
an type & Q'1	·			Centrifugal fan x3	Propeller fan x2			
an motor (Sta	arting method)		W	100 + 130 < Direct line start >	86x2 < Direct line start >			
ir flow		Cooling Heating	m³/min	P-Hi: 36 Hi: 28 Me: 25 Lo: 19	100			
vailable exte	rnal static pressure	1	Pa	Standard: 60 Max: 200	0			
outside air int	· · · · · · · · · · · · · · · · · · ·			Possible –				
ir filter, Qualit			+	Procure locally —				
	· · · · · · · · · · · · · · · · · · ·		+	·				
	tion absorber		1 14/	Rubber sleeve(for fan motor) Rubber sleeve (for fan motor & con				
lectric heater	1		W		20(Crank case heater)			
peration	Remote control				, RCH-E3 Wireless : RCN-KIT4-E2			
ontrol	Room temperature control			Thermostat I	by electronics			
	Operation display							
afety equipm	nents			Frost protecti Internal thermos	tion for fan motor ion thermostat stat for fan motor			
	T=	1 (40.0) -1 (0.0)			temperature protection			
	Refrigerant piping size	Liquid line	— mm		2 (3/8")x0.8			
	(O.D)	Gas line	1		(5/8")x1.0 φ 15.88 (5/8")			
	Connecting method			Flare piping	Flare piping			
nstallation	Attached length of piping		m		_			
ata	Insulation for piping			Necessary (both	Liquid & Gas lines)			
	Refrigerant line (one way) len	gth	m	Min.3 ,	Max.100			
	Vertical height diff. between O/U		m	Max.50 (Outdoor unit is higher)	Max.15 (Outdoor unit is lower)			
	ŭ .		1	Hose connectable VP25(I.D.25, O.D.32)	Hole size φ 20 x 3 pcs			
				, , ,				
rain numn n	Drain hose		mm	Built-in drain nump 600	_			
	Drain hose max lift height		mm A	Built-in drain pump , 600	_			
ecommende	Drain hose max lift height ad breaker size		А	-				
lecommende .R.A. (Locked	Drain hose max lift height ed breaker size d rotor ampere)		_		- - 5.0			
ecommende .R.A. (Locked terconnectin	Drain hose max lift height ed breaker size d rotor ampere)	Core number	А	φ 1.6mm x3 cores + earth cable	/ Terminal block (Screw fixing type)			
Recommende R.A. (Locked nterconnection number	Drain hose max lift height ad breaker size d rotor ampere) ng wires Size x	Core number	А	φ 1.6mm x3 cores + earth cable IPX0				
Recommende	Drain hose max lift height ad breaker size d rotor ampere) ng wires Size x	Core number	А	φ 1.6mm x3 cores + earth cable	/ Terminal block (Screw fixing type)			

Notes (1) The data are measured at the following conditions.

The pipe length is 7.5m.

Item	Indoor air t			External static pressure	Standards		
Operation	DB	WB	DB	WB	of indoor unit	Standards	
Cooling	27°C	19°C	35°C	24°C	60Pa	ISO5151-T1	
Heating	20°C	_	7°C	6°C	oura	ISO5151-H1	

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.
- (3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
- (4) Select the breaker size according to the own national standard.
- (5) When wireless remote control is used, fan is 3 speed setting (Hi-Me-Lo) only.
- (6) The operation data indicate when the air-conditioner is operated at 230V 50Hz or 220V 60Hz. (7) The factory E.S.P. setting is set within the range of 80 150 Pa.If SW8-4 is turned to "ON",
 - E.S.P. setting range can be changed to 10 200 Pa.(For RC-EX3A and RC-E5 only)

PJG000Z625 <u></u>♠

Nominal heating capacity (range) NW 10.0 (3.5Min) - 11.2MinV, 12.2Min) - 11.2MinV, 12.2MinV, 12.2MinV				Model	FDU100VSXWVH			
Prover source	Item				Indoor unit FDU100VH	Outdoor unit FDC100VSX-W		
Nominal healing capacity (range)	Power source					V 50Hz / 380V 60Hz		
Nominal healing capacity (range)			nnne)	kW	10.0 [3.5(Min) - 11 2(Max)]		
Power consumption								
Mesting Mest		Normal fleating capacity (18	- '	NVV				
Max power consumption		Power consumption		⊣ l				
Running current			Heating	_ kW				
Running current Heating		Max power consumption						
Fleating		Bunning ourrent	Cooling		4.4	/ 4.6		
		Running current	Heating	A	4.4	/ 4.6		
Power factor Cooling Heating Good Heating Good Goo		Inrush current, max current		-	5.	15		
Power factor	Operation	, , , , , , , , , , , , , , , , , , , ,	Cooling					
EER		Power factor		- %				
COP	uaia							
Sound pressure level				⊣				
Sound pressure level		COP	Heating		4.	26		
Near		Sound nower level	Cooling		6E	67		
Sound pressure level		Sourid power level	Heating		65	67		
Sound pressure level			Cooling	-		53		
Silient mode Silient mode Silient mode Silient mode Heating		Sound pressure level		dB(A)	P-Hi: 44 Hi: 38 Me: 36 Lo: 30			
Sound pressure level Heating		011 1		⊣				
Exterior dimensions (Height x Width x Depth)				_	_	` ,		
Exterior appearance						` ,		
Munsell color) RAL color) Ref (2.77.5/1.1) near equivalent (RAL 704) near equivalent (RAL	Exterior dimer	nsions (Height x Width x Depth)	mm	280 x 1370 x 740	1300x970x370		
RRAL color)	Exterior appea	arance				Stucco white		
Met weight	(Munsell color	r)			_	(4.2Y7.5/1.1) near equivalent		
Compressor type & Q'ty	(RAL color)					(RAL 7044) near equivalent		
Compressor type & Q'ty	Net weight			ka	54	99		
Compressor motor (Starting method) KW		ryne & O'ty		l is		RMT5134SWP4 (Twin rotany type) x 1		
Refrigerant oil (Amount, type)		<u> </u>		14/4/		\ 3317		
Refrigerant (Type, amount, pre-charge length) kg		, ,						
Heat exchanger Refrigerant control Refrigerant peak of ty Realing Refrigerant piping size Refrigerant piping size Refrigerant piping size Refrigerant piping method Refrigerant piping Refrigerant						. ,		
Electronic expansion valve Electronic expansion valve Earn type & O'ty Centrifugal fan x3 Propeller fan x2	Refrigerant (T	Гуре, amount, pre-charge lengt	h)	kg	R32 4.0 in outdoor unit (Incl. th			
Fan type & O'ty	Heat exchang	jer			Louver fin & inner grooved tubing	M shape fin & inner grooved tubing		
Fan motor (Starting method) W 100 + 130 < Direct line start > 86x2 <	Refrigerant co	ontrol			Electronic ex	pansion valve		
Fan motor (Starting method) W 100 + 130 < Direct line start > 86x2 <	Fan type & Q'	ty			Centrifugal fan x3	Propeller fan x2		
Air filow		·		w		•		
Patting Patt		a. a. ig moanou)	Cooling			COME & Direct into Start y		
Possible	Air flow			m³/min	P-Hi: 36 Hi: 28 Me: 25 Lo: 19	100		
Air filter, Quality / Quantity Procure locally — Shock & vibration absorber Rubber sleeve(for fan motor) Rubber sleeve (for fan motor & compressed procure locally — 20(Crank case heater) Rubber sleeve (for fan motor) Rubber sleeve (for fan motor & compressed procured procu	Available exte	ernal static pressure		Pa	Standard: 60 Max: 200	0		
Rubber sleeve (for fan motor) Rubber sleeve (for fan motor & compressor 20 (Crank case heater)	Outside air int	take			Possible	_		
Rubber sleeve (for fan motor) Rubber sleeve (for fan motor & compressor 20 (Crank case heater)	Air filter. Quali	ity / Quantity			Procure locally	_		
Remote control		· · · · · · · · · · · · · · · · · · ·			·	Rubber sleeve (for fan motor & compressor		
Remote control Reference control Re				\\\		`		
Room temperature control Operation display	Liectific fleater			***	(Outline) Mineral DO EVOA DO ES	, , ,		
Normal control Normal control Coperation display Control Coperation display Coper	Operation							
Safety equipments Coverload protection for fan motor Frost protection thermostat Internal thermostat for fan motor Abnormal discharge temperature protection Refrigerant piping size	control	· · · · · · · · · · · · · · · · · · ·			Thermostat b	by electronics		
Frost protection thermostat Internal thermostat for fan motor Abnormal discharge temperature protection Refrigerant piping size		Operation display			-	-		
Refrigerant piping size	Safety equipm	nents			Frost protecti	on thermostat		
Refrigerant piping size								
(O.D) Gas line Mm		Defrigerent pinion sin	Liquid line					
Connecting method Flare piping Flare piping Attached length of piping Meessary (both Liquid & Gas lines) Refrigerant line (one way) length Merical height diff. between O/U and I/U Memory Drain hose Hose connectable VP25(I.D.25, O.D.32) Hole size \$\phi 20 \times 3\$ pcs Drain pump, max lift height Meessary (both Liquid & Gas lines) Max.15 (Outdoor unit is lower) Max.50 (Outdoor unit is higher) Max.15 (Outdoor unit is lower) Hose connectable VP25(I.D.25, O.D.32) Hole size \$\phi 20 \times 3\$ pcs Drain pump, max lift height Messary Size A Messary Size A Messary Size X Core number A Messa				— mm	, , , , , ,	(/ / / /		
Attached length of piping m — — — — — — — — — — — — — — — — — —		<u>'</u>	Gas line					
Insulation for piping						Flare piping		
Refrigerant line (one way) length m Min.3 , Max.100 Vertical height diff. between O/U and I/U m Max.50 (Outdoor unit is higher) Max.15 (Outdoor unit is lower) Drain hose Hose connectable VP25(I.D.25 , O.D.32) Hole size ϕ 20 x 3 pcs Drain pump, max lift height mm Built-in drain pump , 600 — Recommended breaker size A — L.R.A. (Locked rotor ampere) A 5.0 Interconnecting wires Size x Core number ϕ 1.6mm x3 cores + earth cable / Terminal block (Screw fixing type) IP number IPX0 IP24 Standard accessories Mounting kit, Drain hose —	Installation	Attached length of piping		m	<u> </u>	_		
Vertical height diff. between O/U and I/U m Max.50 (Outdoor unit is higher) Max.15 (Outdoor unit is lower) Drain hose Hose connectable VP25(I.D.25, O.D.32) Hole size φ 20 x 3 pcs Drain pump, max lift height mm Built-in drain pump, 600 — Recommended breaker size A — L.R.A. (Locked rotor ampere) A 5.0 Interconnecting wires Size x Core number φ 1.6mm x3 cores + earth cable / Terminal block (Screw fixing type) IP number IPX0 IP24 Standard accessories Mounting kit, Drain hose —	data	Insulation for piping			Necessary (both I	_iquid & Gas lines)		
Vertical height diff. between O/U and I/U m Max.50 (Outdoor unit is higher) Max.15 (Outdoor unit is lower) Drain hose Hose connectable VP25(I.D.25, O.D.32) Hole size φ 20 x 3 pcs Drain pump, max lift height mm Built-in drain pump, 600 — Recommended breaker size A — L.R.A. (Locked rotor ampere) A 5.0 Interconnecting wires Size x Core number φ 1.6mm x3 cores + earth cable / Terminal block (Screw fixing type) IP number IPX0 IP24 Standard accessories Mounting kit, Drain hose —		Refrigerant line (one way) ler	ngth	m	Min.3 , l	Max.100		
Drain hose Hose connectable VP25(I.D.25 , O.D.32) Hole size φ 20 x 3 pcs Drain pump, max lift height mm Built-in drain pump , 600 — Recommended breaker size A — L.R.A. (Locked rotor ampere) A 5.0 Interconnecting wires Size x Core number φ 1.6mm x3 cores + earth cable / Terminal block (Screw fixing type) IP number IPX0 IP24 Standard accessories Mounting kit, Drain hose —								
Drain pump, max lift height mm Built-in drain pump , 600 — Recommended breaker size A — L.R.A. (Locked rotor ampere) A 5.0 Interconnecting wires Size x Core number φ 1.6mm x3 cores + earth cable / Terminal block (Screw fixing type) IP number IPX0 IP24 Standard accessories Mounting kit, Drain hose —					, , , , , , , , , , , , , , , , , , , ,			
Recommended breaker size A — L.R.A. (Locked rotor ampere) A 5.0 Interconnecting wires Size x Core number φ 1.6mm x3 cores + earth cable / Terminal block (Screw fixing type) IP number IPX0 IP24 Standard accessories Mounting kit, Drain hose —	Drain record					ι ισιε δίζε ψ 20 λ δ μοδ		
L.R.A. (Locked rotor ampere) A 5.0 Interconnecting wires Size x Core number φ 1.6mm x3 cores + earth cable / Terminal block (Screw fixing type) IP number IPX0 IP24 Standard accessories Mounting kit, Drain hose —	1 1/					_		
Interconnecting wires Size x Core number φ 1.6mm x3 cores + earth cable / Terminal block (Screw fixing type) IP number IPX0 IP24 Standard accessories Mounting kit, Drain hose —								
IP number IPX0 IP24 Standard accessories Mounting kit, Drain hose —	L.R.A. (Locked	d rotor ampere)		A	5	i.0		
Standard accessories Mounting kit, Drain hose —	Interconnectin	ng wires Size x	Core number		φ 1.6mm x3 cores + earth cable /	/ Terminal block (Screw fixing type)		
Standard accessories Mounting kit, Drain hose —	IP number				IPX0	IP24		
		essories		1		_		
Option parts William Sensor . Lo-NTI				+ +	• •	eor · I R-KIT		
	Option parts				iviotion sen	301 . LD-IXII		

The pipe length is 7.5m.

Item	Indoor air t	emperature	Outdoor air temperature		External static pressure	Standards
Operation	DB	WB	DB	WB	of indoor unit	Standards
Cooling	27°C	19°C	35°C	24°C	60Pa	ISO5151-T1
Heating	20°C	_	7°C	6°C	oura	ISO5151-H1

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.
- (3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
- (4) Select the breaker size according to the own national standard.
- (5) When wireless remote control is used, fan is 3 speed setting (Hi-Me-Lo) only.
- (6) The operation data indicate when the air-conditioner is operated at 400V 50Hz or 380V 60Hz. (7) The factory E.S.P. setting is set within the range of 80 150 Pa.lf SW8-4 is turned to "ON",
- E.S.P. setting range can be changed to 10 200 Pa.(For RC-EX3A and RC-E5 only)

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Nominal cooling agaacity (range)				Model	FDU125VNXWVH				
Norman lacoling capacity (range)	Item				Indoor unit FDU125VH	Outdoor unit FDC125VNX-W			
Nominal heating capacity (range)	Power source					V 50Hz / 220V 60Hz			
Nominal heating capacity (range)		Nominal cooling capacity (ra	nne)	kW	,				
Power consumption									
Power consumption		Norminal fleating capacity (la	<u> </u>	NVV		· · · · · · · · · · · · · · · · · · ·			
Max power consumption		Power consumption		┥ .,,, ├		·			
Running current		·	Heating	_ kW					
Purning current, max current Power factor Power factor Cooling Heating Power factor Power factor Cooling Heating Series Power factor		Max power consumption			7.	10			
Pleating A 15.9716.6		Dunning ourrent	Cooling		15.3	/ 16.0			
Inrush current, max current Cooling Power factor Cooling Heating 96 99		Running current	Heating	7 A	15.9	/ 16.6			
Power factor Cooling Heating 96 98 98		Inrush current, max current		i i	5.	28			
Power factor	Operation	,	Cooling						
EER		Power factor		- %	9	99			
COP	data	FFD		_	0				
Sound power level Cooling Heating Sound pressure level Cooling Heating Sound pressure level Cooling Heating Silent mode Cooling Silent mode Cooling Silent mode Sound pressure level Heating Silent mode Sound pressure level Silent mode Si				┦					
Sound pressure level		СОР			3.	T			
Meating Cooling Heating Cooling Heating Sound pressure level Cooling Heating Sound pressure level Exterior dipnersons (Friejht x Width x Depth) mm 280 x 1370 x 740 1300x97 Sound pressure level RAL color Sound pressure level Friend RAL color Sound pressure level Sound pressure S		Sound power level		_	67				
Sound pressure level		Godina power level	Heating		01	70			
Heating Cooling Silient mode Sound pressure level Heating Sol /49 Norm Sol /49 Nor		0	Cooling	-ID(A)	D 15: 45 15: 40 May 04 1 av 00	53			
Silent mode Sound pressure level Heating		Sound pressure level	Heating		P-HI: 45 HI: 40 Me: 34 Lo: 29	54			
Sound pressure level Heating		Silent mode		-		50 /49(Normal/Silent)			
Exterior dimensions (Height x Width x Depth)				-	_	50 /48(Normal/Silent)			
Stucco Munsell color)	To all a set a set all the second	<u> </u>			000 4070 740	,			
Munsell color)				mm	280 x 1370 x 740	1300x970x370			
RAL color						Stucco white			
Met weight	•)			_	(RAL 7044) near equivalent			
Compressor type & C'ty	,			lan.	54				
Compressor motor (Starting method) KW				кд		7:			
Refrigerant oil (Amount, type)		· · · · · · · · · · · · · · · · · · ·			_	RMT5134SWP3 (Twin rotary type) x 1			
Refrigerant (Type, amount, pre-charge length) kg R32 4.0 in outdoor unit (Incl. the amount for the piping of Louver fin & inner grooved tubing Electronic expansion valve Electronic outrol Electronic expansion valve Electronic expansion valve Centrifugal fan x3 Propeller an motor (Starting method) W 100 + 200 < Direct line start > 86x2 < Direct line start > 80x2 < Direct	Compressor n	notor (Starting method)		kW	_	Direct line start			
Louver fin & inner grooved tubing M shape fin & inner genored tubing Electronic expansion valve	Refrigerant oil	(Amount, type)		L	_	0.9 (M-MB75)			
Louver fin & inner grooved tubing	Refrigerant (T	vpe. amount, pre-charge lengtl	າ)	ka	R32 4.0 in outdoor unit (Incl. th	e amount for the piping of 30m)			
Electronic expansion valve		,, , , , , , , , , , , , , , , , , , , ,	,	1 - 1	·	M shape fin & inner grooved tubing			
Contribusion Cooling				1					
Fan motor (Starting method) W 100 + 200 < Direct line start > 86x2									
Cooling Heating		<u> </u>		10/		·			
Available external static pressure Available external static pressure Pa Standard: 60 Max: 200 0 Outside air intake Procure locally Procu	ran motor (Sta	arting method)	10 "	VV	100 + 200 < Direct line start >	86x2 < Direct line start >			
Possible	Air flow			m³/min	P-Hi: 39 Hi: 32 Me: 26 Lo: 20	100			
Air filter, Quality / Quantity Procure locally Procure local Procure locally Procure local Procure l	Available exte	rnal static pressure		Pa	Standard: 60 Max: 200	0			
Shock & vibration absorber Electric heater Operation Control Remote control Operation display Safety equipments Refrigerant piping size (O.D.D) Connecting method Attached length of piping Attached length of piping Refrigerant line (one way) length Vertical height diff. between O/U and I/U Drain hose Drain pump, max lift height Recommended breaker size Liquid line Insulation data Refrogrant line (one way) length Vertical height diff. between O/U and I/U Drain hose Recommended breaker size Liquid line Insulation for piping Refrigerant line (one way) length Refrogrant line (one way) length Recommended breaker size Liquid line Insulation for piping Refrigerant line (one way) length Refrigerant line (one way) length Recommended breaker size A Liquid line Mm Min.3, Max.100 Max.15 (Outdoor unit is higher) Max.15 (Outdoor unit is higher) Max.15 (Outdoor unit is display) A Built-in drain pump, 600 — Recommended breaker size A Liquid line Min.3 (Max.15 (Outdoor unit is higher) A Liquid & Gas lines Min.3 (Max.15 (Outdoor unit is higher) A Liquid & Gas lines A A — Liquid line Min.3 (Max.100 Ax.15 (Outdoor unit is higher) Ax.15 (Outdoor unit is higher) Ax.15 (Outdoor unit is higher) A Liquid line Min.3 (Max.15 (Outdoor unit is higher) A Liquid line Min.3 (Max.15 (Outdoor unit is higher) A Liquid line Min.3 (Max.100) Ax.15 (Outdoor unit is higher) A Liquid line Min.3 (Max.15 (Outdoor unit is higher) A Liquid line Min.3 (Max.15 (Outdoor unit is higher) A Liquid line Min.3 (Max.100) Ax.15 (Outdoor unit is higher) A Liquid line Min.3 (Max.15 (Outdoor unit is higher) A Liquid line Min.3 (Max.15 (Outdoor unit is higher) A Liquid line Min.3 (Max.100) Ax.15 (Outdoor unit is higher) A Liquid line Min.3 (Max.15 (Outdoor unit is higher) A Liquid line Min.3 (Max.100) Ax.15 (Outdoor unit is higher) A Liquid line Min.3 (Max.100) Ax.15 (Outdoor unit is higher) A Liquid line Min.3 (Max.100) Ax.15 (Outdoor unit is higher) A Liquid line Mi	Outside air int	ake			Possible	_			
Shock & vibration absorber Electric heater Operation Control Remote control Operation display Safety equipments Refrigerant piping size (O.D.D) Connecting method Attached length of piping Attached length of piping Refrigerant line (one way) length Vertical height diff. between O/U and I/U Drain hose Drain pump, max lift height Recommended breaker size Liquid line Insulation data Refrogrant line (one way) length Vertical height diff. between O/U and I/U Drain hose Recommended breaker size Liquid line Insulation for piping Refrigerant line (one way) length Refrogrant line (one way) length Recommended breaker size Liquid line Insulation for piping Refrigerant line (one way) length Refrigerant line (one way) length Recommended breaker size A Liquid line Mm Min.3, Max.100 Max.15 (Outdoor unit is higher) Max.15 (Outdoor unit is higher) Max.15 (Outdoor unit is display) A Built-in drain pump, 600 — Recommended breaker size A Liquid line Min.3 (Max.15 (Outdoor unit is higher) A Liquid & Gas lines Min.3 (Max.15 (Outdoor unit is higher) A Liquid & Gas lines A A — Liquid line Min.3 (Max.100 Ax.15 (Outdoor unit is higher) Ax.15 (Outdoor unit is higher) Ax.15 (Outdoor unit is higher) A Liquid line Min.3 (Max.15 (Outdoor unit is higher) A Liquid line Min.3 (Max.15 (Outdoor unit is higher) A Liquid line Min.3 (Max.100) Ax.15 (Outdoor unit is higher) A Liquid line Min.3 (Max.15 (Outdoor unit is higher) A Liquid line Min.3 (Max.15 (Outdoor unit is higher) A Liquid line Min.3 (Max.100) Ax.15 (Outdoor unit is higher) A Liquid line Min.3 (Max.15 (Outdoor unit is higher) A Liquid line Min.3 (Max.15 (Outdoor unit is higher) A Liquid line Min.3 (Max.100) Ax.15 (Outdoor unit is higher) A Liquid line Min.3 (Max.15 (Outdoor unit is higher) A Liquid line Min.3 (Max.100) Ax.15 (Outdoor unit is higher) A Liquid line Min.3 (Max.100) Ax.15 (Outdoor unit is higher) A Liquid line Min.3 (Max.100) Ax.15 (Outdoor unit is higher) A Liquid line Mi	Air filter. Qualit	tv / Quantity			Procure locally	_			
Remote control Remo		<u> </u>		1	·	Rubber sleeve (for fan motor & compress			
Remote control Room temperature control Room temperature control Operation display Overload protection for fan motor Frost protection thermostat Internal thermostat Internal thermostat of fan motor Abnormal discharge temperature protection Abnormal discharge temperature protection Operation display Overload protection for fan motor Frost protection thermostat Internal thermostat for fan motor Abnormal discharge temperature protection Operation Operat				10/	Hubber sieeve(ior lair motor)	20(Crank case heater)			
Room temperature control Operation Operation display Overload protection for fan motor Frost protection thermostat Internal thermostat for fan motor Abnormal discharge temperature protection Abnormal discharge temperature protection Operation Operati	Liectric rieater	1		VV	(Outline) Minate DO EVOA DO ES				
Pointrol Poperature Control Operation display	Operation					.··			
Safety equipments Coverload protection for fan motor Frost protection thermostat Internal thermostat for fan motor Abnormal discharge temperature protection Refrigerant piping size		•			Thermostat b	by electronics			
Safety equipments		Operation display			-	=			
Refrigerant piping size	Safety equipm	nents			Frost protecti Internal thermos	on thermostat stat for fan motor			
(O.D) Gas line mm		T=	I tank to the co						
(O.D) Gas line φ 15.88 (5/8") φ 15.88 (5/8")x1.0 φ 15.88 (5/8") x1.0 φ 15.88 (5/8")x1.0 φ 15.88 (5/8") φ 15.88 (5/8")x1.0 φ 15.88 (5/8")x1.				⊣ mm	, , , , , ,				
Attached length of piping m — — — — — — — — — — — — — — — — — —		` '	Gas line						
Insulation for piping Refrigerant line (one way) length Vertical height diff. between O/U and I/U Drain hose Drain pump, max lift height Recommended breaker size L.R.A. (Locked rotor ampere) Insulation for piping Refrigerant line (one way) length Max.10 Max.50 (Outdoor unit is higher) Max.15 (Outdoor Hose connectable VP25(I.D.25, O.D.32) Hole size \$\phi 2\$ A Built-in drain pump, 600 L.R.A. (Locked rotor ampere) A Size x Core number A 1.6mm x3 cores + earth cable / Terminal block (Screw fix IP number) IP number					Flare piping	Flare piping			
Refrigerant line (one way) length m Min.3 , Max.100 Vertical height diff. between O/U and I/U m Max.50 (Outdoor unit is higher) Max.15 (Outdoor unit is higher) Drain hose Hose connectable VP25(I.D.25 , O.D.32) Hole size \$\phi\$ 2 Drain pump, max lift height mm Built-in drain pump , 600 — Recommended breaker size A — L.R.A. (Locked rotor ampere) A 5.0 Interconnecting wires Size x Core number \$\phi\$ 1.6mm x3 cores + earth cable / Terminal block (Screw fix P number) P number IPX0 IP24		Attached length of piping		m	<u> </u>				
Vertical height diff. between O/U and I/U m Max.50 (Outdoor unit is higher) Max.15 (Outdoor unit is higher) Drain hose Hose connectable VP25(I.D.25, O.D.32) Hole size φ 2 Drain pump, max lift height mm Built-in drain pump, 600 — Recommended breaker size A — R.A. (Locked rotor ampere) A 5.0 Interconnecting wires Size x Core number φ 1.6mm x3 cores + earth cable / Terminal block (Screw fix pump) P number IPX0 IP24	data	Insulation for piping	<u> </u>		Necessary (both I	Liquid & Gas lines)			
Vertical height diff. between O/U and I/U m Max.50 (Outdoor unit is higher) Max.15 (Outdoor unit is higher) Drain hose Hose connectable VP25(I.D.25, O.D.32) Hole size φ 2 Drain pump, max lift height mm Built-in drain pump, 600 — Recommended breaker size A — R.A. (Locked rotor ampere) A 5.0 nterconnecting wires Size x Core number φ 1.6mm x3 cores + earth cable / Terminal block (Screw fix pump) P number IPX0 IP24		Refrigerant line (one way) len	gth	m	Min.3 . I	Max.100			
Drain hose Hose connectable VP25(I.D.25, 0.D.32) Hole size φ 2 Drain pump, max lift height mm Built-in drain pump, 600 — Recommended breaker size A — R.A. (Locked rotor ampere) A 5.0 Interconnecting wires Size x Core number φ 1.6mm x3 cores + earth cable / Terminal block (Screw fixed properties) P number IPX0 IP24				+ +		Max.15 (Outdoor unit is lower)			
Drain pump, max lift height mm Built-in drain pump, 600 — Recommended breaker size A — R.A. (Locked rotor ampere) A 5.0 nterconnecting wires Size x Core number φ 1.6mm x3 cores + earth cable / Terminal block (Screw fixed properties) P number IPX0 IP24				 	, , , , , , , , , , , , , , , , , , , ,	Hole size ϕ 20 x 3 pcs			
Recommended breaker size A — R.A. (Locked rotor ampere) A 5.0 nterconnecting wires Size x Core number φ 1.6mm x3 cores + earth cable / Terminal block (Screw fixed properties) P number IPX0 IP24	Oroin name :-			nc:==		Τισιε δίζε ψ 20 λ 3 μοδ			
R.A. (Locked rotor ampere) A 5.0 nterconnecting wires Size x Core number φ 1.6mm x3 cores + earth cable / Terminal block (Screw fixed properties) P number IPX0 IPX0	1 17					_			
nterconnecting wires Size x Core number ϕ 1.6mm x3 cores + earth cable / Terminal block (Screw fix P number IPX0 IP24									
P number IPX0 IP24	R.A. (Locked	d rotor ampere)		A	5	5.0			
	nterconnectin	g wires Size x	Core number		φ 1.6mm x3 cores + earth cable /	/ Terminal block (Screw fixing type)			
					•	IP24			
Standard accessories	Standard acce	essories			Mounting kit, Drain hose				
Option parts Motion sensor : LB-KIT				+ +	• •	L SEOT - L R-KIT			
Spring party	Sprion parts		n 1		WOUGH SET				

Item	Indoor air t	emperature	Outdoor air temperature		External static pressure	Standards
Operation	DB	WB	DB	WB	of indoor unit	Standards
Cooling	27°C	19°C	35°C	24°C	60Pa	ISO5151-T1
Heating	20°C	_	7°C	6°C	oura	ISO5151-H1

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.
- (3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
- (4) Select the breaker size according to the own national standard.
- (5) When wireless remote control is used, fan is 3 speed setting (Hi-Me-Lo) only.
- (6) The operation data indicate when the air-conditioner is operated at 230V 50Hz or 220V 60Hz. (7) The factory E.S.P. setting is set within the range of 80 150 Pa.lf SW8-4 is turned to "ON",
 - E.S.P. setting range can be changed to 10 200 Pa.(For RC-EX3A and RC-E5 only)

			Model	FDU125	VSXWVH	
Item				Indoor unit FDU125VH	Outdoor unit FDC125VSX-W	
Power source				3 Phase, 380 - 415	V 50Hz / 380V 60Hz	
	Nominal cooling capacity (ra	inae)	kW	12.5 [3.5(Min	i.) - 14.0(Max.)]	
	Nominal heating capacity (ra		kW		lin.) - 18.0(Max.)]	
		Cooling	1		.49	
	Power consumption	Heating	H kW		.61	
	Max power consumption	ricating	- ```		90	
	wax power consumption	Caalina				
	Running current	Cooling	┦. ; }		/ 5.9	
		Heating	_ A		/ 6.2	
	Inrush current, max current				16	
Operation	Power factor	Cooling	%		90	
data	1 GWGI ILGUGI	Heating	,,,		38	
	EER	Cooling		3.	.58	
	COP	Heating		3.	.88	
		Cooling		27	68	
	Sound power level	Heating		67	70	
		Cooling	-		53	
	Sound pressure level	Heating	dB(A)	P-Hi: 45 Hi: 40 Me: 34 Lo: 29	54	
	Silent mode	Cooling	-		50 /49(Normal/Silent)	
			-	_	50 /48(Normal/Silent)	
Enderstein dieser	·	Heating		000 1070 740	,	
	nsions (Height x Width x Depth)	mm	280 x 1370 x 740	1300x970x370	
Exterior appea (Munsell color				-	Stucco white (4.2Y7.5/1.1) near equivalent (RAL 7044) near equivalent	
(RAL color)			Len	54	, , ,	
Net weight			kg	54	99	
Compressor ty					RMT5134SWP4 (Twin rotary type) x 1	
· ·	notor (Starting method)		kW		Direct line start	
	(Amount, type)		L	_	0.9 (M-MB75)	
Refrigerant (T	ype, amount, pre-charge lengt	h)	kg	R32 4.0 in outdoor unit (Incl. th	e amount for the piping of 30m)	
Heat exchang	er			Louver fin & inner grooved tubing	M shape fin & inner grooved tubing	
Refrigerant co	ontrol			Electronic ex	pansion valve	
Fan type & Q'	ty			Centrifugal fan x3	Propeller fan x2	
Fan motor (Sta	arting method)		W	100 + 200 < Direct line start >	86x2 < Direct line start >	
Air flow	,	Cooling Heating	m³/min	P-Hi: 39 Hi: 32 Me: 26 Lo: 20	100	
Available exte	rnal static pressure	1	Pa	Standard: 60 Max: 200	0	
Outside air int	· · · · · · · · · · · · · · · · · · ·			Possible	_	
Air filter, Quali				Procure locally	_	
Shock & vibra	<u> </u>			Rubber sleeve(for fan motor)	Rubber sleeve (for fan motor & compressor	
Electric heater			W	nubber sieeve(for fait filotor)	20(Crank case heater)	
Electric fleater	1		VV	- (O ::) \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	,	
Operation	Remote control				, RCH-E3 Wireless : RCN-KIT4-E2	
control	Room temperature control			I hermostat i	by electronics	
	Operation display			<u> </u>	_	
Safety equipm	nents			Frost protecti Internal thermos	tion for fan motor ion thermostat stat for fan motor emperature protection	
	Refrigerant piping size (O.D)	Liquid line Gas line	mm		2 (3/8")x0.8 O/U φ 9.52 (3/8") (5/8")x1.0 φ 15.88 (5/8")	
	Connecting method	Gas III le	+ +	φ 13.66 (5/6) φ 13.66 Flare piping	Flare piping	
la stallation	Attached length of piping				ι ιαιθ μιμιιίς	
Installation data	0 11 0		m	— Nagagara (la atla l	Liquid 9 Coo lines	
udia	Insulation for piping				Liquid & Gas lines)	
	Refrigerant line (one way) ler		m		Max.100	
	Vertical height diff. between O/	J and I/U	m	Max.50 (Outdoor unit is higher)	Max.15 (Outdoor unit is lower)	
	Drain hose			Hose connectable VP25(I.D.25, O.D.32)	Hole size φ 20 x 3 pcs	
Drain pump, n	nax lift height		mm	Built-in drain pump , 600		
Recommende	ed breaker size		Α		_	
	d rotor ampere)		A		5.0	
		0 1	+		/ Terminal block (Screw fixing type)	
•	na wires Size x	Core number				
Interconnectin	ng wires Size x	Core number		•		
Interconnectin		Core number		IPX0	IP24	
Interconnectin		Core number		IPX0 Mounting kit, Drain hose	, ,,,	

Item	Indoor air t	emperature	Outdoor air temperature		External static pressure	Standards
Operation	DB	WB	DB	WB	of indoor unit	Standards
Cooling	27°C	19°C	35°C	24°C	60Pa	ISO5151-T1
Heating	20°C	_	7°C	6°C	oura	ISO5151-H1

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.
- (3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
- (4) Select the breaker size according to the own national standard.
- (5) When wireless remote control is used, fan is 3 speed setting (Hi-Me-Lo) only.
- (6) The operation data indicate when the air-conditioner is operated at 400V 50Hz or 380V 60Hz. (7) The factory E.S.P. setting is set within the range of 80 150 Pa.lf SW8-4 is turned to "ON",
 - E.S.P. setting range can be changed to 10 200 Pa.(For RC-EX3A and RC-E5 only)

			Model	FDU140	VNXWVH
Item				Indoor unit FDU140VH	Outdoor unit FDC140VNX-W
Power source				1 Phase, 220 - 240	V 50Hz / 220V 60Hz
	Nominal cooling capacity (ra	nge)	kW	14.0 [3.5(Min	.) - 16.0(Max.)]
	Nominal heating capacity (ra		kW		.) - 18.0(Max.)]
		Cooling	1		22
	Power consumption	Heating	kW		22
	May power consumption	Ticating	- "		10
	Max power consumption	Caalina			
	Running current	Cooling	⊢ . !		/ 19.4
		Heating	Α		/ 19.4
	Inrush current, max current			5,	30
Operation	Power factor	Cooling	- %	0	9
data	1 ower factor	Heating	/0	Š	15
	EER	Cooling		3.	32
	COP	Heating		3.	79
		Cooling			69
	Sound power level	Heating		70	71
		Cooling			
	Sound pressure level	Heating	dB(A)	P-Hi: 47 Hi: 40 Me: 35 Lo: 30	54
			_		50 (40/h) 1/0" 1)
	Silent mode	Cooling	_	_	50 /49(Normal/Silent)
	sound pressure level	Heating			51 /48(Normal/Silent)
Exterior dimer	nsions (Height x Width x Depth)	mm	280 x 1370 x 740	1300x970x370
Exterior appea					Stucco white
(Munsell color)			_	(4.2Y7.5/1.1) near equivalent
(RAL color)					(RAL 7044) near equivalent
Net weight			kg	54	97
Compressor to	ype & Q'ty			_	RMT5134SWP3 (Twin rotary type) x 1
Compressor n	notor (Starting method)		kW	_	Direct line start
· ·	(Amount, type)		L	_	0.9 (M-MB75)
	ype, amount, pre-charge lengt	h)	kg	P22 4 0 in outdoor unit (Incl. th	e amount for the piping of 30m)
		11)	, kg	·	
Heat exchang				Louver fin & inner grooved tubing	M shape fin & inner grooved tubing
Refrigerant co					pansion valve
Fan type & Q'	<u> </u>			Centrifugal fan x3	Propeller fan x2
Fan motor (St	arting method)		W	100 + 200 < Direct line start >	86x2 < Direct line start >
Air flow		Cooling Heating	m³/min	P-Hi: 48 Hi: 35 Me: 28 Lo: 22	100
Available exte	rnal static pressure		Pa	Standard: 60 Max: 200	0
Outside air int	ake			Possible	_
Air filter, Quali				Procure locally	_
Shock & vibra	<u> </u>		_	Rubber sleeve(for fan motor)	Rubber sleeve (for fan motor & compressor
Electric heater			W	- Tubber siecve(ior iair motor)	20(Crank case heater)
Liectific fleater			• • • • • • • • • • • • • • • • • • • •	(Ontion) Wired: DC EV2A DC EE	, RCH-E3 Wireless : RCN-KIT4-E2
Operation	Remote control				
control	Room temperature control			mermostat t	by electronics
Safety equipm	Operation display			Frost protecti Internal thermos	- tion for fan motor on thermostat stat for fan motor emperature protection
	Refrigerant piping size (O.D)	Liquid line Gas line	mm	I/U φ 9.52 (3/8") Pipe φ 9.52 φ 15.88 (5/8") φ 15.88(2 (3/8")x0.8
	Connecting method			Flare piping	Flare piping
Installation	Attached length of piping		m	——————————————————————————————————————	_
data	Insulation for piping				l Liquid & Gas lines)
	Refrigerant line (one way) ler	nath	m		Max.100
	Vertical height diff. between O/U	•	m		
		ailu I/U	m	Max.50 (Outdoor unit is higher)	Max.15 (Outdoor unit is lower)
	Drain hose			Hose connectable VP25(I.D.25, O.D.32)	Hole size φ 20 x 3 pcs
Drain pump, n			mm	Built-in drain pump , 600	_
Recommende	d breaker size		A		-
L.R.A. (Locked	d rotor ampere)		Α	5	.0
Interconnectir	ng wires Size x	Core number		φ 1.6mm x3 cores + earth cable /	/ Terminal block (Screw fixing type)
IP number				IPX0	IP24
Standard acce	essories			Mounting kit, Drain hose	
Option parts				• •	ısor : LB-KIT
Sprion parts			1	WIGHOUT SET	

The pipe length is 7.5m.

Item	Indoor air t	emperature	Outdoor air temperature		External static pressure	Standards
Operation	DB	WB	DB	WB	of indoor unit	Standards
Cooling	27°C	19°C	35°C	24°C	60Pa	ISO5151-T1
Heating	20°C	_	7°C	6°C	oura	ISO5151-H1

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.
- (3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
- (4) Select the breaker size according to the own national standard.
- (5) When wireless remote control is used, fan is 3 speed setting (Hi-Me-Lo) only.
- (6) The operation data indicate when the air-conditioner is operated at 230V 50Hz or 220V 60Hz. (7) The factory E.S.P. setting is set within the range of 80 150 Pa.lf SW8-4 is turned to "ON",
 - E.S.P. setting range can be changed to 10 200 Pa.(For RC-EX3A and RC-E5 only)

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Some source				Model	FDU140	VSXWVH	
Nominal coaling capacity (angle)	Item				Indoor unit FDU140VH	Outdoor unit FDC140VSX-W	
Nominal healthiry capacity (sargle)	Power source	1			3 Phase, 380 - 415	V 50Hz / 380V 60Hz	
Nominal healthiry capacity (sargle)		Nominal cooling capacity (ra	nae)	kW	14.0 [3.5(Min	.) - 16.0(Max.)]	
Power consumption				kW			
Forest Consumption			- 	1		, , , , , ,	
Max power consumption Running current Cooling Running current Cooling Running current Reating A 6.877.2		Power consumption		H kW			
Purvining current		Max power consumption	ricating	- ```			
Purning current Heating A 6.8.77.2		wax power consumption	Caaling				
		Running current		⊢ . ∣			
Power factor			Heating	_ A			
Power factor		Inrush current, max current					
Retail Heating Retail	Operation	Power factor					
COP	data	1 ower lactor		,,,	8	9	
Sound pressure level		EER	Cooling		3.	32	
Sound pressure level		COP	Heating		3.	79	
Fleating Cooling Heating Sound pressure level Cooling Heating Silent mode Sound pressure level Heating Fleating Silent properties Fleating Fleating Silent properties Fleating Flea			Cooling			69	
Sound pressure level		Sound power level	Heating	7	70	71	
Sound pressure level Heating Sound pressure level Sound pressure level Heating Sound pressure level Heating Sound pressure level Heating Sound pressure level Heating Heating Sound pressure level Sound pressure level Sound pressure Sound pressure Sound pressure Sound pressure Sound pressure Sound pressure level Sound pressure				⊣			
Silent mode sound pressure level Heating — \$0.49(Normal/Silent) \$51.49(Normal/Silent) \$5		Sound pressure level		dB(A)	P-Hi: 47 Hi: 40 Me: 35 Lo: 30	54	
Sound pressure level Heating		011 1		⊣		EQ. (40/N a year of /Cilla ant)	
Exterior dimensions (Height x Width x Depth)				-	_	` ,	
Carbon appearance		<u> </u>				,	
Munsell color)	Exterior dimer	nsions (Height x Width x Depth)	mm	280 x 1370 x 740		
Meximage	(Munsell color				_	(4.2Y7.5/1.1) near equivalent	
Compressor type & Cty	,					, , ,	
Compressor motor (Starting method) KW -				kg			
Refrigerant oil (Amount, type) Refrigerant (Type, amount, pre-charge length) Refrigerant length (Type, amount, pre-charge length) Refrigerant line (one way) length Refrigerant	Compressor t	type & Q'ty			_	RMT5134SWP4 (Twin rotary type) x 1	
Refrigerant (Type, amount, pre-charge length) kg R32 4.0 in outdoor unit (Incl. the amount for the piping of 30m) leat exchanger Louver fin & inner grooved tubing M shape fin & inner grooved tubing Refrigerant control Electronic expansion valve Electronic expansion valve Refrigerant control Refrigerant control Refrigerant file of the processor of the piping of 30m) P-Hi: 48 Hi: 35 Me: 28 Lo: 22 100 Novelable external static pressure Pa Standard: 60 Max: 200 0 O O O O O O O O	Compressor n	motor (Starting method)		kW	_	Direct line start	
Louver fin & inner grooved tubing M shape fin & inner grooved tubing Electronic expansion valve Centrifugal fan x3 Propeller fan x2 Can try be & Cyty Contrifugal fan x3 Propeller fan x2 Cooling Heating M shape fin & inner grooved tubing Electronic expansion valve Centrifugal fan x3 Propeller fan x2 Cooling M shape fin & inner grooved tubing Electronic expansion valve Cooling Cooling M shape fin & inner grooved tubing Electronic expansion valve Cooling Cooling Cooling M shape fin & inner grooved tubing Electronic expansion valve Cooling	Refrigerant oil	I (Amount, type)		L	_	0.9 (M-MB75)	
Louver fin & inner grooved tubing M shape fin & inner grooved tubing Electronic expansion valve Centrifugal fan x3 Propeller fan x2 Can try be & Cyty Contrifugal fan x3 Propeller fan x2 Cooling Heating M shape fin & inner grooved tubing Electronic expansion valve Centrifugal fan x3 Propeller fan x2 Cooling M shape fin & inner grooved tubing Electronic expansion valve Cooling Cooling M shape fin & inner grooved tubing Electronic expansion valve Cooling Cooling Cooling M shape fin & inner grooved tubing Electronic expansion valve Cooling	Refrigerant (T	Type, amount, pre-charge lengt	h)	ka	R32 4.0 in outdoor unit (Incl. th	e amount for the piping of 30m)	
Refrigerant control Felectronic expansion valve Centrifugal fan x3 Fropeller fan x2 Centrifugal fan x3 Fropeller fan x2 Centrifugal fan x3 Fropeller fan x2 Fropeler fan x2 Fropeller fan x2 Fropeller fan x2 Fropeller fan x2 Frop		***	,	 	·		
Contribution Contribution Cooling Heating Pa Standard: 60 Max: 200 0 0 0 0 0 0 0 0 0		<u></u>					
Fan motor (Starting method) Cooling Heating P-Hi: 48 Hi: 35 Me: 28 Lo: 22 100 Available external static pressure Pa Standard: 60 Max: 200 0 Available external static pressure Pa Standard: 60 Max: 200 0 Available external static pressure Pa Standard: 60 Max: 200 0 Available external static pressure Pa Standard: 60 Max: 200 0 Available external static pressure Pa Standard: 60 Max: 200 0 Available external static pressure Pa Standard: 60 Max: 200 0 Available external static pressure Pa Standard: 60 Max: 200 0 Available external static pressure Pa Standard: 60 Max: 200 0 Available external static pressure Pa Standard: 60 Max: 200 0 Available external static pressure Pa Standard: 60 Max: 200 0 Available external static pressure Pa Standard: 60 Max: 200 0 Available external static pressure Pa Standard: 60 Max: 200 0 Available external static pressure Pa Standard: 60 Max: 200 0 Available external static pressure Pa Standard: 60 Max: 200 0 Available external static pressure Pa Standard: 60 Max: 200 0 Available external static pressure Pa Standard: 60 Max: 200 0 Available external static pressure Pa Standard: 60 Max: 200 0 Available external static pressure Pa Standard: 60 Max: 200 0 Available external static pressure Pa Standard: 60 Max: 200 0 Available external static pressure Pa Standard: 60 Max: 200 0 Available external static pressure Pa Standard: 60 Max: 200 0 Available external static pressure Pa Standard: 60 Max: 200 0 Available external static pressure Pa Standard: 60 Max: 200 Pa							
Cooling		·		10/		•	
Heating	ran motor (St	arting method)	0 15	VV	100 + 200 < Direct line start >	60X2 < Direct line start >	
Dutside air intake	Air flow						
Air filter, Quality / Quantity — Rubber sleeve(for fan motor) Rubber sleeve (for fan motor & compressor shock & vibration absorber — 20(Crank case heater) Remote control Room temperature control		<u>'</u>		Pa		0	
Remote control Rubber sleeve (for fan motor) Rubber sleeve (for fan motor & compressor	Outside air int	take			Possible	_	
Remote control Room temperature protection temperature protection temperature protection temperature protection temperature protection temperature protection Room temperature protection temperature protection Room temperature protection for fan motor Room temperature protection Room temperature prot	Air filter, Quali	ity / Quantity			Procure locally	_	
Remote control Room temperature control Thermostat by electronics	Shock & vibra	tion absorber			Rubber sleeve(for fan motor)	Rubber sleeve (for fan motor & compressor	
Room temperature control Operation display Overload protection for fan motor Frost protection thermostat Internal thermostat Internal thermostat for fan motor Abnormal discharge temperature protection	Electric heater	r		W	_	20(Crank case heater)	
Room temperature control Operation display Overload protection for fan motor Frost protection thermostat Internal thermostat Internal thermostat for fan motor Abnormal discharge temperature protection		Remote control			(Option) Wired: RC-EX3A.RC-E5	. RCH-E3 Wireless : RCN-KIT4-E2	
Operation display Gafety equipments Application display Overload protection for fan motor Frost protection thermostat Internal thermostat for fan motor Abnormal discharge temperature protection Abnormal discharge temperature protection Abnormal discharge temperature protection Abnormal discharge temperature protection I/U \(\phi \) 9.52 (3/8") \(\phi \) 15.88 (5/8") \(\phi \) 15.88 (5/8") \(\phi \) 15.88 (5/8") Connecting method Occupating method Attached length of piping Attached length of piping Insulation for piping Refrigerant line (one way) length Wertical height diff. between O/U and I/U Drain hose Accommended breaker size A A Becommended breaker size A A A Becommended breaker size A A A Built-in drain pump, 600 Built-i	Operation	Room temperature control			Thermostat b	ov electronics	
Overload protection for fan motor Frost protection thermostat Internal thermostat for fan motor Abnormal discharge temperature protection Mefrigerant piping size (O.D) Output Refrigerant piping size (O.D) Connecting method Attached length of piping Refrigerant line (one way) length Vertical height diff. between O/U and I/U Drain hose Drain pump, max lift height Recommended breaker size A A A A Built-in drain pump, 600 P number Overload protection for fan motor Frost protection thermostat Internal thermostat for fan motor Abnormal discharge temperature protection I/U \$\phi\$ 9.52 (3/8") Pipe \$\phi\$ 9.52 (3/8")x0.8 O/U \$\phi\$ 9.52 (3/8") Overload protection thermostat Internal thermostat for fan motor Abnormal discharge temperature protection I/U \$\phi\$ 9.52 (3/8") Pipe \$\phi\$ 9.52 (3/8")x0.8 O/U \$\phi\$ 9.52 (3/8") Flare piping Flare piping Flare piping Flare piping Necessary (both Liquid & Gas lines) Min.3 , Max.100 Max.15 (Outdoor unit is lower) Hose connectable VP25(I.D.25 , O.D.32) Hole size \$\phi\$ 20 x 3 pcs Drain pump, max lift height Recommended breaker size A	control	· · · · · · · · · · · · · · · · · · ·				_	
(O.D) Gas line Mm	Safety equipm	nents			Frost protecti Internal thermos	on thermostat stat for fan motor	
Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) length Vertical height diff. between O/U and I/U Drain hose Drain pump, max lift height Recommended breaker size R.A. (Locked rotor ampere) P number Connecting method Flare piping Flare piping M — — Plare piping M — — Mounting kit, Drain hose Flare piping Flave				mm	, , , , , ,	(/ /	
Attached length of piping m — Necessary (both Liquid & Gas lines) Refrigerant line (one way) length m Max.50 (Outdoor unit is higher) Max.15 (Outdoor unit is lower) Prain hose Hose connectable VP25(I.D.25 , O.D.32) Hole size \$\phi 20 \times 3 \text{ pcs}\$ pcs of the size \$\phi 20 \times 3 \text{ pcs}\$ Prain pump, max lift height mm Built-in drain pump , 600 — Recommended breaker size A Size x Core number A Standard accessories Mounting kit, Drain hose — Nounting kit		Connecting method					
Insulation for piping Refrigerant line (one way) length Wertical height diff. between O/U and I/U Drain hose Prain pump, max lift height Recommended breaker size R.R.A. (Locked rotor ampere) Recommended wires Rize x Core number Relation for piping Refrigerant line (one way) length Responsible very length with a max so (Outdoor unit is higher) Responsible very length with a max so (Outdoor unit is higher) Responsible very length with a max so (Outdoor unit is higher) Responsible very length with a max so (Outdoor unit is higher) Responsible very length with a max so (Outdoor unit is higher) Responsible very length with a max so (Outdoor unit is higher) Responsible very length with a max so (Outdoor unit is higher) Responsible very length with side of the side of th	Inetallation			m			
Refrigerant line (one way) length m Min.3 , Max.100 Vertical height diff. between O/U and I/U m Max.50 (Outdoor unit is higher) Max.15 (Outdoor unit is lower) Drain hose Hose connectable VP25(I.D.25 , O.D.32) Hole size \$\phi 20 \times 3 \times 60 \times	data	0 11 0				iguid & Gas lines)	
Vertical height diff. between O/U and I/U m Max.50 (Outdoor unit is higher) Max.15 (Outdoor unit is lower) Drain hose Hose connectable VP25(I.D.25, O.D.32) Hole size φ 20 x 3 pcs Drain pump, max lift height mm Built-in drain pump, 600 — Recommended breaker size A — R.A. (Locked rotor ampere) A 5.0 nterconnecting wires Size x Core number φ 1.6mm x3 cores + earth cable / Terminal block (Screw fixing type) P number IPX0 IP24 Standard accessories Mounting kit, Drain hose —			nath	m			
Drain hose Hose connectable VP25(I.D.25 , O.D.32) Hole size φ 20 x 3 pcs Drain pump, max lift height mm Built-in drain pump , 600 — Recommended breaker size A — R.A. (Locked rotor ampere) A 5.0 Interconnecting wires Size x Core number φ 1.6mm x3 cores + earth cable / Terminal block (Screw fixing type) P number IPX0 IP24 Standard accessories Mounting kit, Drain hose —		1 1	•				
Drain pump, max lift height mm Built-in drain pump, 600 — Recommended breaker size A — R.A. (Locked rotor ampere) A 5.0 Interconnecting wires Size x Core number φ 1.6mm x3 cores + earth cable / Terminal block (Screw fixing type) P number IPX0 IP24 Standard accessories Mounting kit, Drain hose —			and I/U	m	, , , , , , , , , , , , , , , , , , , ,	` '	
Recommended breaker size A — R.A. (Locked rotor ampere) A 5.0 nterconnecting wires Size x Core number φ 1.6mm x3 cores + earth cable / Terminal block (Screw fixing type) P number IPX0 IP24 Standard accessories Mounting kit, Drain hose —						Hole size φ 20 x 3 pcs	
R.A. (Locked rotor ampere) A 5.0 Interconnecting wires Size x Core number φ 1.6mm x3 cores + earth cable / Terminal block (Screw fixing type) P number IPX0 IP24 Standard accessories Mounting kit, Drain hose —	1 1/				Built-in drain pump , 600	_	
nterconnecting wires Size x Core number φ 1.6mm x3 cores + earth cable / Terminal block (Screw fixing type) P number IPX0 IP24 Standard accessories Mounting kit, Drain hose —	Recommende	ed breaker size		A		-	
P number IPX0 IP24 Standard accessories Mounting kit, Drain hose —	L.R.A. (Locked	d rotor ampere)		А	5	5.0	
P number IPX0 IP24 Standard accessories Mounting kit, Drain hose —	•		Core number		φ 1.6mm x3 cores + earth cable	/ Terminal block (Screw fixing type)	
Standard accessories Mounting kit, Drain hose –	IP number	1 3.25			•	1	
		essories					
Aprili pars Midual Sensor : LD-KH		0000.100			• '	eor · I P KIT	
	Option parts				iviotion sen	301 . LD-N11	

Item	Indoor air t	emperature	Outdoor air temperature		External static pressure	Standards
Operation	DB	WB	DB	WB	of indoor unit	Standards
Cooling	27°C	19°C	35°C	24°C	60Pa	ISO5151-T1
Heating	20°C	_	7°C	6°C	oura	ISO5151-H1

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.
- (3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
- (4) Select the breaker size according to the own national standard.
- (5) When wireless remote control is used, fan is 3 speed setting (Hi-Me-Lo) only.
- (6) The operation data indicate when the air-conditioner is operated at 400V 50Hz or 380V 60Hz. (7) The factory E.S.P. setting is set within the range of 80 150 Pa.lf SW8-4 is turned to "ON",
 - E.S.P. setting range can be changed to 10 200 Pa.(For RC-EX3A and RC-E5 only)

(4) Duct connected-Low / Middle static pressure type (FDUM) (a) Single type

			Model		0VNXWVH
Item				Indoor unit FDUM100VH	Outdoor unit FDC100VNX-W
Power source				1 Phase, 220 - 240	V 50Hz / 220V 60Hz
	Nominal cooling capacity (ra	nge)	kW		n.) - 11.2(Max.)]
	Nominal heating capacity (ra	inge)	kW	11.2 [2.7(Mir	n.) - 12.5(Max.)]
	Power consumption	Cooling		2	.59
	1 ower consumption	Heating	kW	2	.63
	Max power consumption		7 [7	.10
	Durania a surrent	Cooling		11.5	/ 12.0
	Running current	Heating	7 A	11.6	/ 12.1
	Inrush current, max current		-	5,	26
Operation		Cooling	1		98
data	Power factor	Heating	- %		99
	EER	Cooling	+ +		.86
	COP	Heating	⊣ ⊦		.26
		Cooling	+		
	Sound power level	Heating	-	65	67
			┥ ト		50
	Sound pressure level	Cooling	dB(A)	P-Hi: 44 Hi: 38 Me: 36 Lo: 30	53
		Heating	-		51
	Silent mode	Cooling	-	_	49 /48(Normal/Silent)
	sound pressure level	Heating			48 /48(Normal/Silent)
Exterior dime	nsions (Height x Width x Depth))	mm	280 x 1370 x 740	1300x970x370
Exterior appe					Stucco white
(Munsell color	r)			_	(4.2Y7.5/1.1) near equivalent
(RAL color)					(RAL 7044) near equivalent
Net weight			kg	54	97
Compressor t				_	RMT5134SWP3 (Twin rotary type) x 1
Compressor r	motor (Starting method)		kW	_	Direct line start
Refrigerant oi	I (Amount, type)		L	_	0.9 (M-MB75)
Refrigerant (1	Type, amount, pre-charge lengtl	h)	kg	R32 4.0 in outdoor unit (Incl. th	ne amount for the piping of 30m)
Heat exchang	ger			Louver fin & inner grooved tubing	M shape fin & inner grooved tubing
Refrigerant co	ontrol			Electronic ex	pansion valve
Fan type & Q'	'ty			Centrifugal fan x3	Propeller fan x2
	tarting method)		W	100 + 130 < Direct line start >	86x2 < Direct line start >
Air flow	,	Cooling Heating	m³/min	P-Hi: 36 Hi: 28 Me: 25 Lo: 19	100
Available exte	ernal static pressure	1.1049	Pa	Standard: 60 Max: 100	0
Outside air int			1 " 4	Possible	_
Air filter, Quali			+	Procure locally	
	ation absorber		+ +	Rubber sleeve(for fan motor)	Dubbar alagua (for fan matar 8 gampragaar
Electric heate			W	hubber sieeve(for fait filotor)	Rubber sleeve (for fan motor & compressor
Electric neate			VV	- (O ::) \\ \\ \ \ \ \ \ \ \ \ \ \ \ \ \ \	20(Crank case heater)
Operation	Remote control				5, RCH-E3 Wireless : RCN-KIT4-E2
control	Room temperature control		1	Thermostat	by electronics
	Operation display			<u> </u>	_
Safety equipn	nents			Frost protect Internal thermos	tion for fan motor ion thermostat stat for fan motor temperature protection
	Refrigerant piping size	Liquid line	pe	I/U φ 9.52 (3/8") Pipe φ 9.5	2 (3/8")x0.8 O/U φ 9.52 (3/8")
	(O.D)	Gas line	mm	φ 15.88 (5/8") φ 15.88	(5/8")x1.0 φ 15.88 (5/8")
	Connecting method			Flare piping	Flare piping
Installation	Insulation for piping				Liquid & Gas lines)
data	Refrigerant line (one way) ler	ngth	m		Max.100
	Vertical height diff. between O/L		m	Max.50 (Outdoor unit is higher)	Max.15 (Outdoor unit is lower)
	Drain hose			Hose connectable VP25(I.D.25, O.D.32)	Hole size ϕ 20 x 3 pcs
Drain numn r	max lift height		mm	Built-in drain pump, 600	
	ed breaker size		A		<u> </u>
,	d rotor ampere)	Oana m. 15-1-	A		5.0
Interconnectir	ig wires Size x	Core number	1		/ Terminal block (Screw fixing type)
IP number			+	IPX0	IP24
	essories			Mounting kit, Drain hose	IP24 - , Motion sensor : LB-KIT

Notes (1) The data are measured at the following conditions.

Item	Indoor air t	emperature	Outdoor air temperature		External static pressure	Standards
Operation	DB	WB	DB	WB	of indoor unit	Standards
Cooling	27°C	19°C	35°C	24°C	60Pa	ISO5151-T1
Heating	20°C	_	7℃	6°C	oura	ISO5151-H1

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.
 (3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
 (4) Select the breaker size according to the own national standard.
 (5) The operation data indicate when the air-conditioner is operated at 230V 50Hz or 220V 60Hz.
 (6) Static pressure of option air filter "UM-FL3EF" is 5Pa initially.
 (7) The external static pressure setting can be changed to 10-100Pa. (For RC-EX3A and RC-E5 only)

			Model	FDUM100VSXWVH		
Item				Indoor unit FDUM100VH	Outdoor unit FDC100VSX-W	
Power source				3 Phase, 380 - 415	V 50Hz / 380V 60Hz	
	Nominal cooling capacity (ra	inge)	kW	10.0 [3.5(Min) - 11.2(Max.)]	
	Nominal heating capacity (ra	inge)	kW	11.2 [2.7(Min) - 16.0(Max.)]	
		Cooling			59	
	Power consumption	Heating	kW	2.	63	
	Max power consumption		1 1	8.	90	
		Cooling			/ 4.6	
	Running current	Heating	A		/ 4.6	
	Inrush current, max current	Trouting			15	
Operation	mash carrent, max carrent	Cooling			5	
Operation data	Power factor	Heating	- %		6	
data	EER					
	COP	Cooling			86 26	
	COP	Heating		4.	20 	
	Sound power level	Cooling	_	65	67	
	·	Heating	_			
	Sound pressure level	Cooling	dB(A)	P-Hi: 44 Hi: 38 Me: 36 Lo: 30	53	
		Heating	」゜` ′		51	
	Silent mode	Cooling	_	_	49 /48(Normal/Silent)	
	sound pressure level	Heating			48 /48(Normal/Silent)	
Exterior dimen	nsions (Height x Width x Depth)	mm	280 x 1370 x 740	1300x970x370	
Exterior appea					Stucco white	
(Munsell color))			_	(4.2Y7.5/1.1) near equivalent	
(RAL color)					(RAL 7044) near equivalent	
Net weight			kg	54	99	
Compressor ty	pe & Q'ty			_	RMT5134SWP4 (Twin rotary type) x 1	
Compressor m	notor (Starting method)		kW	_	Direct line start	
Refrigerant oil	(Amount, type)		L	_	0.9 (M-MB75)	
Refrigerant (Ty	ype, amount, pre-charge lengt	h)	kg	R32 4.0 in outdoor unit (Incl. th	e amount for the piping of 30m)	
Heat exchange	er			Louver fin & inner grooved tubing	M shape fin & inner grooved tubing	
Refrigerant cor	ntrol		i	Electronic ex	pansion valve	
Fan type & Q't	ty			Centrifugal fan x3	Propeller fan x2	
Fan motor (Sta	arting method)		W	100 + 130 < Direct line start >	86x2 < Direct line start >	
,	,	Cooling	2			
Air flow		Heating	m³/min	P-Hi: 36 Hi: 28 Me: 25 Lo: 19	100	
Available exter	rnal static pressure	1 3	Pa	Standard: 60 Max: 100	0	
Outside air inta	· · · · · · · · · · · · · · · · · · ·			Possible	_	
Air filter, Qualit			1	Procure locally	_	
Shock & vibrat	· · · · · · · · · · · · · · · · · · ·			Rubber sleeve(for fan motor)	Rubber sleeve (for fan motor & compressor	
Electric heater			W	—	20(Crank case heater)	
LICOTIO FICATOR	Remote control		**	(Ontion) Wired : RC-EY3A RC-E5	, RCH-E3 Wireless : RCN-KIT4-E2	
Operation	Room temperature control			· · · · · · · · · · · · · · · · · · ·	by electronics	
control	Operation display			memostat t	y electionics	
					ion for fan mater	
	Operation display		1 1			
	, , , , ,			Overload protect		
Safety equipm	, , , , ,			Frost protecti	on thermostat tat for fan motor	
Safety equipm	, , , , ,			Frost protecti Internal thermos	on thermostat	
Safety equipm	, , , , ,	Liquid line		Frost protecti Internal thermos	on thermostat tat for fan motor emperature protection	
Safety equipm	nents	Liquid line Gas line	mm -	Frost protecti Internal thermos Abnormal discharge t I/U φ 9.52 (3/8") Pipe φ 9.5:	on thermostat tat for fan motor emperature protection	
	nents Refrigerant piping size		_ mm	Frost protecti Internal thermos Abnormal discharge t I/U φ 9.52 (3/8") Pipe φ 9.5:	on thermostat tat for fan motor emperature protection 2 (3/8")x0.8 O/U φ 9.52 (3/8")	
Installation	Refrigerant piping size (O.D)		_ mm -	Frost protecti Internal thermos Abnormal discharge to I/U φ 9.52 (3/8") Pipe φ 9.52 φ 15.88 (5/8") φ 15.88(Flare piping	on thermostat tat for fan motor emperature protection 2 (3/8")x0.8 O/U \(\phi \) 9.52 (3/8") 5/8")x1.0 \(\phi \) 15.88 (5/8") Flare piping	
	Refrigerant piping size (O.D) Connecting method	Gas line	mm ·	Frost protecti Internal thermos Abnormal discharge t I/U φ 9.52 (3/8") Pipe φ 9.5: φ 15.88 (5/8") φ 15.88(Flare piping	on thermostat tat for fan motor emperature protection 2 (3/8")x0.8 O/U \(\phi \) 9.52 (3/8") 5/8")x1.0 \(\phi \) 15.88 (5/8")	
Installation	Refrigerant piping size (O.D) Connecting method Insulation for piping Refrigerant line (one way) ler	Gas line	m	Frost protecti Internal thermos Abnormal discharge t I/U φ 9.52 (3/8") Pipe φ 9.5: φ 15.88 (5/8") φ 15.88 Flare piping Necessary (both I Min.3, I	on thermostat tat for fan motor emperature protection 2 (3/8")x0.8	
Installation	Refrigerant piping size (O.D) Connecting method Insulation for piping Refrigerant line (one way) ler Vertical height diff. between O/N	Gas line		Frost protecti Internal thermos Abnormal discharge t I/U \(\phi \) 9.52 (3/8") Pipe \(\phi \) 9.53 \(\phi \) 15.88 (5/8") \(\phi \) 15.88 (Flare piping Necessary (both I Min.3 , I Max.50 (Outdoor unit is higher)	on thermostat tat for fan motor emperature protection 2 (3/8")x0.8 O/U φ 9.52 (3/8") 5/8")x1.0 φ 15.88 (5/8") Flare piping Liquid & Gas lines) Max.100 Max.15 (Outdoor unit is lower)	
Installation data	Refrigerant piping size (O.D) Connecting method Insulation for piping Refrigerant line (one way) ler Vertical height diff. between O/L Drain hose	Gas line	m m	Frost protecti Internal thermos Abnormal discharge to I/U \$\phi\$ 9.52 (3/8") Pipe \$\phi\$ 9.55 \$\phi\$ 15.88 (5/8") \$\phi\$ 15.88 (5/8") \$\phi\$ 15.88 (5/8") Pipe \$\phi\$ 15.88 (5/8") \$\phi\$	on thermostat tat for fan motor emperature protection 2 (3/8")x0.8	
Installation data Drain pump, m	Refrigerant piping size (O.D) Connecting method Insulation for piping Refrigerant line (one way) ler Vertical height diff. between O/L Drain hose nax lift height	Gas line	m m	Frost protecti Internal thermos Abnormal discharge t I/U \(\phi \) 9.52 (3/8") Pipe \(\phi \) 9.53 \(\phi \) 15.88 (5/8") \(\phi \) 15.88 (Flare piping Necessary (both I Min.3 , I Max.50 (Outdoor unit is higher)	on thermostat tat for fan motor emperature protection 2 (3/8")x0.8 O/U φ 9.52 (3/8") 5/8")x1.0 φ 15.88 (5/8") Flare piping Liquid & Gas lines) Max.100 Max.15 (Outdoor unit is lower)	
Installation data Drain pump, m Recommended	Refrigerant piping size (O.D) Connecting method Insulation for piping Refrigerant line (one way) ler Vertical height diff. between O/L Drain hose nax lift height d breaker size	Gas line	m m m	Frost protecti Internal thermos Abnormal discharge to Market Pipe 49.52 (3/8") Pipe 49.55 (3/8") Pipe	on thermostat tat for fan motor emperature protection 2 (3/8")x0.8 O/U φ 9.52 (3/8") 5/8")x1.0 φ 15.88 (5/8") Flare piping iquid & Gas lines) Max.100 Max.15 (Outdoor unit is lower) Hole size φ 20 x 3 pcs	
Installation data Drain pump, m Recommended L.R.A. (Locked	Refrigerant piping size (O.D) Connecting method Insulation for piping Refrigerant line (one way) ler Vertical height diff. between O/L Drain hose nax lift height d breaker size	Gas line ngth J and I/U	m m	Frost protecti Internal thermos Abnormal discharge t I/U ϕ 9.52 (3/8") Pipe ϕ 9.52 ϕ 15.88 (5/8") ϕ 15.88 (Flare piping Necessary (both I Min.3 , I Max.50 (Outdoor unit is higher) Hose connectable VP25(I.D.25 , O.D.32) Built-in drain pump , 600	on thermostat tat for fan motor emperature protection 2 (3/8")x0.8 O/U \(\phi \) 9.52 (3/8") 5/8")x1.0 \(\phi \) 15.88 (5/8") Flare piping Liquid & Gas lines) Max.100 Max.15 (Outdoor unit is lower) Hole size \(\phi \) 20 x 3 pcs	
Installation data Drain pump, m Recommended L.R.A. (Locked Interconnection	Refrigerant piping size (O.D) Connecting method Insulation for piping Refrigerant line (one way) ler Vertical height diff. between O/L Drain hose nax lift height d breaker size	Gas line	m m m	Frost protecti Internal thermos Abnormal discharge t I/U ϕ 9.52 (3/8") Pipe ϕ 9.52 ϕ 15.88 (5/8") ϕ 15.88 (Flare piping Necessary (both I Min.3 , I Max.50 (Outdoor unit is higher) Hose connectable VP25(I.D.25 , O.D.32) Built-in drain pump , 600 ϕ 1.6mm x 3 cores + earth cable	on thermostat tat for fan motor emperature protection 2 (3/8")x0.8 O/U \$\phi\$ 9.52 (3/8") 5/8")x1.0 \$\phi\$ 15.88 (5/8") Flare piping .iquid & Gas lines) Max.100 Max.15 (Outdoor unit is lower) Hole size \$\phi\$ 20 x 3 pcs	
Drain pump, m Recommended L.R.A. (Locked Interconnecting IP number	Refrigerant piping size (O.D) Connecting method Insulation for piping Refrigerant line (one way) ler Vertical height diff. between O/I Drain hose nax lift height d breaker size d rotor ampere) g wires Size x	Gas line ngth J and I/U	m m m	Frost protecti Internal thermos Abnormal discharge t I/U ϕ 9.52 (3/8") Pipe ϕ 9.52 ϕ 15.88 (5/8") ϕ 15.88 (Flare piping Necessary (both I Min.3 , I Max.50 (Outdoor unit is higher) Hose connectable VP25(I.D.25 , O.D.32) Built-in drain pump , 600 ϕ 1.6mm x 3 cores + earth cable IPX0	on thermostat tat for fan motor emperature protection 2 (3/8")x0.8 O/U \$\phi\$ 9.52 (3/8") 5/8")x1.0 \$\phi\$ 15.88 (5/8") Flare piping .iquid & Gas lines) Max.100 Max.15 (Outdoor unit is lower) Hole size \$\phi\$ 20 x 3 pcs	
Drain pump, m Recommendee L.R.A. (Locked Interconnection	Refrigerant piping size (O.D) Connecting method Insulation for piping Refrigerant line (one way) ler Vertical height diff. between O/I Drain hose nax lift height d breaker size d rotor ampere) g wires Size x	Gas line ngth J and I/U	m m m	Frost protecti Internal thermos Abnormal discharge the Abnormal	on thermostat tat for fan motor emperature protection 2 (3/8")x0.8	

- (·) ····									
Item		Indoor air t	Indoor air temperature		temperature	External static pressure	Standards		
	Operation	DB	WB	DB	WB	of indoor unit	Standards		
	Cooling	27°C	19°C	35°C	24°C	60Pa	ISO5151-T1		
	Heating	20°C	_	7°C	6°C	60Fa	ISO5151-H1		

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.
 (3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
 (4) Select the breaker size according to the own national standard.
 (5) The operation data indicate when the air-conditioner is operated at 400V 50Hz or 380V 60Hz.
 (6) Static pressure of option air filter "UM-FL3EF" is 5Pa initially.
 (7) The external static pressure setting can be changed to 10-100Pa. (For RC-EX3A and RC-E5 only)

			Model	FDUM125	SVNXWVH			
Item				Indoor unit FDUM125VH	Outdoor unit FDC125VNX-W			
Power source				1 Phase, 220 - 240	V 50Hz / 220V 60Hz			
	Nominal cooling capacity (ra	ange)	kW	12.5 [3.5(Min	.) - 14.0(Max.)]			
	Nominal heating capacity (ra	ange)	kW	14.0 [2.7(Min	.) - 17.0(Max.)]			
		Cooling		3.49				
	Power consumption	Heating	kW	3.	61			
	Max power consumption		1	7.	10			
		Cooling	1		/ 16.0			
	Running current	Heating	A		/ 16.6			
	Inrush current, max current	riodaling			28			
Operation	masir carrent, max carrent	Cooling	+ +	•	9			
data	Power factor	Heating	- %		9			
data	EER	Cooling	+ +		58			
	COP		- -		88			
	COP	Heating	+ +	3.	T			
	Sound power level	Cooling	-	67	68			
		Heating	-		70			
	Sound pressure level	Cooling	dB(A)	P-Hi: 45 Hi: 40 Me: 34 Lo: 29	53			
		Heating	J ` ` /		54			
	Silent mode	Cooling	_	_	50 /49(Normal/Silent)			
	sound pressure level	Heating			50 /48(Normal/Silent)			
Exterior dimen	nsions (Height x Width x Depth	1)	mm	280 x 1370 x 740	1300x970x370			
Exterior appea	arance				Stucco white			
(Munsell color))			_	(4.2Y7.5/1.1) near equivalent			
(RAL color)					(RAL 7044) near equivalent			
Net weight			kg	54	97			
Compressor ty	ype & Q'ty			_	RMT5134SWP3 (Twin rotary type) x 1			
Compressor m	notor (Starting method)		kW	_	Direct line start			
Refrigerant oil	(Amount, type)		L	_	0.9 (M-MB75)			
Refrigerant (Ty	ype, amount, pre-charge lengt	th)	kg	R32 4.0 in outdoor unit (Incl. th	e amount for the piping of 30m)			
Heat exchange	er			Louver fin & inner grooved tubing	M shape fin & inner grooved tubing			
Refrigerant co	ntrol			Electronic ex	pansion valve			
Fan type & Q't	ty		1	Centrifugal fan x3	Propeller fan x2			
Fan motor (Sta	arting method)		W	100 + 200 < Direct line start >	86x2 < Direct line start >			
,	3	Cooling	2.					
Air flow		Heating	m³/min	P-Hi: 39 Hi: 32 Me: 26 Lo: 20	100			
Available exter	rnal static pressure	1.104419	Pa	Standard: 60 Max: 100	0			
Outside air inta	<u> </u>		1 1	Possible	_			
Air filter, Qualit			+ +	Procure locally	_			
Shock & vibrat	<u> </u>		+	Rubber sleeve(for fan motor)	Rubber sleeve (for fan motor & compressor			
OHOCK & VIDIGI			W	- Trabber siecve(ior fair motor)	20(Crank case heater)			
Flectric heater			, vv	-				
Electric heater	,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		(Option) Wired - DC EV2A DC E5	,			
Electric heater Operation	Remote control			· · · · · · · · · · · · · · · · · · ·	, RCH-E3 Wireless : RCN-KIT4-E2			
	Remote control Room temperature control			· · · · · · · · · · · · · · · · · · ·	,			
Operation	Remote control			Thermostat b	, RCH-E3 Wireless : RCN-KIT4-E2 by electronics			
Operation	Remote control Room temperature control			Thermostat b	, RCH-E3 Wireless : RCN-KIT4-E2 by electronics - tion for fan motor			
Operation	Remote control Room temperature control Operation display			Thermostat b Overload protect Frost protecti	, RCH-E3 Wireless : RCN-KIT4-E2 by electronics			
Operation control	Remote control Room temperature control Operation display			Thermostat b Overload protect Frost protecti Internal thermos	, RCH-E3 Wireless : RCN-KIT4-E2 by electronics tion for fan motor on thermostat			
Operation control	Remote control Room temperature control Operation display ents	Liquid line		Thermostat b Overload protect Frost protecti Internal thermos	, RCH-E3 Wireless : RCN-KIT4-E2 by electronics tion for fan motor on thermostat stat for fan motor emperature protection			
Operation control	Remote control Room temperature control Operation display	Liquid line Gas line	mm -	Thermostat by Coverload protect Frost protection Internal thermost Abnormal discharge to I/U \$\phi\$ 9.52 (3/8") Pipe \$\phi\$ 9.52	, RCH-E3 Wireless : RCN-KIT4-E2 by electronics tion for fan motor on thermostat stat for fan motor emperature protection			
Operation control Safety equipm	Remote control Room temperature control Operation display ents Refrigerant piping size		- mm -	Thermostat by Coverload protect Frost protection Internal thermost Abnormal discharge to I/U \$\phi\$ 9.52 (3/8") Pipe \$\phi\$ 9.52	, RCH-E3 Wireless : RCN-KIT4-E2 by electronics tion for fan motor on thermostat stat for fan motor emperature protection 2 (3/8")x0.8 O/U φ 9.52 (3/8")			
Operation control Safety equipm	Remote control Room temperature control Operation display ents Refrigerant piping size (O.D) Connecting method		- mm -	Thermostat b Overload protect Frost protecti Internal thermos Abnormal discharge t I/U φ 9.52 (3/8") Pipe φ 9.5: φ 15.88 (5/8") φ 15.88(Flare piping	RCH-E3 Wireless: RCN-KIT4-E2 by electronics - tion for fan motor on thermostat stat for fan motor emperature protection 2 (3/8")x0.8 O/U φ 9.52 (3/8") 5/8")x1.0 φ 15.88 (5/8") Flare piping			
Operation control Safety equipm	Remote control Room temperature control Operation display ents Refrigerant piping size (O.D) Connecting method Insulation for piping	Gas line		Thermostat b Overload protect Frost protecti Internal thermos Abnormal discharge t I/U φ 9.52 (3/8") Pipe φ 9.5: φ 15.88 (5/8") φ 15.88(Flare piping Necessary (both I	, RCH-E3 Wireless : RCN-KIT4-E2 by electronics - tion for fan motor on thermostat stat for fan motor emperature protection 2 (3/8")x0.8 O/U \(\phi \) 9.52 (3/8") (5/8")x1.0 \(\phi \) 15.88 (5/8") Flare piping iquid & Gas lines)			
Operation control Safety equipm	Remote control Room temperature control Operation display Tents Refrigerant piping size (O.D) Connecting method Insulation for piping Refrigerant line (one way) le	Gas line	m	Thermostat be a considered with the constant of the constant o	RCH-E3 Wireless: RCN-KIT4-E2 by electronics tion for fan motor on thermostat stat for fan motor emperature protection 2 (3/8")x0.8			
Operation control Safety equipm	Remote control Room temperature control Operation display Tents Refrigerant piping size (O.D) Connecting method Insulation for piping Refrigerant line (one way) le Vertical height diff. between O/	Gas line		Thermostat be a control of the cont	RCH-E3 Wireless: RCN-KIT4-E2 by electronics - tion for fan motor on thermostat stat for fan motor emperature protection 2 (3/8")x1.0 φ 15.88 (5/8") Flare piping Liquid & Gas lines) Max.100 Max.15 (Outdoor unit is lower)			
Operation control Safety equipm Installation data	Remote control Room temperature control Operation display Tents Refrigerant piping size (O.D) Connecting method Insulation for piping Refrigerant line (one way) le Vertical height diff. between O/ Drain hose	Gas line	m m	Thermostat be a connectable VP25(I.D.25 , O.D.32) Thermostat be a connectable VP25(I.D.25 , O.D.32) Overload protect Frost protecti Internal thermos Abnormal discharge to I/U φ 9.52 (3/8") Pipe φ 9.5. φ 15.88 (5/8") φ 15.88 (Flare piping Necessary (both Internal Min.3 , Internal Max.50 (Outdoor unit is higher)	RCH-E3 Wireless: RCN-KIT4-E2 by electronics tion for fan motor on thermostat stat for fan motor emperature protection 2 (3/8")x0.8			
Operation control Safety equipm Installation data Drain pump, m	Remote control Room temperature control Operation display nents Refrigerant piping size (O.D) Connecting method Insulation for piping Refrigerant line (one way) le Vertical height diff. between O/ Drain hose nax lift height	Gas line	m m	Thermostat be a control of the cont	RCH-E3 Wireless: RCN-KIT4-E2 by electronics - tion for fan motor on thermostat stat for fan motor emperature protection 2 (3/8")x1.0 φ 15.88 (5/8") Flare piping Liquid & Gas lines) Max.100 Max.15 (Outdoor unit is lower)			
Operation control Safety equipm Installation data Drain pump, m Recommended	Remote control Room temperature control Operation display Inents Refrigerant piping size (O.D) Connecting method Insulation for piping Refrigerant line (one way) le Vertical height diff. between O/ Drain hose nax lift height d breaker size	Gas line	m m m	Thermostat be a contract of the contract of t	RCH-E3 Wireless: RCN-KIT4-E2 by electronics tion for fan motor on thermostat stat for fan motor emperature protection 2 (3/8")x0.8 O/U φ 9.52 (3/8") 5/8")x1.0 φ 15.88 (5/8") Flare piping iquid & Gas lines) Max.100 Max.15 (Outdoor unit is lower) Hole size φ 20 x 3 pcs			
Operation control Safety equipm Installation data Drain pump, m Recommended L.R.A. (Locked	Remote control Room temperature control Operation display Inents Refrigerant piping size (O.D) Connecting method Insulation for piping Refrigerant line (one way) le Vertical height diff. between O/Drain hose max lift height d breaker size d rotor ampere)	Gas line ngth U and I/U	m m	Thermostat be Overload protect Frost protecti Internal thermost Abnormal discharge to 1/U φ 9.52 (3/8") Pipe φ 9.52 (3/8") Pipe φ 9.53 φ 15.88 (5/8") φ 15.88 (Flare piping Necessary (both I Min.3 , 1 Max.50 (Outdoor unit is higher) Hose connectable VP25(I.D.25 , O.D.32) Built-in drain pump , 600	RCH-E3 Wireless: RCN-KIT4-E2 by electronics tion for fan motor on thermostat stat for fan motor emperature protection 2 (3/8")x0.8 O/U φ 9.52 (3/8") 5/8")x1.0 φ 15.88 (5/8") Flare piping iquid & Gas lines) Max.100 Max.15 (Outdoor unit is lower) Hole size φ 20 x 3 pcs			
Operation control Safety equipm Installation data Drain pump, m Recommendee L.R.A. (Locked Interconnectine)	Remote control Room temperature control Operation display Inents Refrigerant piping size (O.D) Connecting method Insulation for piping Refrigerant line (one way) le Vertical height diff. between O/Drain hose max lift height d breaker size d rotor ampere)	Gas line	m m m	Thermostat be Overload protect Frost protecti Internal thermost Abnormal discharge to 1/U φ 9.52 (3/8") Pipe φ 9.52 (3/8") Pipe φ 9.53 φ 15.88 (5/8") φ 15.88 (Flare piping Necessary (both I Min.3, 1 Max.50 (Outdoor unit is higher) Hose connectable VP25(I.D.25, O.D.32) Built-in drain pump, 600	, RCH-E3 Wireless : RCN-KIT4-E2 by electronics - tion for fan motor on thermostat tat for fan motor emperature protection 2 (3/8")x0.8 O/U φ 9.52 (3/8") 5/8")x1.0 φ 15.88 (5/8") Flare piping iquid & Gas lines) Max.100 Max.15 (Outdoor unit is lower) Hole size φ 20 x 3 pcs			
Operation control Safety equipm Installation data Drain pump, m Recommendee L.R.A. (Locked Interconnectin IP number	Remote control Room temperature control Operation display The second control Operation display Operated control Operation display Opera	Gas line ngth U and I/U	m m m	Thermostat be Overload protect Frost protecti Internal thermost Abnormal discharge to 1/U φ 9.52 (3/8") Pipe φ 9.52 (3/8") Pipe φ 9.53 φ 15.88 (5/8") φ 15.88 (Flare piping Necessary (both I Min.3 , 1 Max.50 (Outdoor unit is higher) Hose connectable VP25(I.D.25 , O.D.32) Built-in drain pump , 600 φ 1.6mm x 3 cores + earth cable IPX0	RCH-E3 Wireless: RCN-KIT4-E2 by electronics tion for fan motor on thermostat stat for fan motor emperature protection 2 (3/8")x0.8 O/U φ 9.52 (3/8") 5/8")x1.0 φ 15.88 (5/8") Flare piping iquid & Gas lines) Max.100 Max.15 (Outdoor unit is lower) Hole size φ 20 x 3 pcs			
Operation control Safety equipm Installation data Drain pump, m Recommendee L.R.A. (Locked Interconnectine)	Remote control Room temperature control Operation display The second control Operation display Operated control Operation display Opera	Gas line ngth U and I/U	m m m	Thermostat by Overload protect Frost protecting Internal thermost Abnormal discharge to 1/U φ 9.52 (3/8") Pipe φ 9.52 (3/8") Pipe φ 9.53 φ 15.88 (5/8") φ 15.88 (Flare piping Necessary (both In Min.3, 1/1 Max.50 (Outdoor unit is higher) Hose connectable VP25(I.D.25, O.D.32) Built-in drain pump, 600 φ 1.6mm x 3 cores + earth cable IPX0 Mounting kit, Drain hose	, RCH-E3 Wireless : RCN-KIT4-E2 by electronics tion for fan motor on thermostat stat for fan motor emperature protection 2 (3/8")x0.8 O/U φ 9.52 (3/8") 5/8")x1.0 φ 15.88 (5/8") Flare piping iquid & Gas lines) Max.100 Max.15 (Outdoor unit is lower) Hole size φ 20 x 3 pcs —			

Item	Indoor air temperature		Outdoor air	temperature	External static pressure	Standards
Operation	DB	WB	DB	WB	of indoor unit	Standards
Cooling	27°C	19°C	35°C	24°C	60Pa	ISO5151-T1
Heating	20°C	_	7℃	6°C	oura	ISO5151-H1

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.
 (3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
 (4) Select the breaker size according to the own national standard.
 (5) The operation data indicate when the air-conditioner is operated at 230V 50Hz or 220V 60Hz.
 (6) Static pressure of option air filter "UM-FL3EF" is 5Pa initially.
 (7) The external static pressure setting can be changed to 10-100Pa. (For RC-EX3A and RC-E5 only)

			Model	FDUM125	5VSXWVH			
Item				Indoor unit FDUM125VH	Outdoor unit FDC125VSX-W			
Power source				3 Phase, 380 - 415	V 50Hz / 380V 60Hz			
	Nominal cooling capacity (ra	nge)	kW	12.5 [3.5(Min	.) - 14.0(Max.)]			
	Nominal heating capacity (ra	inge)	kW	14.0 [2.7(Min	.) - 18.0(Max.)]			
		Cooling		3.49				
	Power consumption	Heating	kW	3.	61			
	Max power consumption		7	8.	90			
		Cooling			/ 5.9			
	Running current	Heating	A		/ 6.2			
	Inrush current, max current	Trouting	- ^		16			
Operation	musir current, max current	Cooling			00			
Operation data	Power factor	Heating	- %		38			
data	FED				·			
	EER COP	Cooling	-		58			
	СОР	Heating		3.	88			
	Sound power level	Cooling	_	67	68			
		Heating	_	·	70			
	Sound pressure level	Cooling	dB(A)	P-Hi: 45 Hi: 40 Me: 34 Lo: 29	53			
	Court process to term	Heating	_		54			
	Silent mode	Cooling		_	50 /49(Normal/Silent)			
	sound pressure level	Heating			50 /48(Normal/Silent)			
Exterior dimer	nsions (Height x Width x Depth)	mm	280 x 1370 x 740	1300x970x370			
Exterior appea	arance				Stucco white			
(Munsell color	r)			_	(4.2Y7.5/1.1) near equivalent			
(RAL color)					(RAL 7044) near equivalent			
Net weight			kg	54	99			
Compressor t	ype & Q'ty			_	RMT5134SWP4 (Twin rotary type) x 1			
Compressor n	notor (Starting method)		kW	_	Direct line start			
Refrigerant oil	(Amount, type)		L	_	0.9 (M-MB75)			
Refrigerant (T	ype, amount, pre-charge lengt	h)	kg	R32 4.0 in outdoor unit (Incl. th	e amount for the piping of 30m)			
Heat exchang	er			Louver fin & inner grooved tubing	M shape fin & inner grooved tubing			
Refrigerant co					pansion valve			
Fan type & Q'				Centrifugal fan x3	Propeller fan x2			
	arting method)		W	100 + 200 < Direct line start >	86x2 < Direct line start >			
Tarrinotor (ot	arting methody	Cooling		100 + 200 \ Direct line start >	OOXE \ Direct inte start >			
Air flow		Heating	m³/min	P-Hi: 39 Hi: 32 Me: 26 Lo: 20	100			
Available exte	rnal static pressure		Pa	Standard: 60 Max: 100	0			
Outside air int	ake			Possible	_			
Air filter, Quali	ty / Quantity			Procure locally	_			
Shock & vibra	tion absorber			Rubber sleeve(for fan motor)	Rubber sleeve (for fan motor & compressor			
Electric heater	r		W	_	20(Crank case heater)			
	Remote control			(Option) Wired: RC-EX3A.RC-E5	, RCH-E3 Wireless : RCN-KIT4-E2			
Operation	Room temperature control			Thermostat b	by electronics			
control	Operation display			-	. <u>*</u> =			
	Table 1			Overload protect	tion for fan motor			
Cofoti comina					on thermostat			
Safety equipm	ients				stat for fan motor			
					emperature protection			
	Refrigerant piping size	Liquid line	mm	I/U φ 9.52 (3/8") Pipe φ 9.53	(/ / /			
	(O.D)	Gas line		φ 15.88 (5/8") φ 15.88((5/8")x1.0 φ 15.88 (5/8")			
Installation	Connecting method			Flare piping	Flare piping			
data	Insulation for piping			Necessary (both I	iquid & Gas lines)			
uaiu	Refrigerant line (one way) ler	ngth	m	Min.3 , l	Max.100			
	Vertical height diff. between O/L	J and I/U	m	Max.50 (Outdoor unit is higher)	Max.15 (Outdoor unit is lower)			
	Drain hose			Hose connectable VP25(I.D.25, O.D.32)	Hole size φ 20 x 3 pcs			
Drain pump, n	nax lift height		mm	Built-in drain pump , 600	_			
	d breaker size		Α	-	<u> </u>			
	d rotor ampere)		A		5.0			
Interconnectin	· · · · ·	Core number	'		/ Terminal block (Screw fixing type)			
IP number	.goo	COTO HUITIDOI	+ +	Ψ 1.0Hill x 3 coles + earth cable	IP24			
Standard acce	ossorios		+ -	Mounting kit, Drain hose	IF24			
Option parts	53301163			<u> </u>	Motion sensor : LB-KIT			
option parts				FILLER SEL . UIVI-FLJEF ,	WOUGH SCHSOL LD-MI			

Item	Indoor air t	Indoor air temperature		temperature	External static pressure	Standards
Operation	DB	WB	DB	WB	of indoor unit	Standards
Cooling	27°C	19°C	35°C	24°C	60Pa	ISO5151-T1
Heating	20°C	_	7℃	6°C	oura	ISO5151-H1

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.
 (3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
 (4) Select the breaker size according to the own national standard.
 (5) The operation data indicate when the air-conditioner is operated at 230V 50Hz or 220V 60Hz.
 (6) Static pressure of option air filter "UM-FL3EF" is 5Pa initially.
 (7) The external static pressure setting can be changed to 10-100Pa. (For RC-EX3A and RC-E5 only)

			Model	FDUM140	NNXWVH			
Item				Indoor unit FDUM140VH	Outdoor unit FDC140VNX-W			
Power source					V 50Hz / 220V 60Hz			
	Nominal cooling capacity (ra	ange)	kW	14.0 [3.5(Min	.) - 16.0(Max.)]			
	Nominal heating capacity (ra		kW	- '	.) - 18.0(Max.)]			
		Cooling		4.22				
	Power consumption	Heating	d k₩ b	4.	22			
	Max power consumption		┦ … ㅏ		10			
	Max power consumption	Cooling	+ +		/ 19.4			
	Running current	Heating	A		/ 19.4			
	Inrush current, max current	rieating	⊣ ^ ⊦		30			
Onevetien	musir current, max current	Cooling	+ +		99			
Operation data	Power factor		- %		99			
uaia	FFD	Heating	1		-			
	EER	Cooling	-		32			
	СОР	Heating	1 1	3.	79			
	Sound power level	Cooling	4	70	69			
		Heating			71			
	Sound pressure level	Cooling	dB(A)	P-Hi: 47 Hi: 40 Me: 35 Lo: 30	54			
	Courte process to to:	Heating] "", [· ·			
	Silent mode	Cooling	_	_	50 /49(Normal/Silent)			
	sound pressure level	Heating			51 /48(Normal/Silent)			
Exterior dimen	nsions (Height x Width x Depth	1)	mm	280 x 1370 x 740	1300x970x370			
Exterior appea	arance				Stucco white			
(Munsell color))			_	(4.2Y7.5/1.1) near equivalent			
(RAL color)					(RAL 7044) near equivalent			
Net weight			kg	54	97			
Compressor ty	ype & Q'ty			_	RMT5134SWP3 (Twin rotary type) x 1			
Compressor m	notor (Starting method)		kW	-	Direct line start			
Refrigerant oil	(Amount, type)		L	_	0.9 (M-MB75)			
Refrigerant (T	ype, amount, pre-charge lengt	:h)	kg	R32 4.0 in outdoor unit (Incl. th	e amount for the piping of 30m)			
Heat exchange	er	,		Louver fin & inner grooved tubing	M shape fin & inner grooved tubing			
Refrigerant co	ntrol			Electronic ex	pansion valve			
Fan type & Q't			1	Centrifugal fan x3	Propeller fan x2			
Fan motor (Sta	<u> </u>		W	100 + 200 < Direct line start >	86x2 < Direct line start >			
	agca/	Cooling	1	100 1 200 1 2 11 001 11 11 0 11 11 12	COAL COMPONING STATES			
Air flow		Heating	m³/min	P-Hi: 48 Hi: 35 Me: 28 Lo: 22	100			
Available exter	rnal static pressure	1 3	Pa	Standard: 60 Max: 100	0			
Outside air inta	· · · · · · · · · · · · · · · · · · ·		1 1	Possible	_			
Air filter, Qualit			1	Procure locally	_			
	· · · · · · · · · · · · · · · · · · ·		+ +	Rubber sleeve(for fan motor)	Rubber sleeve (for fan motor & compressor			
Snock & vibrat	tion aboorbor		W	-	` '			
Shock & vibrat	•							
Shock & vibrat Electric heater			VV	(Ontion) Wired : RC-EY3A RC-E5	20(Crank case heater)			
	Remote control		VV	<u> </u>	, RCH-E3 Wireless : RCN-KIT4-E2			
Electric heater	Remote control Room temperature control		VV	<u> </u>	,			
Electric heater Operation	Remote control		VV	Thermostat I	y RCH-E3 Wireless : RCN-KIT4-E2 by electronics			
Electric heater Operation control	Remote control Room temperature control Operation display		VV	Thermostat I	, RCH-E3 Wireless : RCN-KIT4-E2 by electronics tion for fan motor			
Electric heater Operation	Remote control Room temperature control Operation display		VV	Thermostat I Overload protect Frost protecti	y RCH-E3 Wireless : RCN-KIT4-E2 by electronics			
Electric heater Operation control	Remote control Room temperature control Operation display		VV	Thermostat I Overload protect Frost protect Internal thermos	n, RCH-E3 Wireless : RCN-KIT4-E2 by electronics tion for fan motor on thermostat			
Electric heater Operation control	Remote control Room temperature control Operation display	Liquid line		Thermostat I Overload protect Frost protect Internal thermos	n, RCH-E3 Wireless : RCN-KIT4-E2 by electronics tion for fan motor on thermostat estat for fan motor emperature protection			
Electric heater Operation control	Remote control Room temperature control Operation display nents	Liquid line Gas line	- mm -	Thermostat I Overload protect Frost protect Internal thermos Abnormal discharge t I/U φ 9.52 (3/8") Pipe φ 9.5	n, RCH-E3 Wireless : RCN-KIT4-E2 by electronics tion for fan motor on thermostat stat for fan motor emperature protection			
Electric heater Operation control Safety equipm	Remote control Room temperature control Operation display nents Refrigerant piping size			Thermostat I Overload protect Frost protect Internal thermos Abnormal discharge t I/U φ 9.52 (3/8") Pipe φ 9.5	y, RCH-E3 Wireless : RCN-KIT4-E2 by electronics tion for fan motor on thermostat stat for fan motor emperature protection 2 (3/8")x0.8 O/U φ 9.52 (3/8")			
Electric heater Operation control Safety equipm	Remote control Room temperature control Operation display nents Refrigerant piping size (O.D)			Thermostat I Overload protect Frost protecti Internal thermos Abnormal discharge t I/U φ 9.52 (3/8") Pipe φ 9.5 φ 15.88 (5/8") φ 15.88 Flare piping	y, RCH-E3 Wireless: RCN-KIT4-E2 by electronics tion for fan motor on thermostat stat for fan motor emperature protection 2 (3/8")x0.8 O/U \$\phi\$ 9.52 (3/8") (5/8")x1.0 \$\phi\$ 15.88 (5/8") Flare piping			
Electric heater Operation control Safety equipm	Remote control Room temperature control Operation display nents Refrigerant piping size (O.D) Connecting method Insulation for piping	Gas line		Thermostat I Overload protect Frost protecti Internal thermos Abnormal discharge t I/U φ 9.52 (3/8") Pipe φ 9.5 φ 15.88 (5/8") φ 15.88 Flare piping Necessary (both	y, RCH-E3 Wireless: RCN-KIT4-E2 by electronics tion for fan motor on thermostat stat for fan motor emperature protection 2 (3/8")x0.8 O/U \(\phi \) 9.52 (3/8") (5/8")x1.0 \(\phi \) 15.88 (5/8") Flare piping Liquid & Gas lines)			
Electric heater Operation control Safety equipm	Remote control Room temperature control Operation display nents Refrigerant piping size (O.D) Connecting method Insulation for piping Refrigerant line (one way) le	Gas line	- mm -	Thermostat I Overload protect Frost protect Internal thermos Abnormal discharge t I/U φ 9.52 (3/8") Pipe φ 9.5 φ 15.88 (5/8") φ 15.88 Flare piping Necessary (both Min.3 ,	y, RCH-E3 Wireless : RCN-KIT4-E2 by electronics tion for fan motor on thermostat stat for fan motor emperature protection 2 (3/8")x0.8 O/U \(\phi \) 9.52 (3/8") (5/8")x1.0 \(\phi \) 15.88 (5/8") Flare piping Liquid & Gas lines) Max.100			
Electric heater Operation control Safety equipm	Remote control Room temperature control Operation display nents Refrigerant piping size (O.D) Connecting method Insulation for piping Refrigerant line (one way) le Vertical height diff. between O/	Gas line	- mm -	Thermostat I Overload protect Frost protect: Internal thermos Abnormal discharge t I/U φ 9.52 (3/8") Pipe φ 9.5 φ 15.88 (5/8") φ 15.88 Flare piping Necessary (both Min.3 , Max.50 (Outdoor unit is higher)	y, RCH-E3 Wireless: RCN-KIT4-E2 by electronics tion for fan motor on thermostat stat for fan motor emperature protection 2 (3/8")x0.8 O/U φ 9.52 (3/8") (5/8")x1.0 φ 15.88 (5/8") Flare piping Liquid & Gas lines) Max.100 Max.15 (Outdoor unit is lower)			
Electric heater Operation control Safety equipm Installation data	Remote control Room temperature control Operation display nents Refrigerant piping size (O.D) Connecting method Insulation for piping Refrigerant line (one way) le Vertical height diff. between O/ Drain hose	Gas line	m m	Thermostat I Overload protect Frost protect: Internal thermos Abnormal discharge t I/U φ 9.52 (3/8") Pipe φ 9.5 φ 15.88 (5/8") φ 15.88 Flare piping Necessary (both Min.3 , Max.50 (Outdoor unit is higher) Hose connectable VP25(I.D.25 , O.D.32)	y, RCH-E3 Wireless: RCN-KIT4-E2 by electronics tion for fan motor on thermostat stat for fan motor emperature protection 2 (3/8")x0.8 O/U \(\phi \) 9.52 (3/8") (5/8")x1.0 \(\phi \) 15.88 (5/8") Flare piping Liquid & Gas lines) Max.100			
Electric heater Operation control Safety equipm Installation data Drain pump, m	Remote control Room temperature control Operation display nents Refrigerant piping size (O.D) Connecting method Insulation for piping Refrigerant line (one way) le Vertical height diff. between O/ Drain hose nax lift height	Gas line	m m m	Thermostat I Overload protect Frost protect: Internal thermos Abnormal discharge t I/U φ 9.52 (3/8") Pipe φ 9.5 φ 15.88 (5/8") φ 15.88 Flare piping Necessary (both Min.3 , Max.50 (Outdoor unit is higher)	y, RCH-E3 Wireless: RCN-KIT4-E2 by electronics tion for fan motor on thermostat stat for fan motor emperature protection 2 (3/8")x0.8 O/U φ 9.52 (3/8") (5/8")x1.0 φ 15.88 (5/8") Flare piping Liquid & Gas lines) Max.100 Max.15 (Outdoor unit is lower)			
Electric heater Operation control Safety equipm Installation data Drain pump, m Recommended	Remote control Room temperature control Operation display nents Refrigerant piping size (O.D) Connecting method Insulation for piping Refrigerant line (one way) le Vertical height diff. between O/ Drain hose nax lift height d breaker size	Gas line	m m m A	Overload protect Frost protection Internal thermost Internal thermost Abnormal discharge to I/U φ 9.52 (3/8") Pipe φ 9.5 φ 15.88 (5/8") φ 15.88 Flare piping Necessary (both Min.3, Max.50 (Outdoor unit is higher) Hose connectable VP25(I.D.25, O.D.32) Built-in drain pump, 600	y, RCH-E3 Wireless: RCN-KIT4-E2 by electronics tion for fan motor on thermostat stat for fan motor emperature protection 2 (3/8")x0.8 O/U φ 9.52 (3/8") (5/8")x1.0 φ 15.88 (5/8") Flare piping Liquid & Gas lines) Max.100 Max.15 (Outdoor unit is lower) Hole size φ 20 x 3 pcs			
Electric heater Operation control Safety equipm Installation data Drain pump, m Recommended L.R.A. (Locked	Remote control Room temperature control Operation display nents Refrigerant piping size (O.D) Connecting method Insulation for piping Refrigerant line (one way) le Vertical height diff. between O/ Drain hose nax lift height d breaker size d rotor ampere)	Gas line ngth U and I/U	m m m	Overload protect Frost protection Internal Idenmost I Internal Idenmost Abnormal discharge to I/U φ 9.52 (3/8") Pipe φ 9.5 φ 15.88 (5/8") φ 15.88 Flare piping Necessary (both Min.3, Max.50 (Outdoor unit is higher) Hose connectable VP25(I.D.25, O.D.32) Built-in drain pump, 600	in RCH-E3 Wireless: RCN-KIT4-E2 by electronics tion for fan motor on thermostat stat for fan motor emperature protection 2 (3/8")x0.8 O/U φ 9.52 (3/8") (5/8")x1.0 φ 15.88 (5/8") Flare piping Liquid & Gas lines) Max.100 Max.15 (Outdoor unit is lower) Hole size φ 20 x 3 pcs			
Electric heater Operation control Safety equipm Installation data Drain pump, m Recommendee L.R.A. (Locked Interconnectin	Remote control Room temperature control Operation display nents Refrigerant piping size (O.D) Connecting method Insulation for piping Refrigerant line (one way) le Vertical height diff. between O/ Drain hose nax lift height d breaker size d rotor ampere)	Gas line	m m m A	Thermostat I Overload protect Frost protecti Internal thermos Abnormal discharge t I/U φ 9.52 (3/8") Pipe φ 9.5 φ 15.88 (5/8") φ 15.88 Flare piping Necessary (both I Min.3 , Max.50 (Outdoor unit is higher) Hose connectable VP25(I.D.25 , O.D.32) Built-in drain pump , 600	py electronics tion for fan motor on thermostat stat for fan motor 2 (3/8")x1.0 φ 15.88 (5/8") Flare piping Liquid & Gas lines) Max.100 Max.15 (Outdoor unit is lower) Hole size φ 20 x 3 pcs Hole size φ 20 x 3 pcs Terminal block (Screw fixing type)			
Electric heater Operation control Safety equipm Installation data Drain pump, m Recommendee L.R.A. (Locked Interconnectin IP number	Remote control Room temperature control Operation display nents Refrigerant piping size (O.D) Connecting method Insulation for piping Refrigerant line (one way) le Vertical height diff. between O/ Drain hose nax lift height d breaker size d rotor ampere) ug wires Size x	Gas line ngth U and I/U	m m m A	Thermostat I Overload protect Frost protecti Internal thermos Abnormal discharge t I/U φ 9.52 (3/8") Pipe φ 9.5 φ 15.88 (5/8") φ 15.88 Flare piping Necessary (both I Min.3 , Max.50 (Outdoor unit is higher) Hose connectable VP25(I.D.25 , O.D.32) Built-in drain pump , 600 φ 1.6mm x 3 cores + earth cable IPX0	in RCH-E3 Wireless: RCN-KIT4-E2 by electronics tion for fan motor on thermostat stat for fan motor emperature protection 2 (3/8")x0.8 O/U φ 9.52 (3/8") (5/8")x1.0 φ 15.88 (5/8") Flare piping Liquid & Gas lines) Max.100 Max.15 (Outdoor unit is lower) Hole size φ 20 x 3 pcs			
Electric heater Operation control Safety equipm Installation data Drain pump, m Recommendee L.R.A. (Locked Interconnectin	Remote control Room temperature control Operation display nents Refrigerant piping size (O.D) Connecting method Insulation for piping Refrigerant line (one way) le Vertical height diff. between O/ Drain hose nax lift height d breaker size d rotor ampere) ug wires Size x	Gas line ngth U and I/U	m m m A	Overload protect Frost protecti Internal thermos Abnormal discharge t I/U φ 9.52 (3/8") Pipe φ 9.5 φ 15.88 (5/8") φ 15.88 Flare piping Necessary (both Min.3 , Max.50 (Outdoor unit is higher) Hose connectable VP25(I.D.25 , O.D.32) Built-in drain pump , 600 φ 1.6mm x 3 cores + earth cable IPX0 Mounting kit, Drain hose	py electronics tion for fan motor on thermostat stat for fan motor 2 (3/8")x1.0 φ 15.88 (5/8") Flare piping Liquid & Gas lines) Max.100 Max.15 (Outdoor unit is lower) Hole size φ 20 x 3 pcs Hole size φ 20 x 3 pcs Terminal block (Screw fixing type)			

Item	Indoor air t	emperature	Outdoor air	temperature	External static pressure	Standards
Operation	DB	WB	DB	WB	of indoor unit	Standards
Cooling	27°C	19°C	35°C	24°C	60Pa	ISO5151-T1
Heating	20°C	_	7℃	6°C	oura	ISO5151-H1

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.
 (3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
 (4) Select the breaker size according to the own national standard.
 (5) The operation data indicate when the air-conditioner is operated at 230V 50Hz or 220V 60Hz.
 (6) Static pressure of option air filter "UM-FL3EF" is 5Pa initially.
 (7) The external static pressure setting can be changed to 10-100Pa. (For RC-EX3A and RC-E5 only)

			Model	FDUM140	OVSXWVH			
Item				Indoor unit FDUM140VH	Outdoor unit FDC140VSX-W			
Power source)			3 Phase, 380 - 415	V 50Hz / 380V 60Hz			
	Nominal cooling capacity (ra	nge)	kW	14.0 [3.5(Min	.) - 16.0(Max.)]			
	Nominal heating capacity (ra	<u> </u>	kW	- '	.) - 20.0(Max.)]			
		Cooling		4.22				
	Power consumption	Heating	⊢ kW ⊢	4.	22			
	Max power consumption	11154449	┨ ┈ ┟		90			
	wax power consumption	Cooling			/ 7.0			
	Running current	Heating	\vdash \land		/7.2			
	Inrush current, max current	ricating	⊣ ^ ⊦		17			
Omanation	Inrush current, max current Cooling				91			
Operation data	Power factor		- % -		39			
uata	FFD	Heating			-			
	EER	Cooling	_		32			
	COP	Heating		3.	79			
	Sound power level	Cooling	_	70	69			
		Heating	_		71			
	Sound pressure level	Cooling	dB(A)	P-Hi: 47 Hi: 40 Me: 35 Lo: 30	54			
	р. Состана до состана	Heating			·			
	Silent mode	Cooling	_	_	50 /49(Normal/Silent)			
	sound pressure level	Heating			51 /48(Normal/Silent)			
Exterior dimer	nsions (Height x Width x Depth)		mm	280 x 1370 x 740	1300x970x370			
Exterior appea					Stucco white			
(Munsell color	r)			_	(4.2Y7.5/1.1) near equivalent			
(RAL color)					(RAL 7044) near equivalent			
Net weight			kg	54	99			
Compressor t	**				RMT5134SWP4 (Twin rotary type) x 1			
Compressor r	motor (Starting method)		kW	_	Direct line start			
Refrigerant oil	il (Amount, type)		L	_	0.9 (M-MB75)			
Refrigerant (T	Type, amount, pre-charge lengt	٦)	kg	R32 4.0 in outdoor unit (Incl. th	e amount for the piping of 30m)			
Heat exchang	ger			Louver fin & inner grooved tubing	M shape fin & inner grooved tubing			
Refrigerant co	ontrol			Electronic ex	pansion valve			
Fan type & Q'	'ty			Centrifugal fan x3	Propeller fan x2			
Fan motor (St	tarting method)		W	100 + 200 < Direct line start >	86x2 < Direct line start >			
A: £1	,	Cooling	3/:	D 18: 40 18: 05 May 00 1 ay 00	100			
Air flow		Heating	m³/min	P-Hi: 48 Hi: 35 Me: 28 Lo: 22	100			
Available exte	ernal static pressure		Pa	Standard: 60 Max: 100	0			
Outside air int	take			Possible	_			
Air filter, Quali	ity / Quantity			Procure locally	_			
Shock & vibra	ation absorber			Rubber sleeve(for fan motor)	Rubber sleeve (for fan motor & compressor			
Electric heate	er		W		20(Crank case heater)			
	Remote control			(Option) Wired: RC-EX3A.RC-E5	, RCH-E3 Wireless : RCN-KIT4-E2			
Operation	Room temperature control			Thermostat b	oy electronics			
control	Operation display			-	. <i>.</i> ' =			
	1 - 1 - 1 - 1			Overload protect	tion for fan motor			
Cofoty oquipp	monto				on thermostat			
Safety equipn	nents				stat for fan motor			
	1				emperature protection			
	Refrigerant piping size	Liquid line	mm	I/U φ 9.52 (3/8") Pipe φ 9.5	, , , ,			
	(O.D)	Gas line		φ 15.88 (5/8") φ 15.88	(5/8")x1.0 φ 15.88 (5/8")			
Installation	Connecting method			Flare piping	Flare piping			
data	Insulation for piping			Necessary (both I	Liquid & Gas lines)			
	Refrigerant line (one way) ler	igth	m	Min.3 ,	Max.100			
	Vertical height diff. between O/L	J and I/U	m	Max.50 (Outdoor unit is higher)	Max.15 (Outdoor unit is lower)			
	Drain hose			Hose connectable VP25(I.D.25, O.D.32)	Hole size φ 20 x 3 pcs			
Drain pump, r	max lift height		mm	Built-in drain pump, 600	_			
	ed breaker size		А		<u></u>			
	d rotor ampere)		A		5.0			
Interconnectin		Core number	+ ' +		/ Terminal block (Screw fixing type)			
IP number	5		+ +	IPX0	IP24			
Standard acce	essories		+ +	Mounting kit, Drain hose				
Option parts			+	<u> </u>	Motion sensor : LB-KIT			
option parts				Filler Set . Ulvi-FLSEF ,	WOUGH SCHSUL LD-IVII			

Item	Indoor air t	Indoor air temperature		temperature	External static pressure	Standards
Operation	DB	WB	DB	WB	of indoor unit	Standards
Cooling	27°C	19°C	35°C	24°C	60Pa	ISO5151-T1
Heating	20°C	_	7℃	6°C	oura	ISO5151-H1

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.
 (3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
 (4) Select the breaker size according to the own national standard.
 (5) The operation data indicate when the air-conditioner is operated at 400V 50Hz or 380V 60Hz.
 (6) Static pressure of option air filter "UM-FL3EF" is 5Pa initially.
 (7) The external static pressure setting can be changed to 10-100Pa. (For RC-EX3A and RC-E5 only)

(b) Twin type

14			Model		VNXWPVH			
Item				Indoor unit FDUM50VH (2 units)	Outdoor unit FDC100VNX-W			
Power source				,	V 50Hz / 220V 60Hz			
	Nominal cooling capacity	<u> </u>	kW		ı.) - 11.2(Max.)]			
	Nominal heating capacity	· • /	kW	11.2 [2.7(Min.) - 12.5(Max.)]				
	Power consumption	Cooling		2.66				
	Heating		kW		.96			
	Max power consumption			7.	.10			
	Running current	Cooling		11.8	/ 12.3			
	nullilling current	Heating	Α	13.0	/ 13.6			
	Inrush current, max currer	nt		5,	26			
Operation	D ()	Cooling	0,4	9	98			
data	Power factor	Heating	- %	9	99			
	EER	Cooling		3.	.76			
	COP	Heating	_		.79			
		Cooling		9.				
	Sound power level	Heating	-	60	67			
		Cooling	\dashv		53			
	Sound pressure level		dB(A)	P-Hi: 37 Hi: 32 Me: 29 Lo: 26	55			
		Heating	_					
	Silent mode	Cooling	_	_	49 /48(Normal/Silent)			
	sound pressure level	Heating			48 /48(Normal/Silent)			
	sions (Height x Width x Dep	oth)	mm	280 x 750 x 635	1300x970x370			
Exterior appea (Munsell color (RAL color)				_	Stucco white (4.2Y7.5/1.1) near equivalent (RAL 7044) near equivalent			
Net weight			kg	29	97			
Compressor to	vne & O'tv		19	_	RMT5134SWP3 (Twin rotary type) x 1			
Compressor motor (Starting method)		kW	_	Direct line start				
			L	_	0.9 (M-MB75)			
Refrigerant oil (Amount, type)			POO 4 0 in a state a monit (local at	,				
Refrigerant (Type, amount, pre-charge length)		kg		ne amount for the piping of 30m)				
Heat exchanger		_	Louver fin & inner grooved tubing	M shape fin & inner grooved tubing				
Refrigerant co					pansion valve			
Fan type & Q'	ty			Centrifugal fan x1	Propeller fan x2			
Fan motor (St	arting method)		W	100 < Direct line start >	86x2 < Direct line start >			
Air flow		Cooling Heating	m³/min	P-Hi: 13 Hi: 10 Me: 9 Lo: 8	100			
Available exte	rnal static pressure		Pa	Standard: 35 Max: 100	0			
Outside air int	ake			Possible	_			
Air filter, Quali	ty / Quantity			Procure locally	_			
Shock & vibra	·			Rubber sleeve(for fan motor)	Rubber sleeve (for fan motor & compressor)			
Electric heater	•		W		20(Crank case heater)			
	Remote control			(Option) Wired : BC-FX3A BC-F5	5, RCH-E3 Wireless : RCN-KIT4-E2			
Operation	Room temperature contro	1			by electronics			
control	Operation display	•			_			
Safety equipm				Frost protect Internal thermos	tion for fan motor ion thermostat stat for fan motor temperature protection			
	Refrigerant piping size (O.D)	Liquid line Gas line	mm	I/U φ 6.35 (1/4") ② φ 9.52 (3/8")x0.8 φ 12.7 (1/2") ② φ 12.7(1/2")x0.8	① φ 9.52 (3/8")x0.8 O/U φ 9.52 (3/8") ① φ 15.88(5/8")x1.0 φ 15.88 (5/8")			
	Connecting method			Flare piping	Flare piping			
Installation	Insulation for piping			Necessary (both	Liquid & Gas lines)			
Refrigerant line (one way) length Vertical height diff. between O/U and I/U		m		Max.100				
		m	Max.50 (Outdoor unit is higher)	Max.15 (Outdoor unit is lower)				
	Drain hose			Hose connectable VP25(I.D.25 , O.D.32)	Hole size φ 20 x 3 pcs			
Drain pump, n			mm	Built-in drain pump, 600				
	d breaker size		A					
					5.0			
	d rotor ampere)	Cana na	A		· . · · · · · · · · · · · · · · · · · ·			
Interconnectin	y wires Size	x Core number			/ Terminal block (Screw fixing type)			
IP number				IPX0	IP24			
	SCCOTIGC		1	Mounting kit, Drain hose	_			
Standard acce Option parts	53301163			<u> </u>	, Motion sensor : LB-KIT			

Notes (1) The data are measured at the following conditions.

Item	Indoor air temperature		Outdoor air temperature		External static pressure	Standards
Operation	DB	WB	DB WB		of indoor unit	Standards
Cooling	27°C	19°C	35°C	24°C	35Pa	ISO5151-T1
Heating	20°C	_ 7°C 6°C		6°C	Sora	ISO5151-H1

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.
 (3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
 (4) Select the breaker size according to the own national standard.
 (5) The operation data indicate when the air-conditioner is operated at 230V 50Hz or 220V 60Hz.
 (6) Indoor unit specifications for one unit. Capacity and operation data is two indoor units are combined and run together.
 (7) Branching pipe set "DIS-WA1G"×1(Option). ①: Pipe of O/U-Branch, ②: Pipe of Branch-I/U
 (8) Static pressure of option air filter "UM-FL1EF" is 5Pa initially.
 (9) The external static pressure setting can be changed to 10-100Pa. (For RC-EX3A and RC-E5 only)

			Model	FDUM100	VSXWPVH			
Item				Indoor unit FDUM50VH (2 units)	Outdoor unit FDC100VSX-W			
Power source)			3 Phase, 380 - 415	V 50Hz / 380V 60Hz			
	Nominal cooling capacity (r.	ange)	kW	10.0 [3.5(Min	i.) - 11.2(Max.)]			
	Nominal heating capacity (r	ange)	kW	11.2 [2.7(Min	i.) - 16.0(Max.)]			
	Daway againmentian	Cooling		2.66				
	Power consumption Heating		kW	2.	96			
	Max power consumption		7	8.	.90			
	. .	Cooling		4.5	/ 4.8			
	Running current	Heating	Α	5.0	/ 5.2			
	Inrush current, max current			5,	15			
Operation		Cooling		3	35			
data	Power factor	Heating	- %	3	36			
	EER	Cooling		3.	.76			
	COP	Heating		3.	79			
		Cooling						
	Sound power level	Heating		60	67			
		Cooling	-		53			
	Sound pressure level	Heating	dB(A)	P-Hi: 37 Hi: 32 Me: 29 Lo: 26	51			
	Silent mode	Cooling			49 /48(Normal/Silent)			
	sound pressure level	Heating	_	_	48 /48(Normal/Silent)			
Exterior dime	nsions (Height x Width x Deptl		mm	280 x 750 x 635	1300x970x370			
Exterior appe		7			Stucco white			
(Munsell color				_	(4.2Y7.5/1.1) near equivalent			
(RAL color)	•				(RAL 7044) near equivalent			
Net weight			kg	29	99			
Compressor type & Q'ty			_	RMT5134SWP4 (Twin rotary type) x 1				
Compressor motor (Starting method)			kW	_	Direct line start			
Refrigerant oil (Amount, type)			L	_	0.9 (M-MB75)			
Refrigerant (Type, amount, pre-charge length)		kg	R32 4.0 in outdoor unit (Incl. th	e amount for the piping of 30m)				
Heat exchanger			Louver fin & inner grooved tubing	M shape fin & inner grooved tubing				
Refrigerant co	ontrol			Electronic ex	pansion valve			
Fan type & Q'				Centrifugal fan x1	Propeller fan x2			
	tarting method)		W	100 < Direct line start >	86x2 < Direct line start >			
Air flow	, , , , , , , , , , , , , , , , , , ,	Cooling Heating	m³/min	P-Hi: 13 Hi: 10 Me: 9 Lo: 8	100			
Available exte	ernal static pressure		Pa	Standard: 35 Max: 100	0			
Outside air int	<u> </u>			Possible	_			
Air filter, Quali				Procure locally	_			
	ation absorber			Rubber sleeve(for fan motor)	Rubber sleeve (for fan motor & compressor			
Electric heate	r		W	_	20(Crank case heater)			
	Remote control			(Option) Wired: RC-EX3A.RC-E5	5, RCH-E3 Wireless : RCN-KIT4-E2			
Operation	Room temperature control				by electronics			
control	Operation display			-	- -			
	1			Overload protect	tion for fan motor			
Safety equipn	nente			Frost protecti	ion thermostat			
Salety equipi	nents			l .	stat for fan motor			
	T=	Trans 100	1	· · · · · · · · · · · · · · · · · · ·	temperature protection			
	Refrigerant piping size	Liquid line	mm	I/U φ 6.35 (1/4") ② φ 9.52 (3/8")x0.8	① φ 9.52 (3/8")x0.8 O/U φ 9.52 (3/8")			
	(O.D)	Gas line	1	, , , , , ,	① φ 15.88(5/8")x1.0 φ 15.88 (5/8")			
Installation	Connecting method			Flare piping	Flare piping			
data	Insulation for piping				Liquid & Gas lines)			
	Refrigerant line (one way) le		m		Max.100			
	Vertical height diff. between O/	'U and I/U	m	Max.50 (Outdoor unit is higher)	Max.15 (Outdoor unit is lower)			
	Drain hose		1	Hose connectable VP25(I.D.25 , O.D.32)	Hole size φ 20 x 3 pcs			
Drain pump, r			mm	Built-in drain pump , 600	_			
	ed breaker size		A		_			
,	d rotor ampere)		Α	_	5.0			
Interconnectir	ng wires Size	Core number			/ Terminal block (Screw fixing type)			
IP number				IPX0	IP24			
Standard acc	essories			Mounting kit, Drain hose	_			
Option parts				Filter set: UM-FL1EF,	Motion sensor : LB-KIT			
Notes (1) Th	ne data are measured at the	following condition		·	The nine length is 7.5m			

Item			Outdoor air	temperature	External static pressure	Standards
Operation			DB	WB	of indoor unit	Standards
Cooling	27°C	19°C	35°C	24°C	25Do	ISO5151-T1
Heating	20°C	- 7°C 6°C 35Pa		Sora	ISO5151-H1	

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.
 (3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
 (4) Select the breaker size according to the own national standard.
 (5) The operation data indicate when the air-conditioner is operated at 400V 50Hz or 380V 60Hz.
 (6) Indoor unit specifications for one unit. Capacity and operation data is two indoor units are combined and run together.
 (7) Branching pipe set "DIS-WA1G"×1(Option). ①: Pipe of O/U-Branch, ②: Pipe of Branch-I/U
 (8) Static pressure of option air filter "UM-FL1EF" is 5Pa initially.
 (9) The external static pressure setting can be changed to 10-100Pa. (For RC-EX3A and RC-E5 only)

			Model	FDUM125	VNXWPVH			
Item				Indoor unit FDUM60VH (2 units)	Outdoor unit FDC125VNX-W			
Power source				1 Phase, 220 - 240	V 50Hz / 220V 60Hz			
	Nominal cooling capacity (ra	inge)	kW	12.5 [3.5(Min	.) - 14.0(Max.)]			
	Nominal heating capacity (ra	ange)	kW	14.0 [2.7(Min	.) - 17.0(Max.)]			
	D	Cooling		3.26				
	Power consumption	Heating	kW	3.	26			
	Max power consumption			7.	10			
	Cooling			14.3	/ 15.0			
	Running current	Heating	A		/ 15.0			
	Inrush current, max current	1	1		28			
Operation		Cooling	1		9			
data	Power factor	Heating	- %		9			
aara	EER	Cooling			83			
	COP	Heating	\dashv		30			
	COF			4.	T			
	Sound power level	Cooling	4	60	68			
		Heating	_		70			
	Sound pressure level	Cooling	dB(A)	P-Hi: 36 Hi: 31 Me: 28 Lo: 25	53			
		Heating	-		54			
	Silent mode	Cooling	_	_	50 /49(Normal/Silent)			
	sound pressure level	Heating			50 /48(Normal/Silent)			
Exterior dimen	nsions (Height x Width x Depth)	mm	280 x 950 x 635	1300x970x370			
Exterior appea					Stucco white			
(Munsell color))			_	(4.2Y7.5/1.1) near equivalent			
(RAL color)					(RAL 7044) near equivalent			
Net weight			kg	34	97			
Compressor ty	ype & Q'ty			_	RMT5134SWP3 (Twin rotary type) x 1			
Compressor motor (Starting method)		kW	_	Direct line start				
Refrigerant oil (Amount, type)		L	_	0.9 (M-MB75)				
Refrigerant (T	ype, amount, pre-charge lengt	h)	kg	R32 4.0 in outdoor unit (Incl. th	e amount for the piping of 30m)			
Heat exchange	er	-		Louver fin & inner grooved tubing	M shape fin & inner grooved tubing			
Refrigerant co	introl			Electronic ex	pansion valve			
Fan type & Q't				Centrifugal fan x2	Propeller fan x2			
Fan motor (Sta	<u> </u>		W	130 < Direct line start >	86x2 < Direct line start >			
	ag	Cooling			SOME & BIROSE IIII O STAILE?			
Air flow		Heating	m³/min	P-Hi: 20 Hi: 15 Me: 13 Lo: 10	100			
Available exter	rnal static pressure	rioding	Pa	Standard: 35 Max: 100	0			
Outside air inta	· · · · · · · · · · · · · · · · · · ·		+ ι α	Possible	_			
Air filter, Qualit	· · · · · · · · · · · · · · · · · · ·		+	Procure locally	_			
Shock & vibrat	<u> </u>		+	Rubber sleeve(for fan motor)	Rubber sleeve (for fan motor & compressor			
Electric heater			W	nubber sleeve(ior iair motor)	20(Crank case heater)			
Electric fleater			VV	(Ontion) Wind - DC FY2A DC F5	, RCH-E3 Wireless : RCN-KIT4-E2			
Operation	Remote control		+					
Operation				i i nermostat r	by electronics			
Operation control	Room temperature control			momodati	,			
	Room temperature control Operation display			-				
	· · · · · · · · · · · · · · · · · · ·			Overload protect	- tion for fan motor			
	Operation display			Overload protect Frost protecti	ion for fan motor on thermostat			
control	Operation display			Overload protect Frost protecti Internal thermos	tion for fan motor on thermostat stat for fan motor			
control	Operation display	Liquid line		Overload protect Frost protecti Internal thermos Abnormal discharge t	tion for fan motor on thermostat stat for fan motor emperature protection			
control	Operation display	Liquid line Gas line	- mm	Overload protect Frost protecti Internal thermos Abnormal discharge t I/U ϕ 6.35 (1/4") ② ϕ 9.52 (3/8")x0.8	tion for fan motor on thermostat stat for fan motor emperature protection ① ϕ 9.52 (3/8")x0.8 O/U ϕ 9.52 (3/8")			
control	Operation display nents Refrigerant piping size (O.D)	Liquid line Gas line	— mm	Overload protect Frost protecti Internal thermos Abnormal discharge t I/U φ 6.35 (1/4") ② φ 9.52 (3/8")x0.8 φ 12.7 (1/2") ② φ 12.7(1/2")x0.8	tion for fan motor on thermostat stat for fan motor emperature protection ① ϕ 9.52 (3/8")x0.8 O/U ϕ 9.52 (3/8") ① ϕ 15.88(5/8")x1.0 ϕ 15.88 (5/8")			
Safety equipm	Operation display nents Refrigerant piping size (O.D) Connecting method		- mm	Overload protect Frost protect Internal thermos Abnormal discharge t I/U φ 6.35 (1/4") ② φ 9.52 (3/8")x0.8 φ 12.7 (1/2") ② φ 12.7(1/2")x0.8 Flare piping	tion for fan motor on thermostat stat for fan motor emperature protection ① ϕ 9.52 (3/8")x0.8 O/U ϕ 9.52 (3/8") ① ϕ 15.88(5/8")x1.0 ϕ 15.88 (5/8") Flare piping			
control Safety equipm	Operation display nents Refrigerant piping size (O.D) Connecting method Insulation for piping	Gas line		Overload protect Frost protect Internal thermos Abnormal discharge t I/U \(\phi \) 6.35 (1/4") ② \(\phi \) 9.52 (3/8")x0.8 \(\phi \) 12.7 (1/2") ② \(\phi \) 12.7(1/2")x0.8 Flare piping Necessary (both I	tion for fan motor on thermostat stat for fan motor emperature protection ① φ 9.52 (3/8")x0.8 O/U φ 9.52 (3/8") ① φ 15.88(5/8")x1.0 φ 15.88 (5/8") Flare piping iquid & Gas lines)			
Safety equipm	Operation display nents Refrigerant piping size (O.D) Connecting method Insulation for piping Refrigerant line (one way) lei	Gas line	m	Overload protect Frost protect Internal thermos Abnormal discharge t I/U \(\phi \) 6.35 (1/4") ② \(\phi \) 9.52 (3/8")x0.8 \(\phi \) 12.7 (1/2") ② \(\phi \) 12.7(1/2")x0.8 Flare piping Necessary (both I Min.3,	- tion for fan motor on thermostat stat for fan motor emperature protection ① φ 9.52 (3/8")x0.8 O/U φ 9.52 (3/8") ① φ 15.88(5/8")x1.0 φ 15.88 (5/8") Flare piping Liquid & Gas lines) Max.100			
Safety equipm	Operation display Refrigerant piping size (O.D) Connecting method Insulation for piping Refrigerant line (one way) let Vertical height diff. between O/	Gas line		Overload protect Frost protecti Internal thermos Abnormal discharge t I/U φ 6.35 (1/4") ② φ 9.52 (3/8")x0.8 φ 12.7 (1/2") ② φ 12.7(1/2")x0.8 Flare piping Necessary (both I Min.3 , Max.50 (Outdoor unit is higher)	ition for fan motor on thermostat stat for fan motor emperature protection ① φ 9.52 (3/8")x0.8 O/U φ 9.52 (3/8") ① φ 15.88(5/8")x1.0 φ 15.88 (5/8") Flare piping Liquid & Gas lines) Max.100 Max.15 (Outdoor unit is lower)			
Safety equipm Installation data	Operation display Refrigerant piping size (O.D) Connecting method Insulation for piping Refrigerant line (one way) let Vertical height diff. between O/Drain hose	Gas line	m m	Overload protect Frost protecti Internal thermos Abnormal discharge t I/U φ 6.35 (1/4") ② φ 9.52 (3/8")x0.8 φ 12.7 (1/2") ② φ 12.7(1/2")x0.8 Flare piping Necessary (both I Min.3 , Max.50 (Outdoor unit is higher) Hose connectable VP25(I.D.25 , O.D.32)	- tion for fan motor on thermostat stat for fan motor emperature protection ① φ 9.52 (3/8")x0.8 O/U φ 9.52 (3/8") ① φ 15.88(5/8")x1.0 φ 15.88 (5/8") Flare piping Liquid & Gas lines) Max.100			
Safety equipm Installation data Drain pump, m	Operation display Refrigerant piping size (O.D) Connecting method Insulation for piping Refrigerant line (one way) let Vertical height diff. between O/Drain hose max lift height	Gas line	m m	Overload protect Frost protecti Internal thermos Abnormal discharge t I/U φ 6.35 (1/4") ② φ 9.52 (3/8")x0.8 φ 12.7 (1/2") ② φ 12.7(1/2")x0.8 Flare piping Necessary (both I Min.3 , Max.50 (Outdoor unit is higher)	ition for fan motor on thermostat that for fan motor emperature protection ① φ 9.52 (3/8")x0.8 O/U φ 9.52 (3/8") ① φ 15.88(5/8")x1.0 φ 15.88 (5/8") Flare piping Liquid & Gas lines) Max.100 Max.15 (Outdoor unit is lower)			
Safety equipm Installation data Drain pump, m Recommended	Operation display Refrigerant piping size (O.D) Connecting method Insulation for piping Refrigerant line (one way) let Vertical height diff. between O/Drain hose nax lift height d breaker size	Gas line	m m m	Overload protect Frost protecti Internal thermos Abnormal discharge t I/U \(\phi \) 6.35 (1/4") ② \(\phi \) 9.52 (3/8")x0.8 \(\phi \) 12.7 (1/2") ② \(\phi \) 12.7 (1/2")x0.8 Flare piping Necessary (both I Min.3 , Max.50 (Outdoor unit is higher) Hose connectable VP25(I.D.25 , O.D.32) Built-in drain pump , 600	ition for fan motor on thermostat stat for fan motor emperature protection ① φ 9.52 (3/8")x0.8 O/U φ 9.52 (3/8") ② φ 15.88(5/8")x1.0 φ 15.88 (5/8") Flare piping iquid & Gas lines) Max.100 Max.15 (Outdoor unit is lower) Hole size φ 20 x 3 pcs			
Safety equipm Installation data Drain pump, m Recommendee L.R.A. (Locked	Operation display Refrigerant piping size (O.D) Connecting method Insulation for piping Refrigerant line (one way) lei Vertical height diff. between O/Drain hose nax lift height d breaker size d rotor ampere)	Gas line ngth U and I/U	m m	Overload protect Frost protecti Internal thermos Abnormal discharge I/U \(\phi \) 6.35 (1/4") ② \(\phi \) 9.52 (3/8")x0.8 \(\phi \) 12.7 (1/2") ② \(\phi \) 12.7 (1/2")x0.8 Flare piping Necessary (both I Min.3 , Max.50 (Outdoor unit is higher) Hose connectable VP25(I.D.25 , O.D.32) Built-in drain pump , 600	ition for fan motor on thermostat stat for fan motor emperature protection ① φ 9.52 (3/8")x0.8 O/U φ 9.52 (3/8") ② φ 15.88(5/8")x1.0 φ 15.88 (5/8") Flare piping iquid & Gas lines) Max.100 Max.15 (Outdoor unit is lower) Hole size φ 20 x 3 pcs —			
Safety equipm Installation data Drain pump, m Recommendee L.R.A. (Locked Interconnectin	Operation display Refrigerant piping size (O.D) Connecting method Insulation for piping Refrigerant line (one way) lei Vertical height diff. between O/Drain hose nax lift height d breaker size d rotor ampere)	Gas line	m m m	Overload protect Frost protecti Internal thermos Abnormal discharge I/U \$\phi\$ 6.35 (1/4") ② \$\phi\$ 9.52 (3/8")x0.8 \$\phi\$ 12.7 (1/2") ② \$\phi\$ 12.7(1/2")x0.8 Flare piping Necessary (both I Min.3 , Max.50 (Outdoor unit is higher) Hose connectable VP25(I.D.25 , O.D.32) Built-in drain pump , 600	ition for fan motor on thermostat stat for fan motor emperature protection ① φ 9.52 (3/8")x0.8 O/U φ 9.52 (3/8") ① φ 15.88(5/8")x1.0 φ 15.88 (5/8") Flare piping iquid & Gas lines) Max.100 Max.15 (Outdoor unit is lower) Hole size φ 20 x 3 pcs —			
Safety equipm Installation data Drain pump, m Recommendee L.R.A. (Locked Interconnectin IP number	Operation display Refrigerant piping size (O.D) Connecting method Insulation for piping Refrigerant line (one way) lei Vertical height diff. between O/Drain hose nax lift height d breaker size d rotor ampere) ng wires Size x	Gas line ngth U and I/U	m m m	Overload protect Frost protecti Internal thermos Abnormal discharge I/U \$\phi\$ 6.35 (1/4")	ition for fan motor on thermostat stat for fan motor emperature protection ① φ 9.52 (3/8")x0.8 O/U φ 9.52 (3/8") ② φ 15.88(5/8")x1.0 φ 15.88 (5/8") Flare piping iquid & Gas lines) Max.100 Max.15 (Outdoor unit is lower) Hole size φ 20 x 3 pcs —			
Safety equipm Installation data Drain pump, m Recommendee L.R.A. (Locked Interconnectin	Operation display Refrigerant piping size (O.D) Connecting method Insulation for piping Refrigerant line (one way) lei Vertical height diff. between O/Drain hose nax lift height d breaker size d rotor ampere) ng wires Size x	Gas line ngth U and I/U	m m m	Overload protect Frost protecti Internal thermos Abnormal discharge I/U \$\phi\$ 6.35 (1/4")	ition for fan motor on thermostat stat for fan motor emperature protection ① φ 9.52 (3/8")x0.8 O/U φ 9.52 (3/8") ① φ 15.88(5/8")x1.0 φ 15.88 (5/8") Flare piping iquid & Gas lines) Max.100 Max.15 (Outdoor unit is lower) Hole size φ 20 x 3 pcs —			

Item	Indoor air temperature		Outdoor air	temperature	External static pressure	Standards	
Operation	DB	WB	DB	WB	of indoor unit	Standards	
Cooling	27°C	19°C	35°C	24°C	25Do	ISO5151-T1	
Heating	20°C	_	7°C 6°C 35Pa		Sora	ISO5151-H1	

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.
 (3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
 (4) Select the breaker size according to the own national standard.
 (5) The operation data indicate when the air-conditioner is operated at 230V 50Hz or 220V 60Hz.
 (6) Indoor unit specifications for one unit. Capacity and operation data is two indoor units are combined and run together.
 (7) Branching pipe set "DIS-WA1G"×1(Option). ①: Pipe of O/U-Branch, ②: Pipe of Branch-I/U
 (8) Static pressure of option air filter "UM-FL2EF" is 5Pa initially.
 (9) The external static pressure setting can be changed to 10-100Pa. (For RC-EX3A and RC-E5 only)

			Model	FDUM125	VSXWPVH		
Item				Indoor unit FDUM60VH (2 units)	Outdoor unit FDC125VSX-W		
Power source	;			3 Phase, 380 - 415	V 50Hz / 380V 60Hz		
	Nominal cooling capacity (rar	nge)	kW	12.5 [3.5(Min	.) - 14.0(Max.)]		
	Nominal heating capacity (rar	nge)	kW	14.0 [2.7(Min.) - 18.0(Max.)]			
	Barrana	Cooling		3.	26		
	Power consumption	Heating	kW	3.	26		
	Max power consumption			8.	90		
	Cooling			5.2	/ 5.5		
	Running current	Heating	A	5.3	/ 5.6		
	Inrush current, max current			5,	16		
Operation	•	Cooling			90		
data	Power factor	Heating	- %		38		
	EER	Cooling			83		
	COP	Heating	-		30		
		Cooling			68		
	Sound power level	Heating	\dashv	60	70		
		Cooling	\dashv		53		
	Sound pressure level	Heating	dB(A)	P-Hi: 36 Hi: 31 Me: 28 Lo: 25	54		
	Cilonat mondo	Cooling	-		50 /49(Normal/Silent)		
	Silent mode sound pressure level	Heating	-	_	50 /49(Normal/Silent)		
Exterior dime	<u> </u>	Heating	mm	280 x 950 x 635	1300x970x370		
	nsions (Height x Width x Depth)		mm	260 X 950 X 655			
Exterior appe (Munsell color					Stucco white (4.2Y7.5/1.1) near equivalent		
(RAL color)	1)			_	(RAL 7044) near equivalent		
Net weight			kg	34	99		
Compressor t	type & O'ty		l kg	_	RMT5134SWP4 (Twin rotary type) x 1		
<u> </u>			kW		Direct line start		
Compressor motor (Starting method)		L					
Refrigerant oil (Amount, type)				0.9 (M-MB75)			
Refrigerant (Type, amount, pre-charge length)		kg	,	e amount for the piping of 30m)			
Heat exchanger		+	Louver fin & inner grooved tubing	M shape fin & inner grooved tubing			
Refrigerant co					pansion valve		
Fan type & Q	<u> </u>		1	Centrifugal fan x2	Propeller fan x2		
Fan motor (St	tarting method)	10 "	W	130 < Direct line start >	86x2 < Direct line start >		
Air flow		Cooling Heating	m³/min	P-Hi: 20 Hi: 15 Me: 13 Lo: 10	100		
Available exte	ernal static pressure		Pa	Standard: 35 Max: 100	0		
Outside air in	take			Possible	_		
Air filter, Qual	ity / Quantity			Procure locally	_		
Shock & vibra	ation absorber			Rubber sleeve(for fan motor)	Rubber sleeve (for fan motor & compressor		
Electric heate	r		W	_	20(Crank case heater)		
o ::	Remote control			(Option) Wired: RC-EX3A, RC-E5	, RCH-E3 Wireless : RCN-KIT4-E2		
Operation control	Room temperature control			Thermostat b	by electronics		
COLLIO	Operation display			-			
	•			Overload protect	tion for fan motor		
Safety equipn	nents				on thermostat		
odioty oquipi	nonto				stat for fan motor		
	T= 4.	Limited the e	+	-	emperature protection		
	Refrigerant piping size	Liquid line	mm	I/U φ 6.35 (1/4") ② φ 9.52 (3/8")x0.8	① ϕ 9.52 (3/8")x0.8 O/U ϕ 9.52 (3/8")		
	(O.D)	Gas line	+	, , , , , ,	① φ 15.88(5/8")x1.0 φ 15.88 (5/8")		
Installation	Connecting method		+	Flare piping	Flare piping		
data	Insulation for piping		+		Liquid & Gas lines)		
	Refrigerant line (one way) len		m	-	Max.100		
	Vertical height diff. between O/U	and I/U	m	Max.50 (Outdoor unit is higher)	Max.15 (Outdoor unit is lower)		
	Drain hose		1	Hose connectable VP25(I.D.25, O.D.32)	Hole size φ 20 x 3 pcs		
	max lift height		mm	Built-in drain pump , 600	_		
Recommende	ed breaker size		Α	-	-		
L.R.A. (Locke	d rotor ampere)		А		5.0		
Interconnection	ng wires Size x	Core number		φ 1.6mm x 3 cores + earth cable	/ Terminal block (Screw fixing type)		
IP number				IPX0	IP24		
Standard acc	essories			Mounting kit, Drain hose	_		
Option parts				Filter set: UM-FL2EF,	Motion sensor : LB-KIT		
				·			

()		5				The pipe length to 7.0m.
Item Indoor air temperature Outdoor		Outdoor air	temperature	External static pressure	Standards	
Operation	DB	WB	DB	WB	of indoor unit	Staridards
Cooling	27°C	19°C	35°C	24°C	35Pa	ISO5151-T1
Heating	20°C	_	7°C	6°C	35Fa	ISO5151-H1

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.

 (3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.

 (4) Select the breaker size according to the own national standard.

 (5) The operation data indicate when the air-conditioner is operated at 400V 50Hz or 380V 60Hz.

 (6) Indoor unit specifications for one unit. Capacity and operation data is two indoor units are combined and run together.

 (7) Branching pipe set "DIS-WA1G"×1(Option). ①: Pipe of O/U-Branch, ②: Pipe of Branch-I/U

 (8) Static pressure of option air filter "UM-FL2EF" is 5Pa initially.

 (9) The external static pressure setting can be changed to 10-100Pa. (For BC-FX3A and BC-F5 only)

- (9) The external static pressure setting can be changed to 10-100Pa. (For RC-EX3A and RC-E5 only)

			Model	FDUM140	VNXWPVH
Item				Indoor unit FDUM71VH (2 units)	Outdoor unit FDC140VNX-W
Power source				1 Phase, 220 - 240\	V 50Hz / 220V 60Hz
	Nominal cooling capacity (ra	ange)	kW	- `	.) - 16.0(Max.)]
	Nominal heating capacity (ra	ange)	kW	16.0 [2.7(Min.	.) - 18.0(Max.)]
	Power consumption	Cooling		3.	97
	Fower consumption	Heating	kW	3.	91
	Max power consumption			7.	10
	Diversing a surrout	Cooling		17.4	/ 18.2
	Running current	Heating	A	17.2	/ 18.0
	Inrush current, max current			5,	30
Operation	Operation C		0,	9	9
data	Power factor	Heating	- %	9	9
	EER	Cooling		3.	53
	COP	Heating		4.	10
		Cooling			69
	Sound power level	Heating	7	65	71
		Cooling	7		
	Sound pressure level	Heating	dB(A)	P-Hi: 38 Hi: 33 Me: 29 Lo: 25	54
	Silent mode	Cooling			50 /49(Normal/Silent)
	sound pressure level	Heating	7	_	51 /48(Normal/Silent)
Exterior dimer	nsions (Height x Width x Depth		mm	280 x 950 x 635	1300x970x370
Exterior appea		,	1	200 X 000 X 000	Stucco white
(Munsell color				_	(4.2Y7.5/1.1) near equivalent
(RAL color)	,				(RAL 7044) near equivalent
Net weight			kg	34	97
Compressor type & Q'ty		† <u> </u>	_	RMT5134SWP3 (Twin rotary type) x 1	
Compressor motor (Starting method)		kW	_	Direct line start	
Refrigerant oil (Amount, type)			L	_	0.9 (M-MB75)
Refrigerant (Type, amount, pre-charge length)		kg	B32 4 0 in outdoor unit (Incl. the	e amount for the piping of 30m)	
Heat exchanger		19	Louver fin & inner grooved tubing	M shape fin & inner grooved tubing	
Refrigerant control		+	-	pansion valve	
Fan type & Q'				Centrifugal fan x2	Propeller fan x2
	arting method)		W	130 < Direct line start >	86x2 < Direct line start >
	<u></u>	Cooling			SOME V BIROST III IO STAIRTY
Air flow		Heating	m³/min	P-Hi: 24 Hi: 19 Me: 15 Lo: 10	100
	rnal static pressure		Pa	Standard: 35 Max: 100	0
Outside air int			1	Possible	_
Air filter, Quali	· · · · · · · · · · · · · · · · · · ·			Procure locally	_
Shock & vibra				Rubber sleeve(for fan motor)	Rubber sleeve (for fan motor & compressor
Electric heater			W	_	20(Crank case heater)
Operation	Remote control			· · · · · · · · · · · · · · · · · · ·	, RCH-E3 Wireless : RCN-KIT4-E2
control	Room temperature control			Thermostat b	by electronics
	Operation display			-	_
					tion for fan motor
Safety equipm	nents				on thermostat stat for fan motor
					emperature protection
	Refrigerant piping size	Liquid line	†	I/U φ 9.52 (3/8") ② φ 9.52 (3/8")x0.8	① φ 9.52 (3/8")x0.8 O/U φ 9.52 (3/8")
	(O.D)	Gas line	mm	φ 15.88 (5/8") ② φ 15.88(5/8")x1.0	① φ 15.88(5/8")x1.0 φ 15.88 (5/8")
	Connecting method	1	1	Flare piping	Flare piping
Installation	Insulation for piping		1	11 0	Liquid & Gas lines)
data	Refrigerant line (one way) le	nath	m		Max.100
	Vertical height diff. between O/		m	Max.50 (Outdoor unit is higher)	Max.15 (Outdoor unit is lower)
	Drain hose		+	Hose connectable VP25(I.D.25, O.D.32)	Hole size φ 20 x 3 pcs
Drain pump, n			mm	Built-in drain pump , 600	-
	d breaker size		A	' ' '	<u> </u>
	d rotor ampere)		A		i.0
Interconnectin		Core number	A		/ Terminal block (Screw fixing type)
	ig wires Size X	Core number	+	φ 1.6mm x 3 cores + earm cable ;	IP24
IP number			+		IF24
Standard acce	535UTES		+	Mounting kit, Drain hose	Motion concor : LP KIT
Option parts	,		16	Filler Set : UIVI-FLZEF ,	Motion sensor : LB-KIT

Item	Indoor air temperature		Outdoor air	temperature	External static pressure	Standards	
Operation	DB	WB	DB	WB	of indoor unit	Staridards	
Cooling	27°C	19°C	35°C	24°C	35Pa	ISO5151-T1	
Heating	20°C	_	7℃	6°C	SSPa	ISO5151-H1	

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.
 (3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
 (4) Select the breaker size according to the own national standard.
 (5) The operation data indicate when the air-conditioner is operated at 400V 50Hz or 380V 60Hz.
 (6) Indoor unit specifications for one unit. Capacity and operation data is two indoor units are combined and run together.
 (7) Branching pipe set "DIS-WA1G"×1(Option). ①: Pipe of O/U-Branch, ②: Pipe of Branch-I/U
 (8) Static pressure of option air filter "UM-FL2EF" is 5Pa initially.
 (9) The external static pressure setting can be changed to 10-100Pa. (For RC-EX3A and RC-E5 only)

Nominal bacting capacity (range) KW 14.0 3.5 1.0 3.5 1.0 3.5 1.0 3.5 1.0 3.5 1.0 3.5 1.0 3.5 3.5 1.0 3.5				Model	FDUM140VSXWPVH			
Nominal cooling capacity (range)	Item				Indoor unit FDUM71VH (2 units)	Outdoor unit FDC140VSX-W		
Nominal healing capacity (varue)	Power source	· · · · · · · · · · · · · · · · · · ·			· · · · · · · · · · · · · · · · · · ·	V 50Hz / 380V 60Hz		
Power consumption		Nominal cooling capacity (ra	ange)	kW	14.0 [3.5(Min	.) - 16.0(Max.)]		
Power consumption		Nominal heating capacity (r	ange)	kW	16.0 [2.7(Min	.) - 20.0(Max.)]		
Power Consumption			- '					
Max power consumption Running current Cooling Running current Cooling Running current Cooling A 6.37 6.8		Power consumption		kW				
Running current Heating A		Max power consumption	1	1				
Numning current		max perrer concemption						
Inrush current, max current		Running current		Α				
Power factor Heating FeR Cooling FeR Cooling CoOling Fer Cooling CoOling Fer Cooling GoP Heating Go Gooling Gooling Fer Gooling Gooling Gooling Fer Gooling Fer Gooling Gooling Fer Go		Inrush current may current	Trouting	⊣ ′`				
Power factor	Operation	mach carrent, max carrent	Cooling					
EER		Power factor		- %				
COP	data	EED		+				
Sound power level Heating Cooling Heating Cooling Silent mode Cooling Heating Silent mode Cooling Heating Silent mode Sound pressure level Heating Silent mode Silent pressure Silent				-				
Sound pressure level		001		+		T		
Sound pressure level		Sound power level		-	65			
Sound pressure level				-		/ 1		
Silent mode Sound pressure level Heating - 50 /48(Normal/Silent)		Sound pressure level		dB(A)	P-Hi: 38 Hi: 33 Me: 29 Lo: 25	54		
Sound pressure level Heating		0.1		-		50 /40/Normal/Cilent\		
Exterior dimensions (Height x Width x Depth)				-	_	` ,		
Careford appearance		<u> </u>			000 050 005	,		
Munsell color)			1)	mm	280 x 950 x 635			
RAL color) RAL color) RBA Color) RBA Color) RBA Set Se								
Net weight	•	7)			_			
Compressor type & 0'ty	`			lea	24			
Refrigerant (Type, amount, type) L - 0.9 (M-MB75)		9 Olto		kg	· ·			
Departion Available external static pressure			144/					
Refrigerant (Type, amount, pre-charge length) kg R32 4.0 in outdoor unit (incl. the amount for the piping of 30m)	<u> </u>			_				
Louver fin & inner grooved tubing M shape fin & inner grooved tubing Electronic expansion valve	3 (, , , , , ,		+	_	, ,			
Electronic expansion valve Electronic expansion valve Earn type & C1ty Centrifugal fan x2 Propeller fan x2 Frogeller fan x2 Frogelle			kg	,	, , , , , , , , , , , , , , , , , , , ,			
Contribudal fan x2		<u> </u>		-				
Cooling								
Available external static pressure		·				·		
Part	Fan motor (St	arting method)	10 "	W	130 < Direct line start >	86x2 < Direct line start >		
Possible	Air flow			m³/min		100		
Air filter, Quality / Quantity Procure locally Procure locally Rubber sleeve (for fan motor) Rubber sleeve (for fan motor & compressor	Available exte	ernal static pressure		Pa	Standard: 35 Max: 100	0		
Rubber sleeve(for fan motor) Rubber sleeve (for fan motor) Rubber sleeve (for fan motor & compressor 20(Crank case heater)	Outside air int	take			Possible	_		
Remote control Remote control Room temperature protection termostat International protection for fan motor Room temperature protection Room temperature protection Room temperature protection Room	Air filter, Quali	ity / Quantity			Procure locally	_		
Remote control Remo	Shock & vibra	ation absorber			Rubber sleeve(for fan motor)	Rubber sleeve (for fan motor & compressor		
Room temperature control Operation display	Electric heate	r		W	_			
Norm temperature control Operation display	0	Remote control			(Option) Wired: RC-EX3A, RC-E5	, RCH-E3 Wireless : RCN-KIT4-E2		
Operation display		Room temperature control			Thermostat b	by electronics		
Frost protection thermostat Internal thermostat for fan motor Abnormal discharge temperature protection Refrigerant piping size (O.D) Refrigerant piping size (O.D) Connecting method Insulation for piping Refrigerant line (one way) length Vertical height diff. between O/U and I/U Drain hose Drain pump, max lift height Recommended breaker size Liquid line Gas line Mm Max.50 (Outdoor unit is higher) Max.15 (Outdoor unit is lower) Hose connectable VP25(I.D.25, O.D.32) Max.15 (Outdoor unit is lower) Hose connectable VP25(I.D.25, O.D.32) Recommended breaker size A Liquid line Max.50 (Outdoor unit is higher) Max.15 (Outdoor unit is lower) Hose connectable VP25(I.D.25, O.D.32) Max.15 (Outdoor unit is lower) Hose connectable VP25(I.D.25, O.D.32) Recommended breaker size A L.R.A. (Locked rotor ampere) A Size x Core number P number Mounting kit, Drain hose Flare piping Necessary (both Liquid & Gas lines) Max.15 (Outdoor unit is lower) A Flare piping Necessary (both Liquid & Gas lines) Max.15 (Outdoor unit is lower) A Flare piping Necessary (both Liquid & Gas lines) Max.15 (Outdoor unit is lower) Max.15 (Ou	CONTROL	Operation display			-	-		
Internal thermostat for fan motor Abnormal discharge temperature protection Abnor by 5.2 (3/8") 0, 9.52 (3/8") 0, 0 d, 9.52 (3/8"								
Refrigerant piping size (O.D) Gas line mm (O.D) Gas line Gas line Gas line Grant piping Size (O.D) Gas line Gas line Grant piping Gas line Grant line (one way) length Gas line Grant line (one way) length Min.3 , Max.100 Min.3 , Max.100 Min.3 , Max.100 Min.3 , Max.15 (Outdoor unit is lower) Max.50 (Outdoor unit is higher) Max.15 (Outdoor unit is lower) Min.3 , Max.15 (Outdoor unit is lower) Max.15 (Outdoor unit is lower) Min.3 , Max.15 (Outdoor unit is lower) Max.15 (Outdoor unit is lower) Min.3 , Max	Safety equipn	nents						
Refrigerant piping size	, , , , , ,							
O.D Gas line		Definement winter a sin-	Liquid line	1				
Installation data Connecting method Flare piping Flare pipi			<u> </u>	mm				
Insulation for piping Refrigerant line (one way) length m Max.50 (Outdoor unit is higher) Drain hose Drain pump, max lift height mm Built-in drain pump, 600 — Recommended breaker size A L.R.A. (Locked rotor ampere) Insulation for piping Refrigerant line (one way) length m Max.50 (Outdoor unit is higher) Max.50 (Outdoor unit is higher) Max.15 (Outdoor unit is lower) Hose connectable VP25(I.D.25, O.D.32) Hole size ϕ 20 x 3 pcs Built-in drain pump, 600 — L.R.A. (Locked rotor ampere) A 5.0 Interconnecting wires Size x Core number P number Mounting kit, Drain hose — Mounting kit, Drain hose — A Min.3, Max.100 Max.15 (Outdoor unit is lower) Max.15 (Outd		` '	Gas line	-				
Refrigerant line (one way) length m Min.3 , Max.100 Vertical height diff. between O/U and I/U m Max.50 (Outdoor unit is higher) Max.15 (Outdoor unit is lower) Drain hose Hose connectable VP25(I.D.25 , O.D.32) Hole size ϕ 20 x 3 pcs Drain pump, max lift height mm Built-in drain pump , 600 — Recommended breaker size A — L.R.A. (Locked rotor ampere) A 5.0 Interconnecting wires Size x Core number ϕ 1.6mm x 3 cores + earth cable / Terminal block (Screw fixing type) P number IPX0 IP24 Standard accessories Mounting kit, Drain hose —	Installation				11 0			
Vertical height diff. between O/U and I/U m Max.50 (Outdoor unit is higher) Max.15 (Outdoor unit is lower) Drain hose Hose connectable VP25(I.D.25, O.D.32) Hole size φ 20 x 3 pcs Drain pump, max lift height mm Built-in drain pump, 600 — Recommended breaker size A — L.R.A. (Locked rotor ampere) A 5.0 Interconnecting wires Size x Core number φ 1.6mm x 3 cores + earth cable / Terminal block (Screw fixing type) P number IPX0 IP24 Standard accessories Mounting kit, Drain hose —	data	11.0	nath					
Drain hose Hose connectable VP25(I.D.25 , O.D.32) Hole size φ 20 x 3 pcs Drain pump, max lift height mm Built-in drain pump , 600 — Recommended breaker size A — L.R.A. (Locked rotor ampere) A 5.0 Interconnecting wires Size x Core number φ 1.6mm x 3 cores + earth cable / Terminal block (Screw fixing type) P number IPX0 IP24 Standard accessories Mounting kit, Drain hose —				+				
Drain pump, max lift height mm Built-in drain pump, 600 — Recommended breaker size A — L.R.A. (Locked rotor ampere) A 5.0 Interconnecting wires Size x Core number φ 1.6mm x 3 cores + earth cable / Terminal block (Screw fixing type) P number IPX0 IP24 Standard accessories Mounting kit, Drain hose —		•	U and I/U	m	, , , , , , , , , , , , , , , , , , , ,			
Recommended breaker size A — L.R.A. (Locked rotor ampere) A 5.0 Interconnecting wires Size x Core number φ 1.6mm x 3 cores + earth cable / Terminal block (Screw fixing type) P number IPX0 IP24 Standard accessories Mounting kit, Drain hose —	Di.			-		Hole size φ 20 x 3 pcs		
L.R.A. (Locked rotor ampere) A 5.0 Interconnecting wires Size x Core number φ 1.6mm x 3 cores + earth cable / Terminal block (Screw fixing type) P number IPX0 IP24 Standard accessories Mounting kit, Drain hose —				+		_		
nterconnecting wires Size x Core number φ 1.6mm x 3 cores + earth cable / Terminal block (Screw fixing type) P number IPX0 IP24 Standard accessories Mounting kit, Drain hose —								
P number IPX0 IP24 Standard accessories Mounting kit, Drain hose —	,			A				
Standard accessories Mounting kit, Drain hose –		ng wires Size	Core number			1		
	IP number					IP24		
Option parts Filter set: UM-FL2EF, Motion sensor: LB-KIT		essories			<u> </u>	_		
	Option parts				Filter set: UM-FL2EF,	Motion sensor : LB-KIT		

Item	Indoor air t	emperature	Outdoor air	temperature	External static pressure	Standards	
Operation	DB	WB	DB	WB	of indoor unit	Staridards	
Cooling	27°C	19°C	35°C	24°C	35Pa	ISO5151-T1	
Heating	20°C	_	7℃	6°C	SSPa	ISO5151-H1	

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.
 (3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
 (4) Select the breaker size according to the own national standard.
 (5) The operation data indicate when the air-conditioner is operated at 400V 50Hz or 380V 60Hz.
 (6) Indoor unit specifications for one unit. Capacity and operation data is two indoor units are combined and run together.
 (7) Branching pipe set "DIS-WA1G"×1(Option). ①: Pipe of O/U-Branch, ②: Pipe of Branch-I/U
 (8) Static pressure of option air filter "UM-FL2EF" is 5Pa initially.
 (9) The external static pressure setting can be changed to 10-100Pa. (For RC-EX3A and RC-E5 only)

(c) Triple type

	Model			FDUM140VNXWTVH			
Item				Indoor unit FDUM50VH (3 units)	Outdoor unit FDC140VNX-W		
Power source				1 Phase, 220 - 240	V 50Hz / 220V 60Hz		
	Nominal cooling capacity (rar	nae)	kW	14.0 [3.5(Min	.) - 16.0(Max.)]		
	Nominal heating capacity (rar	<u> </u>	kW	- '	.) - 18.0(Max.)]		
		Cooling			<u> </u>		
Power consumption ——		Heating	kW	4.03 4.04			
	Max power consumption	Triodanig	- ``` `		10		
	Wax power consumption	Cooling	+		/ 18.7		
	Running current		- ,				
	Lawrence and the same of	Heating	Α		/ 18.5		
	Inrush current, max current	- I a			30		
Operation	Power factor	Cooling	- %		98		
data		Heating	1 1		99		
	EER	Cooling	_		48		
	COP	Heating		3.	96		
	Sound power level	Cooling		60	69		
	Souria power level	Heating		00	71		
	0	Cooling	-ID(A)	D. His 07 - His 00 - May 00 - Lay 00	5.4		
	Sound pressure level	Heating	dB(A)	P-Hi: 37 Hi: 32 Me: 29 Lo: 26	54		
	Silent mode	Cooling	7 1		50 /49(Normal/Silent)		
	sound pressure level	Heating	7 1	_	51 /48(Normal/Silent)		
Exterior dimen	nsions (Height x Width x Depth)		mm	280 x 750 x 635	1300x970x370		
Exterior appea				20011110011100	Stucco white		
(Munsell color)				_	(4.2Y7.5/1.1) near equivalent		
(RAL color)	,				(RAL 7044) near equivalent		
Net weight			kg	29	97		
Compressor ty	vne & O'tv		l is	_	RMT5134SWP3 (Twin rotary type) x 1		
	notor (Starting method)		kW	<u>_</u>	Direct line start		
· ·	(Amount, type)		L		0.9 (M-MB75)		
	, , , , ,	`			` '		
	ype, amount, pre-charge length	1)	kg	,	e amount for the piping of 30m)		
Heat exchange	-ii			Louver fin & inner grooved tubing	M shape fin & inner grooved tubing		
Refrigerant co					pansion valve		
Fan type & Q't	<u> </u>			Centrifugal fan x1	Propeller fan x2		
Fan motor (Sta	arting method)		W	100 < Direct line start >	86x2 < Direct line start >		
Air flow		Cooling Heating	m³/min	P-Hi: 13 Hi: 10 Me: 9 Lo: 8	100		
Available exter	rnal static pressure		Pa	Standard: 35 Max: 100	0		
	ake			Possible	_		
Outside air intake				Procure locally	_		
		Air filter, Quality / Quantity		·			
Air filter, Qualit	ty / Quantity			·	Rubber sleeve (for fan motor & compresso		
	ty / Quantity tion absorber		W	Rubber sleeve(for fan motor)	Rubber sleeve (for fan motor & compresso		
Air filter, Qualit Shock & vibrat	ty / Quantity tion absorber		W	Rubber sleeve(for fan motor)	20(Crank case heater)		
Air filter, Qualit Shock & vibrat Electric heater Operation	ty / Quantity tion absorber Remote control		W	Rubber sleeve(for fan motor) — (Option) Wired: RC-EX3A, RC-E5	20(Crank case heater) , RCH-E3 Wireless : RCN-KIT4-E2		
Air filter, Qualit Shock & vibrat Electric heater	ty / Quantity tion absorber Remote control Room temperature control		W	Rubber sleeve(for fan motor) — (Option) Wired: RC-EX3A, RC-E5	20(Crank case heater)		
Air filter, Qualit Shock & vibrat Electric heater Operation	ty / Quantity tion absorber Remote control		W	Rubber sleeve(for fan motor) — (Option) Wired: RC-EX3A, RC-E5 Thermostat I	20(Crank case heater) , RCH-E3 Wireless : RCN-KIT4-E2 by electronics		
Air filter, Qualit Shock & vibrat Electric heater Operation control	ty / Quantity tion absorber Remote control Room temperature control Operation display		W	Rubber sleeve(for fan motor) — (Option) Wired: RC-EX3A, RC-E5 Thermostat b Overload protect	20(Crank case heater) , RCH-E3 Wireless : RCN-KIT4-E2 oy electronics tion for fan motor		
Air filter, Qualit Shock & vibrat Electric heater Operation	ty / Quantity tion absorber Remote control Room temperature control Operation display		W	Rubber sleeve(for fan motor) — (Option) Wired: RC-EX3A, RC-E5 Thermostat to a contract of the	20(Crank case heater) , RCH-E3 Wireless : RCN-KIT4-E2 by electronics		
Air filter, Qualit Shock & vibrat Electric heater Operation control	ty / Quantity tion absorber Remote control Room temperature control Operation display		W	Rubber sleeve(for fan motor) — (Option) Wired: RC-EX3A, RC-E5 Thermostat I Overload protect Frost protecti Internal thermos	20(Crank case heater) , RCH-E3 Wireless : RCN-KIT4-E2 by electronics tion for fan motor on thermostat		
Air filter, Qualit Shock & vibrat Electric heater Operation control	ty / Quantity tion absorber Remote control Room temperature control Operation display	Liquid line		Rubber sleeve(for fan motor) — (Option) Wired: RC-EX3A, RC-E5 Thermostat I Overload protect Frost protecti Internal thermos	20(Crank case heater) , RCH-E3 Wireless : RCN-KIT4-E2 by electronics tion for fan motor on thermostat stat for fan motor		
Air filter, Qualit Shock & vibrat Electric heater Operation control	ty / Quantity tion absorber Remote control Room temperature control Operation display	Liquid line Gas line	W mm	Rubber sleeve(for fan motor) — (Option) Wired: RC-EX3A, RC-E5 Thermostat I Overload protect Frost protecti Internal thermos Abnormal discharge t I/U \$\phi\$ 6.35 (1/4") ② \$\phi\$ 9.52 (3/8")x0.8	20(Crank case heater) 1, RCH-E3 Wireless : RCN-KIT4-E2 20 electronics - tion for fan motor on thermostat stat for fan motor emperature protection		
Air filter, Qualit Shock & vibrat Electric heater Operation control	ty / Quantity tion absorber Remote control Room temperature control Operation display nents Refrigerant piping size			Rubber sleeve(for fan motor) — (Option) Wired: RC-EX3A, RC-E5 Thermostat I Overload protect Frost protecti Internal thermos Abnormal discharge t I/U \$\phi\$ 6.35 (1/4") ② \$\phi\$ 9.52 (3/8")x0.8	20(Crank case heater) 7, RCH-E3 Wireless : RCN-KIT4-E2 20y electronics		
Air filter, Qualit Shock & vibrat Electric heater Operation control Safety equipm	ty / Quantity tion absorber Remote control Room temperature control Operation display nents Refrigerant piping size (O.D)			Rubber sleeve(for fan motor)	20(Crank case heater) 7, RCH-E3 Wireless : RCN-KIT4-E2 20y electronics		
Air filter, Qualit Shock & vibrat Electric heater Operation control	ty / Quantity tion absorber Remote control Room temperature control Operation display nents Refrigerant piping size (O.D) Connecting method Insulation for piping	Gas line		Rubber sleeve(for fan motor)	20(Crank case heater) , RCH-E3 Wireless : RCN-KIT4-E2 by electronics tion for fan motor on thermostat stat for fan motor emperature protection ① \$\phi\$ 9.52 (3/8")x0.8 O/U \$\phi\$ 9.52 (3/8") ① \$\phi\$ 15.88(5/8")x1.0 \$\phi\$ 15.88 (5/8") Flare piping		
Air filter, Qualit Shock & vibrat Electric heater Operation control Safety equipm	ty / Quantity tion absorber Remote control Room temperature control Operation display nents Refrigerant piping size (O.D) Connecting method Insulation for piping Refrigerant line (one way) len	Gas line	— mm	Rubber sleeve(for fan motor)	20(Crank case heater) , RCH-E3 Wireless : RCN-KIT4-E2 by electronics		
Air filter, Qualit Shock & vibrat Electric heater Operation control Safety equipm	ty / Quantity tion absorber Remote control Room temperature control Operation display nents Refrigerant piping size (O.D) Connecting method Insulation for piping Refrigerant line (one way) lenvertical height diff. between O/U	Gas line	- mm	Rubber sleeve(for fan motor)	20(Crank case heater) , RCH-E3 Wireless : RCN-KIT4-E2 by electronics tion for fan motor on thermostat stat for fan motor emperature protection ① \$\phi\$ 9.52 (3/8")x0.8 O/U \$\phi\$ 9.52 (3/8") ① \$\phi\$ 15.88(5/8")x1.0 \$\phi\$ 15.88 (5/8") Flare piping Liquid & Gas lines) Max.100 Max.15 (Outdoor unit is lower)		
Air filter, Qualit Shock & vibrat Electric heater Operation control Safety equipm Installation data	ty / Quantity tion absorber Remote control Room temperature control Operation display nents Refrigerant piping size (O.D) Connecting method Insulation for piping Refrigerant line (one way) lenvertical height diff. between O/U Drain hose	Gas line	m m	Rubber sleeve(for fan motor)	20(Crank case heater) , RCH-E3 Wireless : RCN-KIT4-E2 by electronics		
Air filter, Qualit Shock & vibrat Electric heater Operation control Safety equipm Installation data Drain pump, m	ty / Quantity tion absorber Remote control Room temperature control Operation display nents Refrigerant piping size (O.D) Connecting method Insulation for piping Refrigerant line (one way) lenvertical height diff. between O/U Drain hose nax lift height	Gas line	m m	Rubber sleeve(for fan motor)	20(Crank case heater) , RCH-E3 Wireless : RCN-KIT4-E2 by electronics		
Air filter, Qualit Shock & vibrat Electric heater Operation control Safety equipm Installation data Drain pump, m Recommende	ty / Quantity tion absorber Remote control Room temperature control Operation display nents Refrigerant piping size (O.D) Connecting method Insulation for piping Refrigerant line (one way) len Vertical height diff. between O/U Drain hose nax lift height d breaker size	Gas line	m m m A	Rubber sleeve(for fan motor)	20(Crank case heater) 7, RCH-E3 Wireless : RCN-KIT4-E2 20y electronics		
Air filter, Qualit Shock & vibrat Electric heater Operation control Safety equipm Installation data Drain pump, m Recommende L.R.A. (Locket	ty / Quantity tion absorber Remote control Room temperature control Operation display nents Refrigerant piping size (O.D) Connecting method Insulation for piping Refrigerant line (one way) lenvertical height diff. between O/U Drain hose nax lift height d breaker size d rotor ampere)	Gas line gth and I/U	m m	Rubber sleeve(for fan motor) — (Option) Wired: RC-EX3A, RC-E5 Thermostat It Overload protect Frost protect Internal thermos Abnormal discharge t I/U \(\phi \) 6.35 (1/4") ② \(\phi \) 9.52 (3/8")x0.8 \(\phi \) 12.7 (1/2") ② \(\phi \) 12.7 (1/2")x0.8 Flare piping Necessary (both I Min.3, Max.50 (Outdoor unit is higher) Hose connectable VP25(I.D.25, O.D.32) Built-in drain pump, 600	20(Crank case heater) 7, RCH-E3 Wireless : RCN-KIT4-E2 20y electronics		
Air filter, Qualit Shock & vibrat Electric heater Operation control Safety equipm Installation data Drain pump, m Recommende L.R.A. (Locked Interconnectin	ty / Quantity tion absorber Remote control Room temperature control Operation display nents Refrigerant piping size (O.D) Connecting method Insulation for piping Refrigerant line (one way) lenvertical height diff. between O/U Drain hose nax lift height d breaker size d rotor ampere)	Gas line	m m m A	Rubber sleeve(for fan motor) — (Option) Wired: RC-EX3A, RC-E5 Thermostat It Overload protect Frost protect Internal thermos Abnormal discharge t I/U φ 6.35 (1/4") ② φ 9.52 (3/8")x0.8 φ 12.7 (1/2") ② φ 12.7(1/2")x0.8 Flare piping Necessary (both I Min.3, Max.50 (Outdoor unit is higher) Hose connectable VP25(I.D.25, O.D.32) Built-in drain pump, 600	20(Crank case heater) 7, RCH-E3 Wireless : RCN-KIT4-E2 20y electronics		
Air filter, Qualit Shock & vibrat Electric heater Operation control Safety equipm Installation data Drain pump, m Recommende L.R.A. (Locked Interconnectin IP number	ty / Quantity tion absorber Remote control Room temperature control Operation display nents Refrigerant piping size (O.D) Connecting method Insulation for piping Refrigerant line (one way) len Vertical height diff. between O/U Drain hose nax lift height d breaker size d rotor ampere) ng wires Size x 0	Gas line gth and I/U	m m m A	Rubber sleeve(for fan motor)	20(Crank case heater) 7, RCH-E3 Wireless : RCN-KIT4-E2 20y electronics		
Air filter, Qualitical Shock & vibrate Electric heater Operation control Safety equipmed Installation data Drain pump, maccommende L.R.A. (Locked Interconnection)	ty / Quantity tion absorber Remote control Room temperature control Operation display nents Refrigerant piping size (O.D) Connecting method Insulation for piping Refrigerant line (one way) len Vertical height diff. between O/U Drain hose nax lift height d breaker size d rotor ampere) ng wires Size x 0	Gas line gth and I/U	m m m A	Rubber sleeve(for fan motor) (Option) Wired: RC-EX3A, RC-E5 Thermostat Is Overload protection Internal thermost Abnormal discharge to the sleep in	20(Crank case heater) 7, RCH-E3 Wireless : RCN-KIT4-E2 20y electronics		

Notes (1) The data are measured at the following conditions.

Item			External static pressure	Standards		
Operation	DB	WB	DB	WB	of indoor unit	Standards
Cooling	27°C	19°C	35°C	24°C	35Pa	ISO5151-T1
Heating	20°C	_	7℃	6°C	SSFa	ISO5151-H1

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.
 (3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
 (4) Select the breaker size according to the own national standard.
 (5) The operation data indicate when the air-conditioner is operated at 400V 50Hz or 380V 60Hz.
 (6) Indoor unit specifications for one unit. Capacity and operation data is three indoor units are combined and run together.
 (7) Branching pipe set "DIS-TA1G"×1(Option). ①: Pipe of O/U-Branch, ②: Pipe of Branch-I/U
 (8) Static pressure of option air filter "UM-FL1EF" is 5Pa initially.
 (9) The external static pressure setting can be changed to 10-100Pa. (For RC-EX3A and RC-E5 only)

			Model	FDUM140VSXWTVH			
Item				Indoor unit FDUM50VH (3 units)	Outdoor unit FDC140VSX-W		
Power source				3 Phase, 380 - 415	V 50Hz / 380V 60Hz		
	Nominal cooling capacity (ra	ange)	kW	14.0 [3.5(Min	.) - 16.0(Max.)]		
	Nominal heating capacity (ra	ange)	kW	16.0 [2.7(Min	.) - 20.0(Max.)]		
		Cooling		4.	03		
	Power consumption	Heating	kW	4.	04		
	Max power consumption			8.	90		
		Cooling			7.2		
	Running current	Heating	A	6.8			
	Inrush current, max current	rioding	⊣ ′′		17		
Operation	masir carrent, max carrent	Cooling			15		
Operation data	Power factor	Heating	- %		66		
data	EER	Cooling			48		
	COP				96		
	COP	Heating		3.	T		
	Sound power level	Cooling		60	69		
		Heating			71		
	Sound pressure level	Cooling	dB(A)	P-Hi: 37 Hi: 32 Me: 29 Lo: 26	54		
		Heating	_ ' ' '		-		
	Silent mode	Cooling		_	50 /49(Normal/Silent)		
	sound pressure level	Heating			51 /48(Normal/Silent)		
Exterior dimen	nsions (Height x Width x Depth	i)	mm	280 x 750 x 635	1300x970x370		
Exterior appea					Stucco white		
(Munsell color))			_	(4.2Y7.5/1.1) near equivalent		
(RAL color)					(RAL 7044) near equivalent		
Net weight			kg	29	99		
Compressor ty	ype & Q'ty			-	RMT5134SWP4 (Twin rotary type) x 1		
Compressor m	notor (Starting method)		kW	1	Direct line start		
Refrigerant oil	(Amount, type)		L	_	0.9 (M-MB75)		
Refrigerant (Ty	ype, amount, pre-charge lengt	:h)	kg	R32 4.0 in outdoor unit (Incl. th	e amount for the piping of 30m)		
Heat exchange	er			Louver fin & inner grooved tubing	M shape fin & inner grooved tubing		
Refrigerant cor	ntrol			Electronic ex	pansion valve		
Fan type & Q't	ty			Centrifugal fan x1	Propeller fan x2		
Fan motor (Sta	arting method)		W	100 < Direct line start >	86x2 < Direct line start >		
,	3	Cooling	2.				
Air flow		Heating	m³/min	P-Hi: 13 Hi: 10 Me: 9 Lo: 8	100		
Available exter	rnal static pressure	1110441119	Pa	Standard: 35 Max: 100	0		
Outside air inta	<u> </u>		1	Possible	_		
				Procure locally	_		
Air filter, Quality / Quantity				·	Rubber sleeve (for fan motor & compressor		
	Shock & vibration absorber			, , ,			
Shock & vibrat			W		20(Crank case heater)		
	,		W	(Option) Wired : BC-EY3A BC-E5	20(Crank case heater)		
Shock & vibrat	Remote control		W	· · · · · · · · · · · · · · · · · · ·	, RCH-E3 Wireless : RCN-KIT4-E2		
Shock & vibrat Electric heater	Remote control Room temperature control		W	· · · · · · · · · · · · · · · · · · ·	,		
Shock & vibrat Electric heater Operation	Remote control		W	Thermostat b	, RCH-E3 Wireless : RCN-KIT4-E2 by electronics		
Shock & vibrat Electric heater Operation control	Remote control Room temperature control Operation display		W	Thermostat b	, RCH-E3 Wireless : RCN-KIT4-E2 by electronics - tion for fan motor		
Shock & vibrat Electric heater Operation	Remote control Room temperature control Operation display		W	Thermostat b - Overload protect Frost protecti	, RCH-E3 Wireless : RCN-KIT4-E2 by electronics		
Shock & vibrat Electric heater Operation control	Remote control Room temperature control Operation display		W	Thermostat by Coverload protection of the Coverload protec	, RCH-E3 Wireless : RCN-KIT4-E2 by electronics tion for fan motor on thermostat		
Shock & vibrat Electric heater Operation control	Remote control Room temperature control Operation display	Liquid line		Thermostat by Coverload protection of the Coverload protec	, RCH-E3 Wireless : RCN-KIT4-E2 by electronics tion for fan motor on thermostat stat for fan motor		
Shock & vibrat Electric heater Operation control	Remote control Room temperature control Operation display	Liquid line Gas line	W mm	Thermostat by Coverload protect Frost protection Internal thermost Abnormal discharge to I/U \$\phi\$ 6.35 (1/4") Thermostat by Coverload protection of the Coverload pr	, RCH-E3 Wireless : RCN-KIT4-E2 by electronics tion for fan motor on thermostat stat for fan motor emperature protection		
Shock & vibrat Electric heater Operation control	Remote control Room temperature control Operation display eents Refrigerant piping size			Thermostat by Coverload protect Frost protection Internal thermost Abnormal discharge to I/U \$\phi\$ 6.35 (1/4") Thermostat by Coverload protection in the protection of th	, RCH-E3 Wireless : RCN-KIT4-E2 by electronics tion for fan motor on thermostat stat for fan motor emperature protection ① \$\phi\$ 9.52 (3/8")x0.8 O/U \$\phi\$ 9.52 (3/8")		
Shock & vibrat Electric heater Operation control Safety equipment	Remote control Room temperature control Operation display eents Refrigerant piping size (O.D)			Thermostat b Overload protect Frost protecti Internal thermos Abnormal discharge t I/U φ 6.35 (1/4") ② φ 9.52 (3/8")x0.8 φ 12.7 (1/2") ② φ 12.7(1/2")x0.8 Flare piping	, RCH-E3 Wireless : RCN-KIT4-E2 by electronics tion for fan motor on thermostat stat for fan motor emperature protection ① φ 9.52 (3/8")x0.8 O/U φ 9.52 (3/8") ① φ 15.88(5/8")x1.0 φ 15.88 (5/8")		
Shock & vibrat Electric heater Operation control	Remote control Room temperature control Operation display ents Refrigerant piping size (O.D) Connecting method	Gas line		Thermostat b Overload protect Frost protecti Internal thermos Abnormal discharge t I/U \(\phi \) 6.35 (1/4") ② \(\phi \) 9.52 (3/8")x0.8 \(\phi \) 12.7 (1/2") ② \(\phi \) 12.7(1/2")x0.8 Flare piping Necessary (both I	, RCH-E3 Wireless : RCN-KIT4-E2 by electronics - tion for fan motor on thermostat stat for fan motor emperature protection ① φ 9.52 (3/8")x0.8 O/U φ 9.52 (3/8") ① φ 15.88(5/8")x1.0 φ 15.88 (5/8") Flare piping		
Shock & vibrat Electric heater Operation control Safety equipment	Remote control Room temperature control Operation display Tents Refrigerant piping size (O.D) Connecting method Insulation for piping Refrigerant line (one way) lei	Gas line	- mm	Thermostat b Overload protect Frost protecti Internal thermos Abnormal discharge t I/U \(\phi \) 6.35 (1/4") ② \(\phi \) 9.52 (3/8")x0.8 \(\phi \) 12.7 (1/2") ② \(\phi \) 12.7(1/2")x0.8 Flare piping Necessary (both I	RCH-E3 Wireless: RCN-KIT4-E2 by electronics tion for fan motor on thermostat stat for fan motor emperature protection ① φ 9.52 (3/8")x0.8 O/U φ 9.52 (3/8") ① φ 15.88(5/8")x1.0 φ 15.88 (5/8") Flare piping iquid & Gas lines) Max.100		
Shock & vibrat Electric heater Operation control Safety equipment	Remote control Room temperature control Operation display Tents Refrigerant piping size (O.D) Connecting method Insulation for piping Refrigerant line (one way) let Vertical height diff. between O/	Gas line	— mm	Thermostat b Overload protect Frost protecti Internal thermos Abnormal discharge t I/U φ 6.35 (1/4") ② φ 9.52 (3/8")x0.8 φ 12.7 (1/2") ② φ 12.7(1/2")x0.8 Flare piping Necessary (both I Min.3 , I Max.50 (Outdoor unit is higher)	RCH-E3 Wireless: RCN-KIT4-E2 by electronics - tion for fan motor on thermostat stat for fan motor emperature protection ① φ 9.52 (3/8")x0.8 O/U φ 9.52 (3/8") ① φ 15.88(5/8")x1.0 φ 15.88 (5/8") Flare piping Liquid & Gas lines) Max.100 Max.15 (Outdoor unit is lower)		
Shock & vibrat Electric heater Operation control Safety equipment Installation data	Remote control Room temperature control Operation display lents Refrigerant piping size (O.D) Connecting method Insulation for piping Refrigerant line (one way) let Vertical height diff. between O/I Drain hose	Gas line	m m	Thermostat b Overload protect Frost protecti Internal thermos Abnormal discharge t I/U φ 6.35 (1/4") ② φ 9.52 (3/8")x0.8 φ 12.7 (1/2") ② φ 12.7(1/2")x0.8 Flare piping Necessary (both I Min.3 , I Max.50 (Outdoor unit is higher) Hose connectable VP25(I.D.25 , O.D.32)	RCH-E3 Wireless: RCN-KIT4-E2 by electronics tion for fan motor on thermostat stat for fan motor emperature protection ① φ 9.52 (3/8")x0.8 O/U φ 9.52 (3/8") ① φ 15.88(5/8")x1.0 φ 15.88 (5/8") Flare piping Liquid & Gas lines) Max.100		
Shock & vibrat Electric heater Operation control Safety equipme	Remote control Room temperature control Operation display The state of the state o	Gas line	m m	Thermostat b Overload protect Frost protecti Internal thermos Abnormal discharge t I/U φ 6.35 (1/4") ② φ 9.52 (3/8")x0.8 φ 12.7 (1/2") ② φ 12.7(1/2")x0.8 Flare piping Necessary (both I Min.3 , I Max.50 (Outdoor unit is higher)	RCH-E3 Wireless: RCN-KIT4-E2 by electronics - tion for fan motor on thermostat stat for fan motor emperature protection ① φ 9.52 (3/8")x0.8 O/U φ 9.52 (3/8") ① φ 15.88(5/8")x1.0 φ 15.88 (5/8") Flare piping Liquid & Gas lines) Max.100 Max.15 (Outdoor unit is lower)		
Shock & vibrat Electric heater Operation control Safety equipmed Installation data Drain pump, m Recommended	Remote control Room temperature control Operation display Tents Refrigerant piping size (O.D) Connecting method Insulation for piping Refrigerant line (one way) let Vertical height diff. between O/I Drain hose nax lift height d breaker size	Gas line	m m m A	Thermostat b Overload protect Frost protecti Internal thermos Abnormal discharge t I/U \(\phi \) 6.35 (1/4") ② \(\phi \) 9.52 (3/8")x0.8 \(\phi \) 12.7 (1/2") ② \(\phi \) 12.7 (1/2")x0.8 Flare piping Necessary (both I Min.3, I Max.50 (Outdoor unit is higher) Hose connectable VP25(I.D.25, O.D.32) Built-in drain pump, 600	RCH-E3 Wireless: RCN-KIT4-E2 by electronics tion for fan motor on thermostat stat for fan motor (Î) φ 9.52 (3/8")x0.8 O/U φ 9.52 (3/8") (Î) φ 15.88(5/8")x1.0 φ 15.88 (5/8") Flare piping iquid & Gas lines) Max.100 Max.15 (Outdoor unit is lower) Hole size φ 20 x 3 pcs		
Shock & vibrat Electric heater Operation control Safety equipmed Installation data Drain pump, m Recommended L.R.A. (Locked	Remote control Room temperature control Operation display The state of the state o	Gas line ngth U and I/U	m m	Thermostat b Overload protect Frost protecti Internal thermos Abnormal discharge t I/U \$\phi\$ 6.35 (1/4") ② \$\phi\$ 9.52 (3/8")x0.8 \$\phi\$ 12.7 (1/2") ③ \$\phi\$ 12.7(1/2")x0.8 Flare piping Necessary (both I Min.3, I Max.50 (Outdoor unit is higher) Hose connectable VP25(I.D.25, O.D.32) Built-in drain pump, 600	RCH-E3 Wireless: RCN-KIT4-E2 by electronics tion for fan motor on thermostat stat for fan motor \$\hat{1} \phi 9.52 (3/8")x0.8 O/U \phi 9.52 (3/8") \$\hat{1} \phi 15.88(5/8")x1.0 p 15.88 (5/8") Flare piping iquid & Gas lines) Max.100 Max.15 (Outdoor unit is lower) Hole size \phi 20 x 3 pcs		
Shock & vibrat Electric heater Operation control Safety equipme Installation data Drain pump, m Recommended L.R.A. (Locked Interconnecting	Remote control Room temperature control Operation display The state of the state o	Gas line	m m m A	Thermostat by Overload protect Frost protection Internal thermost Abnormal discharge I/U \$\phi\$ 6.35 (1/4") \$\hat{2}\$ \$\phi\$ 9.52 (3/8")x0.8 \$\phi\$ 12.7 (1/2") \$\hat{2}\$ \$\phi\$ 12.7(1/2")x0.8 \$\frac{1}{2}\$ Flare piping Necessary (both 1 Min.3, 1 Max.50 (Outdoor unit is higher) Hose connectable VP25(I.D.25, O.D.32) \$\hat{2}\$ Built-in drain pump, 600	RCH-E3 Wireless: RCN-KIT4-E2 by electronics tion for fan motor on thermostat stat for fan motor \$\tilde{\pha}\$ 9.52 (3/8")x0.8 O/U \$\phi\$ 9.52 (3/8") \$\tilde{\pha}\$ \$\pha\$ 15.88(5/8")x1.0 \$\phi\$ 15.88 (5/8") Flare piping iquid & Gas lines) Max.100 Max.15 (Outdoor unit is lower) Hole size \$\phi\$ 20 x 3 pcs		
Shock & vibrat Electric heater Operation control Safety equipmed Installation data Drain pump, m Recommended L.R.A. (Locked Interconnecting IP number	Remote control Room temperature control Operation display The second	Gas line ngth U and I/U	m m m A	Thermostat by Overload protect Frost protection Internal thermost Abnormal discharge I/U \$\phi\$ 6.35 (1/4") \$\overline{2}\$ \$\phi\$ 9.52 (3/8")x0.8 \$\phi\$ 12.7 (1/2") \$\overline{2}\$ \$\phi\$ 12.7(1/2")x0.8 Flare piping Necessary (both I Min.3., I Max.50 (Outdoor unit is higher) Hose connectable VP25(I.D.25, O.D.32) Built-in drain pump, 600 \$\square \text{q}\$ 1.6mm x 3 cores + earth cable IPX0	RCH-E3 Wireless: RCN-KIT4-E2 by electronics tion for fan motor on thermostat stat for fan motor \$\hat{\psi} \phi 9.52 (3/8")x0.8		
Shock & vibrat Electric heater Operation control Safety equipme Installation data Drain pump, m Recommended L.R.A. (Locked Interconnecting	Remote control Room temperature control Operation display The second	Gas line ngth U and I/U	m m m A	Thermostat by Overload protect Frost protection Internal thermost Abnormal discharge I/U \$\phi\$ 6.35 (1/4") \$\overline{2}\$ \$\phi\$ 9.52 (3/8")x0.8 \$\phi\$ 12.7 (1/2") \$\overline{2}\$ \$\phi\$ 12.7(1/2")x0.8 Flare piping Necessary (both I Min.3., I Max.50 (Outdoor unit is higher) Hose connectable VP25(I.D.25, O.D.32) Built-in drain pump, 600 \$\square 1.6mm x 3 \text{ cores} + \text{ earth cable IPX0} Mounting kit, Drain hose	RCH-E3 Wireless: RCN-KIT4-E2 by electronics tion for fan motor on thermostat stat for fan motor \$\hat{\psi} \phi 9.52 (3/8")x0.8		

()		5				The pipe length to 7.0m.
Item	Indoor air t	emperature	Outdoor air	temperature	External static pressure	Standards
Operation	DB	WB	DB	WB	of indoor unit	Staridards
Cooling	27°C	19°C	35°C	24°C	35Pa	ISO5151-T1
Heating	20°C	_	7°C	6°C	35Fa	ISO5151-H1

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.
 (3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
 (4) Select the breaker size according to the own national standard.
 (5) The operation data indicate when the air-conditioner is operated at 230V 50Hz or 220V 60Hz.
 (6) Indoor unit specifications for one unit. Capacity and operation data is three indoor units are combined and run together.
 (7) Branching pipe set "DIS-TA1G"×1(Option). ①: Pipe of O/U-Branch, ②: Pipe of Branch-I/U
 (8) Static pressure of option air filter "UM-FL1EF" is 5Pa initially.
 (9) The external static pressure setting can be changed to 10-100Pa. (For RC-EX3A and RC-E5 only)

(5) Ceiling suspended type (FDE)

(a) Single type

Item			Model		VNXWVH
Item				Indoor unit FDE100VH	Outdoor unit FDC100VNX-W
Power source				,	0V 50Hz / 220V 60Hz
	Nominal cooling capacity (ra		kW		n.) - 11.2(Max.)]
	Nominal heating capacity (ra	- '	kW		n.) - 12.5(Max.)]
	Power consumption	Power consumption Cooling			.33
	1 ower consumption	Heating	kW	2	.52
	Max power consumption			7	.10
		Cooling		10.4	/ 10.8
	Running current	Heating	T A F	11.1	/ 11.6
	Inrush current, max current		1	5.	, 25
Operation	, , , ,	Cooling			98
data	Power factor	Heating	- % -		99
	EER	Cooling	+		.29
	COP	Heating			.45
	COP		+	4	.45
	Sound power level	Cooling	4	64	67
		Heating	_		
	Sound pressure level	Cooling	dB(A)	P-Hi: 48 Hi: 43 Me: 38 Lo: 34	53
	Courta procedio level	Heating	_ GD() _	1 111. 10 111. 10 1110. 00 20. 01	51
	Silent mode	Cooling			49 /48(Normal/Silent)
	sound pressure level	Heating		_	48 /48(Normal/Silent)
Exterior dimer	nsions (Height x Width x Depth)	mm	250 x 1620 x 690	1300x970x370
Exterior appea	arance			Plaster white	Stucco white
(Munsell color	r)			(6.8Y8.9/0.2) near equivalent	(4.2Y7.5/1.1) near equivalent
(RAL color)				(RAL 9003) near equivalent	(RAL 7044) near equivalent
Net weight			kg	43	97
Compressor t	vpe & Q'tv			_	RMT5134SWP3 (Twin rotary type)×1
<u> </u>	notor (Starting method)		kW	_	Direct line start
	I (Amount, type)		L		0.9 (M-MB75)
	Type, amount, pre-charge lengt	h)	kg	P22 4 0 in outdoor unit (Incl. th	ne amount for the piping of 30m)
Heat exchang	··	11)	l kg	Louver fin & inner grooved tubing	M shape fin & inner grooved tubing
	<u></u>		+	· · · · · · · · · · · · · · · · · · ·	
Refrigerant co					kpansion valve
Fan type & Q'			-	Centrifugal fan ×4	Propeller fan x2
Fan motor (St	arting method)		W	80 < Direct line start >	86x2 < Direct line start >
Air flow		Cooling Heating	m³/min	P-Hi: 32 Hi: 26 Me: 21 Lo: 16.5	100
Available exte	ernal static pressure		Pa	0	0
Outside air int	take			Not possible	_
Air filter, Quali	ity / Quantity			Pocket plastic net x2(Washable)	_
Shock & vibra	ation absorber			Rubber sleeve(for fan motor)	Rubber sleeve (for fan motor & compressor)
Electric heate			W	_	20(Crank case heater)
	Remote control		+ " +	(Ontion) Wired : BC-FX3A BC-	E5 , RCH-E3 Wireless : RCN-E-E3
Operation	Room temperature control				by electronics
control	Operation display			memostat	by dictionics
	Operation display		+ +	Overland protes	tion for fan motor
					ion thermostat
Safety equipn	nents				stat for fan motor
					temperature protection
	Refrigerant piping size	Liquid line		-	52 (3/8")x0.8 Ο/U φ 9.52 (3/8")
	(O.D)	Gas line	mm -	, , , , , ,	(5/8")x1.0 φ 15.88 (5/8")
	Connecting method		+ +	Flare piping	Flare piping
Installation	Insulation for piping				Liquid & Gas lines)
data	Refrigerant line (one way) let	aath			Max.100
			m		
	Vertical height diff. between O/	U and I/U	m	Max.50 (Outdoor unit is higher)	Max.15 (Outdoor unit is lower)
	Drain hose			Hose connectable with VP20(O.D.26)	Hole size φ 20 x 3 pcs
Drain pump, r			mm		_
Recommende	ed breaker size		A		_
L.R.A. (Locked	d rotor ampere)		А		5.0
Interconnectir	ng wires Size x	Core number		φ 1.6mm x3 cores + earth cable	/ Terminal block (Screw fixing type)
IP number				IPX0	IP24
Standard acc	essories			Mounting kit, Drain hose	_
Option parts			1	-	ensor: LB-E
- 1 Par. 10		ollowing condition			

Notes (1) The data are measured at the following conditions.

The	pipe	length	is	7.5m

()	,						
Ite	em Inc	loor air t	temperature	Outdoor air	temperature	Standards	
Operation)B	WB	DB	WB	Standards	
Cooling	2	7℃	19°C	35°C	24°C	ISO5151-T1	
Heating	20	Ĵ℃	_	7°C	6°C	ISO5151-H1	

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.
 (3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
 (4) Select the breaker size according to the own national standard.
 (5) The operation data indicate when the air-conditioner is operated at 230V 50Hz or 220V 60Hz.

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			Model		VSXWVH		
Item				Indoor unit FDE100VH	Outdoor unit FDC100VSX-W		
Power source				3 Phase, 380 - 415	V 50Hz / 380V 60Hz		
	Nominal cooling capacity (ra	ange)	kW	10.0 [3.5(Min	n.) - 11.2(Max.)]		
	Nominal heating capacity (ra	ange)	kW	11.2 [2.7(Min	n.) - 16.0(Max.)]		
	Power consumption	Cooling		2.33			
	Fower consumption	Heating	kW	2.	52		
	Max power consumption			8.	.90		
	Bunning ourrent	Cooling		4.0	/ 4.2		
	Running current	Heating	A	4.2	/ 4.4		
	Inrush current, max current			5,	14		
Operation	Dfastan	Cooling	0/	3	35		
data	Power factor	Heating	%	3	36		
	EER	Cooling		4.	.29		
	COP	Heating	7	4.	.45		
		Cooling		24	0.7		
	Sound power level	Heating	7	64	67		
		Cooling	1 . <u>.</u>		53		
	Sound pressure level	Heating	dB(A)	P-Hi: 48 Hi: 43 Me: 38 Lo: 34	51		
	Silent mode	Cooling	7		49 /48(Normal/Silent)		
	sound pressure level	Heating	7	_	48 /48(Normal/Silent)		
Exterior dimer	nsions (Height x Width x Depth		mm	250 x 1620 x 690	1300x970x370		
Exterior appea		•		Plaster white	Stucco white		
(Munsell color				(6.8Y8.9/0.2) near equivalent	(4.2Y7.5/1.1) near equivalent		
(RAL color)				(RAL 9003) near equivalent	(RAL 7044) near equivalent		
Net weight			kg	43	99		
Compressor ty	ype & Q'ty			_	RMT5134SWP4 (Twin rotary type)×1		
Compressor n	notor (Starting method)		kW	_	Direct line start		
Refrigerant oil	(Amount, type)		L	_	0.9 (M-MB75)		
Refrigerant (T	ype, amount, pre-charge lengt	th)	kg	R32 4.0 in outdoor unit (Incl. th	ne amount for the piping of 30m)		
Heat exchang	er	,		Louver fin & inner grooved tubing	M shape fin & inner grooved tubing		
Refrigerant co	ntrol			Electronic ex	pansion valve		
Fan type & Q'				Centrifugal fan ×4	Propeller fan x2		
Fan motor (Sta	arting method)		W	80 < Direct line start >	86x2 < Direct line start >		
Air flow	,	Cooling Heating	m³/min	P-Hi: 32 Hi: 26 Me: 21 Lo: 16.5	100		
Available exte	rnal static pressure	rieating	Pa	0	0		
Outside air int	<u> </u>		- 1 α	Not possible	_		
Air filter, Quali				Pocket plastic net x2(Washable)	_		
Shock & vibra	<u> </u>		+	Rubber sleeve(for fan motor)	Rubber sleeve (for fan motor & compressor		
Electric heater			W	- Aubbei sieeve(ioi lait motor)	20(Crank case heater)		
Liectric rieatei	Remote control		- VV	(Option) Wired : PC EV2A PC E	E5 , RCH-E3 Wireless : RCN-E-E3		
Operation	Room temperature control		+		by electronics		
control	Operation display			memostari	by electronics		
	Operation display			Overload protect	tion for fan motor		
					ion thermostat		
Safety equipm	ents				stat for fan motor		
				3	temperature protection		
	Refrigerant piping size	Liquid line	mm	I/U φ 9.52 (3/8") Pipe φ 9.5	2 (3/8")x0.8 Ο/U φ 9.52 (3/8")		
	(O.D)	Gas line	111111	φ 15.88 (5/8") φ 15.88	(5/8")x1.0 φ 15.88 (5/8")		
Inotallatics	Connecting method			Flare piping	Flare piping		
Installation data	Insulation for piping			Necessary (both	Liquid & Gas lines)		
aata	Refrigerant line (one way) le	ngth	m	Min.3 ,	Max.100		
	Vertical height diff. between O/	U and I/U	m	Max.50 (Outdoor unit is higher)	Max.15 (Outdoor unit is lower)		
	Drain hose			Hose connectable with VP20(O.D.26)	Hole size φ 20 x 3 pcs		
Drain pump, n	nax lift height		mm	_	_		
Recommende		,	А		_		
L.R.A. (Locked	d rotor ampere)		А	5	5.0		
Interconnectin		Core number			/ Terminal block (Screw fixing type)		
IP number	= 1			IPX0	IP24		
Standard acce	essories			Mounting kit, Drain hose	_		
Option parts				-	ensor : LB-E		

The pipe length is 7.5m.

` '		O			The pipe length to Tierri
Item	Indoor air t	emperature	Outdoor air	temperature	Standards
Operation	DB	WB	DB	WB	Standards
Cooling	27°C	19°C	35°C	24°C	ISO5151-T1
Heating	20°C	_	7°C	6°C	ISO5151-H1

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.
 (3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
 (4) Select the breaker size according to the own national standard.
 (5) The operation data indicate when the air-conditioner is operated at 400V 50Hz or 380V 60Hz.

PFA004Z088 🛦

			Model	FDE125	SVNXWVH
Item				Indoor unit FDE125VH	Outdoor unit FDC125VNX-W
Power source	•			1 Phase, 220 - 240	OV 50Hz / 220V 60Hz
	Nominal cooling capacity (r	ange)	kW	12.5 [3.5(Mii	n.) - 14.0(Max.)]
	Nominal heating capacity (r	ange)	kW	14.0 [2.7(Mii	n.) - 17.0(Max.)]
	Dower consumption	Cooling		3	3.34
	Power consumption Heating		kW	3	3.74
	Max power consumption		7 [7	7.10
Running current Cooling Heating			14.7	7 / 15.3	
			16.4	/ 17.2	
	Inrush current, max current		1	5	, 27
Operation		Cooling	0.6		
data	Power factor	Heating	- %		99
	EER	Cooling		3	3.75
	COP	Heating	1		3.74
		Cooling			68
	Sound power level	Heating	-	64	70
		Cooling	⊣ ⊢		53
	Sound pressure level	Heating	dB(A)	P-Hi: 48 Hi: 45 Me: 40 Lo: 35	54
	Silent mode	Cooling			50 /49(Normal/Silent)
	sound pressure level	Heating	\dashv	_	50 /48(Normal/Silent)
Exterior dimor	nsions (Height x Width x Dept		mm	250 x 1620 x 690	1300x970x370
Exterior appea		"	111111	Plaster white	Stucco white
(Munsell color				(6.8Y8.9/0.2) near equivalent	(4.2Y7.5/1.1) near equivalent
(RAL color)	,			(RAL 9003) near equivalent	(RAL 7044) near equivalent
Net weight			kg	43	97
Compressor to	vne & O'tv		l Ng	_	RMT5134SWP3 (Twin rotary type)×1
	motor (Starting method)		kW		Direct line start
	I (Amount, type)		L		0.9 (M-MB75)
	Type, amount, pre-charge leng	th)	kg		he amount for the piping of 30m)
Heat exchang	71 71 0 0	ш)	l kg	Louver fin & inner grooved tubing	M shape fin & inner grooved tubing
Refrigerant co	<u></u>				xpansion valve
Fan type & Q'				Centrifugal fan ×4	Propeller fan x2
	<u> </u>		W	80 < Direct line start >	·
ran motor (St	arting method)	Caalina	VV	80 < Direct line start >	86x2 < Direct line start >
Air flow		Cooling Heating	m³/min	P-Hi: 32 Hi: 29 Me: 23 Lo: 17	100
Available exte	ernal static pressure		Pa	0	0
Outside air int	take			Not possible	_
Air filter, Quali	ity / Quantity			Pocket plastic net x2(Washable)	_
Shock & vibra	ation absorber			Rubber sleeve(for fan motor)	Rubber sleeve (for fan motor & compressor
Electric heater	r		W	_	20(Crank case heater)
O	Remote control			(Option) Wired: RC-EX3A, RC-	E5 , RCH-E3 Wireless : RCN-E-E3
Operation control	Room temperature control			Thermostat	by electronics
CONTROL	Operation display				_
					ction for fan motor
Safety equipm	nents				tion thermostat
					stat for fan motor
	Definement winter a nin-	Liquid line	+ +	<u> </u>	temperature protection 52 (3/8")x0.8 O/U φ 9.52 (3/8")
	Refrigerant piping size (O.D)		mm		
	` '	Gas line	+ +		8(5/8")x1.0 φ 15.88 (5/8") Flare piping
Installation	Connecting method		+ +	Flare piping	1 1 0
Refrigerant line (one way) length		un ath	100		Liquid & Gas lines)
			m		Max.100
	Vertical height diff. between O/U and I/U		m	Max.50 (Outdoor unit is higher)	Max.15 (Outdoor unit is lower)
	Drain hose		+ +	Hose connectable with VP20(O.D.26)	Hole size φ 20 x 3 pcs
		Drain pump, max lift height			
	max lift height		mm		
Recommende	max lift height ed breaker size		А		_
Recommende L.R.A. (Locked	max lift height ed breaker size d rotor ampere)				5.0
Recommende L.R.A. (Locked Interconnection	max lift height ed breaker size d rotor ampere)	x Core number	А	ϕ 1.6mm x3 cores + earth cable	/ Terminal block (Screw fixing type)
Recommende L.R.A. (Locked Interconnectin IP number	max lift height ad breaker size d rotor ampere) ng wires Size 3	x Core number	А	φ 1.6mm x3 cores + earth cable IPX0	
Recommende L.R.A. (Locked Interconnection	max lift height ad breaker size d rotor ampere) ng wires Size 3	x Core number	А	φ 1.6mm x3 cores + earth cable IPX0 Mounting kit, Drain hose	/ Terminal block (Screw fixing type)

The pipe length is 7.5m.

` '			0			mo pipo ionganio momi
	Item	Indoor air t	emperature	Outdoor air	temperature	Standards
Operat	tion	DB	WB	DB	WB	Staridards
	Cooling	27°C	19°C	35°C	24°C	ISO5151-T1
Н	Heating	20°C	_	7°C	6°C	ISO5151-H1

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.
 (3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
 (4) Select the breaker size according to the own national standard.
 (5) The operation data indicate when the air-conditioner is operated at 230V 50Hz or 220V 60Hz.

PFA004Z088 🛕

			Model		SVSXWVH		
Item				Indoor unit FDE125VH	Outdoor unit FDC125VSX-W		
Power source				3 Phase, 380 - 415	5V 50Hz / 380V 60Hz		
	Nominal cooling capacity (r	ange)	kW	12.5 [3.5(Mir	n.) - 14.0(Max.)]		
	Nominal heating capacity (r	ange)	kW	14.0 [2.7(Mir	n.) - 18.0(Max.)]		
	Power consumption	Cooling		3.34			
	Fower consumption	Heating	kW	3	3.74		
	Max power consumption			8	3.90		
	Dunning ourrent	Cooling		5.4	/ 5.6		
	Running current	Heating	A	6.1	/ 6.5		
	Inrush current, max current			5	, 14		
Operation	B ()	Cooling	0,6	!	90		
data	Power factor	Heating	- % -		88		
	EER	Cooling		3	3.75		
	COP	Heating		3	3.74		
		Cooling			68		
	Sound power level	Heating		64	70		
		Cooling			53		
	Sound pressure level	Heating	dB(A)	P-Hi: 48 Hi: 45 Me: 40 Lo: 35	54		
	Silent mode	Cooling	- -		50 /49(Normal/Silent)		
	sound pressure level	Heating	-	_	50 /48(Normal/Silent)		
Exterior dime	nsions (Height x Width x Dept		mm	250 x 1620 x 690	1300x970x370		
Exterior appea		.,		Plaster white	Stucco white		
(Munsell color				(6.8Y8.9/0.2) near equivalent	(4.2Y7.5/1.1) near equivalent		
(RAL color)	,			(RAL 9003) near equivalent	(RAL 7044) near equivalent		
Net weight	-		kg	43	99		
Compressor t	vne & O'tv		1 1	<u> </u>	RMT5134SWP4 (Twin rotary type)×1		
<u>.</u>	notor (Starting method)		kW	_	Direct line start		
•	(Amount, type)		L		0.9 (M-MB75)		
	ype, amount, pre-charge leng	ıth)	kg	R32 4 0 in outdoor unit (Incl. th	he amount for the piping of 30m)		
Heat exchang		1411	ing in	Louver fin & inner grooved tubing	M shape fin & inner grooved tubing		
Refrigerant co				<u> </u>	xpansion valve		
Fan type & Q'				Centrifugal fan ×4	Propeller fan x2		
	arting method)		W	80 < Direct line start >	86x2 < Direct line start >		
ran motor (St	arting method)	Cooling	VV	80 < Direct line Start >	80X2 < Direct line start >		
Air flow		Heating	m³/min	P-Hi: 32 Hi: 29 Me: 23 Lo: 17	100		
	rnal static pressure		Pa	0	0		
Outside air int				Not possible	_		
Air filter, Quali	ty / Quantity			Pocket plastic net x2(Washable)	_		
Shock & vibra	tion absorber			Rubber sleeve(for fan motor)	Rubber sleeve (for fan motor & compressor		
Electric heate	<u>r</u>		W	_	20(Crank case heater)		
Operation	Remote control			(Option) Wired: RC-EX3A, RC-	E5 , RCH-E3 Wireless : RCN-E-E3		
control	Room temperature control			Thermostat	by electronics		
	Operation display				_		
					ction for fan motor		
Safety equipm	nents				tion thermostat		
, , ,					stat for fan motor temperature protection		
	Pofrigorant pining size	Liquid line	+ +		52 (3/8")x0.8 O/U ϕ 9.52 (3/8")		
	Refrigerant piping size (O.D)	Gas line	mm –		32 (3/8)x0.8		
	Connecting method	J das iii le	+	φ 13.66 (3/6) φ 13.66 Flare piping	Flare piping		
Installation	Insulation for piping		+ +		Liquid & Gas lines)		
data	Refrigerant line (one way) le	anath	m		Max.100		
	Vertical height diff. between O			Max.50 (Outdoor unit is higher)	Max.15 (Outdoor unit is lower)		
	Drain hose	o dilu i/U	m	Hose connectable with VP20(O.D.26)	Hole size φ 20 x 3 pcs		
Drain nume			mm	, ,	ποιε δίζε φ ζύ χ δ μυς		
Drain pump, r			mm	_			
	ed breaker size		A				
I R A (Locke)		. 0	A		5.0		
L.R.A. (Locked rotor ampere) Interconnecting wires Size x Core number		x Core number	1 1	φ 1.6mm x3 cores + earth cable	/ Terminal block (Screw fixing type)		
Interconnectir	<u> </u>			ID) (2	Inc.		
Interconnectir IP number	<u> </u>			IPX0	IP24		
Interconnectir	<u> </u>			Mounting kit, Drain hose	IP24 — ensor : LB-E		

The pipe length is 7.5m.

` '			mo pipo ionganio momi			
	Item	Indoor air t	emperature	Outdoor air	temperature	Standards
Operation		DB	WB	DB	WB	Staridards
Cool	ling	27°C	19°C	35°C	24°C	ISO5151-T1
Heat	ting	20°C	_	7°C	6°C	ISO5151-H1

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.
 (3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
 (4) Select the breaker size according to the own national standard.
 (5) The operation data indicate when the air-conditioner is operated at 230V 50Hz or 220V 60Hz.

PFA004Z088 🛕

			Model	FDE140\	VNXWVH		
Item				Indoor unit FDE140VH	Outdoor unit FDC140VNX-W		
Power source				1 Phase, 220 - 240	V 50Hz / 220V 60Hz		
	Nominal cooling capacity (ra	ange)	kW	14.0 [3.5(Min	.) - 16.0(Max.)]		
	Nominal heating capacity (ra	ange)	kW	16.0 [2.7(Min	.) - 18.0(Max.)]		
	Dower consumption	Cooling		4.08			
	Power consumption	Heating	kW	4.	41		
	Max power consumption		7 [7.	10		
		Cooling		17.9	/ 18.7		
	Running current	Heating	1 A	19.4	/ 20.2		
	Inrush current, max current	'	1	5,	27		
Operation	D ()	Cooling	0,6	% 99			
data	Power factor	Heating	7 %	8	9		
	EER	Cooling		3.	43		
	COP	Heating	7	3.	63		
		Cooling		05	69		
	Sound power level	Heating	7 1	65	71		
		Cooling	1 . <u>.</u> [
	Sound pressure level	Heating	dB(A)	P-Hi: 49 Hi: 45 Me: 40 Lo: 36	54		
	Silent mode	Cooling	7		50 /49(Normal/Silent)		
	sound pressure level	Heating	7	_	51 /48(Normal/Silent)		
Exterior dimer	nsions (Height x Width x Depth		mm	250 x 1620 x 690	1300x970x370		
Exterior appea				Plaster white	Stucco white		
(Munsell color				(6.8Y8.9/0.2) near equivalent	(4.2Y7.5/1.1) near equivalent		
(RAL color)				(RAL 9003) near equivalent	(RAL 7044) near equivalent		
Net weight	Net weight		kg	43	97		
Compressor type & Q'ty			_	RMT5134SWP3 (Twin rotary type)×1			
Compressor motor (Starting method)		kW	_	Direct line start			
Refrigerant oil (Amount, type)		L	_	0.9 (M-MB75)			
Refrigerant (T	Refrigerant (Type, amount, pre-charge length)		kg	R32 4.0 in outdoor unit (Incl. th	e amount for the piping of 30m)		
Heat exchang	er			Louver fin & inner grooved tubing	M shape fin & inner grooved tubing		
Refrigerant co	ntrol			Electronic ex	pansion valve		
Fan type & Q'	ty			Centrifugal fan ×4	Propeller fan x2		
Fan motor (St	arting method)		W	90 < Direct line start >	86x2 < Direct line start >		
Air flow		Cooling Heating	m³/min	P-Hi: 34 Hi: 29 Me: 23 Lo: 18	100		
Available exte	rnal static pressure		Pa	0	0		
Outside air int	ake			Not possible	_		
Air filter, Quali	ty / Quantity			Pocket plastic net x2(Washable)	_		
Shock & vibra	tion absorber			Rubber sleeve(for fan motor)	Rubber sleeve (for fan motor & compressor		
Electric heate	r		W	_	20(Crank case heater)		
	Remote control			(Option) Wired: RC-EX3A, RC-E5, RCH-E3 Wireless: RCN-E-E3			
Operation control	Room temperature control			Thermostat b	by electronics		
COILLOI	Operation display			-	_		
Safety equipn	nents			Frost protecti Internal thermos	tion for fan motor on thermostat stat for fan motor emperature protection		
	Refrigerant piping size (O.D)	Liquid line Gas line	mm	I/U φ 9.52 (3/8") Pipe φ 9.52 φ 15.88 (5/8") φ 15.88(2 (3/8")x0.8		
	Connecting method			Flare piping	Flare piping		
	Installation Insulation for piping				Liquid & Gas lines)		
Refrigerant line (one way) length		m		Max.100			
	Vertical height diff. between O/		m	Max.50 (Outdoor unit is higher)	Max.15 (Outdoor unit is lower)		
Drain hose			Hose connectable with VP20(O.D.26)	Hole size φ 20 x 3 pcs			
Drain pump, max lift height		mm	_	_			
Recommended breaker size		A		 -			
	d rotor ampere)		A		.0		
Interconnectin		Core number			/ Terminal block (Screw fixing type)		
IP number	3 3120 /		+ +	IPX0	IP24		
Standard acco	essories		+ +	Mounting kit, Drain hose	_		
Option parts			+ +		nsor : LB-E		
	no data are measured at the f			34011 00	·· = =		

The pipe length is 7.5m.

. ,		•			
Item	Indoor air temperature		Outdoor air	temperature	Standards
Operation	DB	WB	DB	WB	Staridards
Cooling	27°C	19°C	35°C	24°C	ISO5151-T1
Heating	20°C	_	7°C	6°C	ISO5151-H1

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.
 (3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
 (4) Select the breaker size according to the own national standard.
 (5) The operation data indicate when the air-conditioner is operated at 230V 50Hz or 220V 60Hz.

PFA004Z088 🛕

			Model	FDE140	VSXWVH
Item				Indoor unit FDE140VH	Outdoor unit FDC140VSX-W
Power source)			3 Phase, 380 - 415	V 50Hz / 380V 60Hz
	Nominal cooling capacity (ra	ange)	kW	14.0 [3.5(Min	.) - 16.0(Max.)]
	Nominal heating capacity (ra	ange)	kW	16.0 [2.7(Min	.) - 20.0(Max.)]
	B	Cooling		4.	08
	Power consumption	Heating	kW	4.	41
	Max power consumption		1	8.	90
		Cooling			/ 6.8
	Running current	Heating			7.5
	Inrush current, max current	11.0009	1 ^		14
Operation	indon danoni, max danoni	Cooling	+ +		1
data	Power factor	Heating	- % -		9
data	EER		+		
		Cooling	- -		43
	СОР	Heating	+ +	3.	63
	Sound power level	Cooling	4	65	69
		Heating	-		71
	Sound pressure level	Cooling	dB(A)	P-Hi: 49 Hi: 45 Me: 40 Lo: 36	54
	Country process of the	Heating] "" [10 10 20.00	<u> </u>
	Silent mode	Cooling	_	_	50 /49(Normal/Silent)
	sound pressure level	Heating			51 /48(Normal/Silent)
Exterior dimer	nsions (Height x Width x Depth	1)	mm	250 x 1620 x 690	1300x970x370
Exterior appea				Plaster white	Stucco white
(Munsell color	r)			(6.8Y8.9/0.2) near equivalent	(4.2Y7.5/1.1) near equivalent
(RAL color)				(RAL 9003) near equivalent	(RAL 7044) near equivalent
Net weight			kg	43	99
Compressor type & Q'ty			_	RMT5134SWP4 (Twin rotary type)×1	
Compressor motor (Starting method)		kW	_	Direct line start	
Refrigerant oil (Amount, type)		L	_	0.9 (M-MB75)	
Refrigerant (Type, amount, pre-charge length)		kg	R32 4.0 in outdoor unit (Incl. th	e amount for the piping of 30m)	
Heat exchang	·· · · · · · · · · · · · · · · · · · ·	,		Louver fin & inner grooved tubing	M shape fin & inner grooved tubing
Refrigerant co	<u></u>		1		pansion valve
Fan type & Q'			1	Centrifugal fan ×4	Propeller fan x2
	tarting method)		w	90 < Direct line start >	86x2 < Direct line start >
,		Cooling	1 . 1		
Air flow		Heating	m³/min	P-Hi: 34 Hi: 29 Me: 23 Lo: 18	100
Available exte	ernal static pressure		Pa	0	0
Outside air int	take			Not possible	_
Air filter, Quali	ity / Quantity			Pocket plastic net x2(Washable)	_
Shock & vibra	ation absorber			Rubber sleeve(for fan motor)	Rubber sleeve (for fan motor & compressor
Electric heate	r		W	_	20(Crank case heater)
	Remote control			(Option) Wired: RC-EX3A, RC-E5, RCH-E3 Wireless: RCN-E-E3	
Operation	Room temperature control			Thermostat b	by electronics
control	Operation display			-	
				Overload protect	tion for fan motor
Safety equipm	nents				on thermostat
carety equipm	nonto				stat for fan motor
	T=	11:			emperature protection
	Refrigerant piping size	Liquid line	mm -	I/U φ 9.52 (3/8") Pipe φ 9.53	
	(O.D)	Gas line			(5/8")x1.0 φ 15.88 (5/8")
Installation data Connecting method Insulation for piping Refrigerant line (one way) length			Flare piping	Flare piping	
				iquid & Gas lines)	
		m	<u> </u>	Max.100	
Vertical height diff. between O/U and I/U		m	Max.50 (Outdoor unit is higher)	Max.15 (Outdoor unit is lower)	
Drain hose			Hose connectable with VP20(O.D.26)	Hole size φ 20 x 3 pcs	
1 1/	max lift height		mm		
Recommende	ed breaker size		А	-	_
L.R.A. (Locked	d rotor ampere)		А	5	.0
Interconnectin	ng wires Size x	Core number		φ 1.6mm x3 cores + earth cable	Terminal block (Screw fixing type)
IP number	'			IPX0	IP24
Standard acc	essories			Mounting kit, Drain hose	_
Option parts			1 1	-	nsor : LB-E
	ne data are measured at the f			3.0.11 00	

The pipe length is 7.5m.

` '			mo pipo ionganio momi			
	Item	Indoor air t	emperature	Outdoor air	temperature	Standards
Operation		DB	WB	DB	WB	Staridards
Cool	ling	27°C	19°C	35°C	24°C	ISO5151-T1
Heat	ting	20°C	_	7°C	6°C	ISO5151-H1

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.
 (3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
 (4) Select the breaker size according to the own national standard.
 (5) The operation data indicate when the air-conditioner is operated at 400V 50Hz or 380V 60Hz.

PFA004Z088 🛦

(b) Twin type

			Model		NXWPVH
Item				Indoor unit FDE50VH (2 units)	Outdoor unit FDC100VNX-W
Power source					V 50Hz / 220V 60Hz
	Nominal cooling capacity (ra		kW	- `	.) - 11.2(Max.)]
	Nominal heating capacity (ra	nge)	kW	11.2 [2.7(Min	.) - 12.5(Max.)]
	Power consumption	Cooling		2.	48
	1 ower consumption	Heating	kW	2.	88
	Max power consumption			7.	10
	Dunning ourrent	Cooling		11.0	/ 11.5
	Running current	Heating	A	12.6	/ 13.2
	Inrush current, max current			5,	25
Operation	B ()	Cooling	0,	g	98
data	Power factor	Heating	- %	g	99
	EER	Cooling		4.	04
	COP	Heating		3.	89
		Cooling			
	Sound power level	Heating	1	60	67
		Cooling	┪		53
	Sound pressure level	Heating	dB(A)	P-Hi: 46 Hi: 38 Me: 36 Lo: 31	51
	Silent mode	Cooling	-		49 /48(Normal/Silent)
	sound pressure level	Heating	+	_	48 /48(Normal/Silent)
Evtorior dimo	nsions (Height x Width x Depth		mm	210 x 1070 x 690	1300x970x370
		1	111111		Stucco white
Exterior appea (Munsell color				Plaster white (6.8Y8.9/0.2) near equivalent	(4.2Y7.5/1.1) near equivalent
(RAL color)	,			(RAL 9003) near equivalent	(RAL 7044) near equivalent
Net weight			kg	28	97
Compressor ty	vne & O'tv		1.9	_	RMT5134SWP3 (Twin rotary type)×1
	notor (Starting method)		kW		Direct line start
			L		0.9 (M-MB75)
Refrigerant oil (Amount, type)				. , ,	
Refrigerant (Type, amount, pre-charge length)		kg		e amount for the piping of 30m)	
Heat exchang	<u></u>		+	Louver fin & inner grooved tubing	M shape fin & inner grooved tubing
Refrigerant co					pansion valve
Fan type & Q'	<u> </u>			Centrifugal fan ×2	Propeller fan x2
Fan motor (Sta	arting method)		W	30 < Direct line start >	86x2 < Direct line start >
Air flow		Cooling Heating	m³/min	P-Hi: 13 Hi: 10 Me: 9 Lo: 7	100
Available exte	ernal static pressure		Pa	0	0
Outside air int	take			Not possible	_
Air filter, Quali	ity / Quantity			Pocket plastic net x2(Washable)	_
Shock & vibra	ation absorber			Rubber sleeve(for fan motor)	Rubber sleeve (for fan motor & compresso
Electric heater	r		W	_	20(Crank case heater)
o ::	Remote control			(Option) Wired: RC-EX3A, RC-E	5, RCH-E3 Wireless : RCN-E-E3
Operation control	Room temperature control			Thermostat b	by electronics
CONTROL	Operation display			-	
				Overload protect	tion for fan motor
Safety equipm	nents				on thermostat
outory oquip					stat for fan motor
	Tp. (1	I januial III -	+		emperature protection
	Refrigerant piping size	Liquid line	mm	I/U φ 6.35 (1/4") ② φ 9.52 (3/8")x0.8	① φ 9.52 (3/8")x0.8 O/U φ 9.52 (3/8")
	(O.D)	Gas line	+	, , , , , ,	① φ 15.88(5/8")x1.0 φ 15.88 (5/8")
Installation	Connecting method		-	Flare piping	Flare piping
data Insulation for piping		+		Liquid & Gas lines)	
	Refrigerant line (one way) ler		m		Max.100
Vertical height diff. between O/U and I/U		m	Max.50 (Outdoor unit is higher)	Max.15 (Outdoor unit is lower)	
	Drain hose			Hose connectable with VP20(O.D.26)	Hole size φ 20 x 3 pcs
1 1/	max lift height		mm	_	_
	ed breaker size		А	-	_
L.R.A. (Locked	d rotor ampere)		Α	5	5.0
Interconnectin	ng wires Size x	Core number		φ 1.6mm x3 cores + earth cable	/ Terminal block (Screw fixing type)
IP number				IPX0	IP24
Standard acce	essories			Mounting kit, Drain hose	_
Option parts				-	nsor : LB-E
	ne data are measured at the fo	llowing condition		The nine length is 7	

The	pipe	length	is	7.5m

Item	Indoor air t	emperature	Outdoor air	temperature	Standards	
Operation	DB WB		DB	WB	Standards	
Cooling	27°C	19°C	35°C	24°C	ISO5151-T1	
Heating	20°C	_	7°C	6°C	ISO5151-H1	

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.
 (3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
 (4) Select the breaker size according to the own national standard.
 (5) The operation data indicate when the air-conditioner is operated at 230V 50Hz or 220V 60Hz.
 (6) Indoor unit specifications for one unit. Capacity and operation data is two indoor units are combined and run together.
 (7) Branching pipe set "DIS-WA1G"×1(Option). ①: Pipe of O/U-Branch, ②: Pipe of Branch-I/U

			Model	FDE100V	SXWPVH			
Item				Indoor unit FDE50VH (2 units)	Outdoor unit FDC100VSX-W			
Power source	•			3 Phase, 380 - 415	V 50Hz / 380V 60Hz			
	Nominal cooling capacity (r	ange)	kW	10.0 [3.5(Min.	.) - 11.2(Max.)]			
	Nominal heating capacity (r	ange)	kW	11.2 [2.7(Min.	.) - 16.0(Max.)]			
		Cooling		2.48				
	Power consumption	Heating	kW	2.	88			
	Max power consumption		7	8.	90			
	·	Cooling		4.2	/ 4.4			
	Running current	Heating	A	4.8	/ 5.1			
	Inrush current, max current	1	1		14			
Operation		Cooling						
data	Power factor	Heating	- %		66			
	EER	Cooling			04			
	COP	Heating	\dashv		89			
	001	Cooling		<u> </u>				
	Sound power level	Heating	-	60	67			
		Cooling	\dashv		53			
	Sound pressure level	Heating	dB(A)	P-Hi: 46 Hi: 38 Me: 36 Lo: 31	51			
	Oileast are als	Cooling	_		49 /48(Normal/Silent)			
	Silent mode sound pressure level		_	_	` ,			
Estados diseas	<u> </u>	Heating		040 4070 000	48 /48(Normal/Silent)			
	nsions (Height x Width x Deptl	1)	mm	210 x 1070 x 690	1300x970x370			
Exterior appe				Plaster white (6.8Y8.9/0.2) near equivalent	Stucco white (4.2Y7.5/1.1) near equivalent			
(Munsell color (RAL color)	r)			(8.8 (8.9/0.2) near equivalent (RAL 9003) near equivalent	(RAL 7044) near equivalent			
, ,			lem.	28	(IAL 7044) Hear equivalent			
Net weight Compressor type & Q'ty		kg	· ·					
	·· · · · · · · · · · · · · · · · · · ·		134/	_	RMT5134SWP4 (Twin rotary type)×1			
<u> </u>	motor (Starting method)		kW	_	Direct line start			
	I (Amount, type)		L	_	0.9 (M-MB75)			
	Type, amount, pre-charge leng	th)	kg	`	e amount for the piping of 30m)			
Heat exchang				Louver fin & inner grooved tubing	M shape fin & inner grooved tubing			
Refrigerant co					pansion valve			
Fan type & Q'	<u> </u>			Centrifugal fan ×2	Propeller fan x2			
Fan motor (St	tarting method)		W	30 < Direct line start >	86x2 < Direct line start >			
Air flow		Cooling Heating	m³/min	P-Hi: 13 Hi: 10 Me: 9 Lo: 7				
Available exte	ernal static pressure		Pa	0	0			
Outside air inf	take			Not possible	_			
Air filter, Quali	ity / Quantity			Pocket plastic net x2(Washable)	_			
Shock & vibra	ation absorber			Rubber sleeve(for fan motor)	Rubber sleeve (for fan motor & compressor)			
Electric heate	er		W		20(Crank case heater)			
	Remote control			(Option) Wired: RC-EX3A, RC-E	5 , RCH-E3 Wireless : RCN-E-E3			
Operation	Room temperature control				by electronics			
control	Operation display			-	. * =			
Safety equipn	nents			Frost protection Internal thermos	tion for fan motor on thermostat stat for fan motor emperature protection			
	Refrigerant piping size	Liquid line		I/U φ 6.35 (1/4") ② φ 9.52 (3/8")x0.8	① φ 9.52 (3/8")x0.8 O/U φ 9.52 (3/8")			
	(O.D)	Gas line	mm	, , , , , , ,	① φ 15.88(5/8")x1.0 φ 15.88 (5/8")			
	Connecting method			Flare piping	Flare piping			
Installation	Insulation for piping			11 0	Liquid & Gas lines)			
data	Refrigerant line (one way) le	nath	m		Max.100			
	Vertical height diff. between O/		m	Max.50 (Outdoor unit is higher)	Max.15 (Outdoor unit is lower)			
Drain hose		 	Hose connectable with VP20(O.D.26)	Hole size φ 20 x 3 pcs				
Drain numn	max lift height		mm	— —				
	ed breaker size		A		<u> </u>			
					.0			
,	ed rotor ampere)	Coro number	A					
Interconnectin	rig wires Size)	Core number	+	•	/ Terminal block (Screw fixing type)			
IP number			+	IPX0	IP24			
Standard acc	essories		-	Mounting kit, Drain hose				
Option parts				Motion sei	nsor : LB-E			

` '			mo pipo ionganio momi			
	Item	Indoor air t	emperature	Outdoor air	temperature	Standards
Operation		DB	WB	DB	WB	Staridards
Cool	ling	27°C	19°C	35°C	24°C	ISO5151-T1
Heat	ting	20°C	_	7°C	6°C	ISO5151-H1

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.

 (3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.

 (4) Select the breaker size according to the own national standard.

 (5) The operation data indicate when the air-conditioner is operated at 400V 50Hz or 380V 60Hz.

 (6) Indoor unit specifications for one unit. Capacity and operation data is two indoor units are combined and run together.

 (7) Branching pipe set "DIS-WA1G"×1(Option). ①: Pipe of O/U-Branch. ②: Pipe of Branch-I/U

Nominal cooling capacity (range) KW 12.5 3.5 (Min.) - 14.0 (Max.)				Model	FDE125V	NXWPVH		
Normant cooling capacity (range)	Item				Indoor unit FDE60VH (2 units)	Outdoor unit FDC125VNX-W		
Normant cooling capacity (range)	Power source)			` '	V 50Hz / 220V 60Hz		
Norman heating capearly (range)		· · · · · · · · · · · · · · · · · · ·	inge)	kW				
Power consumption					- '			
Power consumption		Tronmar nearing capacity (re	 	1000				
Max power consumption		Power consumption		L///				
Power factor Powe		May navyay assay mantism	Пеашу	- KVV				
Punning current Heating A 13.7.71.4.3		Max power consumption	0 15					
Pleating Pleating Pleating Pleating Power factor Pleating Pleat		Running current		┥ .				
Power factor Heating 50 50 50 50 50 50 50 5			Heating	_ A				
Power factor Heating Feb 99 99 99 99 99 99 99		Inrush current, max current			5,	27		
EER	Operation	Power factor	Cooling	0/		00		
COP	data	1 Ower factor	Heating	70		55		
Sound power level		EER	Cooling		3.	.58		
Sound pressure level Heating Cooling Heating Silent mode Sound pressure level Heating Heating Silent mode Sound pressure level Heating Sound pressure level Sound pressure Sound pressure level Sound pressure		COP	Heating		4.	29		
Sound pressure level Heating Cooling Heating Silent mode Sound pressure level Heating Heating Silent mode Sound pressure level Heating Sound pressure level Sound pressure Sound pressure level Sound pressure			Cooling			68		
Sound pressure level		Sound power level			60	70		
Sound pressure level Heating Sound pressure level Sound pressu				\dashv				
Silent mode South mode So		Sound pressure level		dB(A)	P-Hi: 47 Hi: 41 Me: 37 Lo: 32			
Sound pressure level Heating				-				
Exterior dimensions (Height x Width x Depth)					_	` '		
Exterior appearance (Munsell color)		<u> </u>				` '		
Munsell color) (6.8%8.90.2) near equivalent (RAL 77.5/1.1) near equivalent (RAL 77.5/1.1) near equivalent (RAL 77.5/1.1) near equivalent (RAL 77.5/1.1) near equivalent (RAL 7044))	mm				
(RAL color)								
Met weight	`	r)						
Compressor type & 0'ty Compressor motor (Starting method) Refrigerant of (Monunt, type) Refrigerant (Type, amount, pre-charge length) Refrigerant (Type, amount, pre-charge length) Refrigerant (Type, amount, pre-charge length) Refrigerant control Refrigerant control Refrigerant control Refrigerant control Refrigerant control Refrigerant fixes Refrigera	(RAL color)				(RAL 9003) near equivalent	(RAL 7044) near equivalent		
Compressor motor (Starting method) kW — Direct line start Refrigerant oil (Amount, type) L — 0.9 (M-MB75) Refrigerant (Type, amount, type) L — 0.9 (M-MB75) Refrigerant (Type, amount, type) Louver fin & inner grooved tubing M shape fin & inner grooved tubing Refrigerant control Electronic cexpansion valve Fan motor (Starting method) W 50 < Direct line start > 86×2 < Direct line start > Fan rigerant control Cooling Heating m³/min P-Hi: 20 Hi: 16 Me: 13 Lo: 10 100 Available external static pressure Pa 0 0 0 Outside air intake Not possible — — Air filter, Quality / Quantity Pocket plastic net x2(Mashable) — Air filter, Quality / Quantity Procket plastic net x2(Mashable) — Poperation control Remote control Rubber sleeve(for fan motor) Rubber sleeve (for fan motor) Remote control Operation display Overload protection for fan motor Control on the mostat internal themostat internal themostat for fan motor for fan motor for fan motor for fan motor for fan	Net weight			kg	33	97		
Refrigerant (i) (Amount, type)	Compressor type & Q'ty			_	RMT5134SWP3 (Twin rotary type)×1			
Refrigerant (Type, amount, pre-charge length) Red exchanger	Compressor motor (Starting method)		kW	_	Direct line start			
Heat exchanger	Refrigerant oi	Refrigerant oil (Amount, type)		L	_	0.9 (M-MB75)		
Heat exchanger			h)	ka	R32 4.0 in outdoor unit (Incl. th	ne amount for the piping of 30m)		
Refrigerant control	0 (), , , , , , , , , , , , , , , , , , ,		1	,	1 2 7			
Fan type & Q'ty Fan motor (Starting method) Air flow Cooling Heating Heating Heating Available external static pressure Air filter, Quality / Quantity Shock & vibration absorber Bemote control Operation control Operation Operation display Safety equipments		<u></u>						
Fan motor (Starting method) W 50 < Direct line start > 86×2 < Direct line start >								
Air flow		<u> </u>		\\/		·		
Heating	ran motor (St	larting metriod)	Cooling	VV	50 < Direct line start >	00^2 \ Direct line start >		
Outside air intake Not possible — Air filter, Quality / Quantity Pocket plastic net x2(Washable) — Shock & vibration absorber Rubber sleeve(for fan motor) Rubber sleeve (for fan motor) 20(Crank case heater) Operation control Room temperature control (Option) Wired: RC-EX3A, RC-E5, RCH-E3 Wireless: RCN-E-E3 Operation display Overload protection for fan motor Frost protection thermostat Internal thermostat for fan motor Abnormal discharge temperature protection Safety equipments Liquid line Gas line mm I/U φ 6.35 (1/4") ② φ 9.52 (3/8")x0.8 ① φ 9.52 (3/8")x0.8 ② 0/U φ 9.52 (3/8") 0/U φ 9.52 (3/8") Installation data Refrigerant piping size (D.D.) Liquid line Gas line mm I/U φ 6.35 (1/4") ② φ 9.52 (3/8")x0.8 ① φ 9.52 (3/8")x0.8 ② 0/U φ 9.52 (3/8")x0.8 ②	Air flow				P-Hi: 20 Hi: 16 Me: 13 Lo: 10 100			
Air filter, Quality / Quantity Shock & vibration absorber Rubber sleeve(for fan motor) Rubber sleeve (for fan motor & compressor	Available exte	ernal static pressure		Pa	0	0		
Rubber sleeve(for fan motor) Rubber sleeve (for fan motor & compressor Electric heater W	Outside air in	take			Not possible	_		
Remote control	Air filter, Qual	ity / Quantity			Pocket plastic net x2(Washable)	_		
Remote control Room temperature protection Place (0.D) Place Size (3/8")x0.8 O/U φ.9.52 (Shock & vibra	ation absorber			Rubber sleeve(for fan motor)	Rubber sleeve (for fan motor & compressor)		
Room temperature control Operation display	Electric heate	r		W	_	20(Crank case heater)		
Room temperature control Operation display		Remote control			(Option) Wired: RC-EX3A, RC-E	5 , RCH-E3 Wireless : RCN-E-E3		
Safety equipments Coperation display		Room temperature control						
Safety equipments Safety equip	control	· · · · · · · · · · · · · · · · · · ·	,			. <i>*</i> =		
Safety equipments		тороголого эторган,			Overload protect	tion for fan motor		
Refrigerant piping size Liquid line Gas line mm								
Refrigerant piping size	Safety equipn	nents			Internal thermos	stat for fan motor		
Co.D Gas line Mm					Abnormal discharge t	emperature protection		
Co.D Gas line Min.3 Max.85 Flare piping		Refrigerant piping size	Liquid line	pa-22	I/U φ 6.35 (1/4") ② φ 9.52 (3/8")x0.8	① φ 9.52 (3/8")x0.8 O/U φ 9.52 (3/8")		
Installation data Connecting method Insulation for piping Insulation fo		(O.D)	Gas line	1000	φ 12.7 (1/2") ② φ 12.7(1/2")x0.8	① ϕ 15.88(5/8")x1.0 ϕ 15.88 (5/8")		
Insulation data Insulation for piping Refrigerant line (one way) length m Max.50 (Outdoor unit is higher) Max.15 (Outdoor unit is lower)		Connecting method			Flare piping	Flare piping		
Refrigerant line (one way) length m Max.50 (Outdoor unit is higher) Max.15 (Outdoor unit is lower) Drain hose Hose connectable with VP20(O.D.26) Hole size ϕ 20 x 3 pcs Drain pump, max lift height mm Recommended breaker size A - L.R.A. (Locked rotor ampere) A 5.0 Interconnecting wires Size x Core number ϕ 1.6mm x3 cores + earth cable / Terminal block (Screw fixing type) IP number Hose connectable with VP20(O.D.26) Hole size ϕ 20 x 3 pcs A	Installation data Insulation for piping			110	1 1 0			
Vertical height diff. between O/U and I/U m Max.50 (Outdoor unit is higher) Max.15 (Outdoor unit is lower) Drain hose Hose connectable with VP20(O.D.26) Hole size φ 20 x 3 pcs Drain pump, max lift height mm — Recommended breaker size A — L.R.A. (Locked rotor ampere) A 5.0 Interconnecting wires Size x Core number φ 1.6mm x3 cores + earth cable / Terminal block (Screw fixing type) IP number IPX0 IP24 Standard accessories Mounting kit, Drain hose —			m					
Drain hose Hose connectable with VP20(O.D.26) Hole size φ 20 x 3 pcs Drain pump, max lift height mm — — Recommended breaker size A — L.R.A. (Locked rotor ampere) A 5.0 Interconnecting wires Size x Core number φ 1.6mm x3 cores + earth cable / Terminal block (Screw fixing type) IP number IPX0 IP24 Standard accessories Mounting kit, Drain hose —				_				
Drain pump, max lift height mm — — Recommended breaker size A — L.R.A. (Locked rotor ampere) A 5.0 Interconnecting wires Size x Core number φ 1.6mm x3 cores + earth cable / Terminal block (Screw fixing type) IP number IPX0 IP24 Standard accessories Mounting kit, Drain hose —			J 4.10 1/ J		` ,	, , , , , , , , , , , , , , , , , , , ,		
Recommended breaker size A — L.R.A. (Locked rotor ampere) A 5.0 Interconnecting wires Size x Core number φ 1.6mm x3 cores + earth cable / Terminal block (Screw fixing type) IP number IPX0 IP24 Standard accessories Mounting kit, Drain hose —	Drain numn			mm	11036 COTHECTADIE WITH VF20(O.D.20)	ι ιοιε δίζε ψ 20 λ 3 μοδ		
L.R.A. (Locked rotor ampere) A 5.0 Interconnecting wires Size x Core number φ 1.6mm x3 cores + earth cable / Terminal block (Screw fixing type) IP number IPX0 IP24 Standard accessories Mounting kit, Drain hose —					_			
Interconnecting wires Size x Core number φ 1.6mm x3 cores + earth cable / Terminal block (Screw fixing type) IP number IPX0 IP24 Standard accessories Mounting kit, Drain hose —								
IP number IPX0 IP24 Standard accessories Mounting kit, Drain hose —	,	<u>'</u>		A		·		
Standard accessories Mounting kit, Drain hose –		ng wires Size x	Core number		,			
	IP number					IP24		
Option parts Motion sensor : LB-E	Standard acc	essories			Mounting kit, Drain hose			
	Option parts				Motion se	nsor : LB-E		

()	The pipe length is 7.011.					
Ite	em Inc	Indoor air temperature		Outdoor air	temperature	Standards
Operation)B	WB	DB	WB	Standards
Cooling	2	7℃	19°C	35°C	24°C	ISO5151-T1
Heating	20	Ĵ℃	_	7°C	6°C	ISO5151-H1

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.

 (3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.

 (4) Select the breaker size according to the own national standard.

 (5) The operation data indicate when the air-conditioner is operated at 230V 50Hz or 220V 60Hz.

 (6) Indoor unit specifications for one unit. Capacity and operation data is two indoor units are combined and run together.

 (7) Branching pipe set "DIS-WA1G"×1(Option). ①: Pipe of O/U-Branch. ②: Pipe of Branch-I/U

			Model	FDE125V	SXWPVH
Item				Indoor unit FDE60VH (2 units)	Outdoor unit FDC125VSX-W
Power source)				V 50Hz / 380V 60Hz
	Nominal cooling capacity (ra	nge)	kW	12.5 [3.5(Min	.) - 14.0(Max.)]
	Nominal heating capacity (ra		kW	* `	.) - 18.0(Max.)]
		Cooling		- '	49
	Power consumption	Heating	kW		27
	Max power consumption	1.100119	⊢ ''''		90
	wax power consumption	Cooling			/ 5.5
	Running current	Heating	A		/ 5.4
	Inrush current, max current	пеаші	⊣ ^		
	mrush current, max current	0 15			14
Operation	Power factor	Cooling	- %		90
data		Heating			38
	EER	Cooling			58
	COP	Heating		4.	29
	Sound power level	Cooling		60	68
	Country power level	Heating			70
	Sound pressure level	Cooling	dB(A)	P-Hi: 47 Hi: 41 Me: 37 Lo: 32	53
	Sound pressure level	Heating	UD(A)	1 -111. 47 111. 41 We. 37 Lo. 32	54
	Silent mode	Cooling			50 /49(Normal/Silent)
	sound pressure level	Heating		_	50 /48(Normal/Silent)
Exterior dimer	nsions (Height x Width x Depth)	mm	210 x 1320 x 690	1300x970x370
Exterior appea	arance			Plaster white	Stucco white
(Munsell color				(6.8Y8.9/0.2) near equivalent	(4.2Y7.5/1.1) near equivalent
(RAL color)				(RAL 9003) near equivalent	(RAL 7044) near equivalent
Net weight			kg	33	99
Compressor t	type & Q'ty			_	RMT5134SWP4 (Twin rotary type)×1
Compressor r	motor (Starting method)		kW	_	Direct line start
· ·	I (Amount, type)		L	_	0.9 (M-MB75)
	Type, amount, pre-charge lengt	h)	kg	B32.4.0 in outdoor unit (Incl. th	e amount for the piping of 30m)
Heat exchang	***	.,	19	Louver fin & inner grooved tubing	M shape fin & inner grooved tubing
Refrigerant co	<u></u>			-	pansion valve
Fan type & Q'				Centrifugal fan ×4	Propeller fan x2
	<u> </u>		14/	-	•
Fan motor (St	tarting method)	0 15	W	50 < Direct line start >	86x2 < Direct line start >
Air flow		Cooling Heating	m³/min	P-Hi: 20 Hi: 16 Me: 13 Lo: 10	100
Available exte	ernal static pressure		Pa	0	0
Outside air int	take			Not possible	_
Air filter, Quali	ity / Quantity			Pocket plastic net x2(Washable)	_
Shock & vibra	ation absorber			Rubber sleeve(for fan motor)	Rubber sleeve (for fan motor & compressor
Electric heate	r		W	_	20(Crank case heater)
	Remote control			(Option) Wired: RC-EX3A, RC-E	5 , RCH-E3 Wireless : RCN-E-E3
Operation control	Room temperature control			Thermostat I	by electronics
CONTROL	Operation display			-	
	•			Overload protect	tion for fan motor
Safety equipm	nents				on thermostat
odicty equipit	nents				stat for fan motor
		1,	+	· · · · · · · · · · · · · · · · · · ·	emperature protection
	Refrigerant piping size	Liquid line	mm	I/U φ 6.35 (1/4") ② φ 9.52 (3/8")x0.8	① φ 9.52 (3/8")x0.8 O/U φ 9.52 (3/8")
	(O.D)	Gas line	1	, , , , , ,	① φ 15.88(5/8")x1.0 φ 15.88 (5/8")
Installation	Connecting method			Flare piping	Flare piping
data	Insulation for piping			7 1	Liquid & Gas lines)
	Refrigerant line (one way) ler		m	-	Max.85
	Vertical height diff. between O/U	J and I/U	m	Max.50 (Outdoor unit is higher)	Max.15 (Outdoor unit is lower)
	Drain hose			Hose connectable with VP20(O.D.26)	Hole size φ 20 x 3 pcs
Drain pump, r	max lift height		mm		_
	ed breaker size		Α		_
	d rotor ampere)		Α		5.0
Interconnectin		Core number	+		/ Terminal block (Screw fixing type)
IP number	JIZU X	22.0.1.0.11001		IPX0	IP24
Standard acc	eseries			Mounting kit, Drain hose	— IF24 —
Option parts	C33011C3			5 ,	 nsor : LB-E
Option parts				l iviolion se	IIOUI . LD-L

()		5			The pipe length is 7.011.
Item	Indoor air t	emperature	Outdoor air	temperature	Standards
Operation	DB	WB	DB	WB	Standards
Cooling	27°C	19°C	35°C	24°C	ISO5151-T1
Heating	20°C	_	7°C	6°C	ISO5151-H1

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.
 (3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
 (4) Select the breaker size according to the own national standard.
 (5) The operation data indicate when the air-conditioner is operated at 400V 50Hz or 380V 60Hz.
 (6) Indoor unit specifications for one unit. Capacity and operation data is two indoor units are combined and run together.
 (7) Branching pipe set "DIS-WA1G"×1(Option). ①: Pipe of O/U-Branch. ②: Pipe of Branch-I/U

			Model	FDE140V	NXWPVH
Item				Indoor unit FDE71VH (2 units)	Outdoor unit FDC140VNX-W
Power source				` '	V 50Hz / 220V 60Hz
	Nominal cooling capacity (ra	ange)	kW	,	i.) - 16.0(Max.)]
	Nominal heating capacity (ra		kW	* `	i.) - 18.0(Max.)]
	Tronmar nearing dapasity (it	Cooling	+ ***	- '	.16
	Power consumption	Heating	- kW		97
	May navyay agazyantian	rieating	- KVV		.10
	Max power consumption	0 15			
	Running current	Cooling	'		/ 18.2
		Heating	_ A		/ 17.4
	Inrush current, max current			5,	27
Operation	Power factor	Cooling	- %	į.	99
data	T GWGI ILGGGI	Heating	,,,		
	EER	Cooling		3.	.36
	COP	Heating		4.	.03
	Council manual lavel	Cooling		60	69
	Sound power level	Heating	٦	60	71
		Cooling	ا ا		
	Sound pressure level	Heating	dB(A)	P-Hi: 47 Hi: 41 Me: 37 Lo: 32	54
	Silent mode	Cooling	7		50 /49(Normal/Silent)
	sound pressure level	Heating	-	_	51 /48(Normal/Silent)
Exterior dimen	nsions (Height x Width x Depth		mm	210 x 1320 x 690	1300x970x370
		')	+	Plaster white	Stucco white
Exterior appea (Munsell color)				(6.8Y8.9/0.2) near equivalent	(4.2Y7.5/1.1) near equivalent
(RAL color))			(RAL 9003) near equivalent	(RAL 7044) near equivalent
Net weight			lea	33	97
	- 0 Olt		kg	_ 33	**
Compressor ty	<u>' </u>		1.34/		RMT5134SWP3 (Twin rotary type)×1
	notor (Starting method)		kW	_	Direct line start
	(Amount, type)		L	_	0.9 (M-MB75)
- ,	ype, amount, pre-charge lengt	:h)	kg	`	e amount for the piping of 30m)
Heat exchange	er			Louver fin & inner grooved tubing	M shape fin & inner grooved tubing
Refrigerant cor	ntrol			Electronic ex	pansion valve
Fan type & Q't	ty			Centrifugal fan ×4	Propeller fan x2
Fan motor (Sta	arting method)		W	50 < Direct line start >	86x2 < Direct line start >
Air flow		Cooling Heating	m³/min	P-Hi: 20 Hi: 16 Me: 13 Lo: 10	100
Available exter	rnal static pressure		Pa	0	0
	<u> </u>			Not possible	_
Outside air inta			_	Pocket plastic net x2(Washable)	_
Outside air inta				(
Air filter, Qualit	ty / Quantity		+	Rubber sleeve(for fan motor)	Rubber sleeve (for fan motor & compressor
Air filter, Qualit Shock & vibrat	ty / Quantity tion absorber		W	Rubber sleeve(for fan motor)	` .
Air filter, Qualit	ty / Quantity tion absorber		W		20(Crank case heater)
Air filter, Qualit Shock & vibrat	ty / Quantity tion absorber Remote control		W	— (Option) Wired: RC-EX3A, RC-E	20(Crank case heater) E5 , RCH-E3 Wireless : RCN-E-E3
Air filter, Qualit Shock & vibrat Electric heater	ty / Quantity tion absorber Remote control Room temperature control		W	— (Option) Wired: RC-EX3A, RC-E	
Air filter, Qualit Shock & vibrat Electric heater Operation	ty / Quantity tion absorber Remote control		W	(Option) Wired: RC-EX3A, RC-E	20(Crank case heater) E5 , RCH-E3 Wireless : RCN-E-E3 by electronics
Air filter, Qualit Shock & vibrat Electric heater Operation control	ty / Quantity tion absorber Remote control Room temperature control Operation display		W	(Option) Wired: RC-EX3A, RC-E Thermostat I Overload protec	20(Crank case heater) E5 , RCH-E3 Wireless : RCN-E-E3 by electronics — tion for fan motor
Air filter, Qualit Shock & vibrat Electric heater Operation	ty / Quantity tion absorber Remote control Room temperature control Operation display		W	(Option) Wired: RC-EX3A, RC-E Thermostat I Overload protec Frost protecti	20(Crank case heater) E5 , RCH-E3 Wireless : RCN-E-E3 by electronics — tion for fan motor ion thermostat
Air filter, Qualit Shock & vibrat Electric heater Operation control	ty / Quantity tion absorber Remote control Room temperature control Operation display		W	— (Option) Wired: RC-EX3A, RC-E Thermostat I Overload protect Frost protecti Internal thermos	20(Crank case heater) E5 , RCH-E3 Wireless : RCN-E-E3 by electronics — tion for fan motor
Air filter, Qualit Shock & vibrat Electric heater Operation control	ty / Quantity tion absorber Remote control Room temperature control Operation display	Liquid line		— (Option) Wired: RC-EX3A, RC-E Thermostat I Overload protect Frost protecti Internal thermos	20(Crank case heater) E5 , RCH-E3 Wireless : RCN-E-E3 by electronics tion for fan motor ion thermostat stat for fan motor
Air filter, Qualit Shock & vibrat Electric heater Operation control	ty / Quantity tion absorber Remote control Room temperature control Operation display	Liquid line Gas line	W mm	Overload protect Overload protect Frost protecti Internal thermos Abnormal discharge t I/U \$\phi\$ 9.52 (3/8") 0 \$\phi\$ 9.52 (3/8")x0.8	20(Crank case heater) E5 , RCH-E3 Wireless : RCN-E-E3 by electronics tion for fan motor ion thermostat stat for fan motor emperature protection ①
Air filter, Qualit Shock & vibrat Electric heater Operation control	ty / Quantity tion absorber Remote control Room temperature control Operation display nents Refrigerant piping size (O.D)			- (Option) Wired: RC-EX3A, RC-E Thermostat I Overload protect Frost protecti Internal thermos Abnormal discharge t I/U φ 9.52 (3/8") ② φ 9.52 (3/8")x0.8 φ 15.88 (5/8") ② φ 15.88(5/8")x1.0	20(Crank case heater) E5 , RCH-E3 Wireless : RCN-E-E3 by electronics tion for fan motor ion thermostat stat for fan motor emperature protection ①
Air filter, Qualit Shock & vibrat Electric heater Operation control Safety equipm Installation	ky / Quantity tion absorber Remote control Room temperature control Operation display ments Refrigerant piping size (O.D) Connecting method			- (Option) Wired: RC-EX3A, RC-E Thermostat I Overload protec Frost protect Internal thermos Abnormal discharge t I/U φ 9.52 (3/8") ② φ 9.52 (3/8")x0.8 φ 15.88 (5/8") ② φ 15.88(5/8")x1.0 Flare piping	20(Crank case heater) E5 , RCH-E3 Wireless : RCN-E-E3 by electronics tion for fan motor ion thermostat stat for fan motor emperature protection ① ϕ 9.52 (3/8")x0.8 O/U ϕ 9.52 (3/8") ① ϕ 15.88(5/8")x1.0 ϕ 15.88 (5/8")
Air filter, Qualit Shock & vibrat Electric heater Operation control Safety equipm	Remote control Room temperature control Operation display Refrigerant piping size (O.D) Connecting method Insulation for piping	Gas line	— mm	- (Option) Wired: RC-EX3A, RC-E Thermostat I Overload protec Frost protect Internal thermos Abnormal discharge t I/U φ 9.52 (3/8") ② φ 9.52 (3/8")x0.8 φ 15.88 (5/8") ② φ 15.88(5/8")x1.0 Flare piping Necessary (both	20(Crank case heater) E5 , RCH-E3 Wireless : RCN-E-E3 by electronics tion for fan motor ion thermostat stat for fan motor emperature protection ① \$\phi\$ 9.52 (3/8")x0.8 O/U \$\phi\$ 9.52 (3/8") ① \$\phi\$ 15.88(5/8")x1.0 \$\phi\$ 15.88 (5/8") Flare piping Liquid & Gas lines)
Air filter, Qualit Shock & vibrat Electric heater Operation control Safety equipm Installation	Remote control Room temperature control Operation display Refrigerant piping size (O.D) Connecting method Insulation for piping Refrigerant line (one way) lei	Gas line	— mm	- (Option) Wired: RC-EX3A, RC-E Thermostat I Overload protec Frost protect Internal thermos Abnormal discharge t I/U φ 9.52 (3/8") ② φ 9.52 (3/8")x0.8 φ 15.88 (5/8") ② φ 15.88(5/8")x1.0 Flare piping Necessary (both Min.3,	20(Crank case heater) E5 , RCH-E3 Wireless : RCN-E-E3 by electronics — tion for fan motor ton thermostat stat for fan motor temperature protection ①
Air filter, Qualit Shock & vibrat Electric heater Operation control Safety equipm Installation	ky / Quantity tion absorber Remote control Room temperature control Operation display Tents Refrigerant piping size (O.D) Connecting method Insulation for piping Refrigerant line (one way) let Vertical height diff. between O/	Gas line	— mm	- (Option) Wired: RC-EX3A, RC-E Thermostat I Overload protect Frost protect Internal thermos Abnormal discharge t I/U φ 9.52 (3/8") ② φ 9.52 (3/8")x0.8 φ 15.88 (5/8") ② φ 15.88(5/8")x1.0 Flare piping Necessary (both Min.3, Max.50 (Outdoor unit is higher)	20(Crank case heater) E5 , RCH-E3 Wireless : RCN-E-E3 by electronics
Air filter, Qualit Shock & vibrat Electric heater Operation control Safety equipm Installation data	Remote control Room temperature control Operation display Refrigerant piping size (O.D) Connecting method Insulation for piping Refrigerant line (one way) ler Vertical height diff. between O/D Drain hose	Gas line	m m	- (Option) Wired: RC-EX3A, RC-E Thermostat I Overload protec Frost protect Internal thermos Abnormal discharge t I/U φ 9.52 (3/8") ② φ 9.52 (3/8")x0.8 φ 15.88 (5/8") ② φ 15.88(5/8")x1.0 Flare piping Necessary (both Min.3,	20(Crank case heater) E5 , RCH-E3 Wireless : RCN-E-E3 by electronics
Air filter, Qualit Shock & vibrat Electric heater Operation control Safety equipm Installation data Drain pump, m	ty / Quantity tion absorber Remote control Room temperature control Operation display Tents Refrigerant piping size (O.D) Connecting method Insulation for piping Refrigerant line (one way) let Vertical height diff. between O/Drain hose max lift height	Gas line	m m m	- (Option) Wired: RC-EX3A, RC-E Thermostat I Overload protect Frost protect Internal thermos Abnormal discharge t I/U φ 9.52 (3/8") ② φ 9.52 (3/8")x0.8 φ 15.88 (5/8") ② φ 15.88(5/8")x1.0 Flare piping Necessary (both Min.3, Max.50 (Outdoor unit is higher) Hose connectable with VP20(O.D.26)	20(Crank case heater) E5 , RCH-E3 Wireless : RCN-E-E3 by electronics — tion for fan motor ton thermostat stat for fan motor temperature protection ① \$\phi\$ 9.52 (3/8")x0.8 O/U \$\phi\$ 9.52 (3/8") ① \$\phi\$ 15.88(5/8")x1.0 \$\phi\$ 15.88 (5/8") Flare piping Liquid & Gas lines) Max.85 Max.15 (Outdoor unit is lower) Hole size \$\phi\$ 20 x 3 pcs
Air filter, Qualit Shock & vibrat Electric heater Operation control Safety equipm Installation data Drain pump, m Recommended	ty / Quantity tion absorber Remote control Room temperature control Operation display Tents Refrigerant piping size (O.D) Connecting method Insulation for piping Refrigerant line (one way) let Vertical height diff. between O/I Drain hose max lift height d breaker size	Gas line	m m m A	- (Option) Wired: RC-EX3A, RC-E Thermostat I Overload protect Frost protect: Internal thermos Abnormal discharge t I/U φ 9.52 (3/8") ② φ 9.52 (3/8")x0.8 φ 15.88 (5/8") ② φ 15.88(5/8")x1.0 Flare piping Necessary (both Min.3, Max.50 (Outdoor unit is higher) Hose connectable with VP20(O.D.26)	20(Crank case heater) E5 , RCH-E3 Wireless : RCN-E-E3 by electronics — tion for fan motor ton thermostat stat for fan motor temperature protection ① \$\phi\$ 9.52 (3/8")x0.8 O/U \$\phi\$ 9.52 (3/8") Î \$\phi\$ 15.88(5/8")x1.0 \$\phi\$ 15.88 (5/8") Flare piping Liquid & Gas lines) Max.85 Max.15 (Outdoor unit is lower) Hole size \$\phi\$ 20 x 3 pcs
Air filter, Qualit Shock & vibrat Electric heater Operation control Safety equipm Installation data Drain pump, m Recommended L.R.A. (Locked	Remote control Room temperature control Operation display Refrigerant piping size (O.D) Connecting method Insulation for piping Refrigerant line (one way) let Vertical height diff. between O/I Drain hose nax lift height d breaker size d rotor ampere)	Gas line ngth U and I/U	m m m	- (Option) Wired: RC-EX3A, RC-E Thermostat I Overload protect Frost protect: Internal thermos Abnormal discharge t I/U φ 9.52 (3/8") ② φ 9.52 (3/8")x0.8 φ 15.88 (5/8") ② φ 15.88(5/8")x1.0 Flare piping Necessary (both I Min.3, Max.50 (Outdoor unit is higher) Hose connectable with VP20(O.D.26)	20(Crank case heater) E5 , RCH-E3 Wireless : RCN-E-E3 by electronics — tion for fan motor ton thermostat stat for fan motor temperature protection ①
Air filter, Qualit Shock & vibrat Electric heater Operation control Safety equipm Installation data Drain pump, m Recommender L.R.A. (Locked Interconnecting	Remote control Room temperature control Operation display Refrigerant piping size (O.D) Connecting method Insulation for piping Refrigerant line (one way) let Vertical height diff. between O/I Drain hose nax lift height d breaker size d rotor ampere)	Gas line	m m m A	- (Option) Wired: RC-EX3A, RC-E Thermostat I Overload protect Frost protect: Internal thermos Abnormal discharge t I/U φ 9.52 (3/8") ② φ 9.52 (3/8")x0.8 φ 15.88 (5/8") ② φ 15.88(5/8")x1.0 Flare piping Necessary (both Min.3, Max.50 (Outdoor unit is higher) Hose connectable with VP20(O.D.26) - 5 φ 1.6mm x3 cores + earth cable	20(Crank case heater) E5 , RCH-E3 Wireless : RCN-E-E3 by electronics — tion for fan motor ton thermostat stat for fan motor temperature protection ①
Air filter, Qualit Shock & vibrat Electric heater Operation control Safety equipm Installation data Drain pump, m Recommended L.R.A. (Locked Interconnecting IP number	Remote control Room temperature control Operation display Refrigerant piping size (O.D) Connecting method Insulation for piping Refrigerant line (one way) let Vertical height diff. between O/I Drain hose nax lift height d breaker size d rotor ampere) g wires Size x	Gas line ngth U and I/U	m m m A	- (Option) Wired: RC-EX3A, RC-E Thermostat I Overload protect Frost protecti Internal thermos Abnormal discharge t I/U φ 9.52 (3/8") ② φ 9.52 (3/8")x0.8 φ 15.88 (5/8") ② φ 15.88(5/8")x1.0 Flare piping Necessary (both I Min.3, Max.50 (Outdoor unit is higher) Hose connectable with VP20(O.D.26)	20(Crank case heater) E5 , RCH-E3 Wireless : RCN-E-E3 by electronics — tion for fan motor ton thermostat stat for fan motor temperature protection ①
Air filter, Qualit Shock & vibrat Electric heater Operation control Safety equipm Installation data Drain pump, m Recommender L.R.A. (Locked Interconnecting	Remote control Room temperature control Operation display Refrigerant piping size (O.D) Connecting method Insulation for piping Refrigerant line (one way) let Vertical height diff. between O/I Drain hose nax lift height d breaker size d rotor ampere) g wires Size x	Gas line ngth U and I/U	m m m A	- (Option) Wired: RC-EX3A, RC-E Thermostat I Overload protect Frost protect: Internal thermos Abnormal discharge t I/U φ 9.52 (3/8") ② φ 9.52 (3/8")x0.8 φ 15.88 (5/8") ② φ 15.88(5/8")x1.0 Flare piping Necessary (both Min.3, Max.50 (Outdoor unit is higher) Hose connectable with VP20(O.D.26) - 5 φ 1.6mm x3 cores + earth cable	20(Crank case heater) E5 , RCH-E3 Wireless : RCN-E-E3 by electronics — tion for fan motor ton thermostat stat for fan motor temperature protection ①

` '			0			mo pipo ionganio momi
	Item	Indoor air t	emperature	Outdoor air	temperature	Standards
Operat	tion	DB	WB	DB	WB	Staridards
	Cooling	27°C	19°C	35°C	24°C	ISO5151-T1
H	Heating	20°C	_	7°C	6°C	ISO5151-H1

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.

 (3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.

 (4) Select the breaker size according to the own national standard.

 (5) The operation data indicate when the air-conditioner is operated at 230V 50Hz or 220V 60Hz.

 (6) Indoor unit specifications for one unit. Capacity and operation data is two indoor units are combined and run together.

 (7) Branching pipe set "DIS-WA1G"×1(Option). ①: Pipe of O/U-Branch. ②: Pipe of Branch-I/U

			Model	FDE140V	SXWPVH
Item				Indoor unit FDE71VH (2 units)	Outdoor unit FDC140VSX-W
Power source)			` ′	V 50Hz / 380V 60Hz
	Nominal cooling capacity (ra	ange)	kW	14.0 [3.5(Min.	.) - 16.0(Max.)]
	Nominal heating capacity (r		kW	- `	.) - 20.0(Max.)]
		Cooling		- `	16
	Power consumption	Heating	kW		97
	Max power consumption			8.	90
		Cooling			/ 6.6
	Running current	Heating	A		/ 6.5
	Inrush current, max current	11.00019	┤ ^`		14
Operation		Cooling		-	.: · .1
data	Power factor	Heating	- %		9
	EER	Cooling			36
	COP	Heating	-		03
		Cooling			69
	Sound power level	Heating	\dashv	60	71
		Cooling			7.1
	Sound pressure level	Heating	dB(A)	P-Hi: 47 Hi: 41 Me: 37 Lo: 32	54
	Silent mode	Cooling			50 /49(Normal/Silent)
	sound pressure level	Heating	\dashv	_	51 /48(Normal/Silent)
Exterior dime	nsions (Height x Width x Depth		mm	210 x 1320 x 690	1300x970x370
Exterior appe		')	111111	Plaster white	Stucco white
(Munsell color				(6.8Y8.9/0.2) near equivalent	(4.2Y7.5/1.1) near equivalent
(RAL color)	•,			(RAL 9003) near equivalent	(RAL 7044) near equivalent
Net weight			kg	33	99
Compressor t	type & Q'ty		1.5	_	RMT5134SWP4 (Twin rotary type)×1
	motor (Starting method)		kW	_	Direct line start
<u> </u>	I (Amount, type)		L	_	0.9 (M-MB75)
	Type, amount, pre-charge leng	th)	kg	R32 4 0 in outdoor unit (Incl. th.	e amount for the piping of 30m)
Heat exchang	··	,	1.9	Louver fin & inner grooved tubing	M shape fin & inner grooved tubing
Refrigerant co			+	-	pansion valve
Fan type & Q'				Centrifugal fan ×4	Propeller fan x2
	tarting method)		W	50 < Direct line start >	86x2 < Direct line start >
Tarrinotor (ot	arting mornou,	Cooling	_	oo v Briodi iirio diare x	OOAL \ Biloot iiilo didit >
Air flow		Heating	m³/min	P-Hi: 20 Hi: 16 Me: 13 Lo: 10	100
Available exte	ernal static pressure	1 11 3	Pa	0	0
Outside air int	<u>'</u>			Not possible	_
Air filter, Quali	ity / Quantity			Pocket plastic net x2(Washable)	_
	ation absorber			Rubber sleeve(for fan motor)	Rubber sleeve (for fan motor & compressor)
Electric heate			W	_	20(Crank case heater)
	Remote control			(Option) Wired: RC-EX3A.RC-E	5 , RCH-E3 Wireless : RCN-E-E3
Operation	Room temperature control				by electronics
control	Operation display			-	. . -
	1			Overload protect	tion for fan motor
Safety equipn	nente				on thermostat
Salety equipi	nents				stat for fan motor
		1,		<u> </u>	emperature protection
	Refrigerant piping size	Liquid line	mm	I/U φ 9.52 (3/8") ② φ 9.52 (3/8")x0.8	① φ 9.52 (3/8")x0.8 O/U φ 9.52 (3/8")
	(O.D)	Gas line		φ 15.88 (5/8") ② φ 15.88(5/8")x1.0	① φ 15.88(5/8")x1.0 φ 15.88 (5/8")
Installation	Connecting method		1	Flare piping	Flare piping
data	Insulation for piping				_iquid & Gas lines)
	Refrigerant line (one way) le		m		Max.85
	Vertical height diff. between O/	'U and I/U	m	Max.50 (Outdoor unit is higher)	Max.15 (Outdoor unit is lower)
	Drain hose			Hose connectable with VP20(O.D.26)	Hole size φ 20 x 3 pcs
	max lift height		mm	_	_
	ed breaker size		A		
	d rotor ampere)		A		.0
Interconnectin	ng wires Size >	Core number		•	Terminal block (Screw fixing type)
IP number				IPX0	IP24
Standard acc	essories			Mounting kit, Drain hose	_
Option parts				Motion ser	nsor : LB-E

()		5			The pipe length is 7.011.
Iter	n Indoor air t	emperature	Outdoor air	temperature	Standards
Operation	DB	WB	DB	WB	Standards
Cooling	27°C	19°C	35°C	24°C	ISO5151-T1
Heating	20°C	_	7°C	6°C	ISO5151-H1

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.
 (3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
 (4) Select the breaker size according to the own national standard.
 (5) The operation data indicate when the air-conditioner is operated at 400V 50Hz or 380V 60Hz.
 (6) Indoor unit specifications for one unit. Capacity and operation data is two indoor units are combined and run together.
 (7) Branching pipe set "DIS-WA1G"×1(Option). ①: Pipe of O/U-Branch. ②: Pipe of Branch-I/U

(c) Triple type

			Model	FDE140V	/NXWTVH
Item				Indoor unit FDE50VH (3 units)	Outdoor unit FDC140VNX-W
Power source				1 Phase, 220 - 240	V 50Hz / 220V 60Hz
	Nominal cooling capacity (ra	ange)	kW	14.0 [3.5(Min	.) - 16.0(Max.)]
	Nominal heating capacity (ra	ange)	kW	16.0 [2.7(Min	.) - 18.0(Max.)]
	Dower consumption	Cooling		3.	72
	Power consumption	Heating	kW	4.	11
	Max power consumption	•		7.	10
	B	Cooling		16.5	/ 17.3
	Running current	Heating	Α	18.1	/ 18.9
	Inrush current, max current			5,	27
Operation		Cooling		9	98
data	Power factor	Heating	- %	S	99
	EER	Cooling		3.	76
	COP	Heating			89
		Cooling			69
	Sound power level	Heating		60	71
		Cooling	-		
	Sound pressure level	Heating	dB(A)	P-Hi: 46 Hi: 38 Me: 36 Lo: 31	54
	Silent mode	Cooling			50 /49(Normal/Silent)
	sound pressure level	Heating	_	_	51 /48(Normal/Silent)
Exterior dime	nsions (Height x Width x Depth		mm	210 x 1070 x 690	1300x970x370
Exterior appe		1)	111111	Plaster white	Stucco white
(Munsell color (RAL color)				(6.8Y8.9/0.2) near equivalent (RAL 9003) near equivalent	(4.2Y7.5/1.1) near equivalent (RAL 7044) near equivalent
Net weight			kg	28	97
Compressor t	type & Q'ty		† <u> </u>	_	RMT5134SWP3 (Twin rotary type)×1
<u> </u>	motor (Starting method)		kW	_	Direct line start
	I (Amount, type)		L	_	0.9 (M-MB75)
	Type, amount, pre-charge length	th)	kg	B32.4.0 in outdoor unit (Incl. th	e amount for the piping of 30m)
Heat exchang		,	19	Louver fin & inner grooved tubing	M shape fin & inner grooved tubing
Refrigerant co	<u></u>			-	pansion valve
Fan type & Q'				Centrifugal fan ×2	Propeller fan x2
	arting method)		W	30 < Direct line start >	86x2 < Direct line start >
Air flow	3	Cooling Heating	m³/min	P-Hi: 13 Hi: 10 Me: 9 Lo: 7	100
Available exte	ernal static pressure	1	Pa	0	0
Outside air in			1	Not possible	_
Air filter, Qual				Pocket plastic net x2(Washable)	_
	ation absorber			Rubber sleeve(for fan motor)	Rubber sleeve (for fan motor & compressor
Electric heate			W	_	20(Crank case heater)
Licotino ficato	Remote control		+ **	(Ontion) Wired : RC-EY3A RC-E	E5 , RCH-E3 Wireless : RCN-E-E3
Operation	Room temperature control				by electronics
control	Operation display			memostari	by electronics
	Operation display			Overload protes	tion for fan motor
					on thermostat
Safety equipn	nents				stat for fan motor
				Abnormal discharge t	emperature protection
	Refrigerant piping size	Liquid line	Ma	I/U φ 6.35 (1/4") ② φ 9.52 (3/8")x0.8	① φ 9.52 (3/8")x0.8 O/U φ 9.52 (3/8")
	(O.D)	Gas line	mm	φ 12.7 (1/2") ② φ 12.7(1/2")x0.8	① φ 15.88(5/8")x1.0 φ 15.88 (5/8")
In a hall a st	Connecting method	•		Flare piping	Flare piping
Installation	Insulation for piping			Necessary (both	Liquid & Gas lines)
data	Refrigerant line (one way) le	ngth	m	Min.3 ,	Max.85
	Vertical height diff. between O/		m	Max.50 (Outdoor unit is higher)	Max.15 (Outdoor unit is lower)
	Drain hose			Hose connectable with VP20(O.D.26)	Hole size φ 20 x 3 pcs
Drain pump. r	max lift height		mm	-	_
	ed breaker size	,	Α		
	d rotor ampere)		A		5.0
Interconnecting		Core number			/ Terminal block (Screw fixing type)
IP number	19 11/103	COIC HUITIDEI		Ψ 1.0πm x3 cores + earth cable :	IP24
Standard acc	essories			Mounting kit, Drain hose	
Option parts	00001100			-	 nsor : LB-E
	ne data are measured at the f	tallandar 199		I IVIOLIOTI SE	IIOOI . LD-L
DIOTOC (T)					

The	pipe	length	is	7.5m

Item	Indoor air t	emperature	Outdoor air	temperature	Standards
Operation	DB	WB	DB	WB	Standards
Cooling	27°C	19°C	35°C	24°C	ISO5151-T1
Heating	20°C	_	7°C	6°C	ISO5151-H1

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.

 (3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.

 (4) Select the breaker size according to the own national standard.

 (5) The operation data indicate when the air-conditioner is operated at 230V 50Hz or 220V 60Hz.

 (6) Indoor unit specifications for one unit. Capacity and operation data is three indoor units are combined and run together.

 (7) Branching pipe set "DIS-TA1G"×1(Option). ①: Pipe of O/U-Branch, ②: Pipe of Branch-I/U

			Model	FDE140V	SXWTVH
Item			5031	Indoor unit FDE50VH (3 units)	Outdoor unit FDC140VSX-W
Power source)			` '	V 50Hz / 380V 60Hz
	Nominal cooling capacity (ra	ange)	kW	14.0 [3.5(Min.	.) - 16.0(Max.)]
	Nominal heating capacity (ra	ange)	kW	16.0 [2.7(Min.	.) - 20.0(Max.)]
		Cooling		3.	72
	Power consumption	Heating	kW	4.	11
	Max power consumption		7	8.	90
	·	Cooling			/ 6.6
	Running current	Heating	A	6.9	7.3
	Inrush current, max current	1	-		14
Operation		Cooling			
data	Power factor	Heating	- %		66
	EER	Cooling			76
	COP	Heating	\dashv		89
	001	Cooling		<u> </u>	69
	Sound power level	Heating	-	60	71
		Cooling	\dashv		71
	Sound pressure level	Heating	dB(A)	P-Hi: 46 Hi: 38 Me: 36 Lo: 31	54
	Oileast asserts	Cooling	-		50 /49(Normal/Silent)
	Silent mode sound pressure level		_	_	
Estados discos	<u> </u>	Heating		040 4070 000	51 /48(Normal/Silent)
	nsions (Height x Width x Depth	IJ	mm	210 x 1070 x 690	1300x970x370
Exterior appea (Munsell color				Plaster white (6.8Y8.9/0.2) near equivalent	Stucco white (4.2Y7.5/1.1) near equivalent
(RAL color)	1)			(BAL 9003) near equivalent	(RAL 7044) near equivalent
Net weight			lea	28	99
	huma 9 Oldur		kg	· ·	
Compressor t	·· · · · · · · · · · · · · · · · · · ·		LAA	_	RMT5134SWP4 (Twin rotary type)×1
· ·	motor (Starting method)		kW	_	Direct line start
	il (Amount, type)		L	_	0.9 (M-MB75)
	Type, amount, pre-charge leng	th)	kg	,	e amount for the piping of 30m)
Heat exchang				Louver fin & inner grooved tubing	M shape fin & inner grooved tubing
Refrigerant co					pansion valve
Fan type & Q'				Centrifugal fan ×2	Propeller fan x2
Fan motor (St	tarting method)		W	30 < Direct line start >	86x2 < Direct line start >
Air flow		Cooling Heating	m³/min	P-Hi: 13 Hi: 10 Me: 9 Lo: 7	100
Available exte	ernal static pressure		Pa	0	0
Outside air int	take			Not possible	_
Air filter, Quali	ity / Quantity			Pocket plastic net x2(Washable)	_
Shock & vibra	ation absorber			Rubber sleeve(for fan motor)	Rubber sleeve (for fan motor & compressor
Electric heate	er		W	_	20(Crank case heater)
	Remote control			(Option) Wired: RC-EX3A, RC-E	5 , RCH-E3 Wireless : RCN-E-E3
Operation control	Room temperature control			Thermostat b	by electronics
CONTROL	Operation display			-	_
Safety equipn	nents			Frost protection Internal thermos	tion for fan motor on thermostat tat for fan motor
	In	Liquidlina	+		emperature protection
	Refrigerant piping size	Liquid line	mm	I/U φ 6.35 (1/4") ② φ 9.52 (3/8")x0.8	① φ 9.52 (3/8")x0.8 O/U φ 9.52 (3/8")
	(O.D)	Gas line	+	. , , - , , , ,	① φ 15.88(5/8")x1.0 φ 15.88 (5/8")
Installation	Connecting method			Flare piping	Flare piping
data	Insulation for piping				Liquid & Gas lines)
	Refrigerant line (one way) le		m		Max.85
	Vertical height diff. between O/	u and I/U	m	Max.50 (Outdoor unit is higher)	Max.15 (Outdoor unit is lower)
<u> </u>	Drain hose			Hose connectable with VP20(O.D.26)	Hole size φ 20 x 3 pcs
	max lift height		mm	_	_
	ed breaker size		A		_
	d rotor ampere)		A		.0
Interconnectir	ng wires Size x	Core number		•	Terminal block (Screw fixing type)
IP number				IPX0	IP24
Standard acco	essories			Mounting kit, Drain hose	_
Option parts				Motion ser	nsor : LB-E

()		5			The pipe length is 7.011.
Iter	n Indoor air t	emperature	Outdoor air	temperature	Standards
Operation	DB	WB	DB	WB	Standards
Cooling	27°C	19°C	35°C	24°C	ISO5151-T1
Heating	20°C	_	7°C	6°C	ISO5151-H1

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.
 (3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
 (4) Select the breaker size according to the own national standard.
 (5) The operation data indicate when the air-conditioner is operated at 400V 50Hz or 380V 60Hz.
 (6) Indoor unit specifications for one unit. Capacity and operation data is three indoor units are combined and run together.
 (7) Branching pipe set "DIS-TA1G"×1(Option). ①: Pipe of O/U-Branch, ②: Pipe of Branch-I/U

(6) Wall mounted type (SRK)

(a) Single type

14			Model		VNXWZR	
Item				Indoor unit SRK100ZR-W	Outdoor unit FDC100VNX-W	
Power source	· · · · · · · · · · · · · · · · · · ·			,	V 50Hz / 220V 60Hz	
	Nominal cooling capacity (ra	inge)	kW	10.0 [3.5(Min	.) - 11.2(Max.)]	
	Nominal heating capacity (ra	inge)	kW	11.2 [2.7(Min	.) - 12.5(Max.)]	
	Danier as a superior	Cooling		2.	74	
	Power consumption	Heating	kW	3.	04	
	Max power consumption	•	7	7.	10	
		Cooling		12.1	/ 12.7	
	Running current	Heating			/ 13.9	
	Inrush current, max current	ricating			25	
O	midsir current, max current	Cooling	+ +		98	
Operation	Power factor	Cooling	- % -			
data		Heating			99	
	EER	Cooling	-		65	
	COP	Heating		3.	69	
	Sound power level	Cooling	_	63	67	
	Sound power level	Heating		03	07	
		Cooling	┦ ┌	Hi: 48 Me: 45 Lo: 40 ULo: 27	53	
	Sound pressure level	Heating	│ dB(A)	Hi: 48 Me: 43 Lo: 38 ULo: 30	51	
	Silent mode	Cooling	1		49 /48(Normal/Silent)	
	sound pressure level	Heating	-	_	48 /48(Normal/Silent)	
vtorior aller -	· · · · · · · · · · · · · · · · · · ·		m=	220 1107 000	` '	
	nsions (Height x Width x Depth)	mm	339 × 1197 × 262	1300×970×370	
xterior appea				Fine snow	Stucco white	
Munsell color	r)			(8.0Y9.3/0.1) near equivalent	(4.2Y7.5/1.1) near equivalent	
RAL color)				(RAL 9003) near equivalent	(RAL 7044) near equivalent	
let weight			kg	16.5	97	
ompressor t	type & Q'ty			_	RMT5134SWP3 x 1	
ompressor n	motor (Starting method)		kW	_	Direct line start	
	I (Amount, type)		L	_	0.9 (M-MB75)	
	Type, amount, pre-charge lengt	h)	kg	P32.4.0 in outdoor unit (Incl. th	e amount for the piping of 30m)	
		11)	l kg	·		
leat exchang	<u></u>			Louver fin & inner grooved tubing	M shape fin & inner grooved tubing	
Refrigerant co					pansion valve	
an type & Q'	<u> </u>			Tangential fan x 1	Propeller fan ×2	
an motor (St	arting method)		W	56x1 < Direct line start >	86x2 < Direct line start >	
ir flow		Cooling	m³/min	Hi: 24.5 Me: 21.3 Lo: 17.6 ULo: 10.4	100	
All HOW		Heating	7 '''/''''' [Hi: 27.5 Me: 23.2 Lo: 19.1 ULo: 13.6	100	
vailable exte	ernal static pressure		Pa	0	0	
Outside air int	take			Not possible	_	
	ity / Quantity		1	Polypropylene net (Washable) x 2	_	
	ation absorber		+ +	Rubber sleeve(for fan motor)	Rubber sleeve(for fan motor & compress	
lectric heate			10/	hubber sleeve(for fair fflotor)	`	
lectric neate			W		20(Crank case heater)	
peration	Remote control		1		, RCH-E3 Interface kit : SC-BIKN2-E	
ontrol	Room temperature control			Thermostat I	by electronics	
	Operation display				POWER: Green, 3D AUTO: Green	
	Operation display			<u> </u>	POWER : Green, 3D AUTO : Green tion for fan motor	
				Overload protect Frost protect	tion for fan motor on thermostat	
				Overload protect Frost protect Internal thermos	tion for fan motor on thermostat stat for fan motor	
Safety equipn	nents			Overload protec Frost protect Internal thermos Abnormal discharge t	tion for fan motor on thermostat stat for fan motor emperature protection	
	nents Refrigerant piping size	Liquid line	mm	Overload protect Frost protect Internal thermos Abnormal discharge t I/U φ 9.52 (3/8") Pipe φ 9.5	tion for fan motor on thermostat stat for fan motor emperature protection 2 (3/8")x0.8 O/U ϕ 9.52 (3/8")	
	Refrigerant piping size (O.D)	Liquid line Gas line	mm	Overload protect Frost protect Internal thermos Abnormal discharge t I/U φ 9.52 (3/8") Pipe φ 9.5	tion for fan motor on thermostat stat for fan motor emperature protection	
	nents Refrigerant piping size		- mm -	Overload protect Frost protect Internal thermos Abnormal discharge t I/U φ 9.52 (3/8") Pipe φ 9.5	tion for fan motor on thermostat stat for fan motor emperature protection 2 (3/8")x0.8 O/U ϕ 9.52 (3/8")	
afety equipn	Refrigerant piping size (O.D)		- mm -	Overload protect Frost protect Internal thermos Abnormal discharge t I/U φ 9.52 (3/8") Pipe φ 9.5 φ 15.88 (5/8") Pipe φ 15.	tion for fan motor on thermostat stat for fan motor emperature protection 2 (3/8")x0.8 O/U \(\phi \) 9.52 (3/8") 88(5/8")x1.0 \(\phi \) 15.88 (5/8")	
afety equipm	Refrigerant piping size (O.D) Connecting method			Overload protect Frost protect Internal thermos Abnormal discharge t I/U φ 9.52 (3/8") Pipe φ 9.5 φ 15.88 (5/8") Pipe φ 15. Flare piping	tion for fan motor on thermostat stat for fan motor emperature protection 2 (3/8")x0.8 O/U \(\phi \) 9.52 (3/8") 88(5/8")x1.0 \(\phi \) 15.88 (5/8")	
afety equipm	Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping	Gas line	m	Overload protect Frost protect Internal thermos Abnormal discharge t I/U φ 9.52 (3/8") Pipe φ 9.5 φ 15.88 (5/8") Pipe φ 15. Flare piping Necessary (both	tion for fan motor on thermostat stat for fan motor emperature protection 2 (3/8")x0.8	
afety equipm	Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) lei	Gas line	m m	Overload protect Frost protect Internal thermos Abnormal discharge t I/U φ 9.52 (3/8") Pipe φ 9.5 φ 15.88 (5/8") Pipe φ 15. Flare piping Necessary (both Min.3,	tion for fan motor on thermostat stat for fan motor emperature protection 2 (3/8")x0.8 O/U \(\phi \) 9.52 (3/8") 88(5/8")x1.0 \(\phi \) 15.88 (5/8") Flare piping — Liquid & Gas lines) Max.100	
afety equipm	Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) let Vertical height diff. between O/	Gas line	m	Overload protect Frost protect Internal thermos Abnormal discharge t I/U φ 9.52 (3/8") Pipe φ 9.5 φ 15.88 (5/8") Pipe φ 15. Flare piping - Necessary (both Min.3, Max.50 (Outdoor unit is higher)	tion for fan motor on thermostat stat for fan motor emperature protection 2 (3/8")x0.8	
afety equipm	Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) let Vertical height diff. between O/Drain hose	Gas line	m m m	Overload protect Frost protect Internal thermos Abnormal discharge t I/U φ 9.52 (3/8") Pipe φ 9.5 φ 15.88 (5/8") Pipe φ 15. Flare piping Necessary (both Min.3,	tion for fan motor on thermostat stat for fan motor emperature protection 2 (3/8")x0.8 O/U \(\phi \) 9.52 (3/8") 88(5/8")x1.0 \(\phi \) 15.88 (5/8") Flare piping — Liquid & Gas lines) Max.100	
afety equipm istallation ata rain pump, n	Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) let Vertical height diff. between O/Drain hose max lift height	Gas line	m m m	Overload protect Frost protect Internal thermos Abnormal discharge t I/U φ 9.52 (3/8") Pipe φ 9.5 φ 15.88 (5/8") Pipe φ 15. Flare piping - Necessary (both Min.3, Max.50 (Outdoor unit is higher)	tion for fan motor on thermostat stat for fan motor emperature protection 2 (3/8")x0.8	
afety equipm stallation ata rain pump, r	Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) let Vertical height diff. between O/Drain hose	Gas line	m m m	Overload protect Frost protect Internal thermos Abnormal discharge t I/U φ 9.52 (3/8") Pipe φ 9.5 φ 15.88 (5/8") Pipe φ 15. Flare piping Necessary (both Min.3 , Max.50 (Outdoor unit is higher) Hose connectable with VP16	tion for fan motor on thermostat stat for fan motor emperature protection 2 (3/8")x0.8 O/U \(\phi \) 9.52 (3/8") 88(5/8")x1.0 \(\phi \) 15.88 (5/8") Flare piping — Liquid & Gas lines) Max.100 Max.15 (Outdoor unit is lower) Hole size \(\phi \) 20 x 3 pcs	
afety equipm nstallation ata prain pump, n	Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) let Vertical height diff. between O/Drain hose max lift height	Gas line	m m m	Overload protect Frost protect Internal thermos Abnormal discharge t I/U φ 9.52 (3/8") Pipe φ 9.5 φ 15.88 (5/8") Pipe φ 15. Flare piping Necessary (both Min.3 , Max.50 (Outdoor unit is higher) Hose connectable with VP16	tion for fan motor on thermostat stat for fan motor emperature protection 2 (3/8")x0.8	
afety equipm estallation ata rain pump, r ecommende R.A. (Locket	Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) lei Vertical height diff. between O/Drain hose max lift height ded breaker size d rotor ampere)	Gas line	m m m A	Overload protect Frost protect Internal thermos Abnormal discharge t I/U φ 9.52 (3/8") Pipe φ 9.5 φ 15.88 (5/8") Pipe φ 15. Flare piping Necessary (both Min.3 , Max.50 (Outdoor unit is higher) Hose connectable with VP16	tion for fan motor on thermostat stat for fan motor emperature protection 2 (3/8")x0.8 O/U \(\phi \) 9.52 (3/8") 88(5/8")x1.0 \(\phi \) 15.88 (5/8") Flare piping Liquid & Gas lines) Max.100 Max.15 (Outdoor unit is lower) Hole size \(\phi \) 20 x 3 pcs	
afety equipm nstallation ata Prain pump, n decommende .R.A. (Locked nterconnectin	Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) lei Vertical height diff. between O/Drain hose max lift height ded breaker size d rotor ampere)	Gas line ngth J and I/U	m m m A	Overload protect Frost protect Internal thermos Abnormal discharge t I/U φ 9.52 (3/8") Pipe φ 9.5 φ 15.88 (5/8") Pipe φ 15. Flare piping Necessary (both Min.3 , Max.50 (Outdoor unit is higher) Hose connectable with VP16 σ 1.6mm x3 cores + earth cable /	tion for fan motor on thermostat stat for fan motor emperature protection 2 (3/8")x0.8 O/U \(\phi \) 9.52 (3/8") 88(5/8")x1.0 \(\phi \) 15.88 (5/8") Flare piping — Liquid & Gas lines) Max.100 Max.15 (Outdoor unit is lower) Hole size \(\phi \) 20 x 3 pcs — 5.0 Termainal block (Screw fixing type)	
eratety equipments and stallation lata Prain pump, response to the commende late. R.A. (Locker iterconnecting number	Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) lei Vertical height diff. between O/Drain hose max lift height ad breaker size d rotor ampere) ng wires Size x	Gas line ngth J and I/U	m m m A	Overload protect Frost protect Internal thermos Abnormal discharge t I/U ϕ 9.52 (3/8") Pipe ϕ 9.5 ϕ 15.88 (5/8") Pipe ϕ 15. Flare piping Necessary (both Min.3, Max.50 (Outdoor unit is higher) Hose connectable with VP16 ϕ 1.6mm x3 cores + earth cable / IPX0	tion for fan motor on thermostat stat for fan motor emperature protection 2 (3/8")x0.8 O/U \(\phi \) 9.52 (3/8") 88(5/8")x1.0 \(\phi \) 15.88 (5/8") Flare piping Liquid & Gas lines) Max.100 Max.15 (Outdoor unit is lower) Hole size \(\phi \) 20 x 3 pcs	
Safety equipm nstallation lata Drain pump, n	Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) lei Vertical height diff. between O/Drain hose max lift height ad breaker size d rotor ampere) ng wires Size x	Gas line ngth J and I/U	m m m A	Overload protect Frost protect Internal thermos Abnormal discharge t I/U φ 9.52 (3/8") Pipe φ 9.5 φ 15.88 (5/8") Pipe φ 15. Flare piping Necessary (both Min.3 , Max.50 (Outdoor unit is higher) Hose connectable with VP16 σ 1.6mm x3 cores + earth cable / IPX0 Mounting kit, Clean filter	tion for fan motor on thermostat stat for fan motor emperature protection 2 (3/8")x0.8 O/U \(\phi \) 9.52 (3/8") 88(5/8")x1.0 \(\phi \) 15.88 (5/8") Flare piping — Liquid & Gas lines) Max.100 Max.15 (Outdoor unit is lower) Hole size \(\phi \) 20 x 3 pcs — 5.0 Termainal block (Screw fixing type)	

The	pipe	length	is	7.5m.

Item	Item Indoor air temperature		Outdoor air	temperature	Standards
Operation	DB	WB	DB	WB	Standards
Cooling	27°C	19°C	35°C	24°C	ISO5151-T1
Heating	20°C	_	7°C	6°C	ISO5151-H1

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.
- (3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
- (4) Select the breaker size according to the own national standard.
- (5) The operation data indicate when the air-conditioner is operated at 230V 50Hz or 220V 60Hz.

la			Model	SRK100	VSXWZR		
Item				Indoor unit SRK100ZR-W	Outdoor unit FDC100VSX-W		
Power source				3 Phase, 380 - 415	V 50Hz / 380V 60Hz		
	Nominal cooling capacity (ra	nge)	kW	10.0 [3.5(Mir	n.) - 11.2(Max.)]		
Nominal heating capa		<u> </u>	kW	11.2 [2.7(Min.) - 16.0(Max.)]			
		Cooling	+ ***		.74		
	Power consumption	Heating	H _{kW} H		.04		
	May power consumption	Troduing	┦ ~~ ト		.90		
	Max power consumption	O l'in	+				
	Running current	Cooling	┨. ┝		/ 4.9		
		Heating	_ A _		/ 5.4		
	Inrush current, max current			5,	14		
Operation Power factor		Cooling	- % -	8	35		
data	1 Ower factor	Heating	/ /	8	36		
	EER	Cooling		3	.65		
	COP	Heating	7	3	.69		
		Cooling					
	Sound power level	Heating	┦	63	67		
		Cooling	┥ ├	Hi: 48 Me: 45 Lo: 40 ULo: 27	53		
	Sound pressure level	Heating	dB(A)	Hi: 48 Me: 43 Lo: 38 ULo: 30	51		
			- -	HI. 46 Me. 43 LO. 36 OLO. 30	-		
	Silent mode	Cooling	-	_	49 /48(Normal/Silent)		
	sound pressure level	Heating			48 /48(Normal/Silent)		
	nsions (Height x Width x Depth)	1	mm	339 × 1197 × 262	1300×970×370		
Exterior appea	arance			Fine snow	Stucco white		
Munsell color	·)			(8.0Y9.3/0.1) near equivalent	(4.2Y7.5/1.1) near equivalent		
RAL color)				(RAL 9003) near equivalent	(RAL 7044) near equivalent		
Net weight			kg	16.5	99		
Compressor ty	ype & Q'ty			_	RMT5134SWP4 x 1		
Compressor n	notor (Starting method)		kW	_	Direct line start		
	(Amount, type)		L		0.9 (M-MB75)		
	vpe, amount, pre-charge length	2)	+ + +		ne amount for the piping of 30m)		
· · ·	71 71 0 0	ı)	kg				
leat exchange			+ +	Louver fins & inner grooved tubing	M shape fin & inner grooved tubing		
Refrigerant co			1		pansion valve		
an type & Q't	·			Tangential fan x 1	Propeller fan ×2		
an motor (Sta	arting method)		W	56x1 < Direct line start >	86x2 < Direct line start >		
Air flow		Cooling	m³/min	Hi: 24.5 Me: 21.3 Lo: 17.6 ULo: 10.4	100		
All HOW		Heating	T ''' /'' [Hi: 27.5 Me: 23.2 Lo: 19.1 ULo: 13.6	100		
	rnal static pressure		Pa	0	0		
Available exter				Not possible	_		
	<u> </u>	Outside air intake		· · · · · · · · · · · · · · · · · · ·			
Outside air inta	ake		+ +	Polypropylene net (Washable) x 2	_		
Outside air int Air filter, Qualit	ake ty / Quantity			Pulbor slovy/for fan meter	- Pubbor classifor for motor & compress		
Outside air inta Air filter, Qualit Shock & vibrat	ake ty / Quantity tion absorber		10/	Polypropylene net (Washable) x 2 Rubber sleeve(for fan motor)	· · · · · · · · · · · · · · · · · · ·		
Outside air inta Air filter, Qualit Shock & vibrat	ake ty / Quantity tion absorber r		W	Rubber sleeve(for fan motor)	20(Crank case heater)		
Outside air inta Air filter, Qualit Shock & vibrat Electric heater	ake ty / Quantity tion absorber r Remote control		W	Rubber sleeve(for fan motor) - (Option) Wired: RC-EX3A, RC-E5	20(Crank case heater) , RCH-E3 Interface kit : SC-BIKN2-E		
Outside air into Air filter, Qualit Shock & vibrat Electric heater Operation	ty / Quantity tion absorber r Remote control Room temperature control		W	Rubber sleeve(for fan motor) (Option) Wired: RC-EX3A, RC-E5 Thermostat	20(Crank case heater) , RCH-E3 Interface kit : SC-BIKN2-E by electronics		
	ake ty / Quantity tion absorber r Remote control		W	Rubber sleeve(for fan motor) — (Option) Wired: RC-EX3A, RC-E5 Thermostat RUN: Green, TIMER: Yellow, HI	, RCH-E3 Interface kit : SC-BIKN2-E by electronics POWER : Green, 3D AUTO : Green		
Outside air into Air filter, Qualit Shock & vibrat Electric heater Operation	ty / Quantity tion absorber r Remote control Room temperature control		W	Rubber sleeve(for fan motor) — (Option) Wired: RC-EX3A, RC-E5 Thermostat RUN: Green, TIMER: Yellow, HI Overload protec	20(Crank case heater) , RCH-E3 Interface kit : SC-BIKN2-E by electronics POWER : Green, 3D AUTO : Green tion for fan motor		
Outside air int. Air filter, Qualit Shock & vibrat Electric heater Operation control	ake ty / Quantity tion absorber r Remote control Room temperature control Operation display		W	Rubber sleeve(for fan motor) — (Option) Wired: RC-EX3A, RC-E5 Thermostat: RUN: Green, TIMER: Yellow, HI Overload protect Frost protect	20(Crank case heater) , RCH-E3 Interface kit : SC-BIKN2-E by electronics POWER : Green, 3D AUTO : Green tion for fan motor ion thermostat		
Dutside air int. Air filter, Qualit Shock & vibrat Electric heater Operation control	ake ty / Quantity tion absorber r Remote control Room temperature control Operation display		W	Rubber sleeve(for fan motor) — (Option) Wired: RC-EX3A, RC-E5 Thermostat RUN: Green, TIMER: Yellow, HI Overload protec Frost protect Internal thermostat for	20(Crank case heater) , RCH-E3 Interface kit : SC-BIKN2-E by electronics POWER : Green, 3D AUTO : Green tion for fan motor ion thermostat or fan motor Abnormal		
Outside air int. Air filter, Qualit Shock & vibrat Electric heater Operation control	ake ty / Quantity tion absorber r Remote control Room temperature control Operation display	I San Males	W	Rubber sleeve(for fan motor) — (Option) Wired: RC-EX3A, RC-E5 Thermostat RUN: Green, TIMER: Yellow, HI Overload protec Frost protect Internal thermostat for discharge tempores.	20(Crank case heater) , RCH-E3 Interface kit: SC-BIKN2-E by electronics POWER: Green, 3D AUTO: Green tion for fan motor ion thermostat or fan motor Abnormal erature protection		
Outside air into Air filter, Qualit Shock & vibrat Electric heater Operation	ake ty / Quantity tion absorber r Remote control Room temperature control Operation display Refrigerant piping size	Liquid line	W	Rubber sleeve(for fan motor)	20(Crank case heater) , RCH-E3 Interface kit: SC-BIKN2-E by electronics POWER: Green, 3D AUTO: Green tion for fan motor ion thermostat or fan motor Abnormal erature protection 2 (3/8")x0.8 O/U \$\phi\$ 9.52 (3/8")		
Dutside air int. Air filter, Qualit Shock & vibrat Electric heater Operation control	ake ty / Quantity tion absorber r Remote control Room temperature control Operation display nents Refrigerant piping size (O.D)	Liquid line Gas line		Rubber sleeve(for fan motor)	20(Crank case heater) , RCH-E3 Interface kit: SC-BIKN2-E by electronics POWER: Green, 3D AUTO: Green tion for fan motor ion thermostat or fan motor Abnormal erature protection 2 (3/8")x0.8 O/U \$\phi\$ 9.52 (3/8") 88(5/8")x1.0 \$\phi\$ 15.88 (5/8")		
Dutside air int. Air filter, Qualit Shock & vibrat Electric heater Operation control	Remote control Room temperature control Operation display Refrigerant piping size (O.D) Connecting method			Rubber sleeve(for fan motor)	20(Crank case heater) , RCH-E3 Interface kit: SC-BIKN2-E by electronics POWER: Green, 3D AUTO: Green tion for fan motor ion thermostat or fan motor Abnormal erature protection 2 (3/8")x0.8 O/U \$\phi\$ 9.52 (3/8")		
Dutside air int. Air filter, Qualit Shock & vibrat Electric heater Operation control Safety equipm	ake ty / Quantity tion absorber r Remote control Room temperature control Operation display nents Refrigerant piping size (O.D)			Rubber sleeve(for fan motor)	20(Crank case heater) , RCH-E3 Interface kit: SC-BIKN2-E by electronics POWER: Green, 3D AUTO: Green tion for fan motor ion thermostat or fan motor Abnormal erature protection 2 (3/8")x0.8 O/U \$\phi\$ 9.52 (3/8") 88(5/8")x1.0 \$\phi\$ 15.88 (5/8")		
Outside air intair filter, Qualitichock & vibraticlectric heater Operation control Safety equipmenstallation	Remote control Room temperature control Operation display Refrigerant piping size (O.D) Connecting method		- mm -	Rubber sleeve(for fan motor) — (Option) Wired: RC-EX3A, RC-E5 Thermostat RUN: Green, TIMER: Yellow, HI Overload protec Frost protect Internal thermostat fe discharge tempe I/U \$\phi\$ 9.52 (3/8") Pipe \$\phi\$ 9.5 \$\phi\$ 15.88 (5/8") Pipe \$\phi\$ 15. Flare piping	20(Crank case heater) , RCH-E3 Interface kit: SC-BIKN2-E by electronics POWER: Green, 3D AUTO: Green tion for fan motor ion thermostat or fan motor Abnormal erature protection 2 (3/8")x0.8 O/U \$\phi\$ 9.52 (3/8") 88(5/8")x1.0 \$\phi\$ 15.88 (5/8")		
Outside air intair filter, Qualitichock & vibraticlectric heater Operation control Safety equipmenstallation	Remote control Room temperature control Operation display Refrigerant piping size (O.D) Connecting method Attached length of piping	Gas line	- mm -	Rubber sleeve(for fan motor) — (Option) Wired: RC-EX3A, RC-E5 Thermostat RUN: Green, TIMER: Yellow, HI Overload protect Frost protect Internal thermostat fe discharge tempe I/U \$\phi\$ 9.52 (3/8") Pipe \$\phi\$ 9.5 \$\phi\$ 15.88 (5/8") Pipe \$\phi\$ 15. Flare piping — Necessary (both	20(Crank case heater) , RCH-E3 Interface kit: SC-BIKN2-E by electronics POWER: Green, 3D AUTO: Green tion for fan motor ion thermostat or fan motor Abnormal erature protection 2 (3/8")x0.8 O/U \$\phi\$ 9.52 (3/8") 88(5/8")x1.0 \$\phi\$ 15.88 (5/8") Flare piping		
Dutside air int. Air filter, Qualit Shock & vibrat Electric heater Operation control Safety equipm	Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation absorber Remote control	Gas line	- mm -	Rubber sleeve(for fan motor) — (Option) Wired: RC-EX3A, RC-E5 Thermostat RUN: Green, TIMER: Yellow, HI Overload protect Frost protect Internal thermostat fe discharge tempe I/U \$\phi\$ 9.52 (3/8") Pipe \$\phi\$ 9.5 \$\phi\$ 15.88 (5/8") Pipe \$\phi\$ 15. Flare piping — Necessary (both	20(Crank case heater) , RCH-E3 Interface kit: SC-BIKN2-E by electronics POWER: Green, 3D AUTO: Green tion for fan motor ion thermostat or fan motor Abnormal erature protection 2 (3/8")x0.8 O/U \(\phi \) 9.52 (3/8") 88(5/8")x1.0 \(\phi \) 15.88 (5/8") Flare piping Liquid & Gas lines)		
Dutside air int. Air filter, Qualit Shock & vibrat Electric heater Operation control Safety equipm	Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) ler Vertical height diff. between O/L	Gas line	m m	Rubber sleeve(for fan motor) — (Option) Wired: RC-EX3A, RC-E5 Thermostat RUN: Green, TIMER: Yellow, HI Overload protect Frost protect Internal thermostat fe discharge tempe I/U \$\phi\$ 9.52 (3/8") Pipe \$\phi\$ 9.5 \$\phi\$ 15.88 (5/8") Pipe \$\phi\$ 15. Flare piping — Necessary (both Min.3, Max.50 (Outdoor unit is higher)	20(Crank case heater) , RCH-E3 Interface kit : SC-BIKN2-E by electronics POWER : Green, 3D AUTO : Green tion for fan motor ion thermostat or fan motor Abnormal erature protection 2 (3/8")x0.8 O/U \$\phi\$ 9.52 (3/8") 88(5/8")x1.0 \$\phi\$ 15.88 (5/8") Flare piping — Liquid & Gas lines) Max.100 Max.15 (Outdoor unit is lower)		
Outside air intair filter, Qualitificock & vibratification (Poperation control Safety equipmental attained atta	Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) ler Vertical height diff. between O/L Drain hose	Gas line	m m m	Rubber sleeve(for fan motor) — (Option) Wired: RC-EX3A, RC-E5 Thermostat RUN: Green, TIMER: Yellow, HI Overload protect Frost protect Internal thermostat fe discharge tempe I/U \$\phi\$ 9.52 (3/8") Pipe \$\phi\$ 9.5 \$\phi\$ 15.88 (5/8") Pipe \$\phi\$ 15. Flare piping — Necessary (both Min.3,	20(Crank case heater) , RCH-E3 Interface kit : SC-BIKN2-E by electronics POWER : Green, 3D AUTO : Green tion for fan motor ion thermostat or fan motor Abnormal erature protection 2 (3/8")x0.8 O/U \(\phi \) 9.52 (3/8") 88(5/8")x1.0 \(\phi \) 15.88 (5/8") Flare piping Liquid & Gas lines) Max.100		
Outside air inti- ir filter, Qualiti- ir filte	Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) ler Vertical height diff. between O/L Drain hose max lift height	Gas line	m m m mm	Rubber sleeve(for fan motor) — (Option) Wired: RC-EX3A, RC-E5 Thermostat RUN: Green, TIMER: Yellow, HI Overload protect Frost protect Internal thermostat fe discharge tempe I/U \$\phi\$ 9.52 (3/8") Pipe \$\phi\$ 9.5 \$\phi\$ 15.88 (5/8") Pipe \$\phi\$ 15. Flare piping — Necessary (both Min.3, Max.50 (Outdoor unit is higher) Hose connectable with VP16	20(Crank case heater) , RCH-E3 Interface kit: SC-BIKN2-E by electronics POWER: Green, 3D AUTO: Green tion for fan motor ion thermostat or fan motor Abnormal erature protection 2 (3/8")x0.8 O/U φ 9.52 (3/8") 88(5/8")x1.0 φ 15.88 (5/8") Flare piping — Liquid & Gas lines) Max.100 Max.15 (Outdoor unit is lower) Hole size φ 20 x 3 pcs		
Dutside air intair filter, Qualitishock & vibratishock & vibratish	Remote control Room temperature control Operation display Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) ler Vertical height diff. between O/L Drain hose max lift height de breaker size	Gas line	m m m m A	Rubber sleeve(for fan motor) — (Option) Wired: RC-EX3A, RC-E5 Thermostat RUN: Green, TIMER: Yellow, HI Overload protect Frost protect Internal thermostat fc discharge tempe I/U \(\phi \) 9.52 (3/8") Pipe \(\phi \) 9.5 \(\phi \) 15.88 (5/8") Pipe \(\phi \) 15. Flare piping — Necessary (both Min.3, Max.50 (Outdoor unit is higher) Hose connectable with VP16	20(Crank case heater) , RCH-E3 Interface kit: SC-BIKN2-E by electronics POWER: Green, 3D AUTO: Green tion for fan motor ion thermostat or fan motor Abnormal erature protection 2 (3/8")x0.8 O/U φ 9.52 (3/8") 88(5/8")x1.0 φ 15.88 (5/8") Flare piping — Liquid & Gas lines) Max.100 Max.15 (Outdoor unit is lower) Hole size φ 20 x 3 pcs		
Dutside air int. Air filter, Qualit Shock & vibrat Electric heater Operation Control Safety equipm Installation Idata Orain pump, In Recommende I.R.A. (Locked	Remote control Room temperature control Operation display Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) ler Vertical height diff. between O/L Drain hose max lift height d breaker size d rotor ampere)	Gas line ligth J and I/U	m m m mm	Rubber sleeve(for fan motor)	20(Crank case heater) , RCH-E3 Interface kit: SC-BIKN2-E by electronics POWER: Green, 3D AUTO: Green tion for fan motor ion thermostat or fan motor Abnormal erature protection 2 (3/8")x0.8 O/U φ 9.52 (3/8") 88(5/8")x1.0 φ 15.88 (5/8") Flare piping — Liquid & Gas lines) Max.100 Max.15 (Outdoor unit is lower) Hole size φ 20 x 3 pcs — 5.0		
Dutside air int. Air filter, Qualit Shock & vibrat Electric heater Operation Control Cafety equipm Installation Idata Orain pump, m Recommende I.R.A. (Locked Interconnection	Remote control Room temperature control Operation display Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) ler Vertical height diff. between O/L Drain hose max lift height d breaker size d rotor ampere)	Gas line	m m m m A	Rubber sleeve(for fan motor) - (Option) Wired: RC-EX3A, RC-E5 Thermostat RUN: Green, TIMER: Yellow, HI Overload protect Frost protect Internal thermostat ft discharge tempe I/U \(\phi \) 9.52 (3/8") Pipe \(\phi \) 9.5 \(\phi \) 15.88 (5/8") Pipe \(\phi \) 15. Flare piping - Necessary (both Min.3, Max.50 (Outdoor unit is higher) Hose connectable with VP16 - \(\phi \) 1.6mm x3 cores + earth cable /	20(Crank case heater) , RCH-E3 Interface kit: SC-BIKN2-E by electronics POWER: Green, 3D AUTO: Green tion for fan motor ion thermostat or fan motor Abnormal erature protection 2 (3/8")x0.8 O/U φ 9.52 (3/8") 88(5/8")x1.0 φ 15.88 (5/8") Flare piping — Liquid & Gas lines) Max.100 Max.15 (Outdoor unit is lower) Hole size φ 20 x 3 pcs — 5.0 / Termainal block (Screw fixing type)		
Dutside air int. Air filter, Qualit Shock & vibrat Electric heater Operation Control Cafety equipm Installation Idata Drain pump, m Recommende I.R.A. (Locked Interconnectin Installer	Remote control Room temperature control Operation display Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) ler Vertical height diff. between O/L Drain hose max lift height d breaker size d rotor ampere) ng wires Size x	Gas line ligth J and I/U	m m m m A	Rubber sleeve(for fan motor)	20(Crank case heater) , RCH-E3 Interface kit: SC-BIKN2-E by electronics POWER: Green, 3D AUTO: Green tion for fan motor ion thermostat or fan motor Abnormal erature protection 2 (3/8")x0.8 O/U φ 9.52 (3/8") 88(5/8")x1.0 φ 15.88 (5/8") Flare piping — Liquid & Gas lines) Max.100 Max.15 (Outdoor unit is lower) Hole size φ 20 x 3 pcs — 5.0		
Outside air int. Air filter, Qualit Shock & vibrat Electric heater Operation Control Safety equipm Installation Joata Drain pump, In Recommende	Remote control Room temperature control Operation display Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) ler Vertical height diff. between O/L Drain hose max lift height d breaker size d rotor ampere) ng wires Size x	Gas line ligth J and I/U	m m m m A	Rubber sleeve(for fan motor) - (Option) Wired: RC-EX3A, RC-E5 Thermostat RUN: Green, TIMER: Yellow, HI Overload protect Frost protect Internal thermostat ft discharge tempe I/U \(\phi \) 9.52 (3/8") Pipe \(\phi \) 9.5 \(\phi \) 15.88 (5/8") Pipe \(\phi \) 15. Flare piping - Necessary (both Min.3, Max.50 (Outdoor unit is higher) Hose connectable with VP16 - \(\phi \) 1.6mm x3 cores + earth cable /	20(Crank case heater) , RCH-E3 Interface kit: SC-BIKN2-E by electronics POWER: Green, 3D AUTO: Green tion for fan motor ion thermostat or fan motor Abnormal erature protection 2 (3/8")x0.8 O/U \(\phi \) 9.52 (3/8") 88(5/8")x1.0 \(\phi \) 15.88 (5/8") Flare piping — Liquid & Gas lines) Max.100 Max.15 (Outdoor unit is lower) Hole size \(\phi \) 20 x 3 pcs — 5.00 / Termainal block (Screw fixing type)		

The	pipe	length	is	7.5m.

Item	Indoor air temperature		Outdoor air temperature		Standards
Operation	DB	WB	DB	WB	Standards
Cooling	27°C	19°C	35°C	24°C	ISO5151-T1
Heating	20°C	_	7°C	6°C	ISO5151-H1

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.(3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.(4) Select the breaker size according to the own national standard.
- (5) The operation data indicate when the air-conditioner is operated at 400V 50Hz or 380V 60Hz.

(b) Twin type

Item			Model		NXWPZSX
				Indoor unit SRK50ZSX-W (2 units) Outdoor unit FDC100VNX-W	
Power source				1 Phase, 220 - 240	V 50Hz / 220V 60Hz
	Nominal cooling capacity (ra	ange)	kW		.) - 11.2(Max.)]
	Nominal heating capacity (ra	ange)	kW	11.2 [2.7(Min	.) - 12.5(Max.)]
	Power consumption	Cooling		2.	47
	Power consumption	Heating	kW	2.	60
	Max power consumption			7.	10
		Cooling		11.0	/ 11.5
	Running current	Heating	- A	11.4	/ 11.9
	Inrush current, max current				25
Operation	,	Cooling			98
data Power factor		Heating	- %		99
	EER	Cooling			05
	COP	Heating			31
	001	Cooling		59	
	Sound power level		_	62	- 67
		Heating	_		
	Sound pressure level	Cooling	dB(A)	Hi: 44 Me: 39 Lo: 31 ULo: 22	53
		Heating		Hi: 46 Me: 41 Lo: 33 ULo: 23	51
	Silent mode	Cooling	4	_	49 /48(Normal/Silent)
	sound pressure level	Heating			48 /48(Normal/Silent)
Exterior dimen	nsions (Height x Width x Depth	1)	mm	305 × 920 × 220	1300×970×370
Exterior appea				Fine snow	Stucco white
(Munsell color))			(8.0Y9.3/0.1) near equivalent	(4.2Y7.5/1.1) near equivalent
(RAL color)				(RAL 9003) near equivalent	(RAL 7044) near equivalent
Net weight			kg	13	97
Compressor ty	ype & Q'ty			-	RMT5134SWP3 x 1
Compressor m	notor (Starting method)		kW	_	Direct line start
Refrigerant oil	(Amount, type)		L	_	0.9 (M-MB75)
Refrigerant (T	ype, amount, pre-charge lengt	th)	kg	R32 4.0 in outdoor unit (Incl. th	e amount for the piping of 30m)
Heat exchange		/	1.9	Louver fins & inner grooved tubing	M shape fin & inner grooved tubing
Refrigerant co				, ,	pansion valve
Fan type & Q't				Tangential fan x 1	Propeller fan ×2
	arting method)		W	42x1 < Direct line start >	86x2 < Direct line start >
all motor (Sta	arting metriou)	Cooling	VV	Hi: 14.3 Me: 12.4 Lo: 7.8 ULo: 5.4	80X2 < Direct line start >
Air flow			m³/min		100
		Heating		Hi: 17.3 Me: 14.3 Lo: 9.8 ULo: 6.2	
	rnal static pressure		Pa	0	0
Outside air int	· · · · · · · · · · · · · · · · · · ·			Not possible	_
Air filter, Qualit	<u> </u>			Polypropylene net (Washable) x 2	-
Shock & vibrat	tion absorber			Rubber sleeve(for fan motor)	Rubber sleeve(for fan motor & compressor
Electric heater	r		W	-	20(Crank case heater)
	Remote control			(Option) Wired: RC-EX3A, RC-E5,	, RCH-E3 Interface kit : SC-BIKN2-E
Operation	Room temperature control			Thermostat b	by electronics
control	Operation display			RUN: Green, TIMER	R: Yellow, ECO: Blue
				Overload protection for fan motor Frost protection thermostat	
Safety equipm	ients			Internal thermostat fo	
					rature protection
	Refrigerant piping size	Liquid line	mm	I/U φ 6.35 (1/4") ② φ 9.52 (3/8")x0.8	① φ 9.52 (3/8")x0.8 O/U φ 9.52 (3/8")
	(O.D)	Gas line	111111	φ 12.7 (1/2") ② φ 12.7(1/2")x0.8	① ϕ 15.88(5/8")x1.0 ϕ 15.88 (5/8")
	Connecting method			Flare piping	Flare piping
nstallation	Attached length of piping		m	_	_
data	Insulation for piping			Necessarv (both I	Liquid & Gas lines)
	Refrigerant line (one way) le	ngth	m		Max.100
	Vertical height diff. between O/		m	Max.50 (Outdoor unit is higher)	Max.15 (Outdoor unit is lower)
Drain hose			Hose connectable with VP16	Hole size ϕ 20 x 3 pcs	
Orain pump, m			mm	— —	— Hole size φ zo x 3 pcs
	d breaker size		A		
· · · · · · · · · · · · · · · · · · ·	d rotor ampere)		A		5.0
nterconnectin	ng wires Size x	Core number			Termainal block (Screw fixing type)
IP number				IPX0	IP24
Standard acce	essories			Mounting kit, Clean filter	_
Option parts				-	
					· · · · · · · · · · · · · · · · · · ·

The	pipe	length	is	7.5m.

Ite	em Indoor air	temperature	Outdoor air	temperature	Standards
Operation	DB	WB	DB	WB	Stariuarus
Cooling	27°C	19°C	35°C	24°C	ISO5151-T1
Heating	20°C	_	7°C	6°C	ISO5151-H1

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.
- (3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
- (4) Select the breaker size according to the own national standard.
- (5) The operation data indicate when the air-conditioner is operated at 230V 50Hz or 220V 60Hz.
- (6) Indoor unit specifications for one unit. Capacity and operation data is two indoor units are combined and run together. (7) Branching pipe set "DIS-WA1"×1(Option). ①: Pipe of O/U-Branch, ②: Pipe of Branch-I/U

Nominal cooling capacity (range) KW				Model	SRK100V	SXWPZSX			
Nominal cooling capacity (range)	Item				Indoor unit SRK50ZSX-W (2 units)	Outdoor unit FDC100VSX-W			
Nominal heating capacity (sangle)	Power source				3 Phase, 380 - 415	V 50Hz / 380V 60Hz			
Power consumption		Nominal cooling capacity (ra	nge)	kW	10.0 [3.5(Min	.) - 11.2(Max.)]			
Power consumption Gooling Heating Logoling Running current Gooling Heating A 4.7 / 4.6 Heating A 4.7 / 4.7 Heating A 4.7 / 4.6 Heating BS BS BS BS BS BS BS B		Nominal heating capacity (range)		kW					
Fower consumption			<u> </u>		- '	· · · · · · · · · · · · · · · · · · ·			
Max power consumption Cooling Heating A 4.2 / 4.4 4.7 / 4.6		Power consumption		kW		·			
Running current		Max power consumption	1.1049						
Running current Heating A 4.4 / 4.6		Wax power consumption	Cooling	+	-				
Intrash current Power factor Cooling Power factor Cooling Heating Size Cooling Size Cooling Size Cooling Size Size Cooling Size S		Running current		⊢ ,					
			Heating	_ A					
Power factor		Inrush current, max current	1						
Reating	Operation	' Power factor		- %					
COP	data			1		-			
Sound pressure level Heating Sound pressure level Cooling Heating Sound pressure level Heating Sound pressure level Heating Sound pressure level Heating Heating Sound pressure level Sound pressure level Heating Sound pressure level So			Cooling						
Sound pressure level		COP	Heating		4.	31			
Heating Cooling Heating Sound pressure level Cooling Heating Silent mode Cooling Silent mode Sound pressure level Heating Heating Heating Silent mode Sound pressure level Heating Heating Heating Heating Heating Heating Heating Alphomenal/Silent) Alphomena		0	Cooling		59	0.7			
Sound pressure level Heating GE(A) Hit. 46 Mer. 41 Lo. 33 ULo. 23 51 Med (Ap) Medical Sound pressure level Heating Medical Sound pressure level Medical Sound pressure Med		Sound power level	Heating		62	67			
Sound pressure level Heating GE(A) Hit. 46 Mer. 41 Lo. 33 ULo. 23 51 Med (Ap) Medical Sound pressure level Heating Medical Sound pressure level Medical Sound pressure Med				7	Hi: 44 Me: 39 Lo: 31 ULo: 22	53			
Silent mode Sound pressure level Heating - 48 /48 (Normal/Silent) - 48 /48 (Normal/Silent) - 48 /48 (Normal/Silent) - 48 /48 (Normal/Silent) - - 48 /48 (Normal/Silent) - - - - - - - - -		Sound pressure level		dB(A)					
Sound pressure level Heating		Cilant mad-		-	155 25. 66 626. 26	-			
Attention dimensions (Height x Width x Depth)				-	_				
Stacco white Stacco white Stacco white Stacco white (4.277.571.1) near equivalent	Total of the Prince of the Pri	<u> </u>		-	005 000 000	`			
(8.079.3/0.1) near equivalent (RAL 7044) near)	mm					
March Marc	(Munsell color				(8.0Y9.3/0.1) near equivalent	(4.2Y7.5/1.1) near equivalent			
Compressor type & City	,								
Sempressor motor (Starting method) KW	Net weight			kg	13	99			
Refrigerant oil (Amount, type)	Compressor ty	pe & Q'ty			_	RMT5134SWP4 x 1			
refrigerant (Type, amount, pre-charge length) kg R32 4.0 in outdoor unit (Incl. the amount for the piping of 30m) leaft exchanger but the amount for the piping of 30m) with shape fin & inner grooved tubing ferigerant control an type & O'ty Inner grooved tubing and type in a set of the piping of 30m) with an appeal to an anotor (Starting method) W 42x1 < Direct line start > R6x2 <	Compressor n	notor (Starting method)		kW	_	Direct line start			
refrigerant (Type, amount, pre-charge length) kg R32 4.0 in outdoor unit (Incl. the amount for the piping of 30m) leaft exchanger but the amount for the piping of 30m) with shape fin & inner grooved tubing ferigerant control an type & O'ty Inner grooved tubing and type in a set of the piping of 30m) with an appeal to an anotor (Starting method) W 42x1 < Direct line start > R6x2 <	<u> </u>			1	_	0.9 (M-MB75)			
Leat exchanger Louver fins & inner grooved tubing Electronic expansion valve Fropertion of Convertion valve Electronic expansion valve Fropertion of Convertion valve Electronic expansion valve Fropertion of Convertion valve Electronic expansion valve Froperti			b)		P22 4 0 in outdoor unit (Incl. th	. ,			
Electronic expansion valve	0 (,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, 	1)	, kg	`				
Tangential fan x 1				+					
an motor (Starting method) Cooling Heating Heating Heating His 14.3 Mei: 12.4 Lo: 7.8 ULo: 5.4 100 Figure Heating Heating Heating His 14.3 Mei: 12.4 Lo: 7.8 ULo: 6.2 100 Figure Heating Heating His 17.3 Mei: 14.3 Lo: 7.8 ULo: 6.2 100 Figure Heating Heating His 17.3 Mei: 14.3 Lo: 9.8 ULo: 6.2 100 Figure Heating Pa				-					
if flow Cooling Heating Hi: 14.3 Me: 12.4 Lo: 7.8 ULo: 5.4 100		<u> </u>			-	·			
Heating Pa	Fan motor (Sta	arting method)		W	42x1 < Direct line start >	86x2 < Direct line start >			
Heating Heating Heit 17.3 Me: 14.3 Lo: 9.8 U.b.: 6.2 vailable external static pressure Pa	Air flour		Cooling	m³/min	Hi: 14.3 Me: 12.4 Lo: 7.8 ULo: 5.4	100			
Note	All HOW		Heating	7 111 / 1111111	Hi: 17.3 Me: 14.3 Lo: 9.8 ULo: 6.2	100			
ir filter, Quality / Quantity	Available exte	rnal static pressure	,	Pa	0	0			
ir filter, Quality / Quantity	Outside air int	ake			Not possible	_			
Remote control Rubber sleeve(for fan motor) Rubber sleeve(for fan motor & compress lectric heater W				1	·	_			
Remote control Remo		<u> </u>		+		Dubbar sloavo(for fan motor 8 compresse			
Remote control Room temperature control Room t				10/	Trubber sieeve(ioriairinotor)	` .			
Room temperature control Room temperature control Run: Green, TIMER: Yellow, ECO: Blue	_iectric rieater	1		VV	(Option) Wind - DO EVOA DO ES				
Operation display Age of the properation of the pr	Operation								
Refrigerant piping size	control	•				.*			
Frost protection thermostat Internal thermostat for fan motor Abnormal discharge temperature protection Refrigerant piping size		Operation display							
(O.D) Gas line φ 12.7 (1/2") ② φ 12.7 (1/2") x0.8 ① φ 15.88(5/8")x1.0 φ 15.88 (5/8") Connecting method Flare piping Flare piping Attached length of piping Mecessary (both Liquid & Gas lines) Refrigerant line (one way) length m Max.50 (Outdoor unit is higher) Max.15 (Outdoor unit is lower) Drain hose Hose connectable with VP16 Hole size φ 20 x 3 pcs Prain pump, max lift height m Max.50 (Outdoor unit is higher) Max.15 (Outdoor unit is lower) Outdoor unit is higher Max.15 (Outdoor unit is higher Max.15 (Outdoor unit is lower) Outdoor unit is higher Max.15 (Outdoor unit is highe	Safety equipm	nents			Frost protecti Internal thermostat fo	on thermostat or fan motor Abnormal orature protection			
Connecting method Attached length of piping m — — — — — — — — — — — — — — — — — —				mm	. , , - , , , ,	<u> </u>			
Attached length of piping m — Necessary (both Liquid & Gas lines) Refrigerant line (one way) length m Max.50 (Outdoor unit is higher) Max.15 (Outdoor unit is lower) Drain hose Hose connectable with VP16 Hole size \$\phi\$ 20 x 3 pcs Vertical height diff. between O/U and I/U m Max.50 (Outdoor unit is higher) Max.15 (Outdoor unit is lower) Drain hose Hose connectable with VP16 Hole size \$\phi\$ 20 x 3 pcs Vertical height mm — — — — — — — — — — — — — — — — — —		Connecting method			. , , - , , ,				
Insulation for piping Refrigerant line (one way) length Wertical height diff. between O/U and I/U Drain hose Hose connectable with VP16 Recommended breaker size R.A. (Locked rotor ampere) R.A. (Locked rotor am	nstallation			m	_	11 0			
Refrigerant line (one way) length m Min.3 , Max.100 Vertical height diff. between O/U and I/U m Max.50 (Outdoor unit is higher) Max.15 (Outdoor unit is lower) Drain hose Hose connectable with VP16 Hole size φ 20 x 3 pcs Prain pump, max lift height mm – — Recommended breaker size A — R.A. (Locked rotor ampere) A 5.0 Interconnecting wires Size x Core number φ 1.6mm x3 cores + earth cable / Termainal block (Screw fixing type) P number Hose connectable with VP16 Hole size φ 20 x 3 pcs A —	data	0 11 0		 '''	Necessary (both	ļ.			
Vertical height diff. between O/U and I/U m Max.50 (Outdoor unit is higher) Max.15 (Outdoor unit is lower) Drain hose Hose connectable with VP16 Hole size φ 20 x 3 pcs Brain pump, max lift height mm — Becommended breaker size A — Brain Pump, max lift height A — Brain Pump, max lift		1	nath		3 (
Drain hose Hose connectable with VP16 Hole size φ 20 x 3 pcs Prain pump, max lift height mm — Recommended breaker size A — R.A. (Locked rotor ampere) A 5.0 Interconnecting wires Size x Core number φ 1.6mm x3 cores + earth cable / Termainal block (Screw fixing type) P number IPX0 IP24 Itandard accessories Mounting kit, Clean filter —									
rain pump, max lift height mm — — ——————————————————————————————			and I/U	m	, ,	` ` ` `			
A		<u> </u>			Hose connectable with VP16	Hole size φ 20 x 3 pcs			
A 5.0 nterconnecting wires Size x Core number φ 1.6mm x3 cores + earth cable / Termainal block (Screw fixing type) P number IPX0 IP24 tandard accessories Mounting kit, Clean filter —	1 17				_	_			
Anterconnecting wires Size x Core number φ 1.6mm x3 cores + earth cable / Termainal block (Screw fixing type) P number IPX0 IP24 standard accessories Mounting kit, Clean filter —	Recommende	d breaker size		Α					
P number IPX0 IP24 tandard accessories Mounting kit, Clean filter —	.R.A. (Locked	d rotor ampere)		Α		5.0			
P number IPX0 IP24 tandard accessories Mounting kit, Clean filter —	•	· · · · · · · · · · · · · · · · · · ·	Core number	1	φ 1.6mm x3 cores + earth cable /	Termainal block (Screw fixing type)			
tandard accessories Mounting kit, Clean filter –		15,20 %		+					
		esories			-				
puori parts –		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		+		_			
	option parts				<u> </u>	-			

Item	Indoor air temperature		Outdoor air	temperature	Standards
Operation	DB	WB	DB	WB	Standards
Cooling	27°C	19°C	35°C	24°C	ISO5151-T1
Heating	20°C	_	7°C	6°C	ISO5151-H1

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.
- (3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
- (4) Select the breaker size according to the own national standard.
- (5) The operation data indicate when the air-conditioner is operated at 230V 50Hz or 220V 60Hz.
- (6) Indoor unit specifications for one unit. Capacity and operation data is two indoor units are combined and run together. (7) Branching pipe set "DIS-WA1"×1(Option). ①: Pipe of O/U-Branch, ②: Pipe of Branch-I/U

Power source			Model	SRK125V	NXWPZSX			
Power source				Indoor unit SRK60ZSX-W (2 units)	Outdoor unit FDC125VNX-W			
					V 50Hz / 220V 60Hz			
	Nominal cooling capacity (ra	inge)	kW	<u> </u>				
	Nominal heating capacity (ra	<u> </u>	kW	12.5 [3.5(Min.) - 14.0(Max.)] 14.0 [2.7(Min.) - 17.0(Max.)]				
	Trominal fleating capacity (re	Cooling	KVV	* '	.43			
	Power consumption		1414/					
		Heating	kW		.42			
	Max power consumption				.10			
	Running current	Cooling	_		/ 15.7			
		Heating	A	15.0	/ 15.7			
	Inrush current, max current			5,	27			
Operation	Danier factor	Cooling	0/	9	99			
data	Power factor	Heating	- %	(99			
	EER	Cooling		3.	.64			
	COP	Heating			.09			
		Cooling		62	68			
	Sound power level	Heating	-	63	70			
			_					
	Sound pressure level	Cooling	dB(A)	Hi: 46 Me: 41 Lo: 33 ULo: 22	53			
		Heating	⊣ `′	Hi: 46 Me: 42 Lo: 34 ULo: 23	54			
	Silent mode	Cooling		_	50 /49(Normal/Silent)			
	sound pressure level	Heating			50 /48(Normal/Silent)			
Exterior dimens	sions (Height x Width x Depth)	mm	305 × 920 × 220	1300×970×370			
Exterior appear	ırance			Fine snow	Stucco white			
(Munsell color))			(8.0Y9.3/0.1) near equivalent	(4.2Y7.5/1.1) near equivalent			
(RAL color)				(RAL 9003) near equivalent	(RAL 7044) near equivalent			
Net weight			kg	13	97			
Compressor ty	ne & Ω'tv		— —	_	RMT5134SWP3 x 1			
	notor (Starting method)		kW	_	Direct line start			
· ·	(Amount, type)		L		0.9 (M-MB75)			
		I-V	_		` ′			
0 ()	pe, amount, pre-charge lengt	n)	kg		ne amount for the piping of 30m)			
Heat exchange				Louver fins & inner grooved tubing	M shape fin & inner grooved tubing			
Refrigerant con					pansion valve			
Fan type & Q'ty	У			Tangential fan x 1	Propeller fan ×2			
Fan motor (Sta	arting method)		W	42x1 < Direct line start >	86x2 < Direct line start >			
A to diam.		Cooling	37	Hi: 16.3 Me: 13.4 Lo: 8.9 ULo: 5.4	100			
Air flow		Heating	m³/min	Hi: 17.8 Me: 13.7 Lo: 10.9 ULo: 6.2	100			
Available exter	nal static pressure		Pa	0	0			
Outside air inta	· · · · · · · · · · · · · · · · · · ·		1 1	Not possible	_			
Air filter, Quality	· · · · · · · · · · · · · · · · · · ·			Polypropylene net (Washable) x 2				
	· · · · · · · · · · · · · · · · · · ·		_	* * * * * * * * * * * * * * * * * * * *	Dubban alamater for season and a construction			
Shock & vibrati			147	Rubber sleeve(for fan motor)	Rubber sleeve(for fan motor & compresso			
Electric heater	· · · · · · · · · · · · · · · · · · ·		W		20(Crank case heater)			
Operation	Remote control				, RCH-E3 Interface kit : SC-BIKN2-E			
control	Room temperature control			Thermostat I	by electronics			
20.11.01	Operation display			RUN: Green, TIME	R: Yellow, ECO: Blue			
				Overload protect	tion for fan motor			
	ents				on thermostat			
Safety equipme					or fan motor Abnormal			
Safety equipme	one				erature protection			
Safety equipme				<u> </u>	· ·			
Safety equipme	Refrigerant piping size	Liquid line	mm	I/U φ 6.35 (1/4") ② φ 9.52 (3/8")x0.8	① φ 9.52 (3/8")x0.8 O/U φ 9.52 (3/8			
Safety equipme	Refrigerant piping size (O.D)	Liquid line Gas line	mm	I/U φ 6.35 (1/4") ② φ 9.52 (3/8")x0.8 φ 12.7 (1/2") ② φ 12.7(1/2")x0.8	① φ 9.52 (3/8")x0.8 O/U φ 9.52 (3/8 ① φ 15.88(5/8")x1.0 φ 15.88 (5/8")			
Safety equipme	Refrigerant piping size (O.D) Connecting method		— mm	I/U φ 6.35 (1/4") ② φ 9.52 (3/8")x0.8	① φ 9.52 (3/8")x0.8 O/U φ 9.52 (3/8			
nstallation	Refrigerant piping size (O.D)		mm m	I/U φ 6.35 (1/4") ② φ 9.52 (3/8")x0.8 φ 12.7 (1/2") ② φ 12.7(1/2")x0.8	① φ 9.52 (3/8")x0.8 O/U φ 9.52 (3/8") ① φ 15.88(5/8")x1.0 φ 15.88 (5/8")			
nstallation	Refrigerant piping size (O.D) Connecting method			I/U φ 6.35 (1/4")	① φ 9.52 (3/8")x0.8 O/U φ 9.52 (3/8 ① φ 15.88(5/8")x1.0 φ 15.88 (5/8") Flare piping			
nstallation	Refrigerant piping size (O.D) Connecting method Attached length of piping	Gas line		I/U φ 6.35 (1/4")	① φ 9.52 (3/8")x0.8 O/U φ 9.52 (3/8") ① φ 15.88(5/8")x1.0 φ 15.88 (5/8") Flare piping			
nstallation	Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) ler	Gas line	m	\(\begin{align*} \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	① φ 9.52 (3/8")x0.8 O/U φ 9.52 (3/8 ① φ 15.88(5/8")x1.0 φ 15.88 (5/8") Flare piping Liquid & Gas lines) Max.100			
nstallation	Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) ler Vertical height diff. between O/I	Gas line	m m	/U φ 6.35 (1/4") ② φ 9.52 (3/8")x0.8 φ 12.7 (1/2") ② φ 12.7 (1/2")x0.8 Flare piping - Necessary (both Min.3 , Max.50 (Outdoor unit is higher)	① φ 9.52 (3/8")x0.8 O/U φ 9.52 (3/8") ① φ 15.88(5/8")x1.0 φ 15.88 (5/8") Flare piping Liquid & Gas lines) Max.100 Max.15 (Outdoor unit is lower)			
nstallation data	Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) ler Vertical height diff. between O/D Drain hose	Gas line	m m m	\(\begin{align*} \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	① φ 9.52 (3/8")x0.8 O/U φ 9.52 (3/8") ① φ 15.88(5/8")x1.0 φ 15.88 (5/8") Flare piping Liquid & Gas lines) Max.100			
nstallation data Orain pump, m	Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) ler Vertical height diff. between O/D Drain hose	Gas line	m m m	\(\begin{align*} \phi \ 6.35 \ (1/4") & \hat{2} \ \phi \ 9.52 \ (3/8") x 0.8 \\	① φ 9.52 (3/8")x0.8 O/U φ 9.52 (3/8") ① φ 15.88(5/8")x1.0 φ 15.88 (5/8") Flare piping — Liquid & Gas lines) Max.100 Max.15 (Outdoor unit is lower) Hole size φ 20 x 3 pcs —			
nstallation data Drain pump, ma Recommended	Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) ler Vertical height diff. between O/D Drain hose max lift height d breaker size	Gas line	m m m A	I/U φ 6.35 (1/4")	① φ 9.52 (3/8")x0.8 O/U φ 9.52 (3/8") ① φ 15.88(5/8")x1.0 φ 15.88 (5/8") Flare piping — Liquid & Gas lines) Max.100 Max.15 (Outdoor unit is lower) Hole size φ 20 x 3 pcs			
nstallation data Drain pump, ma Recommended R.A. (Locked	Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) ler Vertical height diff. between O/D Drain hose nax lift height d breaker size	Gas line ngth J and I/U	m m m	I/U φ 6.35 (1/4")	① φ 9.52 (3/8")x0.8 O/U φ 9.52 (3/8") ① φ 15.88(5/8")x1.0 φ 15.88 (5/8") Flare piping — Liquid & Gas lines) Max.100 Max.15 (Outdoor unit is lower) Hole size φ 20 x 3 pcs — 5.0			
nstallation data Drain pump, m Recommended L.R.A. (Locked interconnecting	Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) ler Vertical height diff. between O/D Drain hose nax lift height d breaker size	Gas line	m m m A	I/U φ 6.35 (1/4")	① φ 9.52 (3/8")x0.8 O/U φ 9.52 (3/8") ① φ 15.88(5/8")x1.0 φ 15.88 (5/8") Flare piping — Liquid & Gas lines) Max.100 Max.15 (Outdoor unit is lower) Hole size φ 20 x 3 pcs			
Installation data Drain pump, m Recommended L.R.A. (Locked Interconnecting	Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) ler Vertical height diff. between O/D Drain hose nax lift height d breaker size	Gas line ngth J and I/U	m m m A	I/U φ 6.35 (1/4")	① φ 9.52 (3/8")x0.8 O/U φ 9.52 (3/8 ① φ 15.88(5/8")x1.0 φ 15.88 (5/8") Flare piping — Liquid & Gas lines) Max.100 Max.15 (Outdoor unit is lower) Hole size φ 20 x 3 pcs — 5.0			
Safety equipments Installation data Drain pump, managements Recommended L.R.A. (Locked Interconnecting IP number Standard access	Refrigerant piping size (O.D) Connecting method Attached length of piping Insulation for piping Refrigerant line (one way) let Vertical height diff. between O/I Drain hose lax lift height d breaker size I rotor ampere) g wires Size x	Gas line ngth J and I/U	m m m A	I/U φ 6.35 (1/4")	① φ 9.52 (3/8")x0.8 O/U φ 9.52 (3/8 ① φ 15.88(5/8")x1.0 φ 15.88 (5/8") Flare piping Liquid & Gas lines) Max.100 Max.15 (Outdoor unit is lower) Hole size φ 20 x 3 pcs			

Item	Indoor air temperature		Outdoor air	temperature	Standards
Operation	DB	WB	DB	WB	Standards
Cooling	27°C	19°C	35°C	24°C	ISO5151-T1
Heating	20°C	_	7°C	6°C	ISO5151-H1

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.
- (3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
- (4) Select the breaker size according to the own national standard.
- (5) The operation data indicate when the air-conditioner is operated at 230V 50Hz or 220V 60Hz.
- (6) Indoor unit specifications for one unit. Capacity and operation data is two indoor units are combined and run together. (7) Branching pipe set "DIS-WA1"×1(Option). ①: Pipe of O/U-Branch, ②: Pipe of Branch-I/U

Item			Model		SXWPZSX			
Item				Indoor unit SRK60ZSX-W (2 units)	Outdoor unit FDC125VSX-W			
Power source				3 Phase, 380 - 415V 50Hz / 380V 60Hz				
	Nominal cooling capacity (ra		kW	* `	.) - 14.0(Max.)]			
	Nominal heating capacity (ra	 	kW		.) - 18.0(Max.)]			
	Power consumption	Cooling		3.43				
	T GWGI GGIIGGIIIPIIGIT	Heating	kW	3.	42			
	Max power consumption			8.	90			
	Disease as surrent	Cooling		5.5 / 5.8				
	Running current	Heating	A	5.6	/ 5.9			
	Inrush current, max current		7	5,	14			
Operation	Cooling			g	90			
data	Power factor	Heating	- %	8	38			
	EER Cooling		1		64			
	COP	Heating	-		09			
	331	Cooling	+	62	68			
	Sound power level	Heating	\dashv	63	70			
			_		53			
	Sound pressure level	Cooling	dB(A)	Hi: 46 Me: 41 Lo: 33 ULo: 22				
		Heating	_	Hi: 46 Me: 42 Lo: 34 ULo: 23	54			
	Silent mode	Cooling	_	_	50 /49(Normal/Silent)			
	sound pressure level	Heating			50 /48(Normal/Silent)			
Exterior dimer	nsions (Height x Width x Depth	1)	mm	305 × 920 × 220	1300×970×370			
Exterior appea (Munsell color				Fine snow (8.0Y9.3/0.1) near equivalent	Stucco white (4.2Y7.5/1.1) near equivalent			
(RAL color)				(RAL 9003) near equivalent	(RAL 7044) near equivalent			
Net weight			kg	13	99			
Compressor t	type & Q'ty			_	RMT5134SWP4 x 1			
Compressor r	notor (Starting method)		kW	_	Direct line start			
<u> </u>	I (Amount, type)		L	_	0.9 (M-MB75)			
	Type, amount, pre-charge leng	:h)	kg	B32 4 0 in outdoor unit (Incl. th	e amount for the piping of 30m)			
Heat exchanger		1.19	Louver fins & inner grooved tubing	M shape fin & inner grooved tubing				
Refrigerant control		+		pansion valve				
				Tangential fan x 1	Propeller fan ×2			
Fan type & Q'ty Fan motor (Starting method)		W	-	86x2 < Direct line start >				
ran motor (St	larting method)	0 15	VV	42x1 < Direct line start >	86X2 < Direct line start >			
Air flow		Cooling Heating	m³/min	Hi: 16.3 Me: 13.4 Lo: 8.9 ULo: 5.4 Hi: 17.8 Me: 13.7 Lo: 10.9 ULo: 6.2	100			
Available exte	ernal static pressure	Trodding	Pa	0	0			
Outside air int	<u>'</u>		Ι α	Not possible	_			
Air filter, Quali			+	Polypropylene net (Washable) x 2	_			
	· · · · · · · · · · · · · · · · · · ·				Rubber sleeve(for fan motor & compressor			
	ation absorber		14/					
Electric heater			W	_	20(Crank case heater)			
Operation	Remote control			(Option) Wired: RC-EX3A, RC-E5, RCH-E3 Interface kit: SC-BIKN				
control	Room temperature control			Thermostat by electronics				
	Operation display			RUN: Green, TIMER	R: Yellow, ECO: Blue			
Safety equipm	nents			Overload protection for fan motor Frost protection thermostat Internal thermostat for fan motor Abnormal discharge temperature protection				
	Refrigerant piping size (O.D)	Liquid line Gas line	mm	I/U φ 6.35 (1/4") ② φ 9.52 (3/8")x0.8 φ 12.7 (1/2") ② φ 12.7(1/2")x0.8	① ϕ 9.52 (3/8")x0.8 O/U ϕ 9.52 (3/8") ① ϕ 15.88(5/8")x1.0 ϕ 15.88 (5/8")			
	Connecting method		1	Flare piping	Flare piping			
	Attached length of piping		m					
Installation			+	Necessary (both Liquid & Gas lines)				
Installation data				Min.3 , Max.100				
	Insulation for piping	nath	m		- '			
	Insulation for piping Refrigerant line (one way) le		m	Min.3 ,	Max.100			
	Insulation for piping Refrigerant line (one way) le Vertical height diff. between O/		m m	Min.3 , Max.50 (Outdoor unit is higher)	Max.100 Max.15 (Outdoor unit is lower)			
data	Insulation for piping Refrigerant line (one way) le Vertical height diff. between O/ Drain hose		m	Min.3 ,	Max.100			
data Drain pump, n	Insulation for piping Refrigerant line (one way) le Vertical height diff. between O/ Drain hose max lift height		m	Min.3 , Max.50 (Outdoor unit is higher) Hose connectable with VP16 —	Max.100 Max.15 (Outdoor unit is lower) Hole size φ 20 x 3 pcs -			
Drain pump, n	Insulation for piping Refrigerant line (one way) le Vertical height diff. between O/ Drain hose max lift height ed breaker size		m mm A	Min.3 , Max.50 (Outdoor unit is higher) Hose connectable with VP16 —	Max.100 Max.15 (Outdoor unit is lower) Hole size ϕ 20 x 3 pcs —			
Drain pump, n Recommende L.R.A. (Locket	Insulation for piping Refrigerant line (one way) le Vertical height diff. between O/ Drain hose max lift height ed breaker size d rotor ampere)	U and I/U	m	Min.3 , Max.50 (Outdoor unit is higher) Hose connectable with VP16 —	Max.100 Max.15 (Outdoor unit is lower) Hole size φ 20 x 3 pcs			
Drain pump, n Recommende L.R.A. (Locker Interconnectin	Insulation for piping Refrigerant line (one way) le Vertical height diff. between O/ Drain hose max lift height ed breaker size d rotor ampere)		m mm A	Min.3 , Max.50 (Outdoor unit is higher) Hose connectable with VP16 - 5 φ 1.6mm x3 cores + earth cable /	Max.100 Max.15 (Outdoor unit is lower) Hole size φ 20 x 3 pcs – 5.0 Termainal block (Screw fixing type)			
Drain pump, n Recommende L.R.A. (Locked Interconnectin IP number	Insulation for piping Refrigerant line (one way) le Vertical height diff. between O/ Drain hose max lift height ad breaker size d rotor ampere) ng wires Size x	U and I/U	m mm A	Min.3 , Max.50 (Outdoor unit is higher) Hose connectable with VP16 - 5 φ 1.6mm x3 cores + earth cable / IPX0	Max.100 Max.15 (Outdoor unit is lower) Hole size φ 20 x 3 pcs			
Drain pump, n Recommende L.R.A. (Locker Interconnectin	Insulation for piping Refrigerant line (one way) le Vertical height diff. between O/ Drain hose max lift height ad breaker size d rotor ampere) ng wires Size x	U and I/U	m mm A	Min.3 , Max.50 (Outdoor unit is higher) Hose connectable with VP16 - 5 φ 1.6mm x3 cores + earth cable /	Max.100 Max.15 (Outdoor unit is lower) Hole size φ 20 x 3 pcs - 5.0 Termainal block (Screw fixing type)			

Item	Indoor air temperature		Outdoor air temperature		Standards
Operation	DB	WB	DB	WB	Staridards
Cooling	27°C	19°C	35°C	24°C	ISO5151-T1
Heating	20°C	_	7°C	6°C	ISO5151-H1

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.
- (3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
- (4) Select the breaker size according to the own national standard.
- (5) The operation data indicate when the air-conditioner is operated at 230V 50Hz or 220V 60Hz.
- (6) Indoor unit specifications for one unit. Capacity and operation data is two indoor units are combined and run together. (7) Branching pipe set "DIS-WA1"×1(Option). ①: Pipe of O/U-Branch, ②: Pipe of Branch-I/U

(c) Triple type

lkama			Model		NXWTZSX			
Item Payara a surray				Indoor unit SRK50ZSX-W (3 units) Outdoor unit FDC140VN				
Power source				1 Phase, 220 - 240V 50Hz / 220V 60Hz				
Nominal cooling capaci			kW	14.0 [3.5(Min.) - 16.0(Max.)]				
	Nominal heating capacity (ra	ange)	kW	16.0 [2.7(Min	.) - 18.0(Max.)]			
	Power consumption	Cooling		4.	03			
	1 ower consumption	Heating	kW	4.	04			
	Max power consumption			7.	10			
		Cooling		16.4 / 17.1				
	Running current	Heating	A	16.8 / 17.6				
	Inrush current, max current	1 3			27			
Operation		Cooling			8			
data	Power factor Heating		- %		9			
	EER	Cooling			48			
	COP	Heating	-		96			
	COP							
	Sound power level	Cooling	_	59	69			
		Heating	_	62	71			
	Sound pressure level	Cooling	dB(A)	Hi: 44 Me: 39 Lo: 31 ULo: 22	54			
		Heating		Hi: 46 Me: 41 Lo: 33 ULo: 23	54			
	Silent mode	Cooling		_	50 /49(Normal/Silent)			
	sound pressure level	Heating			51 /48(Normal/Silent)			
Exterior dimen	nsions (Height x Width x Depth	n)	mm	305 × 920 × 220	1300×970×370			
Exterior appea	arance			Fine snow	Stucco white			
(Munsell color))			(8.0Y9.3/0.1) near equivalent	(4.2Y7.5/1.1) near equivalent			
(RAL color)				(RAL 9003) near equivalent	(RAL 7044) near equivalent			
Net weight			kg	13	97			
Compressor ty	ype & Q'ty			_	RMT5134SWP3 x 1			
Compressor m	notor (Starting method)		kW	_	Direct line start			
Refrigerant oil	(Amount, type)		L	_	0.9 (M-MB75)			
	ype, amount, pre-charge leng	th)	kg	R32 4.0 in outdoor unit (Incl. the amount for the piping of 30m)				
Heat exchanger		- is	Louver fins & inner grooved tubing M shape fin & inner grooved tubing					
Refrigerant control				pansion valve				
			Tangential fan x 1	Propeller fan ×2				
Fan type & Q'ty		W	Ÿ	·				
Fan motor (Starting method)		VV	42x1 < Direct line start >	86x2 < Direct line start >				
Air flow		Cooling	m³/min	Hi: 14.3 Me: 12.4 Lo: 7.8 ULo: 5.4	100			
		Heating		Hi: 17.3 Me: 14.3 Lo: 9.8 ULo: 6.2				
	rnal static pressure		Pa	0	0			
Outside air inta				Not possible	_			
Air filter, Qualit	· · · · · · · · · · · · · · · · · · ·			Polypropylene net (Washable) x 2	-			
Shock & vibrat	tion absorber			Rubber sleeve(for fan motor)	Rubber sleeve(for fan motor & compressor			
Electric heater	<u> </u>		W	 20(Crank case heater) 				
o .:	Remote control			(Option) Wired: RC-EX3A, RC-E5,	RCH-E3 Interface kit : SC-BIKN2-E			
Operation control	Room temperature control			Thermostat by electronics				
CONTROL	Operation display			RUN: Green, TIMER: Yellow, ECO: Blue				
Safety equipments			Overload protection for fan motor Frost protection thermostat Internal thermostat for fan motor Abnormal discharge temperature protection					
	Refrigerant piping size	Liquid line		I/U φ 6.35 (1/4") ② φ 9.52 (3/8")x0.8	① φ 9.52 (3/8")x0.8 O/U φ 9.52 (3/8")			
	(O.D)	Gas line	mm	φ 12.7 (1/2") ② φ 12.7(1/2")x0.8	① ϕ 15.88(5/8")x1.0 ϕ 15.88 (5/8")			
	Connecting method			Flare piping	Flare piping			
Installation	Attached length of piping		m		——————————————————————————————————————			
data	Insulation for piping			Necessary (both Liquid & Gas lines)				
	Refrigerant line (one way) length		m	Min.3 , Max.65				
	0 1		_					
	Vertical height diff. between O/U and I/U		m	, ,	Max.15 (Outdoor unit is lower)			
Dunin u	Drain hose		-	Hose connectable with VP16	Hole size φ 20 x 3 pcs			
Drain pump, m			mm	_	_			
Recommende			A	<u> </u>				
L.R.A. (Locked rotor ampere)			Α	5	.0			
L.I I.A. (LOCKEC	Interconnecting wires Size x Core number			φ 1.6mm x3 cores + earth cable / Termainal block (Screw fixing type)				
· · · · · · · · · · · · · · · · · · ·	ig wires Size x	Core number		ψ 1.0mm λο coles + eartif cable /	Termana block (ociew lixing type)			
· · · · · · · · · · · · · · · · · · ·	g wires Size >	Core number		IPX0	IP24			
Interconnectin		Core number						
Interconnectin IP number		Core number		IPX0	IP24			

The	pipe	length	is	7.5m.

Item	Indoor air temperature		Outdoor air temperature		Standards
Operation	DB	WB	DB	WB	Standards
Cooling	27°C	19°C	35°C	24°C	ISO5151-T1
Heating	20°C	_	7°C	6°C	ISO5151-H1

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.
- (3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
- (4) Select the breaker size according to the own national standard.
- (5) The operation data indicate when the air-conditioner is operated at 230V 50Hz or 220V 60Hz.
- (6) Indoor unit specifications for one unit. Capacity and operation data is three indoor units are combined and run together. (7) Branching pipe set "DIS-TA1"×1(Option). ①: Pipe of O/U-Branch, ②: Pipe of Branch-I/U

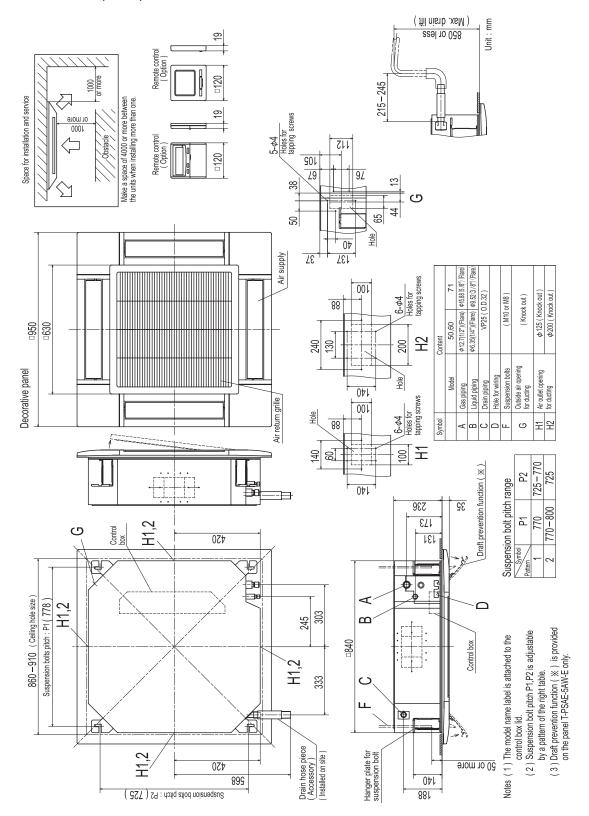
			Model	SRK140\	/SXWTZSX			
Item				Indoor unit SRK50ZSX-W (3 units) Outdoor unit FDC140VSX-				
Power source				3 Phase, 380 - 415V 50Hz / 380V 60Hz				
Nominal cooling capacity (range)		kW	14.0 [3.5(Min.) - 16.0(Max.)]					
	Nominal heating capacity (range)		kW	16.0 [2.7(Mii	n.) - 20.0(Max.)]			
		Cooling		4.03				
	Power consumption	Heating	kW	4	1.04			
	Max power consumption		1	8	3.90			
	·	Cooling			6/6.6			
	Running current	Running current Heating		6.4 / 6.8				
	Inrush current, max current		_ A		, 14			
Operation		Cooling			85			
data	Power factor	Heating	- %		86			
	EER	Cooling			3.48			
	COP	Heating	_		3.96			
		Cooling		59	69			
	Sound power level	Heating	1	62	71			
		Cooling	-	Hi: 44 Me: 39 Lo: 31 ULo: 22	54			
	Sound pressure level	Heating	dB(A)	Hi: 46 Me: 41 Lo: 33 ULo: 23	54			
	Silent mode	Cooling	-	111. 40 W.C. 41 E0. 00 OE0. 20	50 /49(Normal/Silent)			
	sound pressure level	Heating	+	_	51 /48(Normal/Silent)			
Exterior dimo	nsions (Height x Width x Depth)	Tricating	mm	305 × 920 × 220	1300×970×370			
			111111		Stucco white			
Exterior appear				Fine snow (8.0Y9.3/0.1) near equivalent	(4.2Y7.5/1.1) near equivalent			
(RAL color)	'')			(RAL 9003) near equivalent	(RAL 7044) near equivalent			
Net weight			kg	13	99			
Compressor t	type & O'ty		I Ng	_	RMT5134SWP4 x 1			
	motor (Starting method)		kW	_	Direct line start			
	I (Amount, type)		L	_	0.9 (M-MB75)			
)	kg	R32 4.0 in outdoor unit (Incl. the amount for the piping of 30m)				
Refrigerant (Type, amount, pre-charge length)		Ng	Louver fins & inner grooved tubing	M shape fin & inner grooved tubing				
Heat exchanger				xpansion valve				
Refrigerant control			Tangential fan x 1	Propeller fan ×2				
Fan type & Q'ty Fan motor (Starting method)		W	42x1 < Direct line start >	86x2 < Direct line start >				
ran motor (St	tarting method)	Cooling	VV	Hi: 14.3 Me: 12.4 Lo: 7.8 ULo: 5.4	80X2 < Direct line start >			
Air flow			m³/min		100			
Available outo	arnal atatia pragaura	Heating	Pa	Hi: 17.3 Me: 14.3 Lo: 9.8 ULo: 6.2	0			
	ernal static pressure		Fa	•				
Outside air int				Not possible	_			
Air filter, Quali	· · · · · · · · · · · · · · · · · · ·			Polypropylene net (Washable) x 2	Rubber sleeve(for fan motor & compressor			
Electric heate	ation absorber		W	Rubber sleeve(for fan motor) Rubber sleeve(for fan motor & com 20(Crank case heater)				
Electric fleate			VV	(Ontion) Wind - DC FY2A DC FE	,			
Operation	Remote control			(Option) Wired: RC-EX3A, RC-E5, RCH-E3 Interface kit: SC-BIKN2-E Thermostat by electronics				
control	Room temperature control							
	Operation display				R: Yellow, ECO: Blue			
					tion for fan motor ion thermostat			
Safety equipn	nents				or fan motor Abnormal			
				discharge temp	erature protection			
	Refrigerant piping size	Liquid line	mm	I/U φ 6.35 (1/4") ② φ 9.52 (3/8")x0.8	① ϕ 9.52 (3/8")x0.8 O/U ϕ 9.52 (3/8")			
	(O.D)	Gas line	mm	φ 12.7 (1/2") ② φ 12.7(1/2")x0.8	① ϕ 15.88(5/8")x1.0 ϕ 15.88 (5/8")			
	Connecting method			Flare piping	Flare piping			
Installation	Attached length of piping		m					
data	Insulation for piping			Necessary (both Liquid & Gas lines)				
	Refrigerant line (one way) length		m	Min.3 , Max.65				
	Vertical height diff. between O/U and I/U		m	Max.50 (Outdoor unit is higher) Max.15 (Outdoor unit is lower				
	Drain hose			Hose connectable with VP16	Hole size φ 20 x 3 pcs			
Drain pump, r	max lift height		mm	_	_			
	ed breaker size		А	<u> </u>				
L.R.A. (Locke	d rotor ampere)		А		5.0			
Interconnectin		Core number			/ Termainal block (Screw fixing type)			
IP number	<u> </u>			IPX0	IP24			
Standard acco	essories			Mounting kit, Clean filter	_			
Option parts			1	5 , 5 1 1	_			
	ne data are measured at the fo							

Item	Indoor air temperature		Outdoor air temperature		Standards
Operation	DB	WB	DB	WB	Staridards
Cooling	27°C	19°C	35°C	24°C	ISO5151-T1
Heating	20°C	_	7°C	6°C	ISO5151-H1

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.
- (3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
- (4) Select the breaker size according to the own national standard.
- (5) The operation data indicate when the air-conditioner is operated at 400V 50Hz or 380V 60Hz.
- (6) Indoor unit specifications for one unit. Capacity and operation data is three indoor units are combined and run together. (7) Branching pipe set "DIS-TA1"×1(Option). ①: Pipe of O/U-Branch, ②: Pipe of Branch-I/U

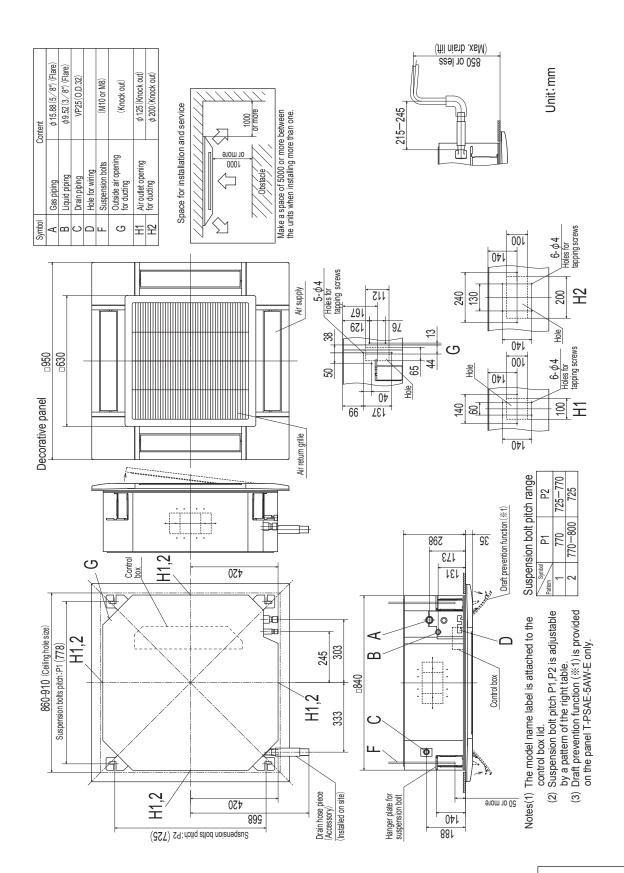
1.2 EXTERIOR DIMENSIONS

- (1) Indoor units
 - (a) Ceiling cassette-4 way type (FDT)
 Models FDT50VH, 60VH, 71VH



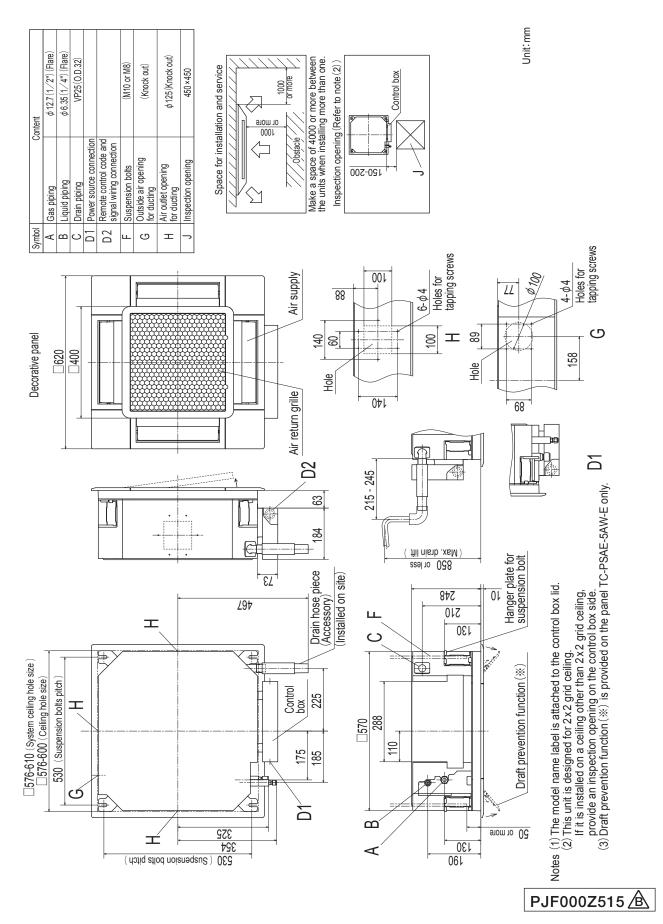
PJF000Z552

Models FDT100VH, 125VH, 140VH

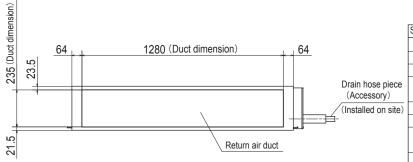


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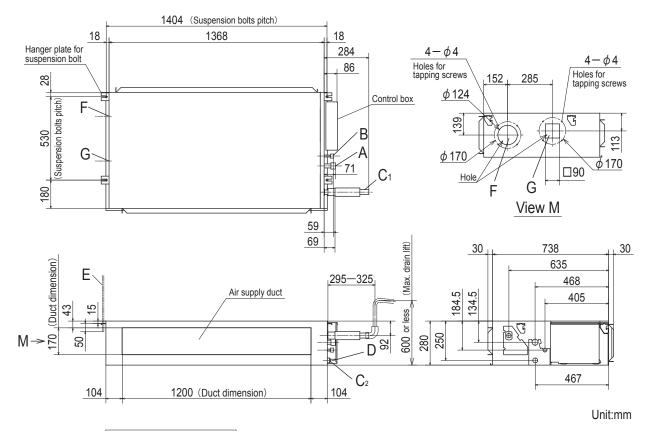
(b) Ceiling cassette-4 way compact type (FDTC) Models FDTC50VH, 60VH



(c) Duct connected-High static pressure type(FDU) Models FDU100VH, 125VH, 140VH

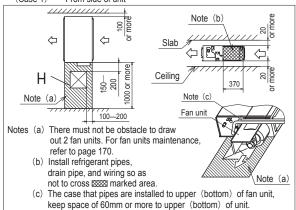


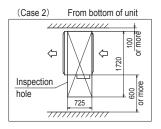
Symbol	Content					
Α	Gas piping	φ 15.88 (5/8") (Flare)				
В	Liquid piping	ϕ 9.52 (3/8") (Flare)				
C ₁	Drain piping	VP25 (O.D.32)				
C ₂	Drain piping (Gravity drainage)	VP20				
D	Hole for wiring					
Е	Suspension bolts	M10				
F	Outside air opening for ducting	(Knock out)				
G	Air outlet opening for ducting	(Knock out)				
Н	Inspection hole	(450×450)				



Space for installation and service

Select either of two cases to keep space for installation and services. (Case 1) From side of unit

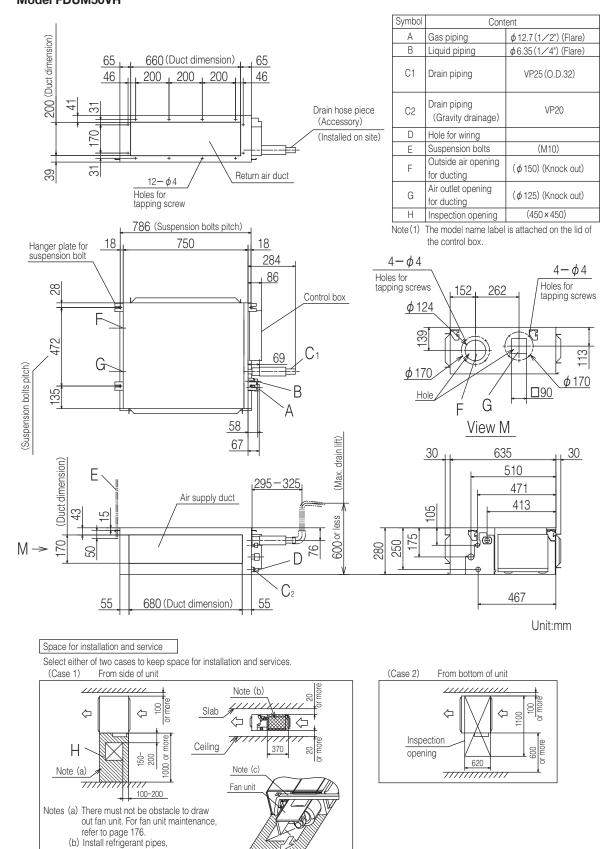




Note (1) The model name label is attached on the lid of the control box.

PJG000Z579

(d) Duct connected-Low / Middle static pressure type (FDUM) Model FDUM50VH



PJG000Z485

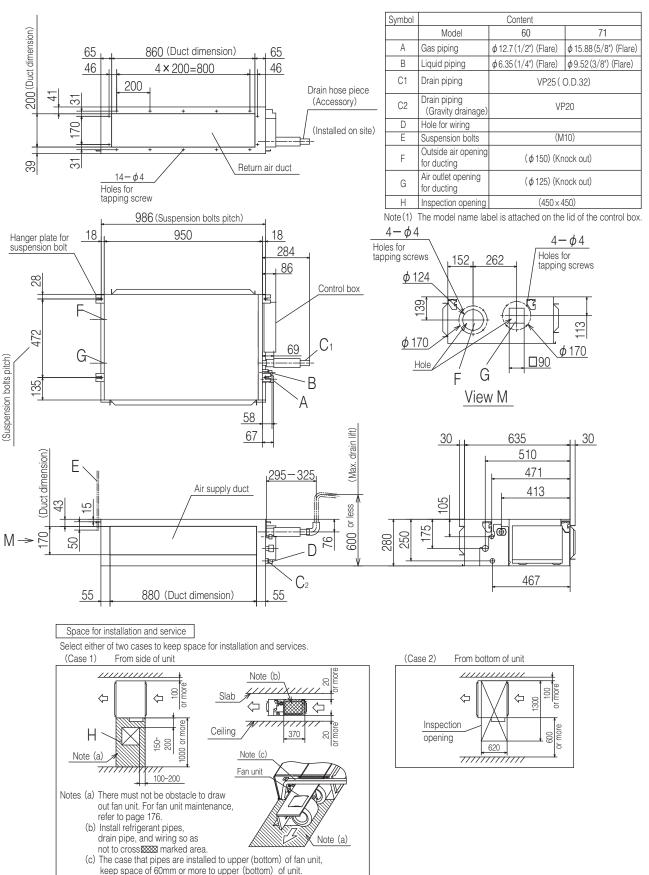
Note (a)

drain pipe, and wiring so as

not to cross marked area

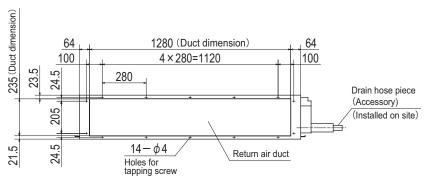
(c) The case that pipes are installed to upper (bottom) of fan unit, keep space of 60mm or more to upper (bottom) of unit.

Models FDUM60VH, 71VH

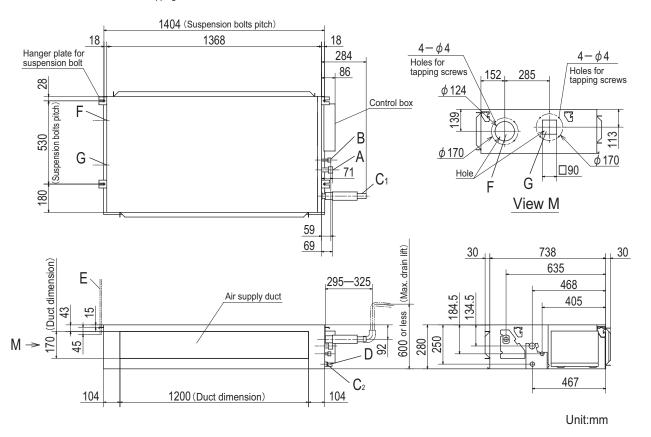


PJG000Z486

Models FDUM100VH, 125VH, 140VH

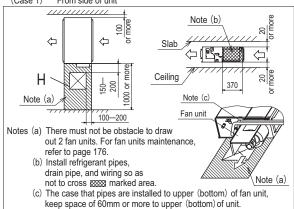


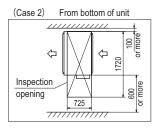
Symbol	Cor	ntent
Α	Gas piping	φ 15.88 (5/8") (Flare)
В	Liquid piping	φ 9.52 (3/8") (Flare)
C ₁	Drain piping	VP25 (O.D.32)
C ₂	Drain piping (Gravity drainage)	VP20
D	Hole for wiring	
Е	Suspension bolts	(M10)
F	Outside air opening for ducting	(φ 150) (Knock out)
G	Air outlet opening for ducting	(φ 125) (Knock out)
Н	Inspection opening	(450×450)



Space for installation and service

Select either of two cases to keep space for installation and services. (Case 1) From side of unit

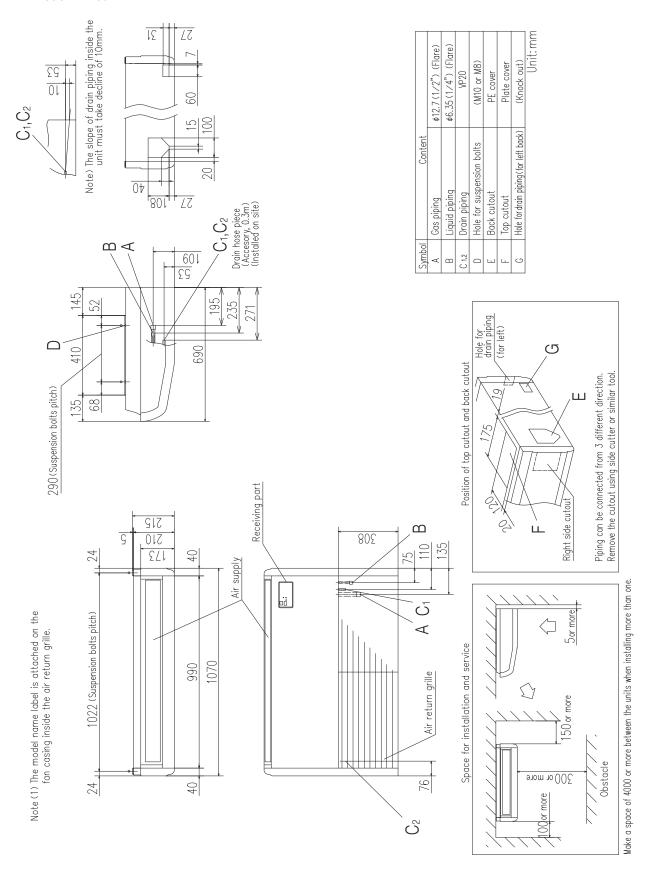




Note (1) The model name label is attached on the lid of the control box.

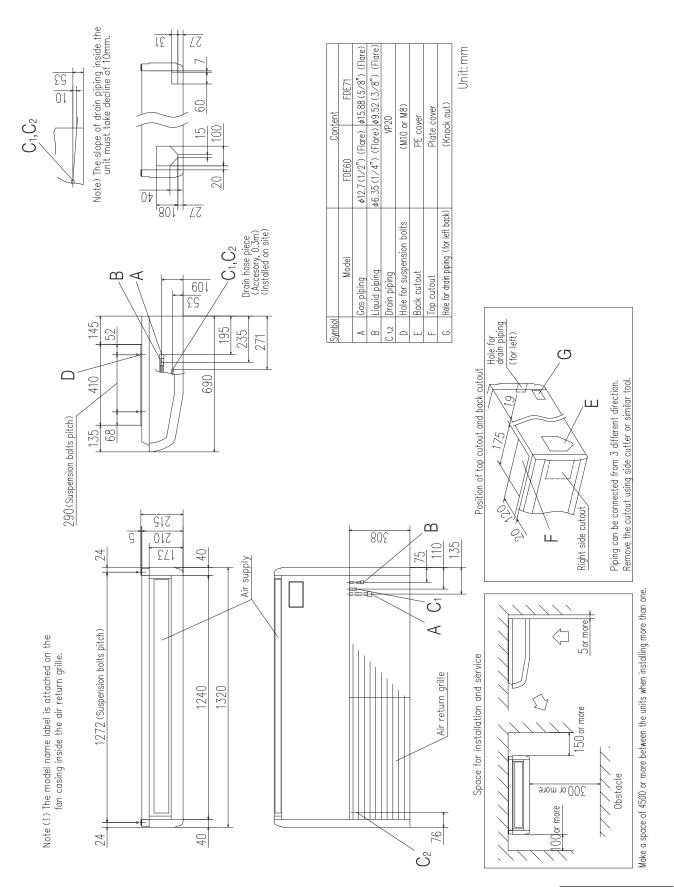
PJG000Z487

(e) Ceiling suspended type (FDE) Model FDE50VH



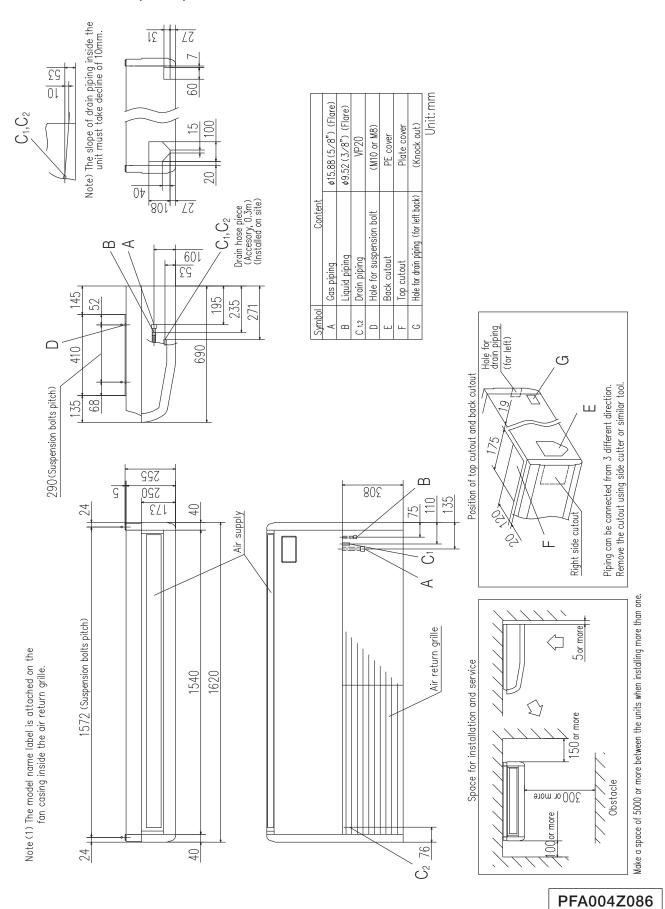
PFA004Z084

Models FDE60VH, 71VH

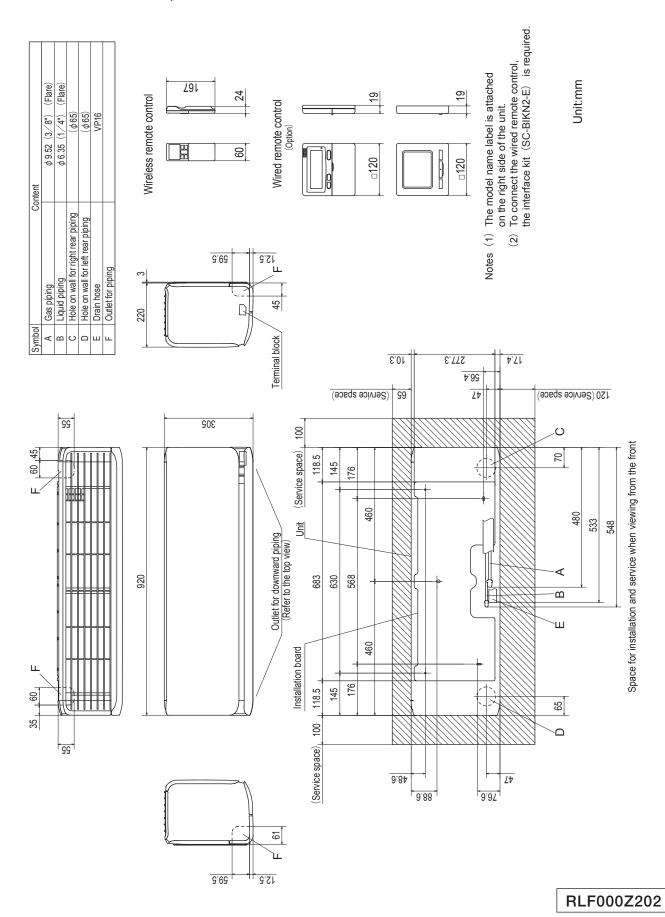


PFA004Z085

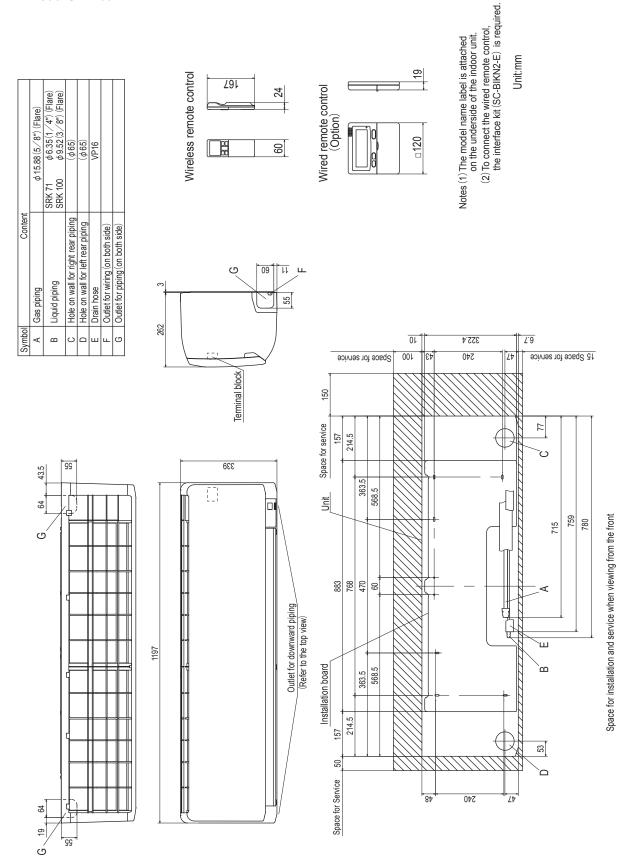
Models FDE100VH, 125VH, 140VH



(f) Wall mounted type (SRK) Models SRK50ZSX-W, 60ZSX-W



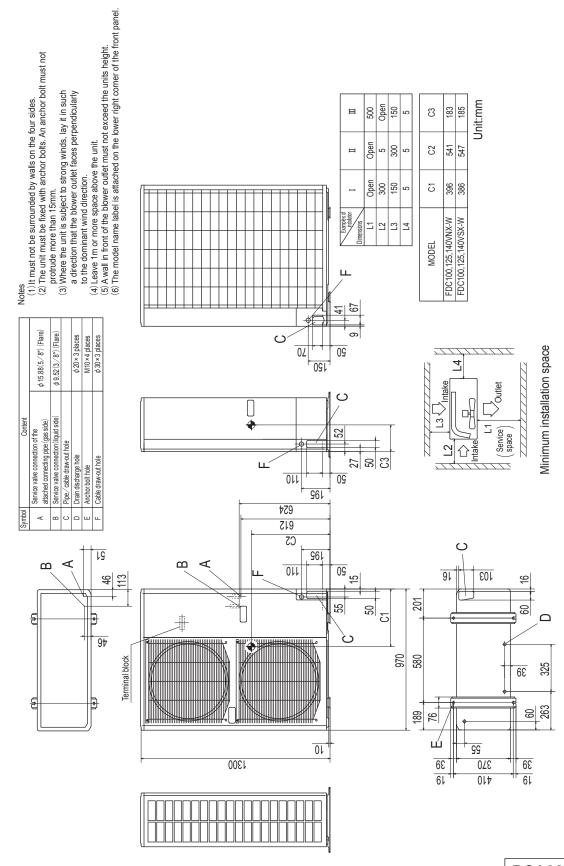
Model SRK100ZR-W



RLD000Z005

(2) Outdoor units

Models FDC100VNX-W, 125VNX-W, 140VNX-W 100VSX-W, 125VSX-W, 140VSX-W



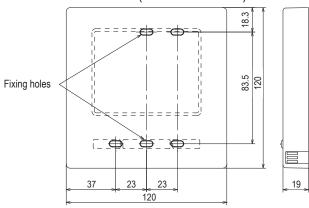
PCA001Z885

(3) Remote control (Option parts)

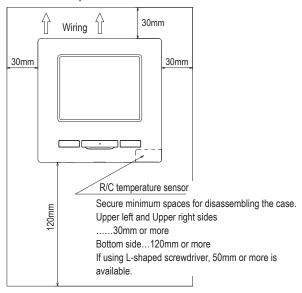
(a) Wired remote control

Model RC-EX3A

Dimensions (Viewed from front)



Installation space



• Do not install the remote control at following places.

- 1) It could cause break-down or deformation of remote control.
 - · Where it is exposed to direct sunlight
 - Where the ambient temperature becomes 0 °C or below, or 40 °C or above
 - · Where the surface is not flat
 - · Where the strength of installation area is insufficient
- 2) Moisture may be attached to internal parts of the remote control, resulting in a display failure.
 - · Place with high humidity where condensation occurs on the remote control
 - · Where the remote control gets wet
- 3) Accurate room temperature may not be detected using the temperature sensor of the remote control.
 - Where the average room temperature cannot be detected
 - · Place near the equipment to generate heat
 - Place affected by outside air in opening/closing the door
 - Place exposed to direct sunlight or wind from air-conditioner
 - Where the difference between wall and room temperature is large
- 4) When you are using the automatic grille up and down panel in the IU, you may not be able to confirm the up and down motion.
 - Where the IU cannot be visually confirmed

R/C cable:0.3mm² x 2 cores

When the cable length is longer than 100 m, the max size for wires used in the R/C case is 0.5 mm². Connect them to wires of larger size near the outside of R/C. When wires are connected, take measures to prevent water, etc. from entering inside.

≦ 200 m	0.5 mm ² x 2 cores
≦300m	0.75 mm ² x 2 cores
≤ 400m	1.25 mm ² x 2 cores
≦ 600m	2.0 mm ² x 2 cores

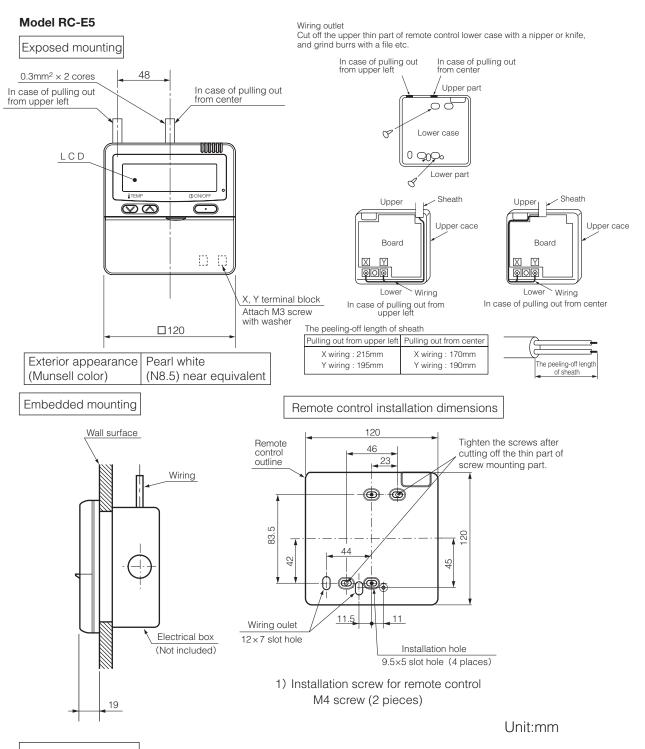
• When installing the unit at a hospital, telecommunication facility, etc., take measures to suppress electric noises.

It could cause malfunction or break-down due to hazardous effects on the inverter, private power generator, high frequency medical equipment, radio communication equipment, etc.

The influences transmitted from the remote control to medical or communication equipment could disrupt medical activities, video broadcasting or cause noise interference.

Adapted RoHS directive

PJZ000Z333



Wiring specifications

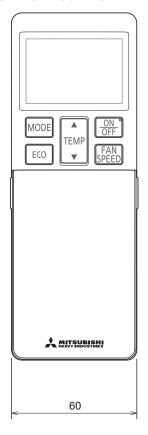
If the prolongation is over 100m, change to the size below.
 But, wiring in the remote control case should be under 0.5mm². Change the wire size outside of
the case according to wire connecting. Waterproof treatment is necessary at the wire connecting
section. Be careful about contact failure.

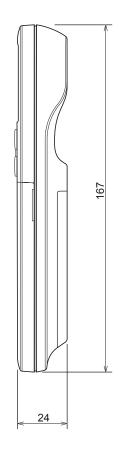
Length	Wiring thickness
100 to 200m	0.5mm ² × 2 cores
Under 300m	0.75mm ² × 2 cores
Under 400m	1.25mm ² × 2 cores
Under 600m	2.0mm ² × 2 cores

PJZ000Z295

(b) Wireless remote control

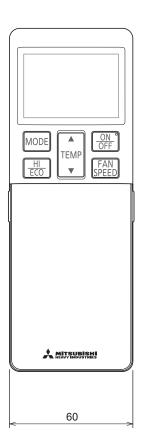
RCN-E2(Option parts) (Except SRK series)

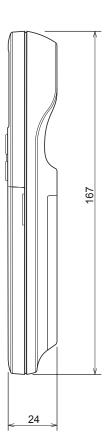




Unit: mm

SRK series only

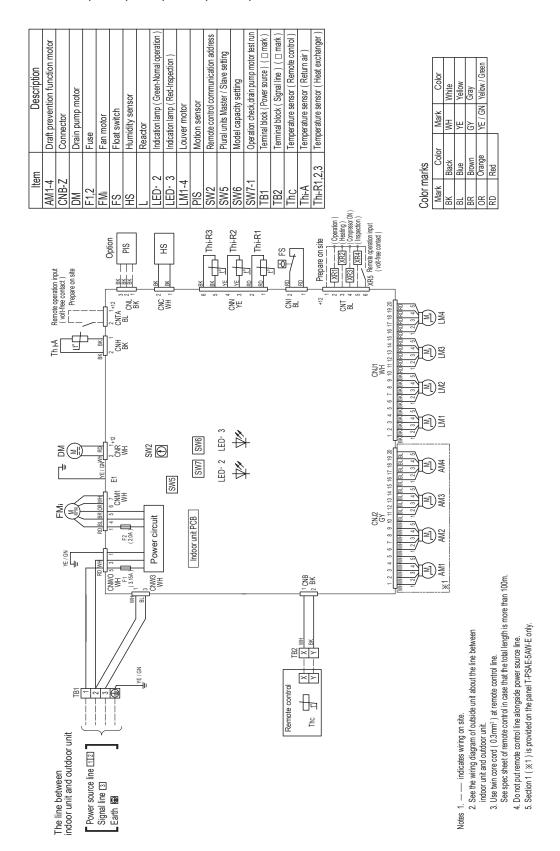




Unit: mm

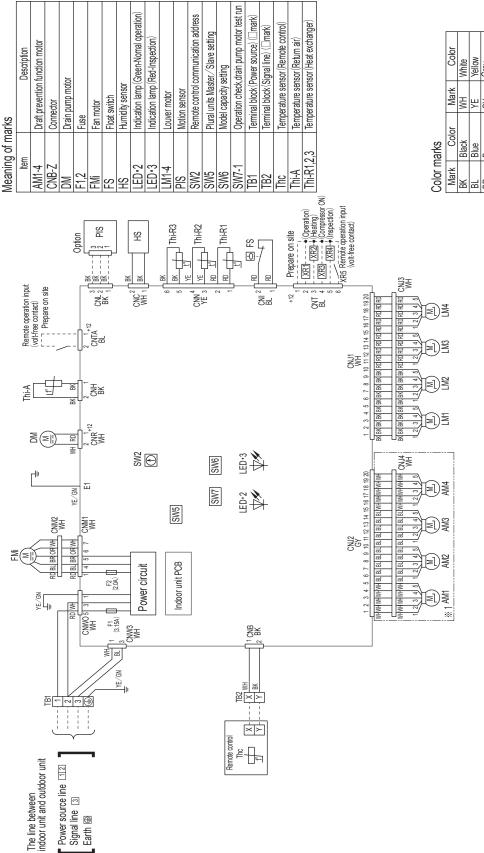
1.3 ELECTRICAL WIRING

- (1) Indoor units
 - (a) Ceiling cassette-4 way type (FDT)
 Models FDT50VH, 60VH, 71VH, 100VH, 125VH, 140VH



PJF000Z554

(b) Ceiling casette-4 way compact type (FDTC) Models FDTC50VH, 60VH



Gray g Orange Red Brown Mark BR BR OR OR

> 2. See the wiring diagram of outdoor unit about the line between Notes 1. - - - - indicates wiring on site.

indoor unit and outdoor unit.

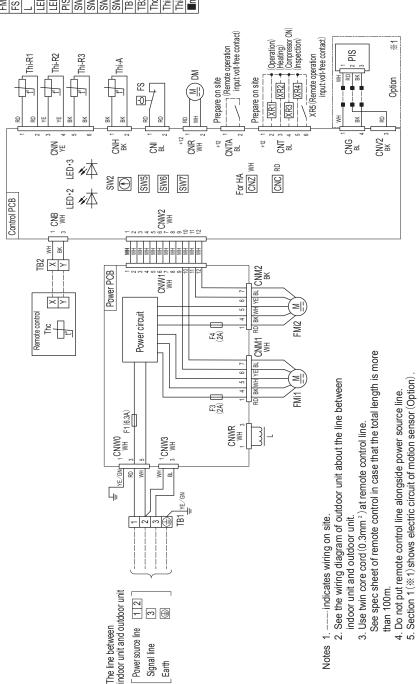
Use twin core $cord(0.3mm^2)$ at remote control line. Do not put remote control line alongside power source line. Draft prevention function (% 1) is provided on the panel TC-PSAE-5AW-E only.

PJF000Z516 /B\

(c) Duct connected-High static pressure type (FDU) Models FDU100VH, 125VH, 140VH

Meaning of marks	ıarks
ltem	Description
CNB-Z	Connector
DM	Drain pump motor
F1,3,4	Fuse
FMi1,2	Fan motor
FS	Float switch
7	Reactor
LED•2	Indication lamp (Green-Normal operation)
LED•3	Indication lamp (Red-Inspection)
PIS	Motion sensor
SW2	Remote control communication address
SW5	Plural units Master / Slave setting
SW6	Model capacity setting
SW7-1	Operation check, drain pump motor test run
TB1	Terminal block (Power source) (mark)
TB2	Terminal block (Signal line) (mark)
Thc	Temperature sensor (Remote control)
Thi-A	Temperature sensor (Return air)
Thi-R1,2,3	Temperature sensor (Heat exchanger)
mark	Closed-end connector

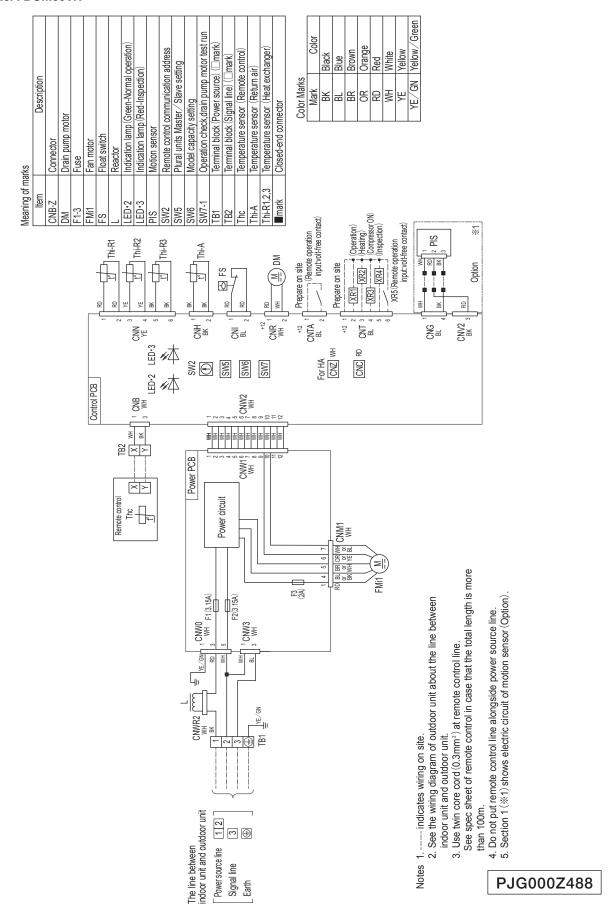
							_
	Color	Black	Blue	Red	White	Yellow	Yellow/Green
Color Marks	Mark	BK	BL	B	MM	УE	YE/GN



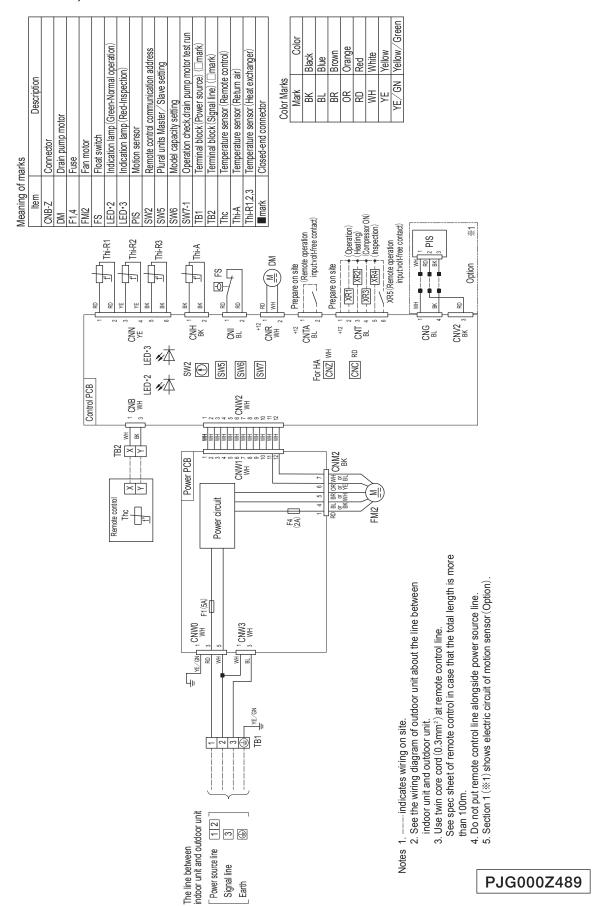
PJG000Z580

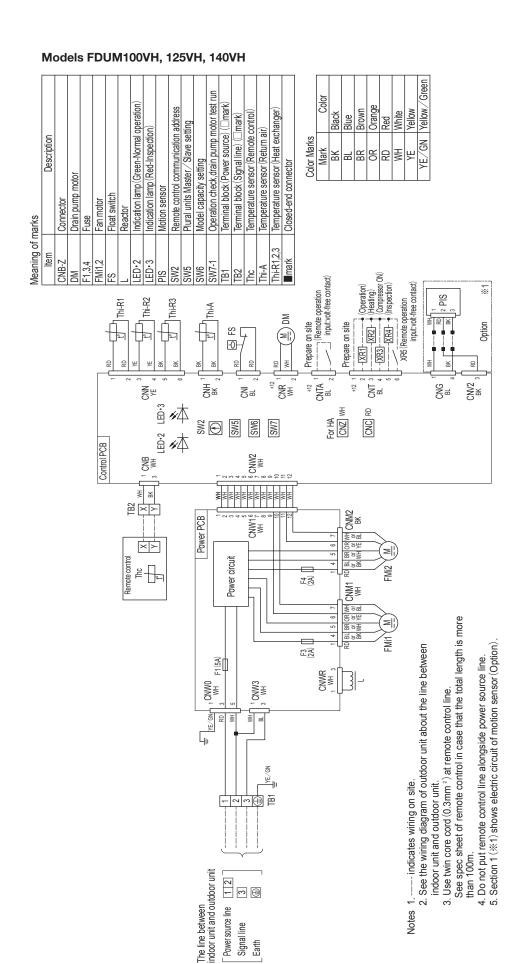
Power source line Signal line Earth

(d) Duct connected-Low / Middle static pressure type (FDUM) Model FDUM50VH



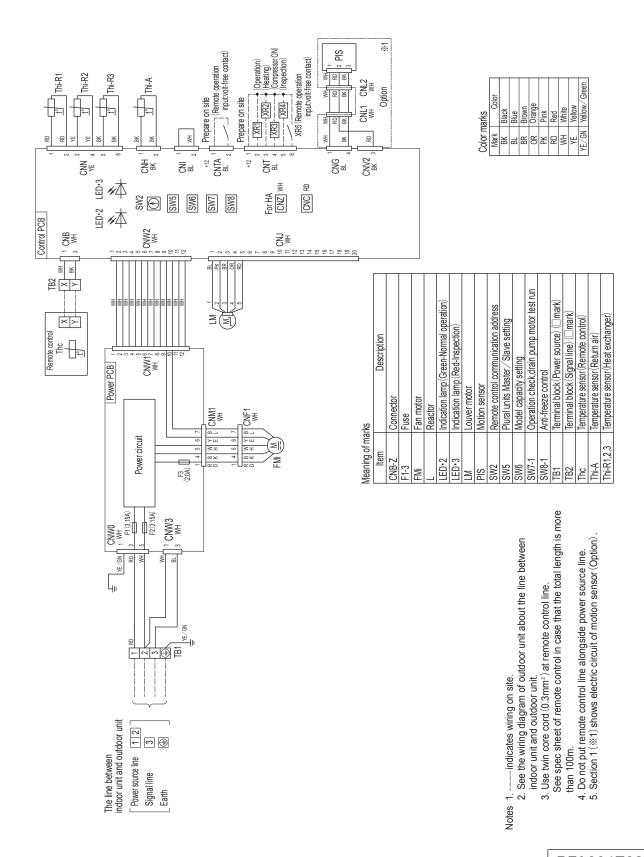
Models FDUM60VH, 71VH





PJG000Z490

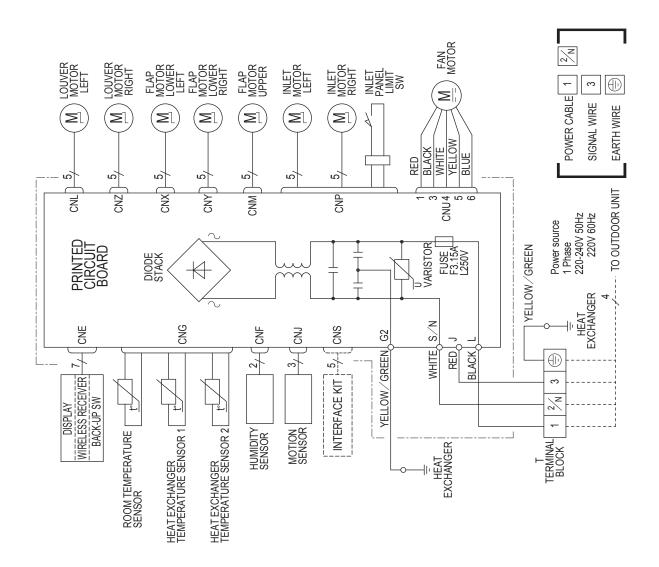
(e) Ceiling suspended type (FDE) Models FDE50VH, 60VH, 71VH, 100VH, 125VH, 140VH



PFA004Z087

(f) Wall mounted type (SRK) Models SRK50ZSX-W, 60ZSX-W

Description	Connector											
Item	CNE	CNF	CNG	CNJ	CNL	CNM	CNP	CNS	CNU	CNX	CN≺	CNZ



RWA000Z413

Model SRK100ZR-W

m Description	E Connector	(J ≥ W	- ×	Y Fan motor					Humidity sensor	Diode stack	Fuse	Terminal block	Varistor	Color Marks	Mark Color	BK Black		WH White	Y Yellow	d reliow				
Item	CNF	CNS	CON	NO FME	SM ₁	LM _{1,2}	Th1	Th2 _{1,2}	Th3	DS	LL.	TB	Va					SOURCE	1 Phase 220-240V 50Hz 220V 60Hz		TO OUTDOOR UNIT	POWER CABLE [1] [2/N]	SIGNAL WIRE 3	EARTH WIRE
																		'n	d)		2 O	Ы	\overline{S}	E/
	CNX 5	PRINTED CNY $3\frac{5}{4}$ LM2 BOARD	$\frac{5}{1}$ SM ₁		~							<u> </u>		RD	MH MH		6 BL FMI		TB 1 Phase 2	Ιz				EXCHANGER E

RWA000Z417<u>6</u>

(2) Outdoor units

Models FDC100VNX-W, 125VNX-W, 140VNX-W

							Meaning of marks		Meaning of marks		
							Item	Description	Item	Description	
							208	Solenoid valve for 4-way valve	НО	Crankcase heater	
			Œ				52X1	Auxilliary relay (for CH)	CM	Compressor motor	
F(8A)	ļ	RO	_ 				52X2	Auxilliary relay (for DH)	NO	Connector	
SEFILTER PCB3	J _{ul}			UNIT			52X3	Auxilliary relay (for 20S)	СТ	Current sensor	
2 €	∯I) § 1 1		⊕ Signal Wire ©	8t = 12 K = 3			63H1	High pressure switch	НО	Drain pan heater	
J	F (4A)	(A							DM	Diode module	
₩W				EEVC	EEVH	FM1	FM2		EEVC	Expansion valve for cooling	
				$\left(\mathbb{Z}\right)$	(<u>N</u>	€	€	arks	EEVH	Expansion valve for heating	
MO) 1)			Mark Color	<u> </u>	Fuse	
-				H/	H	1 8 8	1 N	BK Black	FM1,2	Fan motor	
BL		HA GI		P B	W -	8 4 8 4	8 4 7 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	BL Blue	IPM	Intelligent power module	
-0 ≥		v∏ ≥		=∏ -	=∏ =∐	CNFAN1	CNFAN2	BR Brown		Reactor	
INVERTER	CNIZ ## BI			(WHI)		(WH)	Γ	GN Green	LED1	Indication lamp (GREEN)	
400	CNIA MB	CANS	CONTROL					GR Gray	LED2	Indication lamp (RED)	
2	CNACT1 NA		52X1 52X3		SW3	SW5		P	PSL	Low pressure sensor	
≱	- - -	2002		LED1 LED2	NO NO	NO NO] ‰	OR Orange	SW1	Pump down switch	
В	L 8		2		1 2 3 4	J-	_	RD Red	SW3,4,5,7	Local setting switch	
* . A/FMODULE P	7	(WH)	9	į	SW4	SW7		WH White	<u>B</u>	Terminal block	
110	NZ	I BK	(WH) CONS			2 5 5	88 88	Y Yellow	THo-A	Temperature sensor (Outdoor air)	air)
		HW HW	8K 8R 8F 8B 8B	KD KD KD RK RK RK RK	BK BK	MH RD	BK	Y/GN Yellow/Green	n THo-D	Temperature sensor (Discharge pipe)	e pipe)
3 —			OH 20S B-7 L		[<u></u>		THo-R1,2	Temperature sensor (Heat exchanger pipe)	er pipe)
] 	コ: 円 コ	r P P		PSL	J-		S-0HT	Temperature sensor (Suction pipe)	ipe)
		Option	63H1	THO-R1 THO-D THO-S TH	THO-A THO-P		TH0-R2		TH0-P	Temperature sensor (IPM)	
oor cor	Power cable, indoor-outdoor connecting wires				_	Local settir	g switch SW3,4,5 (S	Local setting switch SW3,4,5 (Set up at shipment OFF)			
MAX over current	Power cable size	Power cable length	Indoor-outdoor wire size × number	Earth wire size		SW3-1	Defrost control change		The defrost operation interval becomes shorter by turning ON this switch. This switch should be the good whom of the good who were the good whom of the good who were the good whom of the good w	16 06 08	
1	/	(III)		(min)				the area of the area the fr	wilele outstue temperat	יים	

SW3-1	Defrost control change	The defrost operation interval becomes shorter by furning ON Ins switch. This switch should be turned ON in the area where outside temperature becomes below the freezing point.
SW3-2	Snow guard fan control	When this switch is turned ON, the outdoor unit fan will run for 30 seconds in every 10 minutes, when outdoor emperature falls to 3°C or lower and the compressor is not running when the unit is used in a very snowy country, set this switch to ON.
SW3-3,4	Trial operation	Method of trial operation ① Trial operation can be performed by using SW3-3,4. ②Compressor will be in the operation when SW3-3 is ON. ③Cooling trial operation will be performed when SW3-4 is ON. ⑤ Try and heating trial operation will be performed when SW3-4 is ON. ⑤ Be sure to tum OFF SW3-3 after the trial operation is finished.
SW4-1	Lower noise silent mode	Upper limit of compressor speed and fan speed becomes lower in silent mode.
SW5-2	High height difference operation control	Set this switch to ON when outdoor unit is installed at a position higher than Indoor unit v3 30m or more.

Earth wire size (mm)

Indoor-outdoor wire size × number

Power cable length (m)

Power cable size (mm²)

MAX over current (A)

Model

*At the connection with the duct type indoor unit

20 28

5.5

26 28

90 125

φ 1.6

 ϕ 1.6mm imes 3

5.5

7 20

25 27

100 125 140 φ1.6

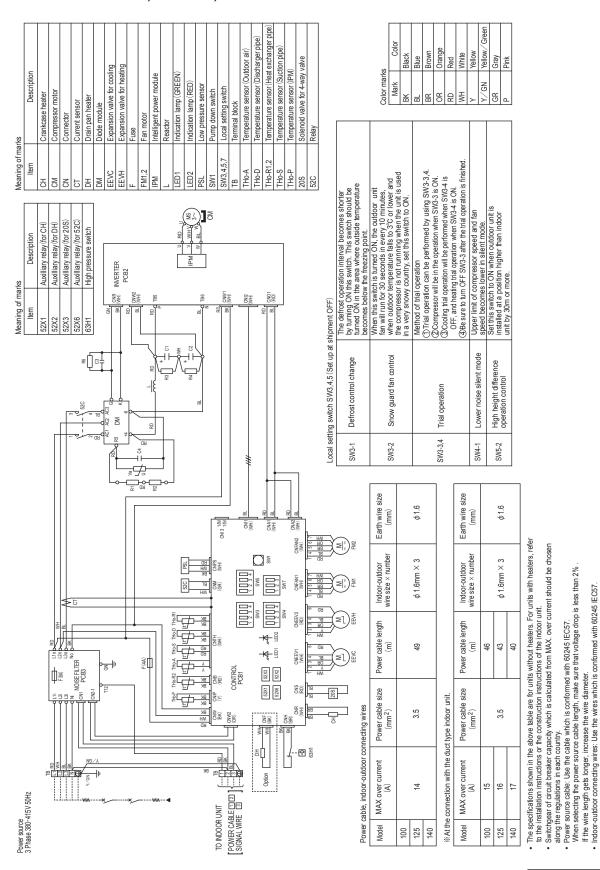
 ϕ 1.6mm imes 3

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PCA001Z886

Models FDC100VSX-W, 125VSX-W, 140VSX-W



PCA001Z887

1.4. NOISE LEVEL

Notes(1) The data are based on the following conditions.

Ambient air temperature: Indoor unit 27°CWB. Outdoor unit 35°CDB.

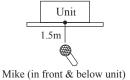
- (2) The data in the chart are measured in an anechoic room.
- (3) The noise levels measured in the field are usually higher than the data because of reflection.

(1) Indoor units

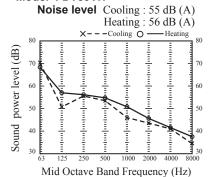
(a) Ceiling cassette-4way type (FDT)

(i) Sound power level

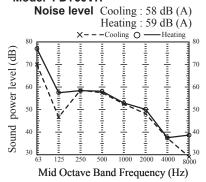
Measured based on JIS B 8616 Mike position



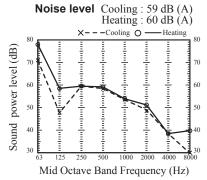
Model FDT50VH



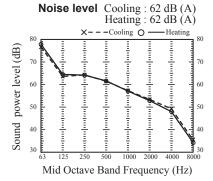
Model FDT60VH



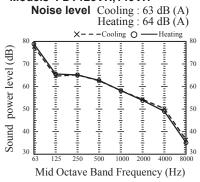
Model FDT71VH



Model FDT100VH



Models FDT125VH,140VH



(ii) Sound pressure level

Noise level 41 dB(A) at P-Hi

33 dB(A) at Hi

1000 2000

Mid Octave Band Frequency (Hz)

Model FDT50VH

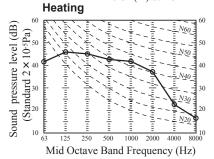
Sound pressure level (Bd) at Me 26 dB(A) at Lo Cooling

(Standard 2 × 10 -5 Pa)

(Standard 2 × 10 Pa)

(Standard 2 × 10

Noise level 42 dB(A) at P-Hi 33 dB(A) at Hi 28 dB(A) at Me 20 dB(A) at Lo



Model FDT60VH Noise level 44 dB(A) at P-Hi Noise level 44 dB(A) at P-Hi 34 dB(A) at Hi 34 dB(A) at Hi 30 dB(A) at Me 30 dB(A) at Me 27 dB(A) at Lo 20 dB(A) at Lo Cooling Heating Sound pressure level (dB) pressure level (dB) (Standard 2×10^{-5} Pa) (Standard 2×10^{-5} Pa) Sound Mid Octave Band Frequency (Hz) Mid Octave Band Frequency (Hz) Model FDT71VH Noise level 46 dB (A) at P-Hi Noise level 46 dB (A) at P-Hi 34 dB (A) at Hi 34 dB (A) at Hi 31 dB (A) at Me 31 dB (A) at Me 26 dB (A) at Lo 26 dB (A) at Lo Cooling Heating 60 Sound pressure level (dB) pressure level (dB) (Standard 2×10^{-5} Pa) (Standard 2×10^{-5} Pa) Sound Mid Octave Band Frequency (Hz) Mid Octave Band Frequency (Hz) Model FDT100VH Noise level 47 dB (A) at P-Hi Noise level 47 dB (A) at P-Hi 39 dB (A) at Hi 39 dB (A) at Hi 36 dB (A) at Me 36 dB (A) at Me 30 dB (A) at Lo 29 dB (A) at Lo Cooling Heating 60 60 Sound pressure level (dB) pressure level (dB) (Standard 2×10^{-5} Pa) (Standard 2×10^{-5} Pa) Sound 1000 2000 1000 Mid Octave Band Frequency (Hz) Mid Octave Band Frequency (Hz) Models FDT125VH,140VH Noise level 49 dB (A) Noise level 48 dB (A) at P-Hi at P-Hi 41[42] dB (A) at Hi 41 dB (A) at Hi 38 dB (A) at Me 39 dB (A) at Me 31[32] dB (A) at Lo 31 dB (A) at Lo Cooling Heating Sound pressure level (dB) pressure level (dB) (Standard 2×10^{-5} Pa) (Standard 2×10^{-5} Pa) Sound 500 1000 2000 4000 1000 2000 Mid Octave Band Frequency (Hz) Mid Octave Band Frequency (Hz)

Note (1) Values in [] are for the FDT140VH $\,$

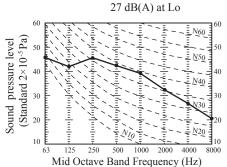
(b) Ceiling cassette-4 way compact type (FDTC)

Measured based on JIS B 8616 Mike position as right



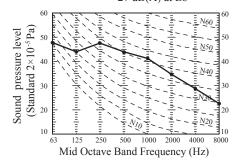
Model FDTC50VH

Noise level $44 \ dB(A)$ at P-Hi $40 \ dB(A)$ at Hi $35 \ dB(A)$ at Me



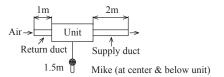
Model FDTC60VH

Noise level 44 dB(A) at P-Hi 40 dB(A) at Hi 35 dB(A) at Me 27 dB(A) at Lo



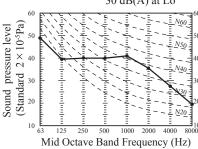
(c) Duct connected-High static pressure type (FDU)

Measured based on JIS B 8616 Mike position as right



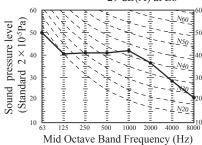
Model FDU100VH

Noise level 44 dB(A) at P-Hi 38 dB(A) at Hi 36 dB(A) at Me 30 dB(A) at Lo



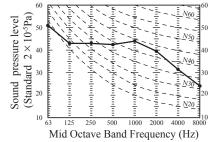
Model FDU125VH

Noise level 45 dB(A) at P-Hi 40 dB(A) at Hi 34 dB(A) at Me 29 dB(A) at Lo



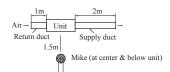
Model FDU140VH

Noise level 47 dB(A) at P-Hi 40 dB(A) at Hi 35 dB(A) at Me 30 dB(A) at Lo



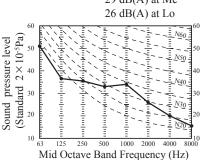
(d) Duct connected-Low/Middle static pressure type (FDUM)

Measured based on JIS B 8616 Mike position as right



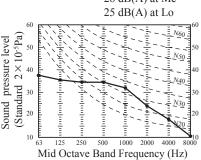
Model FDUM50VH

Noise level 37 dB(A) at P-Hi 32 dB(A) at Hi 29 dB(A) at Me 26 dB(A) at Lo



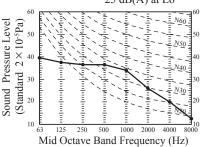
Model FDUM60VH

Noise level 36 dB(A) at P-Hi 31 dB(A) at Hi 28 dB(A) at Me 25 dB(A) at Lo



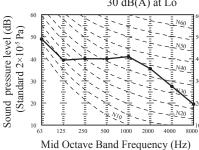
Model FDUM71VH

Noise level 38 dB(A) at P-Hi 33 dB(A) at Hi 29 dB(A) at Me 25 dB(A) at Lo



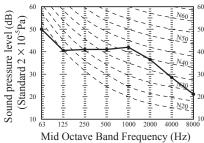
Model FDUM100VH

Noise level 44 dB(A) at P-Hi 38 dB(A) at Hi 36 dB(A) at Me 30 dB(A) at Lo



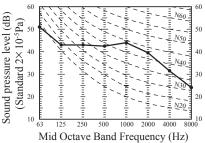
Model FDUM125VH

Noise level 45 dB(A) at P-Hi 40 dB(A) at Hi 34 dB(A) at Me 29 dB(A) at Lo



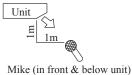
Model FDUM140VH

Noise level 47 dB(A) at P-Hi 40 dB(A) at Hi 35 dB(A) at Me 30 dB(A) at Lo



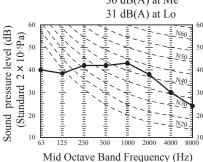
(e) Ceiling suspended type (FDE)

Measured based on JIS B 8616 Mike position as right



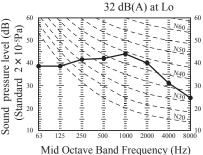
Model FDE50VH

Noise level 46 dB(A) at P-Hi 38 dB(A) at Hi 36 dB(A) at Me 31 dB(A) at Lo



Models FDE60VH, 71VH

Noise level 47 dB(A) at P-Hi 41 dB(A) at Hi 37 dB(A) at Me 32 dB(A) at Lo



Model FDE100VH

Noise level 48 dB(A) at P-Hi 43 dB(A) at Hi 38 dB(A) at Me

Standard Dressure level (dB) 34 dB(A) at Lo

Standard Dressure level (dB) 60

Standard Standa

Model FDE125VH Noise level 48 dB(A) at P-Hi 45 dB(A) at Hi 40 dB(A) at Me 35 dB(A) at Lo Sound pressure level (dB) (Standard 2×10^{-5} Pa)

1000

Mid Octave Band Frequency (Hz)

20

Model FDE140VH Noise level 49 dB(A) at P-Hi 45 dB(A) at Hi 40 dB(A) at Me 36 dB(A) at Lo Sound pressure level (dB) (Standard 2×10^{-5} Pa) 20 1000

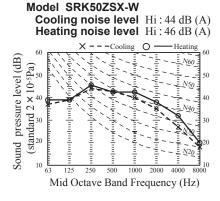
Mid Octave Band Frequency (Hz)

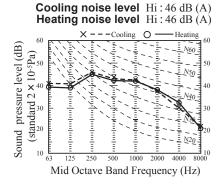
(f) Wall mounted type (SRK)

Measured based on JIS C 9612 Mike position as right

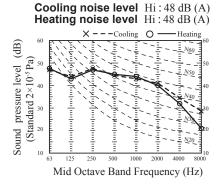


Model SRK100ZR-W





Model SRK60ZSX-W

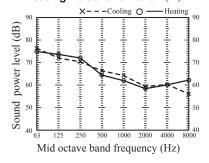


(2) Outdoor units

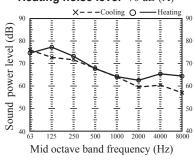
(a) Sound power level

(i) Rated capacity value

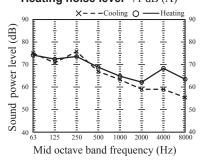
Models FDC100VNX-W,100VSX-W Cooling noise level 67 dB (A) Heating noise level 67 dB (A)



Models FDC125VNX-W,125VSX-W Cooling noise level 68 dB (A) Heating noise level 70 dB (A)

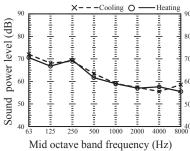


Models FDC140VNX-W,140VSX-W Cooling noise level 69 dB (A) Heating noise level 71 dB (A)

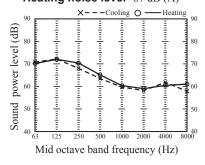


(ii) Silent mode (Normal)

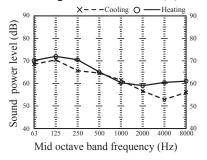
Models FDC100VNX-W,100VSX-W Cooling noise level 65 dB (A) Heating noise level 64 dB (A)



Models FDC125VNX-W,125VSX-W Cooling noise level 66 dB (A) Heating noise level 67 dB (A)

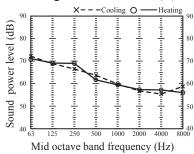


Models FDC140VNX-W,140VSX-W Cooling noise level 68 dB (A) Heating noise level 67 dB (A)

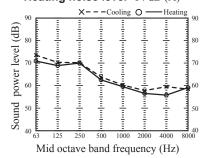


(iii) Silent mode (Silent)

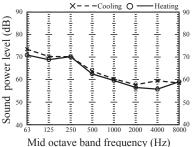
Models FDC100VNX-W,100VSX-W Cooling noise level 64 dB (A) Heating noise level 64 dB (A)



Models FDC125VNX-W,125VSX-W Cooling noise level 65 dB (A) Heating noise level 64 dB (A)



Models FDC140VNX-W,140VSX-W Cooling noise level 65 dB (A) Heating noise level 64 dB (A)



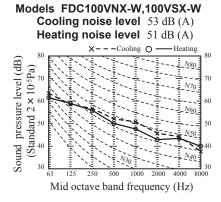
(b) Sound pressure level

Measured based on JIS B 8616

Mike position: at highest noise level in position as mentioned below

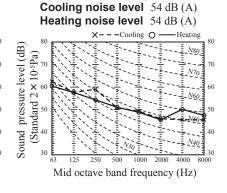
Distance from front side 1m Height

(i) Rated capacity value



Cooling noise level 53 dB (A) Heating noise level 54 dB (A) -- Cooling O - Heating pressure level (dB) N80 (Standard 2×10^{-5} Pa) N60 Sound 4000 Mid octave band frequency (Hz)

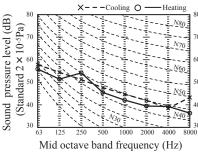
Models FDC125VNX-W,125VSX-W



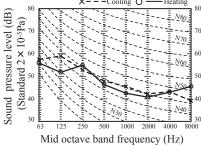
Models FDC140VNX-W,140VSX-W

(ii) Silent mode (Normal)

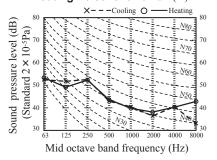
Models FDC100VNX-W,100VSX-W Cooling noise level 49 dB (A) Heating noise level 48 dB (A) -- Cooling O -— Heating



Models FDC125VNX-W,125VSX-W Cooling noise level 50 dB (A) Heating noise level 50 dB (A) X---Cooling O - Heating level (dB)

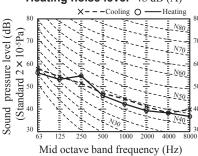


Models FDC140VNX-W,140VSX-W Cooling noise level 50 dB (A) Heating noise level 51 dB (A)

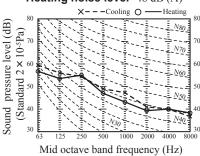


(iii) Silent mode (Silent)

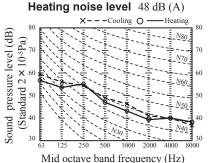
Models FDC100VNX-W,100VSX-W Cooling noise level 48 dB (A) Heating noise level 48 dB (A)



Models FDC125VNX-W,125VSX-W Cooling noise level 49 dB (A) Heating noise level 48 dB (A)



Models FDC140VNX-W,140VSX-W Cooling noise level 49 dB (A)



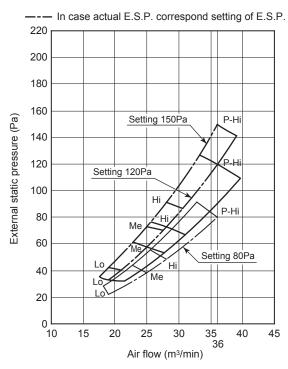
1.5 CHARACTERISTICS OF FAN

- (1) Duct connected-High static static pressure type (FDU)
 - Characteristic FAN (1) shows air flow vs. External Static Pressure (E.S.P.) range where settings of E.S.P. are maximum E.S.P. (SW8-4 OFF : 150Pa, SW8-4 ON : 200Pa), rated E.S.P., and minimum E.S.P. (SW8-4 OFF : 80Pa, SW8-4 ON : 10Pa)
 - · Characteristic FAN (2) shows air flow vs E.S.P. curve when set fan tap is set P-Hi with each setting of E.S.P. by remote control.
 - External Static Pressure (E.S.P.) can be set by wired remote control.
 - · You can set required E.S.P. by wired remote control which calculate it with the set air flow rate and pressure loss of the duct connected.

Model FDU100VH

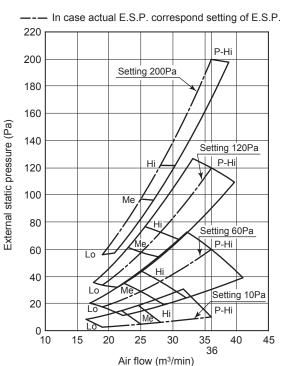
■SW8-4 : OFF (Range of use limitation : Setting 80Pa-150Pa)

Characteristic FAN (1)

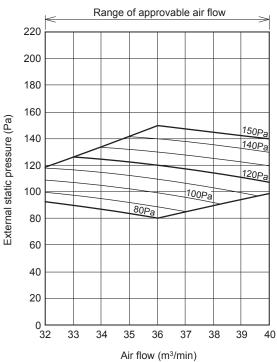


■SW8-4 : ON (Range of use limitation : Setting 10Pa-200Pa)

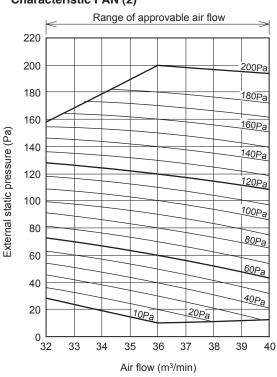
Characteristic FAN (1)



Characteristic FAN (2)



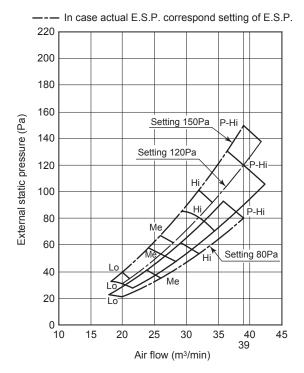
Characteristic FAN (2)



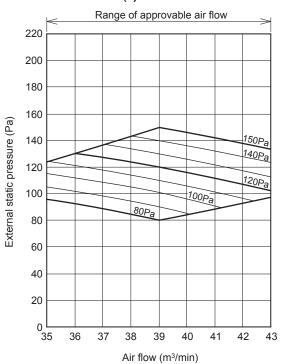
Model FDU125VH

■SW8-4 : OFF (Range of use limitation : Setting 80Pa-150Pa)

Characteristic FAN (1)

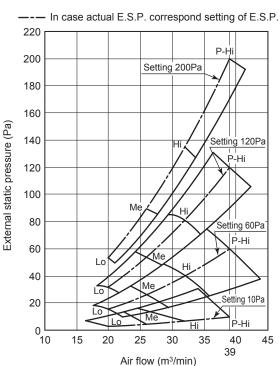


Characteristic FAN (2)

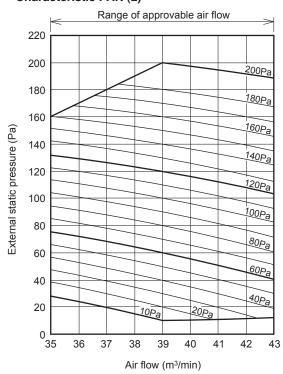


■SW8-4 : ON (Range of use limitation : Setting 10Pa-200Pa)

Characteristic FAN (1)



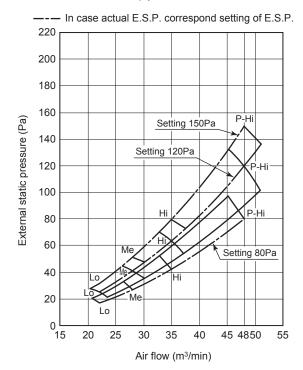
Characteristic FAN (2)



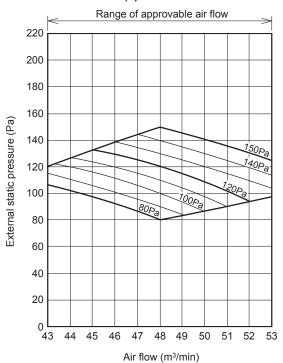
Model FDU140VH

■SW8-4 : OFF (Range of use limitation : Setting 80Pa-150Pa)

Characteristic FAN (1)

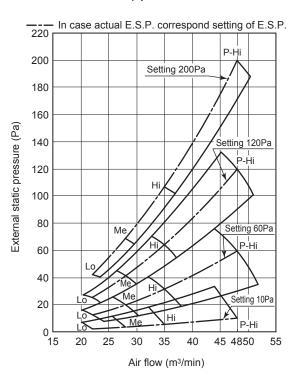


Characteristic FAN (2)

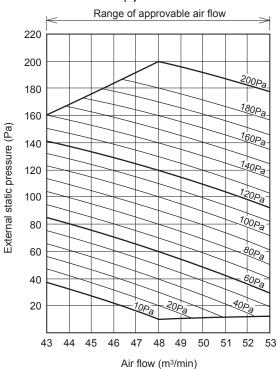


■SW8-4 : ON (Range of use limitation : Setting 10Pa-200Pa)

Characteristic FAN (1)



Characteristic FAN (2)



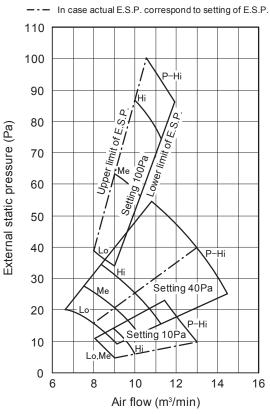
(2) Duct connected-Low / Middle static pressure type (FDUM)

- · Characteristic FAN (1) shows air flow vs. External Static Pressure (E.S.P.) range where settings of E.S.P. are maximum E.S.P. (100Pa), rated E.S.P., and minimum E.S.P. (10Pa)
- · Characteristic FAN (2) shows air flow vs E.S.P. curve when set fan tap is set P-Hi with each setting of E.S.P by remote control.
- External Static Pressure (E.S.P.) can be set by wired remote control.
- · You can set required E.S.P. by wired remote control which calculate it with the set air flow rate and pressure loss of the duct connected.

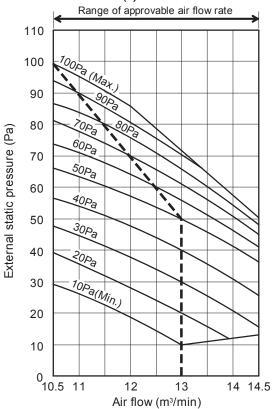
Model FDUM50VH

Characteristic FAN(1)

110

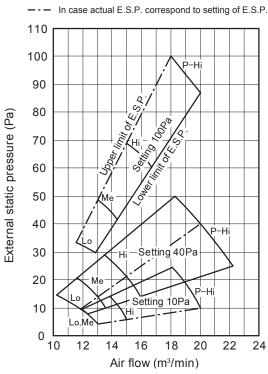


Characteristic FAN(2)

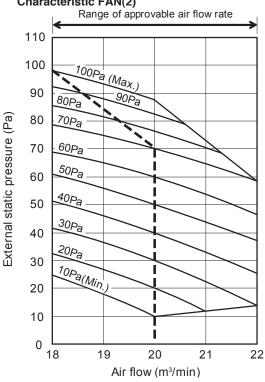


Model FDUM60VH

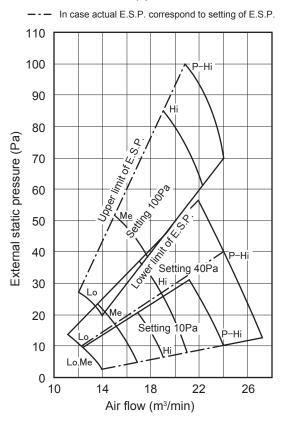
Characteristic FAN(1)



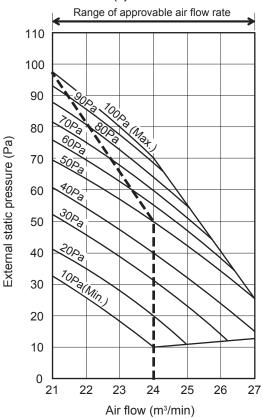
Characteristic FAN(2)



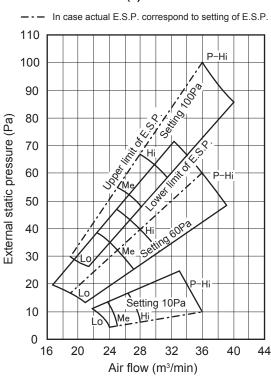
Model FDUM71VH Characteristic FAN(1)



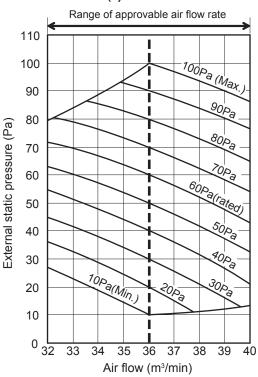
Characteristic FAN(2)



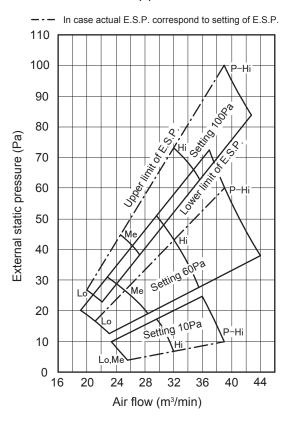
Model FDUM100VH Characteristic FAN(1)



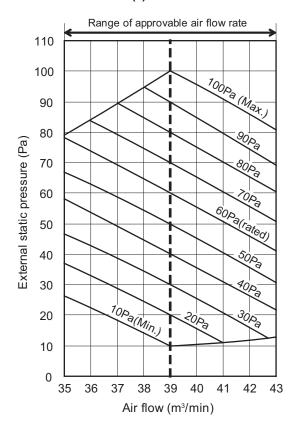
Characteristic FAN(2)



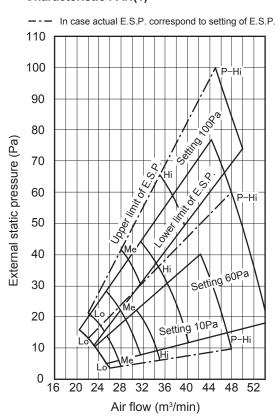
Model FDUM125VH Characteristic FAN(1)



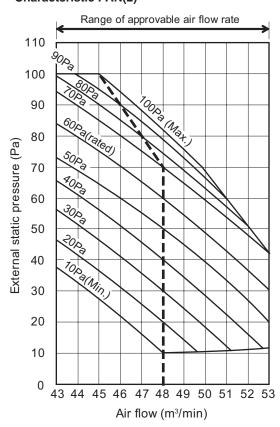
Characteristic FAN(2)



Model FDUM140VH Characteristic FAN(1)



Characteristic FAN(2)



1.6 TEMPERATURE AND VELOCITY DISTRIBUTION

Indoor temperature

Cooling 27°CDB / 19°CWB

Heating 20°CDB

Note: These figures represent the typical main range of temperature and velocity distribution at the center of air outlet within the published conditions.

In the actual installation, they may differ from the typical figures under the influence of air temperature conditions, ceiling height, operation conditions and obstacles.

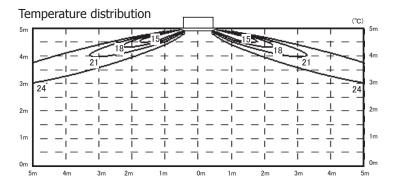
(1) Ceiling cassette-4 way type (FDT)

Model FDT50VH

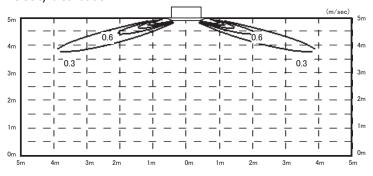
Cooling Air flow: P-Hi

Louver position





Velocity distribution

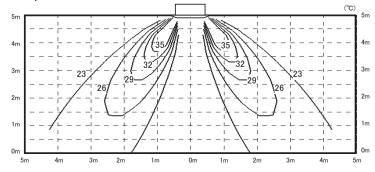


Heating Air flow: P-Hi

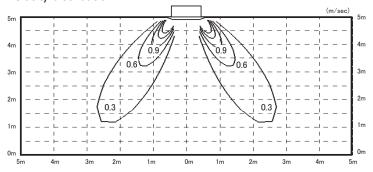
Louver position



Temperature distribution



Velocity distribution

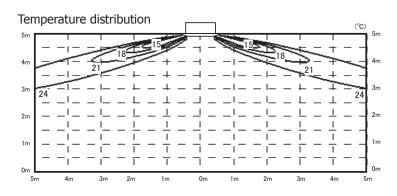


Models FDT60VH, 71VH

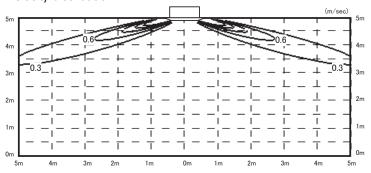
Cooling Air flow: P-Hi

Louver position





Velocity distribution

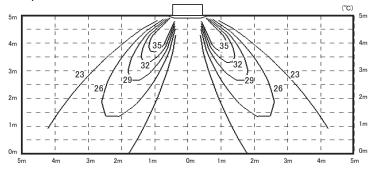


Heating Air flow: P-Hi

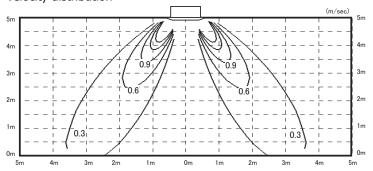
Louver position



Temperature distribution



Velocity distribution

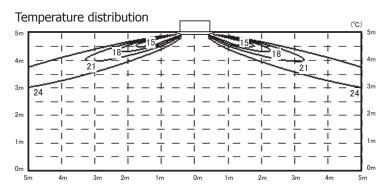


Models FDT100VH, 125VH, 140VH

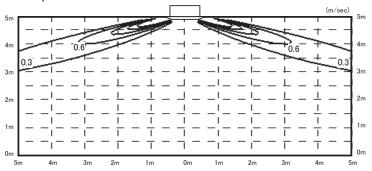
Cooling Air flow: P-Hi

Louver position





Velocity distribution

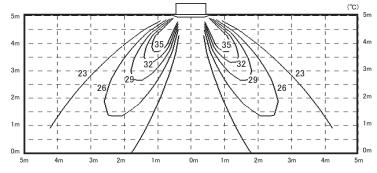


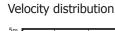
Heating Air flow: P-Hi

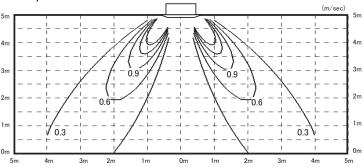
Louver position



Temperature distribution





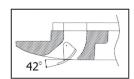


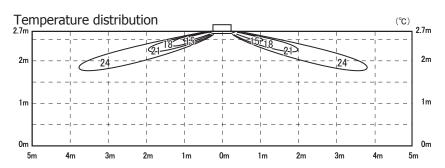
(2) Ceiling casstte-4 way compact type (FDTC)

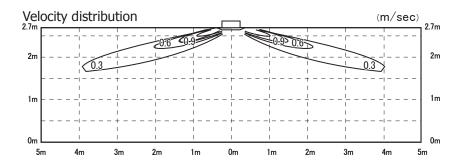
Model FDTC50VH

Cooling Air flow: P-Hi

Louver position

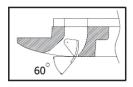


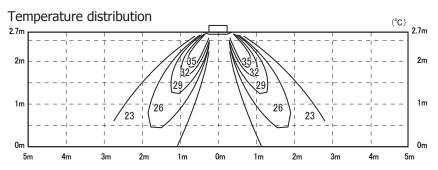


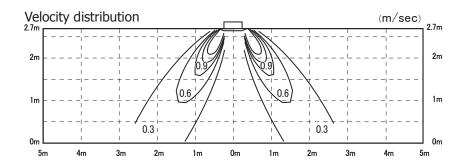


Heating Air flow: P-Hi

Louver position



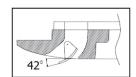


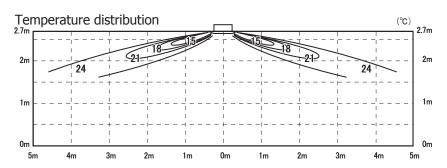


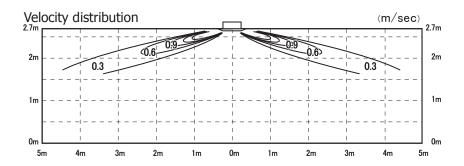
Model FDTC60VH

Cooling Air flow: P-Hi

Louver position

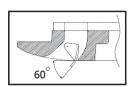


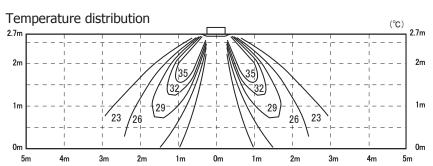


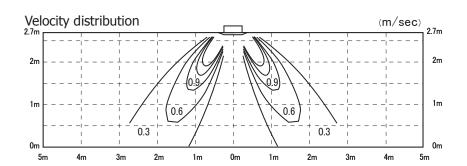


Heating Air flow: P-Hi

Louver position







(3) Ceiling suspended type (FDE)

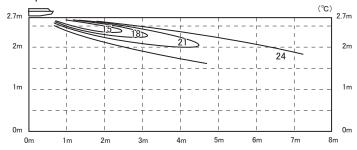
Model FDE50VH

Cooling Air flow: P-Hi

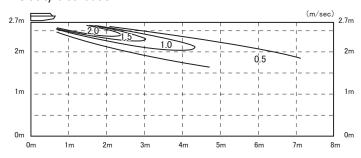
Louver position



Temperature distribution

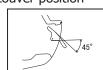


Velocity distribution

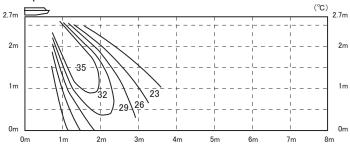


Heating Air flow: P-Hi

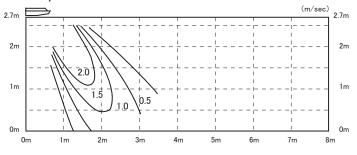
Louver position



Temperature distribution



Velocity distribution



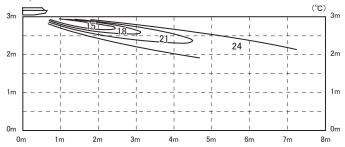
Models FDE60, 71VH

Cooling Air flow: P-Hi

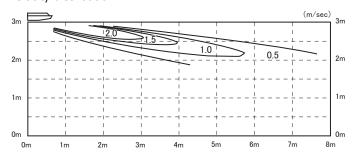
Louver position



Temperature distribution

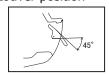


Velocity distribution

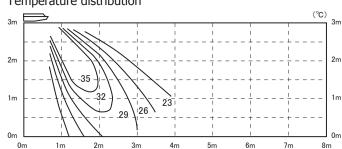


Heating Air flow: P-Hi

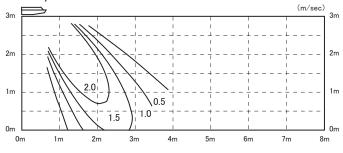
Louver position



Temperature distribution



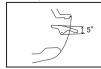
Velocity distribution



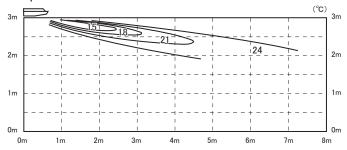
Models FDE100, 125VH

Cooling Air flow: P-Hi

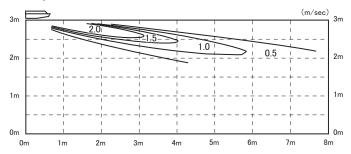
Louver position



Temperature distribution

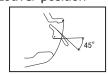


Velocity distribution

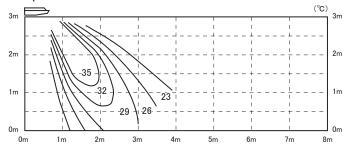


Heating Air flow: P-Hi

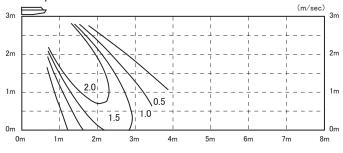
Louver position



Temperature distribution



Velocity distribution



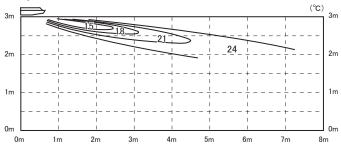
Model FDE140VH

Cooling Air flow: P-Hi

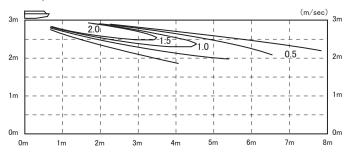
Louver position



Temperature distribution

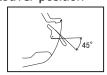


Velocity distribution

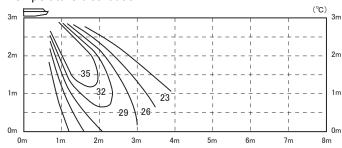


Heating Air flow: P-Hi

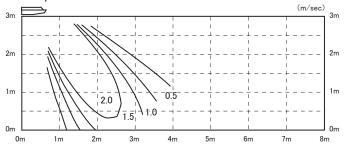
Louver position



Temperature distribution



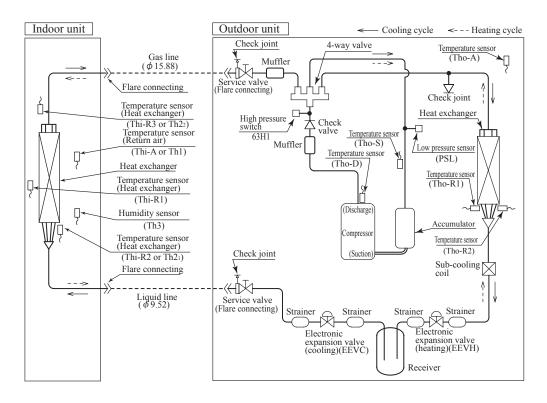
Velocity distribution



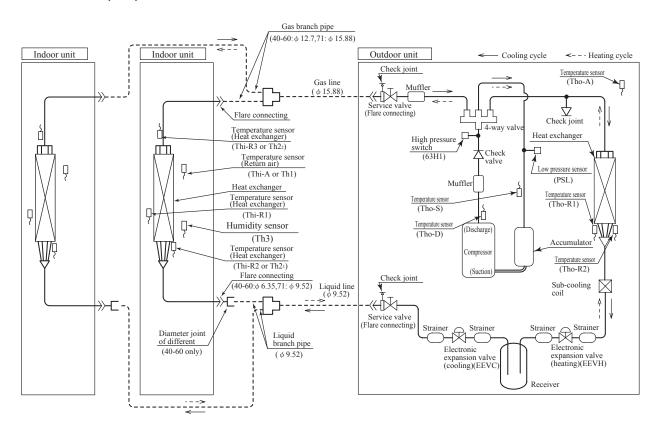
1.7 PIPING SYSTEM

(1) Single type

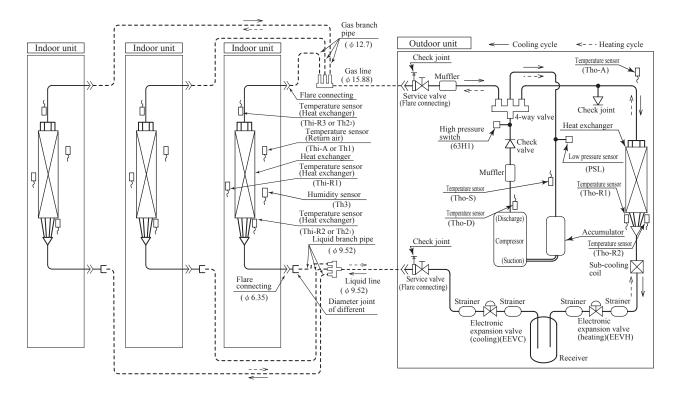
Models 100, 125, 140



(2) Twin type Models 100, 125, 140



(3) Triple type Model 140



Preset point of the protective devices

Parts name	Mark	Equipped unit	Protective control activation 100, 125, 140 model
Temperature sensor (for protection over- loading in heating)	Thi-R (Tho-A)	Indoor unit (Outdoor unit)	Active 63°C (Active 17°C) Inactive 56°C (Inactive 16°C)
Temperature sensor (for frost prevention)	Thi-R (Th2)	Indoor unit	Active 1.0°C (Active 2.5°C) Inactive 10°C (Inactive 8°C)
Temperature sensor (for protection high pressure in cooling.)	Tho-R	Outdoor unit	Active 63°C Inactive 51°C
Temperature sensor (for detecting dis- charge pipe temp.)	Tho-D	Outdoor unit	Active 115°C Inactive 85°C
High pressure switch (for protection)	63H1	Outdoor unit	Active 4.15MPa Inactive 3.15MPa
Low pressure sensor (for protection)	PSL	Outdoor unit	Active 0.079MPa Inactive 0.227MPa

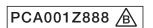
Note (1) Values in () are for the SRK models.

1.8 RANGE OF USAGE & LIMITATIONS

Operating temperature ran		See next page.
Operating temperature ran	ge	When used below -5°C, install a snow hood (locally procured).
Recommendable area to ir	nstall	Considering to get sufficient heating capacity, the area where the averaged lowest ambient air temperature in day time during winter is above 0°C, and it has no accumulation of snow.
Installation site		The limitations of installation space are shown in the page for exterior dimensions. Install the indoor unit at least 2.5m higher than the floor surface.
Temperature and humidity indoor unit in the ceiling (N	conditions surrounding the ote 2)	Model FDE Dew point temperature : 23°C or less, relative hummdity : 80% or less Other models Dew point temperature : 28°C or less, relative hummdity : 80% or less
Limitations on unit and pipi	ing installation	See pages 119 and 120.
Compressor	Cycle Time	7 minutes or more (from OFF to OFF) or (from ON to ON)
ON-OFF cycling	Stop Time	3 minutes or more
	Voltage range	Rating ±10%
Power source	Voltage drop at start-up	Min.85% of rating
	Phase-to-phase imbalance	3% or less

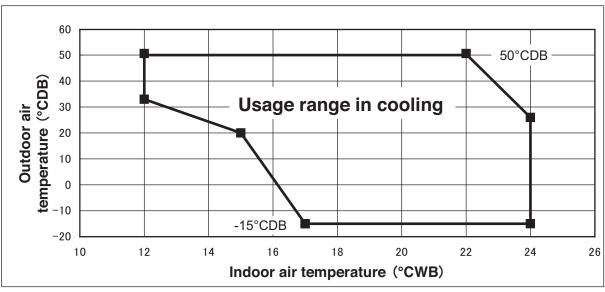
Note (1) Do not install the unit in places which:

- 1) Flammable gas may leak.
- 2) Carbon fiber, metal particles, powder, etc. are floating.
- 3) Cosmetic or special sprays are used frequently.
- 4) Exposed to oil splashes or steam (e.g. kitchen and machine plant).
- 5) Exposed to sea breeze (e.g. coastal area) or calcium chloride (e.g. snow melting agent).
- 6) Exposed to ammonia substance (e.g. organic fertilizer).
- 7) Matters affecting devices, such as sulfuric gas, chlorine gas, acid, alkali, etc. may generate or accumulate.
- 8) Chimney smoke is hanging.
- 9) Sucking the exhaust gas from heat exchanger.
- 10) Adjacent to equipment generating electromagnetic waves or high frequency waves.
- 11) There is light beams that affect the receiving device of indoor unit in case of the wireless specification.
- 12) Snow falls heavily.
- 13) At an elevation of 1000 meters or higher.
- 14) On mobile machine (e.g. vehicle, ship, etc.)
- 15) Splashed with water to indoor unit (e.g. laundry room).
- 16) Indoor units of twin and triple specifications separately in a room with partition.
- Note (2) If ambient temperature and humidity exceed the above conditions, add polyurethane foam insulation (10mm or thicker) on the outer plate of indoor unit
- Note (3) Both gas and liquid pipes need to be coverd with 20mm or thicker heat insulation materials at the place where humidity exceeds 70%.
- Note (4) When snow accumulate, install a snow hood on site.
- Note (5) The indoor unit shall be installed in a room with minimum installation area or more according to the refrigerant charge amount. (for details, refer to installation sheet)

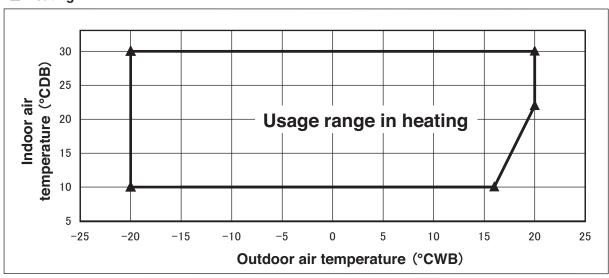


Operating temperature range

■ Cooling



Heating



Decline in cooling and heating capacity or operation stop may occur when the outdoor unit is installed in places where natural wind can increase or decrease its design air flow rate.

PCA001Z888 🛕

"CAUTION" Cooling operation under low outdoor air temperature conditions

PAC models can be operated in cooling mode at low outdoor air temperature condition within above temperature range. However in case of severely low temperature conditions if the following precaution is not observed, it may not be operated in spite of operable temperature range mentioned above and cooling capacity may not be established under certain conditions.

[Precaution]

In case of severely low temperature condition

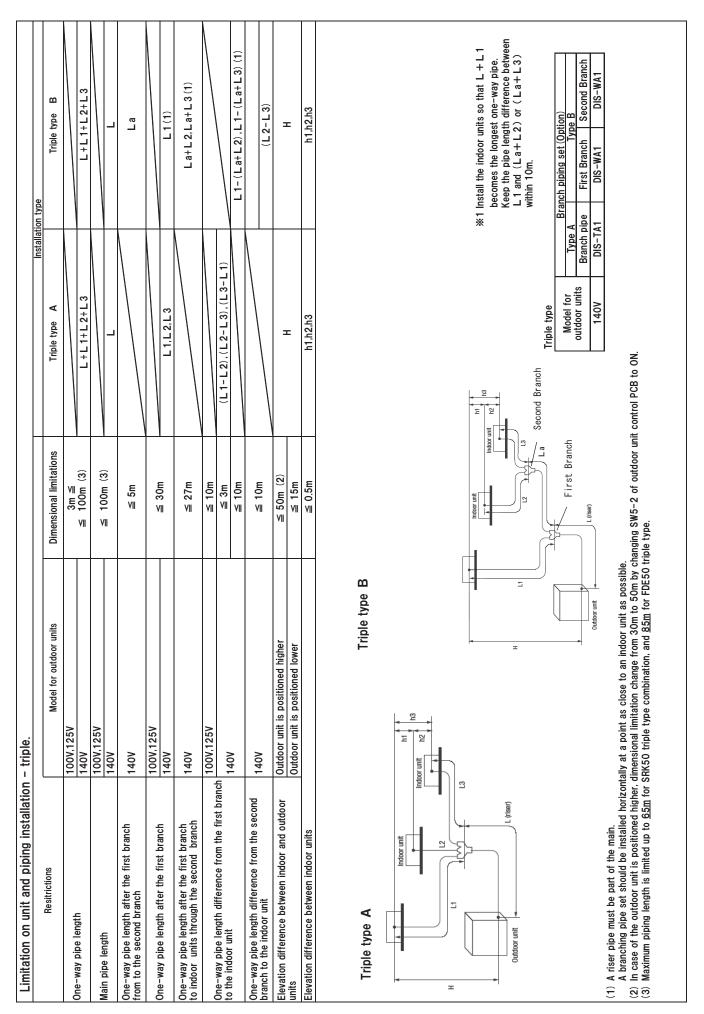
- 1) Install the outdoor unit at the place where strong wind cannot blow directly into the outdoor unit.
- 2) If there is no installation place where can prevent strong wind from directly blowing into the outdoor unit, mount the flex flow adapter (prepared as option part) or like such devices onto the outdoor unit in order to divert the strong wind.

[Reason]

Under the low outdoor air temperature conditions of -5°C or lower, the outdoor fan is controlled at lower or lowest speed by outdoor fan control, but if strong wind directly blow into the outdoor unit, the outdoor heat exchanger temperature will drop more.

This makes high and low pressures to drop as well. This low pressure drop makes the indoor heat exchanger temperature to drop and will activate anti-frost control at indoor heat exchanger at frequent intervals, that cooling operation may not be established for any given time.

One-way pipe length Main pipe length One-way pipe length after the first branch from to the second branch One-way pipe length after the first branch One-way pipe length after the first branch to indoor units through the second branch to indoor units through the second branch One-way pipe length after the first branch One-wa	Model for outdoor units	Dimensional restroctopns 3m ≦ 100m (3) ≤ 100m (3) ≤ 5m ≤ 5m ≤ 27m ≤ 10m	Single type	Twin type Twin type L+L1,L+L2 L
	Model for outdoor units	Simensional restroctopns Sim ≤ Sim ≤ 100m (3) Sim ≤ 100m (3) Sim ≤ Si	Single type	Twin type L + L 1, L + L 2 L
	50		7	L+L1,L+L2 L
	50			, r
	50	≤ 5m ≤ 30m ≤ 27m ≤ 10m		
	50	≥ 30m ≥ 27m ≥ 10m		
	20	≥ 27m ≤ 10m		L1,L2
<u>Г</u>	200	M 10m		
one-way pipe length difference from the first branch to the indoor unit	_	\\ 10m		(L1-L2)
One-way pipe length difference from the second 140V branch to the indoor unit		MOT 10m		
Elevation difference between indoor and outdoor units Outdoor unit	Outdoor unit is positioned higher Outdoor unit is positioned lower	≤ 50m (2) ≤ 15m	Ι	Ŧ
Elevation difference between indoor units		≥ 0.5m		ч
Single type Indoor unit A branching pipe set should be installed horizontally at a point as close to an indoor unit as possible. (2) In case of the outdoor unit is positioned higher, dimensional limitation change from 30m to 50m by changing SW5-2 of outdoor unit control PCB to ON. (3) Maximum piping length is limited up to 85m for FDE60 and FDE71 twin type.	Twin type H Cutdoor unit t as close to an indoor unit as possible. mitation change from 30m to 50m by changing \$\frac{9}{2}\$	Twin type Outdoor unit control P	Win type Model for Branch piping outdoor units set (Option) 100V • 125V • 140V DIS-WA1 control PCB to ON.	



1.9 SELECTION CHART

Correct the cooling and heating capacity in accordance with the operating conditions. The net cooling and heating capacity can be obtained in the following way.

Net capacity = Capacity shown in the capacity tables (1.9.1) × Correction factors shown in the table (1.9.2) (1.9.3) (1.9.4).

Caution: In case that the cooling operation during low outdoor air temperature below -5°C is expected, install the outdoor unit where it is not influenced by natural wind. Otherwise protection control by low pressure will be activated much more frequently and it will cause insufficient capacity or breakdown of the compressor in worst case.

1.9.1 Capacity tables

(1) Ceiling cassette-4 way type (FDT)

(a) Single type Model FDT100VNXWVH

Indoor unit FDT100VH

Outdoor unit FDC100VNX-W

(kW) Heating mode:HC (kW)

Cooling m	ode															(kV
0 11							Indo	oor air t	empera	ture						
Outdoor air temp.	18 °	CDB	21 °	CDB	23 °	CDB	26 °	CDB	27 °	CDB	28 °	CDB	31 °	CDB	33 °	CDB
an temp.	12 °	CWB	14 °0	CWB	16 °	CWB	18 °0	CWB	19 °C	CWB	20 °C	CWB	22 °C	CWB	24 °C	CWB
°CDB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
-15							11.26	8.63	11.76	8.55	12.09	8.41	12.75	8.82	13.41	8.48
-10							11.26	8.63	11.76	8.55	12.09	8.41	12.75	8.82	13.41	8.48
-5							11.26	8.63	11.76	8.55	12.09	8.41	12.75	8.82	13.41	8.48
0					10.51	7.97	11.35	8.66	11.76	8.55	12.11	8.41	12.80	8.83	13.49	8.50
5					10.77	8.06	11.43	8.68	11.76	8.55	12.13	8.42	12.85	8.84	13.58	8.52
11					10.68	8.03	11.33	8.66	11.66	8.52	12.02	8.39	12.75	8.81	13.47	8.50
13					10.59	8.00	11.23	8.63	11.56	8.49	11.92	8.36	12.64	8.79	13.36	8.48
15					10.50	7.97	11.13	8.60	11.45	8.46	11.81	8.33	12.54	8.77	13.26	8.46
17					10.34	7.92	10.98	8.55	11.30	8.42	11.65	8.29	12.37	8.73	13.08	8.42
19					10.21	7.87	10.82	8.51	11.14	8.38	11.49	8.25	12.20	8.69	12.90	8.39
21					10.10	7.83	10.71	8.47	11.02	8.34	11.36	8.22	12.03	8.66	12.71	8.35
23					9.98	7.80	10.59	8.44	10.90	8.31	11.22	8.18	11.87	8.62	12.52	8.32
25			9.35	8.12	9.93	7.78	10.53	8.42	10.83	8.29	11.15	8.16	11.79	8.60	12.43	8.30
27			9.30	8.11	9.87	7.76	10.47	8.40	10.77	8.28	11.27	8.19	11.77	8.60		
29			9.12	8.04	9.70	7.71	10.29	8.35	10.58	8.23	11.10	8.15	11.63	8.57		
31			8.94	7.98	9.53	7.65	10.10	8.30	10.39	8.17	10.94	8.11	11.48	8.54		
33	8.48	7.43	8.77	7.92	9.35	7.59	9.92	8.25	10.19	8.12	10.77	8.07	11.34	8.51		
35	8.22	7.33	8.55	7.84	9.18	7.54	9.74	8.20	10.00	8.07	10.60	8.03	11.20	8.47		
37	7.99	7.24	8.33	7.76	8.97	7.47	9.53	8.14	9.80	8.02	10.37	7.97	10.93	8.42		
39	7.76	7.15	8.11	7.69	8.76	7.41	9.33	8.08	9.60	7.97	10.14	7.91	10.67	8.36		
41	7.53	7.06	7.89	7.61	8.55	7.34	9.12	8.02	9.40	7.92	9.90	7.86	10.41	8.31		
43	7.30	6.98	7.68	7.52	8.34	7.28	8.91	7.97	9.20	7.87	9.67	7.80	10.15	8.26		
46	6.78	6.65	7.16	7.02	7.83	7.12	8.44	7.84	8.75	7.75	9.24	7.70	9.73	8.17		
50	6.27	6.14	6.64	6.51	7.32	6.97	7.96	7.72	8.30	7.64	8.81	7.60	9.32	8.09		

Outo	door		Indoor	air temp	erature	
air te	emp.			°CDB		
°CDB	°CWB	16	18	20	22	24
-19.8	-20	10.06	9.87	9.70	9.53	9.35
-17.7	-18	10.14	9.98	9.82	9.65	9.47
-15.7	-16	10.23	10.08	9.94	9.77	9.59
-13.5	-14	10.55	10.37	10.20	10.01	9.81
-11.5	-12	11.14	10.93	10.70	10.47	10.23
-9.5	-10	11.31	11.25	11.20	10.95	10.71
-7.5	-8	11.31	11.25	11.20	10.96	10.73
-5.5	-6	11.31	11.25	11.20	10.96	10.73
-3.0	-4	11.31	11.25	11.20	10.96	10.73
-1.0	-2	11.31	11.25	11.20	10.96	10.73
1.0	0	11.31	11.25	11.20	10.96	10.73
2.0	1	11.31	11.25	11.20	10.96	10.73
3.0	2	11.31	11.25	11.20	10.96	10.73
5.0	4	11.31	11.25	11.20	10.96	10.73
7.0	6	11.31	11.25	11.20	10.96	10.73
9.0	8	11.85	11.78	11.70	11.47	11.24
11.5	10	12.39	12.30	12.21	11.98	11.76
13.5	12	12.94	12.88	12.82	12.66	12.49
15.5	14	13.49	13.46	13.43	13.33	13.22
16.5	16	13.77	13.75	13.74	13.66	13.59

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Model FDT100VSXWVH

Cooling mode

Indoor unit FDT100VH

Outdoor unit FDC100VSX-W

(kW)

							Inde	oor air t	empera	ture						
Outdoor air temp.	18 °	CDB	21 °C	CDB	23 °	CDB	26 °	CDB	27 °	CDB	28 °	CDB	31 °	CDB	33 °	CDB
an tomp.	12 °C	CWB	14 °C	CWB	16 °C	CWB	18 °C	CWB	19 °C	CWB	20 °C	CWB	22 °C	CWB	24 °C	CWB
°CDB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
-15							11.26	8.63	11.76	8.55	12.09	8.41	12.75	8.82	13.41	8.48
-10							11.26	8.63	11.76	8.55	12.09	8.41	12.75	8.82	13.41	8.48
-5							11.26	8.63	11.76	8.55	12.09	8.41	12.75	8.82	13.41	8.48
0					10.51	7.97	11.35	8.66	11.76	8.55	12.11	8.41	12.80	8.83	13.49	8.50
5					10.77	8.06	11.43	8.68	11.76	8.55	12.13	8.42	12.85	8.84	13.58	8.52
11					10.68	8.03	11.33	8.66	11.66	8.52	12.02	8.39	12.75	8.81	13.47	8.50
13					10.59	8.00	11.23	8.63	11.56	8.49	11.92	8.36	12.64	8.79	13.36	8.48
15					10.50	7.97	11.13	8.60	11.45	8.46	11.81	8.33	12.54	8.77	13.26	8.46
17					10.34	7.92	10.98	8.55	11.30	8.42	11.65	8.29	12.37	8.73	13.08	8.42
19					10.21	7.87	10.82	8.51	11.14	8.38	11.49	8.25	12.20	8.69	12.90	8.39
21					10.10	7.83	10.71	8.47	11.02	8.34	11.36	8.22	12.03	8.66	12.71	8.35
23					9.98	7.80	10.59	8.44	10.90	8.31	11.22	8.18	11.87	8.62	12.52	8.32
25			9.35	8.12	9.93	7.78	10.53	8.42	10.83	8.29	11.15	8.16	11.79	8.60	12.43	8.30
27			9.30	8.11	9.87	7.76	10.47	8.40	10.77	8.28	11.27	8.19	11.77	8.60		
29			9.12	8.04	9.70	7.71	10.29	8.35	10.58	8.23	11.10	8.15	11.63	8.57		
31			8.94	7.98	9.53	7.65	10.10	8.30	10.39	8.17	10.94	8.11	11.48	8.54		
33	8.48	7.43	8.77	7.92	9.35	7.59	9.92	8.25	10.19	8.12	10.77	8.07	11.34	8.51		
35	8.22	7.33	8.55	7.84	9.18	7.54	9.74	8.20	10.00	8.07	10.60	8.03	11.20	8.47		
37	7.99	7.24	8.33	7.76	8.97	7.47	9.53	8.14	9.80	8.02	10.37	7.97	10.93	8.42		
39	7.76	7.15	8.11	7.69	8.76	7.41	9.33	8.08	9.60	7.97	10.14	7.91	10.67	8.36		
41	7.53	7.06	7.89	7.61	8.55	7.34	9.12	8.02	9.40	7.92	9.90	7.86	10.41	8.31		
43	7.30	6.98	7.68	7.52	8.34	7.28	8.91	7.97	9.20	7.87	9.67	7.80	10.15	8.26		
46	6.78	6.65	7.16	7.02	7.83	7.12	8.44	7.84	8.75	7.75	9.24	7.70	9.73	8.17		
50	6.27	6.14	6.64	6.51	7.32	6.97	7.96	7.72	8.30	7.64	8.81	7.60	9.32	8.09		

Out	door		Indoor	air temp	erature	:
air te	emp.			°CDB		
°CDB	°CWB	16	18	20	22	24
-19.8	-20	10.22	9.96	9.70	9.40	9.10
-17.7	-18	10.76	10.60	10.45	10.16	9.88
-15.7	-16	11.31	11.25	11.19	10.92	10.65
-13.5	-14	11.31	11.25	11.19	10.93	10.67
-11.5	-12	11.31	11.25	11.20	10.94	10.69
-9.5	-10	11.31	11.25	11.20	10.95	10.71
-7.5	-8	11.31	11.25	11.20	10.96	10.73
-5.5	-6	11.31	11.25	11.20	10.96	10.73
-3.0	-4	11.31	11.25	11.20	10.96	10.73
-1.0	-2	11.31	11.25	11.20	10.96	10.73
1.0	0	11.31	11.25	11.20	10.96	10.73
2.0	1	11.31	11.25	11.20	10.96	10.73
3.0	2	11.31	11.25	11.20	10.96	10.73
5.0	4	11.31	11.25	11.20	10.96	10.73
7.0	6	11.31	11.25	11.20	10.96	10.73
9.0	8	11.85	11.78	11.70	11.47	11.24
11.5	10	12.39	12.30	12.21	11.98	11.76
13.5	12	12.94	12.88	12.82	12.66	12.49
15.5	14	13.49	13.46	13.43	13.33	13.22
16.5	16	13.77	13.75	13.74	13.66	13.59

(kW) Heating mode:HC

PJF000Z588

Notes(1) These data show average status.

Depending on the system control, there may be ranges where the operation is not conducted continuously.

These data show the case where the operation frequency of a compressor is fixed.

In the heating mode in which the outside air temperature is 0°CDB or less, the compressor operates at maximum frequency.

(2) Capacities are based on the following conditions

Corresponding refrigerant piping length :7.5m Level difference of Zero.

(3) Symbols are as follows TC: Total cooling capacity (kW) SHC: Sensible heat capacity (kW) HC: Heating capacity (kW)

PJF000Z588 /A

Indoor unit FDT125VH Outdoor unit FDC125VNX-W Model FDT125VNXWVH (kW) (kW) Indoor air temperature Indoor air temperature Outdoor Outdoo 18 °CDB 21 °CDB 23 °CDB 26 °CDB 27 °CDB 28 °CDB 31 °CDB 33 °CDB air temp. °CDB air temp 12 °CWB 14 °CWB 16 °CWB 19 °CWB 20 °CWB 22 °CWB °CDB CWF 18 °CWB 24 °CWB 16 18 20 22 24 °CDB TC TC SHC TC SHC SHC TC SHC TC SHC тс SHC TC SHC 19.8 10.00 9.82 9.64 SHC TC -20 10.37 10.18 11.89 9.17 12.37 9.08 12.71 8.94 13.39 9.38 14.07 9.05 -17.7 -18 10.43 10.26 10.10 9.92 9.74 -10 11.89 9.17 12.71 14.07 9.05 -15.7 10.34 12.37 9.08 8.94 13.39 9.38 -16 10.49 10.19 10.02 9.84 -5 0 11.95 9.19 13.67 9.44 14.40 9.12 -13.5 -14 10.79 10.61 10.44 10.04 9.14 12.94 9.01 10.24 10.68 11 69 12.71 9.43 13.61 9 20 14 40 9.63 15.19 9.29 11 15 10 44 5 12.68 9.04 13.46 9.68 13.85 9.54 14.28 9.40 15.14 9.82 15.99 9.47 -9.5 -10 11.96 11.68 11.40 11.12 10.84 11.23 11.72 11 12.84 9.10 13.62 9.73 14.01 9.59 14.44 9.44 15.31 9.87 16.18 9.52 -7.5 -8 12.55 12.22 11.88 11.56 12.90 12.63 12.03 13 12.99 9.15 13.77 9.78 14.16 9.63 14.60 9.49 15.49 9.91 16.38 9.56 15 16.57 9.61 -3.0 13.04 12.51 12.20 13.14 9.21 13.92 9.83 9.54 13.25 17 12 94 9.14 13.73 9.77 14.12 9.62 14 57 9.48 15.46 9.90 16.35 9.56 -1 0 13 61 13 45 13 29 12 99 12 69 19 12.76 9.07 13.53 9.70 13.93 9.56 14.37 9.42 15.24 9.85 16.12 9.50 1.0 0 13.96 13.86 13.76 13.47 13.17 13.77 14.13 14.07 14.00 13.71 13.41 21 12.62 9.02 13.38 9.65 9.51 14.20 9.37 15.04 9.80 15.89 9.45 2.0 1 23 12.48 8.97 13.23 9.60 13.62 9.46 14.03 9.32 14.84 9.74 15.65 9.40 3.0 14.13 14.07 14.00 25 27 14.00 11.69 9.31 12.41 8.94 13.16 9.58 13.54 9 44 13.94 9.29 14.74 9.72 15.54 9.37 5.0 4 14.13 14.07 13.71 13.41 11 62 9 28 12 34 8 91 13.08 9.55 13.46 9 41 14 09 9.34 14 71 9 71 7.0 6 14 13 14.07 14 00 13 71 13 41 9.19 14.81 14.72 14.63 14.34 14.06 29 11.40 12.12 8.84 12.86 9.48 13.22 9.34 13.88 9.28 14.53 9.66 9.0 8 31 11.17 9.10 8.76 12.63 9.41 12.98 9.27 14.35 11.5 10 15.49 15.37 14.98 14.70 11.91 13.67 9.22 9.62 15.26 10.36 10.84 8.97 11.69 8.68 12.40 9.33 16.18 16.10 16.02 15.74 15.45 9.19 15.5 10.33 8.44 10.71 8.92 11.47 8.60 12.18 9.26 12.50 9.12 13.25 9.09 14.00 9.53 14 16.87 16.83 16.79 16.49 16.20 37 10.03 8.32 10.43 8.81 11.21 8.51 11.92 9.18 12.25 9.05 12.96 9.01 13.67 9.45 | 17.21 **|** 17.19 **|** 17.17 **|** 16.87 **|** 16.57 39 9.73 8.19 10.16 8.71 10.95 8.42 11.66 9.10 12.00 8.97 12.67 8.93 13.34 9.36 9.43 8.06 9.88 8.60 10.68 8.33 11.40 9.02 11.75 8.90 12.38 8.85 13.01 9.28 43 9.13 7.94 9.60 8.49 10.42 8.24 11.14 8.94 11.50 8.82 12.09 8.77 12.69 46 8.49 7.68 8.96 8.26 9.81 8.03 10.44 8.72 10.70 8.60 11.08 8.50 11.47 8.92 PJF000Z588 ∕A 9.74 8.52

Model F	DT125	vsxw	VH		Indoor	unit F	DT125	VH			Outdoo	or unit	FDC1	25VSX	-W								
Cooling m	node															(kW)	Heatin	g mode:	HC				(kW)
							Ind	oor air t	empera	ture							Ou	door		Indoor	air temp	perature	
Outdoor	18°	CDB	21 °	CDB	23 °	CDB	26 °	CDB	27 °	CDB	28 °	CDB	31 °	CDB	33 °	CDB	air	emp.			°CDB		
air temp.	12 °	CWB	14 °	CWB	16 °	CWB	18 °	CWB	19 °	CWB	20 °	CWB	22 °	CWB	24 °(CWB	°CDB	°CWB	16	18	20	22	24
°CDB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	-19.8	-20	11.30	11.10	10.90	10.70	10.50
-15							11.89	9.17	12.37	9.08	12.71	8.94	13.39	9.38	14.07	9.05	-17.7	-18	11.98	11.75	11.52	11.34	11.16
-10							11.89	9.17	12.37	9.08	12.71	8.94	13.39	9.38	14.07	9.05	-15.7	-16	12.63	12.45	12.27	12.05	11.84
-5							11.95	9.19	12.57	9.14	12.94	9.01	13.67	9.44	14.40	9.12	-13.5	-14	12.84	12.68	12.51	12.29	12.06
0					11.69	8.68	12.71	9.43	13.21	9.34	13.61	9.20	14.40	9.63	15.19	9.29	-11.5	-12	13.27	13.14	13.01	12.76	12.51
5					12.68	9.04	13.46	9.68	13.85	9.54	14.28	9.40	15.14	9.82	15.99	9.47	-9.5	-10	14.13	14.07	14.00	13.71	13.41
11					12.84	9.10	13.62	9.73	14.01	9.59	14.44	9.44	15.31	9.87	16.18	9.52	-7.5	-8	14.13	14.07	14.00	13.71	13.41
13					12.99	9.15	13.77	9.78	14.16	9.63	14.60	9.49	15.49	9.91	16.38	9.56	-5.5	-6	14.13	14.07	14.00	13.71	13.41
15					13.14	9.21	13.92	9.83	14.31	9.68	14.77	9.54	15.67	9.96	16.57	9.61	-3.0	-4	14.13	14.07	14.00	13.71	13.41
17					12.94	9.14	13.73	9.77	14.12	9.62	14.57	9.48	15.46	9.90	16.35	9.56	-1.0	-2	14.13	14.07	14.00	13.71	13.41
19					12.76	9.07	13.53	9.70	13.93	9.56	14.37	9.42	15.24	9.85	16.12	9.50	1.0	0	14.13	14.07	14.00	13.71	13.41
21					12.62	9.02	13.38	9.65	13.77	9.51	14.20	9.37	15.04	9.80	15.89	9.45	2.0	1	14.13	14.07	14.00	13.71	13.41
23					12.48	8.97	13.23	9.60	13.62	9.46	14.03	9.32	14.84	9.74	15.65	9.40	3.0	2	14.13	14.07	14.00	13.71	13.41
25			11.69	9.31	12.41	8.94	13.16	9.58	13.54	9.44	13.94	9.29	14.74	9.72	15.54	9.37	5.0	4	14.13	14.07	14.00	13.71	13.41
27			11.62	9.28	12.34	8.91	13.08	9.55	13.46	9.41	14.09	9.34	14.71	9.71			7.0	6	14.13	14.07	14.00	13.71	13.41
29			11.40	9.19	12.12	8.84	12.86	9.48	13.22	9.34	13.88	9.28	14.53	9.66			9.0	8	14.81	14.72	14.63	14.34	14.06
31			11.17	9.10	11.91	8.76	12.63	9.41	12.98	9.27	13.67	9.22	14.35	9.62			11.5	10	15.49	15.37	15.26	14.98	14.70
33	10.36	8.46	10.84	8.97	11.69	8.68	12.40	9.33	12.74	9.19	13.46	9.15	14.18	9.57			13.5	12	16.18	16.10	16.02	15.74	15.45
35	10.33	8.44	10.71	8.92	11.47	8.60	12.18	9.26	12.50	9.12	13.25	9.09	14.00	9.53			15.5	14	16.87	16.83	16.79	16.49	16.20
37	10.03	8.32	10.43	8.81	11.21	8.51	11.92	9.18	12.25	9.05	12.96	9.01	13.67	9.45			16.5	16	17.21	17.19	17.17	16.87	16.57
39	9.73	8.19	10.16	8.71	10.95	8.42	11.66	9.10	12.00	8.97	12.67	8.93	13.34	9.36									
41	9.43	8.06	9.88	8.60	10.68	8.33	11.40	9.02	11.75	8.90	12.38	8.85	13.01	9.28									
43	9.13	7.94	9.60	8.49	10.42	8.24	11.14	8.94	11.50	8.82	12.09	8.77	12.69	9.21				_					

11.08 8.50

11.47 8.92

10.08 8.24 10.26 8.65

7.42 Notes(1) These data show average status

7.85

9.74 8.52 9.90 8.37 Depending on the system control, there may be ranges where the operation is not conducted continuously These data show the case where the operation frequency of a compressor is fixed.

10.44 8.72 10.70 8.60

In the heating mode in which the outside air temperature is 0°CDB or less, the compressor operates at maximum frequency.

(2) Capacities are based on the following conditions Corresponding refrigerant piping length :7.5m Level difference of Zero.

8.33 8.03 9.19 7.83

(3) Symbols are as follows

TC: Total cooling capacity (kW) SHC :Sensible heat capacity (kW) HC :Heating capacity (kW)

Model F	DT140	VNXW\	/H		Indoor	unit F	DT140	VH			Outdoo	or unit	FDC14	10VNX	-W								
Cooling m	ode															(kW)	Heatir	g mode:	HC				(kW)
							Ind	oor air t	empera	ture							Oı	ıtdoor		Indoor	air temp	erature	
Outdoor air temp.	18 °	CDB	21 °	CDB	23 °	CDB	26 °	CDB	27 °	CDB	28 °	CDB	31 °	CDB	33 °	CDB	air	temp.			°CDB		
un temp.	12 °	CWB	14 °	CWB	16 °	CWB	18 °C	CWB	19 °	CWB	20 °C	CWB	22 °	CWB	24 °(CWB	°CDE	°CWB	16	18	20	22	24
°CDB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	-19.8	-20	11.01	10.95	10.90	10.66	10.42
-15							11.46	9.24	12.05	9.20	12.38	9.07	13.04	9.54	13.70	9.25	-17.7	-18	11.50	11.28	11.05	10.70	10.34
-10							11.46	9.24	12.05	9.20	12.38	9.07	13.04	9.54	13.70	9.25	-15.7	-16	12.33	12.06	11.78	11.42	11.06
-5							11.48	9.24	12.08	9.21	12.43	9.09	13.13	9.56	13.84	9.28	-13.5	-14	12.60	12.31	12.03	11.67	11.31
0					11.06	8.64	12.02	9.42	12.51	9.34	12.88	9.22	13.63	9.70	14.38	9.40	-11.5	-12	13.15	12.83	12.51	12.15	11.79
5					11.84	8.92	12.57	9.60	12.93	9.48	13.33	9.36	14.13	9.83	14.93	9.53	-9.5	-10	13.70	13.35	13.00	12.63	12.27
11					12.32	9.10	13.17	9.80	13.59	9.69	14.01	9.57	14.86	10.03	15.70	9.72	-7.5	-8	14.25	13.87	13.49	13.12	12.75
13					12.80	9.29	13.77	10.01	14.25	9.91	14.70	9.78	15.59	10.23	16.48	9.91	-5.5	-6	14.67	14.36	14.04	13.68	13.32
15					13.28	9.47	14.37	10.22	14.91	10.13	15.38	10.00	16.32	10.44	17.26	10.10	-3.0	-4	15.09	14.85	14.60	14.25	13.90
17					13.49	9.55	14.46	10.26	14.94	10.14	15.42	10.01	16.36	10.45	17.30	10.11	-1.0	-2	15.52	15.34	15.16	14.82	14.47
19					13.50	9.56	14.55	10.29	14.98	10.15	15.45	10.02	16.40	10.46	17.34	10.12	1.0	0	15.94	15.83	15.72	15.38	15.04
21					13.56	9.58	14.54	10.29	14.97	10.15	15.43	10.01	16.35	10.44	17.26	10.10	2.0	1	16.15	16.08	16.00	15.66	15.33
23					13.63	9.61	14.53	10.28	14.95	10.14	15.40	10.00	16.29	10.43	17.19	10.08	3.0	2	16.15	16.08	16.00	15.66	15.33
25			12.78	9.95	13.66	9.62	14.52	10.28	14.95	10.14	15.39	10.00	16.27	10.42	17.15	10.07	5.0	4	16.15	16.08	16.00	15.66	15.33
27			12.89	9.99	13.69	9.63	14.52	10.28	14.94	10.14	15.63	10.08	16.33	10.44			7.0	6	16.15	16.08	16.00	15.66	15.33
29			12.64	9.89	13.45	9.54	14.28	10.19	14.70	10.06	15.42	10.01	16.13	10.38			9.0	8	16.93	16.82	16.72	16.39	16.06
31			12.39	9.78	13.21	9.45	14.05	10.11	14.47	9.98	15.20	9.94	15.93	10.32			11.5	10	17.70	17.57	17.44	17.12	16.80
33	10.35	8.60	11.45	9.39	12.97	9.35	13.81	10.03	14.24	9.90	14.98	9.87	15.73	10.27			13.5	12	18.49	18.28	18.08	17.43	16.78
35	10.27	8.57	11.29	9.32	12.73	9.26	13.57	9.95	14.00	9.82	14.76	9.80	15.53	10.21			15.5	14	19.27	19.00	18.72	17.74	16.75
37	10.21	8.54	11.14	9.26	12.48	9.16	13.31	9.85	13.73	9.74	14.47	9.71	15.21	10.12			16.5	16	19.67	19.36	19.04	17.89	16.74
39	10.15	8.52	10.98	9.20	12.22	9.07	13.05	9.76	13.46	9.65	14.18	9.62	14.89	10.04									
41	10.10	8.49	10.83	9.13	11.97	8.97	12.78	9.67	13.19	9.56	13.89	9.53	14.58	9.95		\vdash							
43	10.04	8.46	10.68	9.07	11.72	8.88	12.52	9.59	12.92	9.48	13.59	9.44	14.26	9.86		\vdash							_
46	9.24	8.12	9.77	8.71	10.56	8.46	11.11	9.12	11.40	9.00	11.83	8.91	12.25	9.34		\vdash		F	PJF	000	Z58	8 /	H/
50	8.45	7.79	8.86	8.36	9.40	8.05	9.71	8.68	9.88	8.55	10.06	8.42	10.24	8.85				Ľ					

Cooling m	node															(kW)	Heating	mode:l	HC				(kW
							Inde	oor air t	empera	ture							Out	door		Indoor	air temp	erature	;
Outdoor air temp.	18 °	CDB	21 °	CDB	23 °	CDB	26 °	CDB	27 °	CDB	28 °	CDB	31 °	CDB	33 °	CDB	air t	emp.			°CDB		
all temp.	12 °C	CWB	14 °(CWB	16 °0	CWB	18 °C	CWB	19 °	CWB	20 °C	CWB	22 °C	CWB	24 °	CWB	°CDB	°CWB	16	18	20	22	24
°CDB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	-19.8	-20	12.26	12.08	11.90	11.84	11.77
-15							11.46	9.24	12.05	9.20	12.38	9.07	13.04	9.54	13.70	9.25	-17.7	-18	13.37	13.22	13.07	12.83	12.59
-10							11.46	9.24	12.05	9.20	12.38	9.07	13.04	9.54	13.70	9.25	-15.7	-16	14.48	14.36	14.24	13.82	13.40
-5							11.48	9.24	12.08	9.21	12.43	9.09	13.13	9.56	13.84	9.28	-13.5	-14	14.76	14.63	14.49	14.11	13.72
0					11.06	8.64	12.02	9.42	12.51	9.34	12.88	9.22	13.63	9.70	14.38	9.40	-11.5	-12	15.34	15.17	15.00	14.68	14.36
5					11.84	8.92	12.57	9.60	12.93	9.48	13.33	9.36	14.13	9.83	14.93	9.53	-9.5	-10	15.91	15.70	15.50	15.25	15.00
11					12.32	9.10	13.17	9.80	13.59	9.69	14.01	9.57	14.86	10.03	15.70	9.72	-7.5	-8	16.48	16.24	16.00	15.82	15.64
13					12.80	9.29	13.77	10.01	14.25	9.91	14.70	9.78	15.59	10.23	16.48	9.91	-5.5	-6	16.48	16.24	16.00	15.82	15.64
15					13.28	9.47	14.37	10.22	14.91	10.13	15.38	10.00	16.32	10.44	17.26	10.10	-3.0	-4	16.48	16.24	16.00	15.82	15.64
17					13.49	9.55	14.46	10.26	14.94	10.14	15.42	10.01	16.36	10.45	17.30	10.11	-1.0	-2	16.48	16.24	16.00	15.82	15.64
19					13.50	9.56	14.55	10.29	14.98	10.15	15.45	10.02	16.40	10.46	17.34	10.12	1.0	0	16.48	16.24	16.00	15.82	15.64
21					13.56	9.58	14.54	10.29	14.97	10.15	15.43	10.01	16.35	10.44	17.26	10.10	2.0	1	16.48	16.24	16.00	15.82	15.64
23					13.63	9.61	14.53	10.28	14.95	10.14	15.40	10.00	16.29	10.43	17.19	10.08	3.0	2	16.48	16.24	16.00	15.82	15.64
25			12.78	9.95	13.66	9.62	14.52	10.28	14.95	10.14	15.39	10.00	16.27	10.42	17.15	10.07	5.0	4	16.48	16.24	16.00	15.82	15.64
27			12.89	9.99	13.69	9.63	14.52	10.28	14.94	10.14	15.63	10.08	16.33	10.44			7.0	6	16.48	16.24	16.00	15.82	15.64
29			12.64	9.89	13.45	9.54	14.28	10.19	14.70	10.06	15.42	10.01	16.13	10.38			9.0	8	17.27	17.08	16.90	16.64	16.39
31			12.39	9.78	13.21	9.45	14.05	10.11	14.47	9.98	15.20	9.94	15.93	10.32		\Box	11.5	10	18.06	17.93	17.79	17.47	17.14
33	10.35	8.60	11.45	9.39	12.97	9.35	13.81	10.03	14.24	9.90	14.98	9.87	15.73	10.27		\square	13.5	12	18.86	18.66	18.45	17.78	17.12
35	10.27	8.57	11.29	9.32	12.73	9.26	13.57	9.95	14.00	9.82	14.76	9.80	15.53	10.21		\square	15.5	14	19.67	19.39	19.10	18.10	17.09
37	10.21	8.54	11.14	9.26	12.48	9.16	13.31	9.85	13.73	9.74	14.47	9.71	15.21	10.12		\square	16.5	16	20.07	19.75	19.43	18.26	17.08
39	10.15	8.52	10.98	9.20	12.22	9.07	13.05	9.76	13.46	9.65	14.18	9.62	14.89	10.04		$\vdash \vdash \vdash$							
41	10.10	8.49	10.83	9.13	11.97	8.97	12.78	9.67	13.19	9.56	13.89	9.53	14.58	9.95		\vdash							

Notes(1) These data show average status.

10.04 8.46

9.24 8.12

43

Depending on the system control, there may be ranges where the operation is not conducted continuously.

 10.68
 9.07
 11.72
 8.88
 12.52
 9.59

 9.77
 8.71
 10.56
 8.46
 11.11
 9.12

8.45 7.79 8.86 8.36 9.40 8.05 9.71 8.68 9.88 8.55

These data show the case where the operation frequency of a compressor is fixed.

In the heatin mode in which the outside air tem erature is 0°CDB or less, the com ressor o erates at maximum fre uenc.

(2) Capacities are based on the following conditions.

12.92 9.48

11.40 9.00

13.59

11.83 8.91

10.06 8.42

9.44 14.26

9.86

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12.25 9.34

(2) Capacities are based on the following condition
 Corresponding refrigerant piping length: 7.5m
 Level difference of Zero.
 (3) Symbols are as follows
 TC: Total cooling capacity (kW)
 SHC: Sensible heat capacity (kW)
 HC: Heating capacity (kW)

-123 -

(b) Twin type

Cooling mode

33

35

37

39

Model FDT100VNXWPVH

Indoor unit FDT50VH (2 units)

Outdoor unit FDC100VNX-W

Indoor air temperature Outdoo 18 °CDB 21 °CDB 23 °CDB 26 °CDB 27 °CDB 28 °CDB 31 °CDB 33 °CDB air temp 12 °CWB 14 °CWB 19 °CWB 20 °CWB 22 °CWB 16 °CWB 18 °CWB 24 °CWB SHC °CDB TC SHC SHC TC SHC SHC TC SHC TC TC -15 11.26 9.31 11.76 9.19 12.09 9.03 12.75 9.53 13.41 9.15 -10 9.31 9.03 9.15 -5 11.26 9.31 11.76 9.19 12.09 9.03 12.75 9.53 13.41 9.15 0 10.51 8.53 11.35 9.33 11.76 9.19 12.11 9.03 12.80 9.54 13.49 9.16 10.77 8.60 11.76 9.19 12.85 9.55 9.18 11.43 9.35 12.13 9.04 13.58 11 10.68 8.58 11.33 9.33 11.66 9.17 12.02 9.01 12.75 9.53 9.16 13 10.59 8.55 11.23 9.30 11.56 9.15 11.92 8.99 12.64 9.51 13.36 9.15 15 10.50 8.53 11.13 9.28 11.45 9.12 11.81 8.97 12.54 9.49 13.26 9.13 17 10.34 8.48 10.98 9.24 11.30 9.09 11.65 8.94 12.37 9.46 9.11 13.08 11.14 9.05 19 10.21 8.44 11.49 8.90 10.82 9.20 12.20 21 10 10 8 41 10.71 9 1 7 11 02 9 02 11.36 8 87 12 03 9 40 12 71 9 05 23 10.59 9.14 10.90 9.00 9.98 8.38 11.22 8.85 11.87 9.38 12.52 9.03 25 27 9.35 8.78 9.93 8.37 10.53 9.13 10.83 8.98 8.83 11.79 9.36 11.15 12.43 9.02 9.87 10.47 9.11 8.86 29 9.12 8.70 9.70 8.30 10.29 9.07 10.58 8.93 11,10 8.82 11.63 9.33 31 8.94 8.65 9.53 8.25 10.10 9.03 10.39 8.88 10.94 8.79 11.48 9.31

(kW)	ı	Heating	mode:l	HC				(kW)
		Oute	door		Indoor	air temp	erature)
DB		air te	emp.			°CDB		
WB		°CDB	°CWB	16	18	20	22	24
SHC		-19.8	-20	10.06	9.87	9.70	9.53	9.35
9.15		-17.7	-18	10.14	9.98	9.82	9.65	9.47
9.15		-15.7	-16	10.23	10.08	9.94	9.77	9.59
9.15		-13.5	-14	10.55	10.37	10.20	10.01	9.81
9.16		-11.5	-12	11.14	10.93	10.70	10.47	10.23
9.18		-9.5	-10	11.31	11.25	11.20	10.95	10.71
9.16		-7.5	-8	11.31	11.25	11.20	10.96	10.73
9.15		-5.5	-6	11.31	11.25	11.20	10.96	10.73
9.13		-3.0	-4	11.31	11.25	11.20	10.96	10.73
9.11		-1.0	-2	11.31	11.25	11.20	10.96	10.73
9.08		1.0	0	11.31	11.25	11.20	10.96	10.73
9.05		2.0	1	11.31	11.25	11.20	10.96	10.73
9.03		3.0	2	11.31	11.25	11.20	10.96	10.73
9.02		5.0	4	11.31	11.25	11.20	10.96	10.73
		7.0	6	11.31	11.25	11.20	10.96	10.73
		9.0	8	11.85	11.78	11.70	11.47	11.24
		11.5	10	12.39	12.30	12.21	11.98	11.76
		13.5	12	12.94	12.88	12.82	12.66	12.49
	ı	15.5	14	13 49	13 46	13 43	13 33	13 22

PJF000Z588 /A

16.5 16 13.77 13.75 13.74 13.66 13.59

Model FDT100VSXWPVH Cooling mode

8.48 8.00

8.22 7.91

7.99 7.82

7.76 7.60

7.53 7.38

7.30 7.15

6.78 6.65

8.77 8.59

8.55 8.38

8.33 8.16

8.11 7.95

7.89 7.74

7.68 7.52

7.16 7.02

9.35 8.21

9.18 8.16

8.97 8.10

8.76 8.05

8.55 7.99

8.34 7.93

7.83 7.67

Indoor unit FDT50VH (2 units)

9.92 8.98

9.74 8.94

9.53 8.89

9.33 8.84

8.91 8.73

8.44 8.27 8.75 8.54

9.12 8.80

10.19 8.84

10.00 8.80

9.40 8.67

9.80 8.76

9.60 8.71

9.20 8.63 9.67 8.54

10.77 8.75

10.60

10.37 8.67

10.14 8.63

9.90

9.24 8.45 9.73 9.03

8.72

8.58

Outdoor unit FDC100VSX-W

11.34 9.29

11.20 9.26

10.93 9.22

10.67 9.18

10.41 9.13

10.15 9.09

(kW)

0.44							Ind	oor air t	empera	ture						
Outdoor air temp.	18 °	CDB	21 °	CDB	23 °	CDB	26 °	CDB	27 °	CDB	28 °	CDB	31 °	CDB	33 °	CDB
un tomp.	12 °	CWB	14 °	CWB	16 °	CWB	18 °	CWB	19 °	CWB	20 °	CWB	22 °	CWB	24 °C	CWB
°CDB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
-15							11.26	9.31	11.76	9.19	12.09	9.03	12.75	9.53	13.41	9.15
-10							11.26	9.31	11.76	9.19	12.09	9.03	12.75	9.53	13.41	9.15
-5							11.26	9.31	11.76	9.19	12.09	9.03	12.75	9.53	13.41	9.15
0					10.51	8.53	11.35	9.33	11.76	9.19	12.11	9.03	12.80	9.54	13.49	9.16
5					10.77	8.60	11.43	9.35	11.76	9.19	12.13	9.04	12.85	9.55	13.58	9.18
11					10.68	8.58	11.33	9.33	11.66	9.17	12.02	9.01	12.75	9.53	13.47	9.16
13					10.59	8.55	11.23	9.30	11.56	9.15	11.92	8.99	12.64	9.51	13.36	9.15
15					10.50	8.53	11.13	9.28	11.45	9.12	11.81	8.97	12.54	9.49	13.26	9.13
17					10.34	8.48	10.98	9.24	11.30	9.09	11.65	8.94	12.37	9.46	13.08	9.11
19					10.21	8.44	10.82	9.20	11.14	9.05	11.49	8.90	12.20	9.43	12.90	9.08
21					10.10	8.41	10.71	9.17	11.02	9.02	11.36	8.87	12.03	9.40	12.71	9.05
23					9.98	8.38	10.59	9.14	10.90	9.00	11.22	8.85	11.87	9.38	12.52	9.03
25			9.35	8.78	9.93	8.37	10.53	9.13	10.83	8.98	11.15	8.83	11.79	9.36	12.43	9.02
27			9.30	8.76	9.87	8.35	10.47	9.11	10.77	8.97	11.27	8.86	11.77	9.36		
29			9.12	8.70	9.70	8.30	10.29	9.07	10.58	8.93	11.10	8.82	11.63	9.33		
31			8.94	8.65	9.53	8.25	10.10	9.03	10.39	8.88	10.94	8.79	11.48	9.31		
33	8.48	8.00	8.77	8.59	9.35	8.21	9.92	8.98	10.19	8.84	10.77	8.75	11.34	9.29		
35	8.22	7.91	8.55	8.38	9.18	8.16	9.74	8.94	10.00	8.80	10.60	8.72	11.20	9.26		
37	7.99	7.82	8.33	8.16	8.97	8.10	9.53	8.89	9.80	8.76	10.37	8.67	10.93	9.22		
39	7.76	7.60	8.11	7.95	8.76	8.05	9.33	8.84	9.60	8.71	10.14	8.63	10.67	9.18		
41	7.53	7.38	7.89	7.74	8.55	7.99	9.12	8.80	9.40	8.67	9.90	8.58	10.41	9.13		
43	7.30	7.15	7.68	7.52	8.34	7.93	8.91	8.73	9.20	8.63	9.67	8.54	10.15	9.09		
46	6.78	6.65	7.16	7.02	7.83	7.67	8.44	8.27	8.75	8.54	9.24	8.45	9.73	9.03		<u></u>
50	6.27	6.14	6.64	6.51	7.32	7.18	7.96	7.80	8.30	8.13	8.81	8.37	9.32	8.96		

Out	door		Indoor	air temperature						
air te	emp.			°CDB						
°CDB	°CWB	16	18	20	22	24				
-19.8	-20	10.22	9.96	9.70	9.40	9.10				
-17.7	-18	10.76	10.60	10.45	10.16	9.88				
-15.7	-16	11.31	11.25	11.19	10.92	10.65				
-13.5	-14	11.31	11.25	11.19	10.93	10.67				
-11.5	-12	11.31								
-9.5	-10	11.31								
-7.5	-8	11.31								
-5.5	-6	11.31								
-3.0	-4	11.31	11.25	11.20	10.96	10.73				
-1.0	-2	11.31	11.25	11.20	10.96	10.73				
1.0	0	11.31	11.25	11.20	10.96	10.73				
2.0	1	11.31	11.25	11.20	10.96	10.73				
3.0	2	11.31	11.25	11.20	10.96	10.73				
5.0	4	11.31	11.25	11.20	10.96	10.73				
7.0	6	11.31	11.25	11.20	10.96	10.73				
9.0	8	11.85 11.78 11.70 11.47 11.24								
11.5	10	12.39 12.30 12.21 11.98 11.76								
13.5	12	12.94 12.88 12.82 12.66 12.49								
15.5	14	13.49	13.46	13.43	13.33	13.22				
16.5	16	13.77	13.75	13.74	13.66	13.59				

(kW) Heating mode:HC

PJF000Z588 /A

Notes(1) These data show average status.

Depending on the system control, there may be ranges where the operation is not conducted continuously.

These data show the case where the operation frequency of a compressor is fixed.

In the heating mode in which the outside air temperature is 0°CDB or less, the compressor operates at maximum frequency.

(2) Capacities are based on the following conditions.

Corresponding refrigerant piping length :7.5m

Level difference of Zero.
(3) Symbols are as follows

TC: Total cooling capacity (kW) SHC :Sensible heat capacity (kW) HC :Heating capacity (kW)

Indoor unit FDT60VH (2 units) Outdoor unit FDC125VNX-W Model FDT125VNXWPVH (kW) (kW) Cooling mode Indoor air temperature Indoor air temperature Outdoo air temp 18 °CDB 21 °CDB 23 °CDB 27 °CDB 28 °CDB 31 °CDB 33 °CDB 26 °CDB air tem 14 °CWB 16 °CWB 20 °CWB 24 °CWB 12 °CWB 18 °CWB 19 °CWB 22 °CWB CDB 24 °CDB TC SHC 19.8 -20 10.37 10.18 10.00 9.82 9.64 11.89 11.61 11.54 11.41 13.39 12.15 14.07 11.86 -15 12.37 12.71 10.43 10.26 10.10 9.92 9.74 11.89 11.61 11.54 12.71 11.41 13.39 12.15 14.07 11.86 -15.7 10.34 10.19 10.02 9.84 12.37 10.49 11.95 11.63 12.57 11.59 12.94 11.47 13.67 12.21 14.40 11.93 -13.5 -14 10.79 10.61 10.44 10.24 10.04 11.69 10.76 11.78 14.40 12.40 -11.5 -12 11.15 10.92 10.68 10.44 12.71 11.86 13.21 13.61 11.66 15.19 12.10 11.37 5 12.68 11.11 13.46 12.10 13.85 14.28 11.85 15.14 12.58 15.99 12.28 -9.5 -10 11.68 11.40 11.12 10.84 11 12.84 11.16 13.62 12.15 14.01 12.02 14.44 11.90 15.31 12.63 16.18 12.32 -7.5 -8 12 55 12.22 11.88 11.56 11.23 13 12.99 11.22 13.77 12.20 14.16 12.07 14.60 11.94 15.49 12.67 16.38 12.37 -5.5 -6 12.90 12.63 12.35 12.03 11.72 15 13.14 11.27 13.92 12.25 14.31 12.12 14.77 11.99 15.67 12.72 16.57 12.41 -3.0 | 13.25 | 13.04 | 12.82 | 12.51 | 12.20 17 12.94 11.20 13.73 12.19 14.12 12.06 14.57 11.93 15.46 12.67 16.35 12.36 -1.0 -2 13.61 13.45 13.29 12.99 12.69 12.76 11.14 15.24 12.61 19 13.93 12.00 14.37 11.88 13.96 13.86 13.76 13.47 13.17 21 12 62 11 09 13.38 12 08 13 77 11 95 14 20 11 83 15 04 12 56 15.89 12 26 2.0 14 13 14 07 14 00 13 71 13 41 3.0 23 12.48 11.04 13.23 12.03 13.62 11.91 14.03 11.78 14.84 12.51 15.65 12.20 14.13 | 14.07 | 14.00 | 13.71 | 13.41 25 12.41 11.01 14.74 12.48 14.13 14.07 14.00 13.71 13.41 11.69 11.41 13.94 11.75 5.0 13.16 13.54 15.54 12.18 12.01 11.88 27 12.34 10.99 13.08 11.98 13.46 14.09 11.80 14.71 12.48 14.07 14.00 13.71 29 11.40 11.17 12.12 10.91 13.88 11.74 14.53 12.43 9.0 14.81 14.72 14.63 14.34 14.06 12.86 11.91 11.79 31 11.17 10.95 11.91 10.84 12.63 11.84 12.98 11.72 13.67 11.68 14.35 12.39 11.5 10 15.49 15.37 15.26 14.98 14.70 33 10.36 10.16 10.84 10.62 11.69 10.76 12.40 11.77 12.74 11.64 13.46 11.62 14.18 12.34 13.5 12 16.18 16.10 16.02 15.74 15.45 11.47 10.69 13.25 11.56 35 10.33 10.12 10.71 10.50 12.18 11.70 14.00 12.30 15.5 14 16.87 16.83 16.79 16.49 16.20 10.03 10.43 11.21 10.60 11.92 11.62 12.25 11.50 12 96 11 48 13 67 12 22 16.5 16 17.21 17.19 17.17 16.87 16.57 39 9.73 9.54 10.16 9.95 10.95 10.51 11.66 11.42 12.00 11.43 12.67 11.40 13.34 12.13 41 9.43 9.24 9.88 9.68 10.68 10.42 11.40 11.17 11.75 11.35 12.38 11.32 13.01 12.05 43 9.41 10.42 10.21 11.14 10.91 11.27 12.09 11.24 12.69 11.97 9.13 8.95 9.60 11.50 46 11.47 11.24 8.49 10.44 10.23 10.70 10.48 PJF000Z588 ∕A 9.54 10.08 9.87 50 7 85 9.01 9 74 9 90 9 70 10 26 10 05 9 1 9

Model FDT125VSXWPVH Indoor unit FDT60VH (2 units) Outdoor unit FDC125VSX-W Cooling mode Indoor air temperature Outdoo 18 °CDB 21 °CDB 23 °CDB 26 °CDB 27 °CDB 28 °CDB 31 °CDB 33 °CDB air temp 12 °CWB 14 °CWB 16 °CWB 18 °CWB 19 °CWB 20 °CWB 22 °CWB 24 °CWB °CDB TC SHC TC SHC TC SHC TC SHC TC SHC TC SHC тс І SHC TC SHC 11.54 -15 11 89 1161 12 37 1271 11 41 13 39 12.15 14 07 11.86 -10 11.89 11.61 12.37 11.54 12.71 11.41 13.39 12.15 14.07 11.86 11.95 11.63 12.57 11.59 12.94 11.47 13.67 12.21 14.40 11.93 0 13.61 11.66 14.40 12.40 11.69 10.76 12.71 11.86 11.78 15.19 12.10 13.21 14.28 11.85 15.14 12.58 12.68 11.11 13.46 12.10 11.98 15.99 12.28 12.02 14.44 11.90 11 12.84 11.16 13.62 14.01 15.31 12.63 16.18 12.32 12.15 13 12.99 11.22 13.77 12.20 14.16 12.07 14.60 11.94 15.49 12.67 16.38 12.37 13.14 11.27 14.31 14.77 11.99 15.67 12.72 13.92 12.25 12.12 16.57 12.41 17 12.94 11.20 13.73 12.19 14.12 12.06 14.57 11.93 15.46 12.67 16.35 12.36 19 12.76 11.14 13.53 12 13 13 93 12.00 14.37 11.88 15.24 12.61 16.12 12.31 21 12.62 11.09 13.38 12.08 13.77 11.95 14.20 11.83 15.04 12.56 15.89 12.26 12.48 11.04 13.23 12.03 13.62 11.91 14.03 11.78 14.84 12.51 15.65 12.20 12.41 11.01 13.54 11.88 13.94 11.75 14.74 12.48 25 13.16 12.01 12.18 12.34 10.99 11.62 11.39 13.08 11.98 13.46 11.86 14.09 11.80 14.71 12.48 29 11 40 11 17 12 12 10 91 12.86 11 91 13 22 11 79 13.88 11.74 14 53 12 43 31 11.17 10.95 11.91 10.84 12.63 11.84 12.98 11.72 13.67 11.68 14.35 12.39 33 11.69 10.76 11.77 12.74 11.64 13.46 11.62 14.18 12.34 10.36 10.16 10.84 10.62 12.40 35 10.33 10.12 10.71 10.50 12.18 12.50 11.57 13.25 11.56 14.00 12.30 10.03 10.43 10.23 11.21 10.60 12.96 11.48 13.67 12.22 9.83 11.92 11.62 12.25 11.50 39 9.73 9.54 10.16 9.95 10.95 10.51 11.66 11.42 12.00 11.43 12.67 11.40 13.34 12.13 41 9.43 9.24 9.88 9.68 10.68 10.42 11.40 11.17 11.75 11.35 12.38 11.32 13.01 12.05 10.42 10.21 9.13 9.60 9.41 10.91 11.50 11.27 12.09 11.24 12.69 11.97 43 8.95 11.14 46 8.96 8.78 9.81 9.61 10.44 10.23 10.70 10.48 11.08 10.86 11 47 11 24 8 49 8.32 8.33 8.16 9.19 9.01 9.74 9.54 9.90 9.70 10.08 9.87 10.26 10.05

(kW) Heating mode:HC (kW) Indoor air temperature air temp °CDB °CDB 20 °CWB 16 18 22 24 -19.8 -20 11.30 10.90 10.70 10.50 11.10 -177 -18 11.98 11 75 11.52 11.34 11.16 -15.7 -16 12.63 12.45 12.27 12.05 11.84 -13.5-14 12.84 12.68 12.51 12.29 12.06 -11.5 13.14 13.01 12.76 12.51 -12 13.27 14.13 14.07 14.00 13.71 13.41 -5.5 -6 14.13 14.07 14.00 13.71 13.41 14.13 14.07 14.00 13.71 13.41 -3.0 -1.0 14.13 14.07 14.00 13.71 13.41 1.0 Ω 14 13 14.07 14.00 13.71 13.41 2.0 14.13 14.07 14.00 13.71 13.41 3.0 14.13 14.07 14.00 13.71 13.41 5.0 13.71 13.41 14.13 14.07 14.00 7.0 6 14.13 14.07 14.00 13.71 13.41 9.0 14 81 14 72 14 63 14 34 14 06 11.5 10 15.49 15.37 15.26 14.98 14.70 13.5 12 16.18 16.10 16.02 15.74 15.45 16.79 16.49 16.20 16.87 16.83 16 17.21 17.19 17.17 16.87 16.57 16.5

PJF000Z588 /A

Notes(1) These data show average status.

Depending on the system control, there may be ranges where the operation is not conducted continuously. These data show the case where the operation frequency of a compressor is fixed.

In the heating mode in which the outside air temperature is 0°CDB or less, the compressor operates at maximum frequency. (2) Capacities are based on the following conditions.

Corresponding refrigerant piping length :7.5m

Level difference of Zero.

(3) Symbols are as follows TC: Total cooling capacity (kW) SHC: Sensible heat capacity (kW) HC: Heating capacity (kW) Model FDT140VNXWPVH Indoor unit FDT71VH (2 units) Outdoor unit FDC140VNX-W (kW) (kW) ooling mo Indoor air temperature Indoor air temperature Outdoor Outdoo air temp 18 °CDB 21 °CDB 23 °CDB 27 °CDB 28 °CDB 31 °CDB 33 °CDB °CDB 26 °CDB air temp 12 °CWB 14 °CWB 16 °CWB 18 °CWB 19 °CWB 20 °CWB 22 °CWB 24 °CWB °CDB °CWB 20 24 16 18 22 19.8 10.95 10 66 10 42 °CDB TC SHC -20 11 01 10.90 12.25 11.92 -15 11.46 11.48 13.04 13.70 -17.7 -18 11.50 11.28 11.05 10.70 10.34 11.63 -10 11.46 11.23 12.05 11.63 12.38 11.48 13.04 12.25 13.70 11.92 -15.7 -16 12.06 11.78 11.42 11.06 12.33 11.48 11.25 12.08 11.64 12.43 11.49 13.13 12.27 13.84 11.95 -13.5-14 12.60 12.31 12.03 11.67 11.31 0 11.06 10.71 11.74 -11.5 12.83 12.51 12.15 11.79 12.02 11.78 12.51 12.88 11.60 13.63 12.38 14.38 12.04 5 11.84 10.95 12.00 12.93 11.85 13.33 11.71 14.13 12.48 14.93 12.14 -9.5 12.57 -10 13.70 | 13.35 | 13.00 | 12.63 | 12.27 11 12 32 11.10 13 17 13 59 12.03 14.01 11.88 14 86 12.64 15.70 12.28 -7.5 -8 14.25 | 13.87 | 13.49 | 13.12 | 12.75 13 12.80 11.25 13.77 12.34 14.25 12.20 14.70 12.05 15.59 12.79 16.48 12.42 -5.5 -6 14.67 | 14.36 | 14.04 | 13.68 | 13.32 15 11.40 14.37 14.91 12.38 17.26 -3.0 15.09 14.85 14.60 14.25 13.90 13.28 12.51 15.38 12.22 16.32 12.95 12.57 17 13.49 11.47 14.46 12.54 14.94 12.39 15.42 12.23 16.36 12.96 17.30 12.58 -1.0 -2 15.52 15.34 15.16 14.82 14.47 15.45 12.24 15.94 15.83 15.72 15.38 15.04 19 13.50 11.47 14.55 14.98 12.40 16.40 12.97 1.0 12.56 17.34 12.58 0 21 13.56 11.49 14.54 12.56 14.97 12.40 15.43 12.23 16.35 12.96 17.26 12.57 2.0 16.15 16.08 16.00 15.66 15.33 23 14.53 3.0 16.15 16.08 16.00 15.66 15.33 13.63 11.52 12.56 14.95 12.39 15.40 12.23 16.29 12.95 17.19 12.56 16.27 11.53 14.52 14.95 12.39 15.39 12.22 5.0 16.15 16.08 16.00 15.66 15.33 25 12.78 11.98 13.66 12.55 12.94 17.15 12.55 14.52 14 94 27 29 12 89 12.02 13.69 11.54 12.39 15.63 12.28 16.33 16.08 16.00 15.66 12.64 11.93 13.45 11.46 14.28 12.48 14.70 12.32 15.42 12.23 16.13 12.91 9.0 16.93 16.82 16.72 16.39 16.06 17.70 17.57 17.44 17.12 16.80 11.5 31 12.39 11.84 13.21 11.38 14.05 12.42 14.47 12.26 15.20 12.17 15.93 12.87 10 11.30 18.49 18.28 18.08 17.43 16.78 33 10.35 10.14 11.45 11.22 12.97 13.81 12.35 14.24 12.20 14.98 12.12 15.73 12.82 13.5 12 35 10.27 10.07 11.29 11.07 12.73 11.23 13.57 12.28 14.00 12.13 14.76 12.06 15.53 12.78 15.5 14 19.27 | 19.00 | 18.72 | 17.74 | 16.75 13.73 12.06 14.47 11.99 10.01 11.14 10.92 12 48 11 15 13 31 12 21 15.21 12.71 16 19.67 19.36 19.04 17.89 16.74 39 10.15 9.95 10.98 10.76 12.22 11.07 13.05 12.13 13.46 11.99 14.18 11.92 14.89 12.64 41 10.10 9.89 10.83 | 10.61 11.97 10.99 12.78 12.06 13.19 11.92 13.89 11.85 14.58 12.58 43 10.04 9.84 10.68 10.46 11.72 10.91 12.52 11.99 12.92 11.85 13.59 11.77 14.26 12.51 46 9.06 9 77 9.57 10.56 10.35 11.11 10.89 11.40 11.17 11.83 11.35 12.25 12.01 9 24 PJF000Z588 ∕A 9.40 9.71 9.51 10.06 9.86 10.24 10.03 8 45 8.86 8.68 9.21 9.88 9.68

Model FDT140VSXWPVH Indoor unit FDT71VH (2 units) Outdoor unit FDC140VSX-W (kW) Heating mode:HC Cooling mode Indoor air temperature Indoor air temperature Outdoo air temp 18 °CDB 21 °CDB 23 °CDB 26 °CDB 27 °CDB 28 °CDB 31 °CDB 33 °CDB °CDB air tem 18 °CWB 24 °CWB 12 °CWB 14 °CWB 16 °CWB 19 °CWB 20 °CWB 22 °CWB CDB CWB 16 18 20 °CDB TC SHC тс І SHC -198 -20 12 26 12 08 11 90 -17.7 11 46 11.23 12.05 11.63 12.38 11.48 13 04 12.25 13.70 11.92 -18 13.37 13.22 13.07 -10 11.46 11.23 12.05 11.63 12.38 11.48 13.04 12.25 13.70 11.92 -15.7 -16 14.48 14.36 14.24 11.48 11.25 12.08 11.64 12.43 11.49 13.13 12.27 13.84 11.95 -13.5 -14 14.76 14.63 14.49 0 11.74 15.17 15.00 11.06 10.71 11.60 -11.5 -12 15.34 12.02 11.78 12.88 13.63 12.38 14.38 12.04 12.51 11.84 10.95 12.93 11.85 13.33 11.71 14.13 12.48 14.93 12.14 -9.5 -10 15.91 15.70 15.50 11 12 32 14.01 11.88 14 86 12.64 15.70 12.28 16.48 11.10 13.17 12.17 13.59 12.03 -8 16.24 16.00 13 12.80 11.25 13.77 12.34 14.25 12.20 14.70 12.05 15.59 12.79 16.48 12.42 -5.5 -6 16.48 16.24 16.00 13.28 11.40 17.26 12.57 15 14.37 12.51 -3.0 16.48 16.24 16.00 14.91 12.38 15.38 12.22 16.32 12.95 -4 17 13.49 11.47 14.46 12.54 14.94 12.39 15.42 12.23 16.36 12.96 17.30 12.58 -1.0 -2 16.48 16.24 16.00 19 11.47 14.98 12 40 15.45 16.40 12.97 17.34 12.58 1.0 0 16.00 13.50 14 55 12 56 12.24 16.48 16.24 21 13.56 11.49 14 54 12 56 14 97 12 40 15.43 12.23 16.35 12.96 17.26 12.57 2.0 1 16.48 16.24 16.00 13.63 11.52 14.53 12.56 14.95 12.39 15.40 12.23 16.29 12.95 17.19 12.56 3.0 16.48 16.24 16.00 25 11.53 14.52 12.55 14.95 12.39 15.39 12.22 16.27 12.94 17.15 12.55 5.0 16.48 16.24 16.00 12.78 13.66 27 12.89 12.02 13.69 11.54 14.52 12.55 14.94 12.39 15.63 12.28 16.33 12.96 7.0 6 16.48 16.24 16.00 29 12 64 11 93 13 45 11 46 14 28 12 48 14 70 12.32 15 42 12 23 16 13 12 91 9.0 8 17.08 16.90 31 12.39 11.84 13.21 11.38 14.05 12.42 14.47 12.26 15.20 12.17 15.93 12.87 11.5 10 18.06 17.93 17.79 17.47 17.14 12 33 10.35 10.14 12.97 11.30 14.24 14.98 15.73 12.82 13.5 18.86 18.66 18.45 11.45 11.22 13.81 12.35 12.20 12.12 14.76 10.27 10.07 11.29 11.07 12.73 11.23 14.00 12.13 12.06 14 19.67 19.39 19.10 18.10 17.09

14 47

14.18 11.92

13.89 11.85

13.59

11.83 11.35

10.06 9.86

1199

11.77

15.53 12.78

14.89 12.64

14.58 12.58

14.26 12.51

10.24 10.03

15.5

16

PJF000Z588 ∕A

19 75 19 43 (kW)

13.40 13.82

14.36

22 24

11 84 11 77

12.83 12.59

14.11 13.72

14.68

15.25 15.00

15.82 15.64

15.82 15.64

15.82 15.64

15.82 15.64

15.82 15.64

15.82 15.64

15.82 15.64

16.64 16.39

15.82 15.64

15.82 15.64

17.78 17.12

Notes(1) These data show average status.

9.06

11 14 10.92

10.98 10.76

10.83 10.61

35

39

41

43

10 21 10.01

10.15 9.95

10.10 9.89

10.04 9.84 10.68 10.46

Depending on the system control, there may be ranges where the operation is not conducted continuously. These data show the case where the operation frequency of a compressor is fixed.

13.57 12.28

13.31 12.21

13.05 12.13

12.78 12.06

12.52 11.99

11.11 10.89

9.71 9.51

In the heating mode in which the outside air temperature is 0°CDB or less, the compressor operates at maximum frequency (2) Capacities are based on the following conditions.

9.88 9.68

11.17

13 73 12 06

13.46 11.99

13.19 11.92

12.92 11.85

11.40

Corresponding refrigerant piping length: 7.5m

9.57

8.45 8.28 8.86 8.68 9.40 9.21

12 48

12.22 11.07

11.72

11.97 10.99

11 15

10.91

10.35

Level difference of Zero.

(3) Symbols are as follows :Total cooling capacity (kW) SHC :Sensible heat capacity (kW) HC: Heating capacity (kW)

(c) Triple type

Model FDT140VNXWTVH Indoor unit FDT50VH (3 units) Outdoor unit FDC140VNX-W Cooling mode

0		Indoor air temperature														
Outdoor air temp.	18 °	CDB	21 °	CDB	23 °	CDB	26 °	CDB	27 °	CDB	28 °	CDB	31 °	CDB	33 °	CDB
dii tomp.	12 °C	CWB	14 °C	CWB	16 °C	CWB	18 °C	CWB	19 °C	CWB	20 °	CWB	22 °C	CWB	24 °	CWB
°CDB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
-15							11.46	11.23	12.05	11.80	12.38	12.13	13.04	12.78	13.70	12.90
-10							11.46	11.23	12.05	11.80	12.38	12.13	13.04	12.78	13.70	12.90
-5							11.48	11.25	12.08	11.84	12.43	12.18	13.13	12.87	13.84	12.92
0					11.06	10.84	12.02	11.78	12.51	12.26	12.88	12.50	13.63	13.36	14.38	12.98
5					11.84	11.60	12.57	12.32	12.93	12.67	13.33	12.58	14.13	13.47	14.93	13.05
11					12.32	11.85	13.17	12.90	13.59	12.90	14.01	12.71	14.86	13.58	15.70	13.14
13					12.80	11.98	13.77	13.22	14.25	13.04	14.70	12.84	15.59	13.70	16.48	13.24
15					13.28	12.10	14.37	13.35	14.91	13.18	15.38	12.97	16.32	13.81	17.26	13.34
17					13.49	12.16	14.46	13.38	14.94	13.19	15.42	12.98	16.36	13.82	17.30	13.34
19					13.50	12.16	14.55	13.40	14.98	13.19	15.45	12.99	16.40	13.83	17.34	13.35
21					13.56	12.18	14.54	13.39	14.97	13.19	15.43	12.98	16.35	13.82	17.26	13.34
23					13.63	12.20	14.53	13.39	14.95	13.19	15.40	12.98	16.29	13.81	17.19	13.33
25			12.78	12.53	13.66	12.21	14.52	13.39	14.95	13.19	15.39	12.98	16.27	13.81	17.15	13.32
27			12.89	12.63	13.69	12.22	14.52	13.39	14.94	13.18	15.63	13.02	16.33	13.81		
29			12.64	12.39	13.45	12.15	14.28	13.33	14.70	13.13	15.42	12.98	16.13	13.78		
31			12.39	12.15	13.21	12.09	14.05	13.28	14.47	13.08	15.20	12.94	15.93	13.75		
33	10.35	10.14	11.45	11.22	12.97	12.02	13.81	13.23	14.24	13.03	14.98	12.90	15.73	13.72		
35	10.27	10.07	11.29	11.07	12.73	11.96	13.57	13.17	14.00	12.98	14.76	12.85	15.53	13.69		
37	10.21	10.01	11.14	10.92	12.48	11.89	13.31	13.04	13.73	12.93	14.47	12.80	15.21	13.64		
39	10.15	9.95	10.98	10.76	12.22	11.83	13.05	12.79	13.46	12.87	14.18	12.74	14.89	13.59		
41	10.10	9.89	10.83	10.61	11.97	11.73	12.78	12.53	13.19	12.82	13.89	12.69	14.58	13.54		
43	10.04	9.84	10.68	10.46	11.72	11.48	12.52	12.27	12.92	12.67	13.59	12.63	14.26	13.49		
46	9.24	9.06	9.77	9.57	10.56	10.35	11.11	10.89	11.40	11.17	11.83	11.59	12.25	12.01		
50	8.45	8.28	8.86	8.68	9.40	9.21	9.71	9.51	9.88	9.68	10.06	9.86	10.24	10.03		

(kW)	ı	Heating	mode:l	HC				(kW)
		Out	door		Indoor	air temp	erature	
DB		air te	emp.			°CDB		
WB		°CDB	°CWB	16	18	20	22	24
SHC		-19.8	-20	11.01	10.95	10.90	10.66	10.42
12.90	Ш	-17.7	-18	11.50	11.28	11.05	10.70	10.34
12.90		-15.7	-16	12.33	12.06	11.78	11.42	11.06
12.92	Ш	-13.5	-14	12.60	12.31	12.03	11.67	11.31
12.98	Ш	-11.5	-12	13.15	12.83	12.51	12.15	11.79
13.05	Ш	-9.5	-10	13.70	13.35	13.00	12.63	12.27
13.14	Ш	-7.5	-8	14.25	13.87	13.49	13.12	12.75
13.24	Ш	-5.5	-6	14.67	14.36	14.04	13.68	13.32
13.34	Ш	-3.0	-4	15.09	14.85	14.60	14.25	13.90
13.34	Ш	-1.0	-2	15.52	15.34	15.16	14.82	14.47
13.35	Ш	1.0	0	15.94	15.83	15.72	15.38	15.04
13.34	Ш	2.0	1	16.15	16.08	16.00	15.66	15.33
13.33	Ш	3.0	2	16.15	16.08	16.00	15.66	15.33
13.32	Ш	5.0	4	16.15	16.08	16.00	15.66	15.33
	Ш	7.0	6	16.15	16.08	16.00	15.66	15.33
		9.0	8	16.93	16.82	16.72	16.39	16.06
		11.5	10	17.70	17.57	17.44	17.12	16.80
		13.5	12	18.49	18.28	18.08	17.43	16.78
		15.5	14	19.27	19.00	18.72	17.74	16.75
		16.5	16	19.67	19.36	19.04	17.89	16.74
	Ι'							

PJF000Z588

(kW)

Model FDT140VSXWTVH

Indoor unit FDT50VH (3 units)

Outdoor unit FDC140VSX-W

Cooling m	node							`	,							(kW)	Н	leating ı	mode:l	НС
							Ind	oor air t	empera	ture						,	ΙÏ	Outd		ŕ
Outdoor air temp.	18 °	CDB	21 °	CDB	23 °	CDB	26 °	CDB	27 °	CDB	28 °	CDB	31 °	CDB	33 °	CDB	П	air te		Г
all terrip.	12 °	CWB	14 °	CWB	16 °	CWB	18 °	CWB	19 °	CWB	20 °	CWB	22 °	CWB	24 °C	CWB	П	°CDB	°CWB	1
°CDB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	Ħ	-19.8	-20	12
-15							11.46	11.23	12.05	11.80	12.38	12.13	13.04	12.78	13.70	12.90	1 C	-17.7	-18	13
-10							11.46	11.23	12.05	11.80	12.38	12.13	13.04	12.78	13.70	12.90	1 L	-15.7	-16	14.
-5							11.48	11.25	12.08	11.84	12.43	12.18	13.13	12.87	13.84	12.92		-13.5	-14	14.
0					11.06	10.84	12.02	11.78	12.51	12.26	12.88	12.50	13.63	13.36	14.38	12.98	1 L	-11.5	-12	15.
5					11.84	11.60	12.57	12.32	12.93	12.67	13.33	12.58	14.13	13.47	14.93	13.05	11	-9.5	-10	15.
11					12.32	11.85	13.17	12.90	13.59	12.90	14.01	12.71	14.86	13.58	15.70	13.14	11	-7.5	-8	16.
13					12.80	11.98	13.77	13.22	14.25	13.04	14.70	12.84	15.59	13.70	16.48	13.24	11	-5.5	-6	16.
15					13.28	12.10	14.37	13.35	14.91	13.18	15.38	12.97	16.32	13.81	17.26	13.34	11	-3.0	-4	16.
17					13.49	12.16	14.46	13.38	14.94	13.19	15.42	12.98	16.36	13.82	17.30	13.34	11	-1.0	-2	16.
19					13.50	12.16	14.55	13.40	14.98	13.19	15.45	12.99	16.40	13.83	17.34	13.35	11	1.0	0	16.
21					13.56	12.18	14.54	13.39	14.97	13.19	15.43	12.98	16.35	13.82	17.26	13.34	11	2.0	1	16.
23					13.63	12.20	14.53	13.39	14.95	13.19	15.40	12.98	16.29	13.81	17.19	13.33	11	3.0	2	16.
25			12.78	12.53	13.66	12.21	14.52	13.39	14.95	13.19	15.39	12.98	16.27	13.81	17.15	13.32	11	5.0	4	16.
27			12.89	12.63	13.69	12.22	14.52	13.39	14.94	13.18	15.63	13.02	16.33	13.81			11	7.0	6	16.
29			12.64	12.39	13.45	12.15	14.28	13.33	14.70	13.13	15.42	12.98	16.13	13.78			11	9.0	8	17.
31			12.39	12.15	13.21	12.09	14.05	13.28	14.47	13.08	15.20	12.94	15.93	13.75			11	11.5	10	18.
33	10.35	10.14	11.45	11.22	12.97	12.02	13.81	13.23	14.24	13.03	14.98	12.90	15.73	13.72			11	13.5	12	18.
35	10.27	10.07	11.29	11.07	12.73	11.96	13.57	13.17	14.00	12.98	14.76	12.85	15.53	13.69			1	15.5	14	19.
37	10.21	10.01	11.14	10.92	12.48	11.89	13.31	13.04	13.73	12.93	14.47	12.80	15.21	13.64			/ L	16.5	16	20.
39	10.15	9.95	10.98	10.76	12.22	11.83	13.05	12.79	13.46	12.87	14.18	12.74	14.89	13.59			1			
41	10.10	9.89	10.83	10.61	11.97	11.73	12.78	12.53	13.19	12.82	13.89	12.69	14.58	13.54			1			
43	10.04	9.84	10.68	10.46	11.72	11.48	12.52	12.27	12.92	12.67	13.59	12.63	14.26	13.49			1			_
46	9.24	9.06	9.77	9.57	10.56	10.35	11.11	10.89	11.40	11.17	11.83	11.59	12.25	12.01			1		F	J

Out	door	Indoor air temperature							
air te	emp.			°CDB					
°CDB	°CWB	16	18	20	22	24			
-19.8	-20	12.26	12.08	11.90	11.84	11.77			
-17.7	-18	13.37	13.22	13.07	12.83	12.59			
-15.7	-16	14.48	14.36	14.24	13.82	13.40			
-13.5	-14	14.76	14.63	14.49	14.11	13.72			
-11.5	-12	15.34	15.17	15.00	14.68	14.36			
-9.5	-10	15.91	15.70	15.50	15.25	15.00			
-7.5	-8	16.48	16.24	16.00	15.82	15.64			
-5.5	-6	16.48	16.24	16.00	15.82	15.64			
-3.0	-4	16.48	16.24	16.00	15.82	15.64			
-1.0	-2	16.48	16.24	16.00	15.82	15.64			
1.0	0	16.48	16.24	16.00	15.82	15.64			
2.0	1	16.48	16.24	16.00	15.82	15.64			
3.0	2	16.48	16.24	16.00	15.82	15.64			
5.0	4	16.48	16.24	16.00	15.82	15.64			
7.0	6	16.48	16.24	16.00	15.82	15.64			
9.0	8	17.27	17.08	16.90	16.64	16.39			
11.5	10	18.06	17.93	17.79	17.47	17.14			
13.5	12	18.86	18.66	18.45	17.78	17.12			
15.5	14	19.67	19.39	19.10	18.10	17.09			
16.5	16	20.07	19.75	19.43	18.26	17.08			

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| Solution | Solution

These data show the case where the operation frequency of a compressor is fixed.

In the heating mode in which the outside air temperature is 0°CDB or less, the compressor operates at maximum frequency. (2) Capacities are based on the following conditions.

(2) Capacities are based on the following condition
 Corresponding refrigerant piping length: 7.5m
 Level difference of Zero.
 (3) Symbols are as follows
 TC: Total cooling capacity (kW)
 SHC: Sensible heat capacity (kW)
 HC: Heating capacity (kW)

(2) Ceiling cassette-4 way compact type (FDTC)

(a) Twin type

Model FDTC100VNXWPVH Indoor unit FDTC50VH (2 units) Outdoor unit FDC100VNX-W

Cooling mode

							Ind	oor air t	empera	ture						
Outdoor air temp.	18 °	CDB	21 °	CDB	23 °	CDB	26 °	CDB	27 °	CDB	28 °	CDB	31 °	CDB	33 °	CDB
un tomp.	12 °	CWB	14 °	CWB	16 °	CWB	18 °	CWB	19 °	CWB	20 °	CWB	22 °	CWB	24 °	CWB
°CDB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
-15							11.26	11.03	11.76	11.53	12.09	11.85	12.75	12.50	13.41	13.14
-10							11.26	11.03	11.76	11.53	12.09	11.85	12.75	12.50	13.41	13.14
-5							11.26	11.03	11.76	11.53	12.09	11.85	12.75	12.50	13.41	13.14
0					10.51	10.30	11.35	11.12	11.76	11.53	12.11	11.87	12.80	12.54	13.49	13.22
5					10.77	10.55	11.43	11.20	11.76	11.53	12.13	11.88	12.85	12.59	13.58	13.30
11					10.68	10.46	11.33	11.11	11.66	11.43	12.02	11.78	12.75	12.49	13.47	13.20
13					10.59	10.38	11.23	11.01	11.56	11.32	11.92	11.68	12.64	12.39	13.36	13.10
15					10.50	10.29	11.13	10.91	11.45	11.22	11.81	11.58	12.54	12.29	13.26	12.99
17					10.34	10.14	10.98	10.76	11.30	11.07	11.65	11.42	12.37	12.12	13.08	12.82
19					10.21	10.00	10.82	10.61	11.14	10.92	11.49	11.26	12.20	11.95	12.90	12.64
21					10.10	9.89	10.71	10.49	11.02	10.80	11.36	11.13	12.03	11.79	12.71	12.46
23					9.98	9.78	10.59	10.37	10.90	10.68	11.22	11.00	11.87	11.63	12.52	12.27
25			9.35	9.16	9.93	9.73	10.53	10.32	10.83	10.62	11.15	10.93	11.79	11.56	12.43	12.18
27			9.30	9.11	9.87	9.68	10.47	10.26	10.77	10.56	11.27	11.05	11.77	11.54		
29			9.12	8.93	9.70	9.51	10.29	10.08	10.58	10.37	11.10	10.88	11.63	11.39		
31			8.94	8.76	9.53	9.34	10.10	9.90	10.39	10.18	10.94	10.72	11.48	11.25		
33	8.48	8.31	8.77	8.59	9.35	9.16	9.92	9.72	10.19	9.99	10.77	10.55	11.34	11.11		
35	8.22	8.05	8.55	8.38	9.18	9.00	9.74	9.55	10.00	9.80	10.60	10.39	11.20	10.97		
37	7.99	7.83	8.33	8.16	8.97	8.79	9.53	9.34	9.80	9.60	10.37	10.16	10.93	10.72		
39	7.76	7.60	8.11	7.95	8.76	8.58	9.33	9.14	9.60	9.41	10.14	9.93	10.67	10.46		
41	7.53	7.38	7.89	7.74	8.55	8.38	9.12	8.93	9.40	9.21	9.90	9.71	10.41	10.20		
43	7.30	7.15	7.68	7.52	8.34	8.17	8.91	8.73	9.20	9.01	9.67	9.48	10.15	9.95		
46	6.78	6.65	7.16	7.02	7.83	7.67	8.44	8.27	8.75	8.57	9.24	9.06	9.73	9.54		
50	6.27	6 14	6 64	6.51	7.32	7 18	7.96	7.80	8.30	8 13	8.81	8 63	9.32	9 13		

(kW) Heating mode:HC

(kW) Heating mode:HC

(kW)

Oute	door	Indoor air temperature								
air te	emp.			°CDB						
°CDB	°CWB	16	18	20	22	24				
-19.8	-20	10.06	9.87	9.70	9.53	9.35				
-17.7	-18	10.14	9.98	9.82	9.65	9.47				
-15.7	-16	10.23	10.08	9.94	9.77	9.59				
-13.5	-14	10.55								
-11.5	-12	11.14								
-9.5	-10	11.31								
-7.5	-8	11.31								
-5.5	-6	11.31	11.25	11.20	10.96	10.73				
-3.0	-4	11.31	11.25	11.20	10.96	10.73				
-1.0	-2	11.31	11.25	11.20	10.96	10.73				
1.0	0	11.31	11.25	11.20	10.96	10.73				
2.0	1	11.31	11.25	11.20	10.96	10.73				
3.0	2	11.31	11.25	11.20	10.96	10.73				
5.0	4	11.31	11.25	11.20	10.96	10.73				
7.0	6	11.31	11.25	11.20	10.96	10.73				
9.0	8	11.85 11.78 11.70 11.47 11.24								
11.5	10	12.39	12.30	12.21	11.98	11.76				
13.5	12	12.94	12.88	12.82	12.66	12.49				
15.5	14	13.49								
16.5	16	13.77	13.75	13.74	13.66	13.59				

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Model FDTC100VSXWPVH

Cooling mode

Indoor unit FDTC50VH (2 units)

Outdoor unit FDC100VSX-W

(kW)

		Indoor air temperature														
Outdoor air temp.	18 °	CDB	21 °	CDB	23 °	23 °CDB 26 °CDB		27 °	CDB	28 °	CDB	31 °	CDB	33 °	CDB	
an temp.	12 °	CWB	14 °0	CWB	16 °C	CWB	18 °	CWB	19 °C	CWB	20 °C	CWB	22 °	CWB	24 °C	CWB
°CDB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
-15							11.26	11.03	11.76	11.53	12.09	11.85	12.75	12.50	13.41	13.14
-10							11.26	11.03	11.76	11.53	12.09	11.85	12.75	12.50	13.41	13.14
-5							11.26	11.03	11.76	11.53	12.09	11.85	12.75	12.50	13.41	13.14
0					10.51	10.30	11.35	11.12	11.76	11.53	12.11	11.87	12.80	12.54	13.49	13.22
5					10.77	10.55	11.43	11.20	11.76	11.53	12.13	11.88	12.85	12.59	13.58	13.30
11					10.68	10.46	11.33	11.11	11.66	11.43	12.02	11.78	12.75	12.49	13.47	13.20
13					10.59	10.38	11.23	11.01	11.56	11.32	11.92	11.68	12.64	12.39	13.36	13.10
15					10.50	10.29	11.13	10.91	11.45	11.22	11.81	11.58	12.54	12.29	13.26	12.99
17					10.34	10.14	10.98	10.76	11.30	11.07	11.65	11.42	12.37	12.12	13.08	12.82
19					10.21	10.00	10.82	10.61	11.14	10.92	11.49	11.26	12.20	11.95	12.90	12.64
21					10.10	9.89	10.71	10.49	11.02	10.80	11.36	11.13	12.03	11.79	12.71	12.46
23					9.98	9.78	10.59	10.37	10.90	10.68	11.22	11.00	11.87	11.63	12.52	12.27
25			9.35	9.16	9.93	9.73	10.53	10.32	10.83	10.62	11.15	10.93	11.79	11.56	12.43	12.18
27			9.30	9.11	9.87	9.68	10.47	10.26	10.77	10.56	11.27	11.05	11.77	11.54		
29			9.12	8.93	9.70	9.51	10.29	10.08	10.58	10.37	11.10	10.88	11.63	11.39		
31			8.94	8.76	9.53	9.34	10.10	9.90	10.39	10.18	10.94	10.72	11.48	11.25		
33	8.48	8.31	8.77	8.59	9.35	9.16	9.92	9.72	10.19	9.99	10.77	10.55	11.34	11.11		
35	8.22	8.05	8.55	8.38	9.18	9.00	9.74	9.55	10.00	9.80	10.60	10.39	11.20	10.97		
37	7.99	7.83	8.33	8.16	8.97	8.79	9.53	9.34	9.80	9.60	10.37	10.16	10.93	10.72		
39	7.76	7.60	8.11	7.95	8.76	8.58	9.33	9.14	9.60	9.41	10.14	9.93	10.67	10.46		
41	7.53	7.38	7.89	7.74	8.55	8.38	9.12	8.93	9.40	9.21	9.90	9.71	10.41	10.20		
43	7.30	7.15	7.68	7.52	8.34						9.67	9.48	10.15	9.95		
46	6.78	6.65	7.16	7.02	7.83							9.73	9.54			
50	6.27	6.14	6.64	6.51	7.32	7.18	7.96	7.80	8.30	8.13	8.81	8.63	9.32	9.13		

Out	door	Indoor air temperature								
air te	emp.			°CDB						
°CDB	°CWB	16	18	20	22	24				
-19.8	-20	10.22	9.96	9.70	9.40	9.10				
-17.7	-18	10.76	10.60	10.45	10.16	9.88				
-15.7	-16	11.31	11.25	11.19	10.92	10.65				
-13.5	-14	11.31	11.25	11.19	10.93	10.67				
-11.5	-12	11.31	11.25	11.20	10.94	10.69				
-9.5	-10	11.31	11.25	10.95	10.71					
-7.5	-8	11.31								
-5.5	-6	11.31	11.25	11.20	10.96	10.73				
-3.0	-4	11.31	11.25	11.20	10.96	10.73				
-1.0	-2	11.31	11.25	11.20	10.96	10.73				
1.0	0	11.31	11.25	11.20	10.96	10.73				
2.0	1	11.31	11.25	11.20	10.96	10.73				
3.0	2	11.31	11.25	11.20	10.96	10.73				
5.0	4	11.31	11.25	11.20	10.96	10.73				
7.0	6	11.31	11.25	11.20	10.96	10.73				
9.0	8	11.85	11.78	11.70	11.47	11.24				
11.5	10	12.39	12.30	12.21	11.98	11.76				
13.5	12	12.94	12.88	12.82	12.66	12.49				
15.5	14	13.49	13.46	13.43	13.33	13.22				
16.5	16	13.77 13.75 13.74 13.66 13.59								

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Notes(1) These data show average status.

Depending on the system control, there may be ranges where the operation is not conducted continuously.

These data show the case where the operation frequency of a compressor is fixed.

In the heating mode in which the outside air temperature is 0°CDB or less, the compressor operates at maximum frequency. (2) Capacities are based on the following conditions.

(2) Capacities are based on the following condition
 Corresponding refrigerant piping length: 7.5m
 Level difference of Zero.
 (3) Symbols are as follows
 TC: Total cooling capacity (kW)
 SHC: Sensible heat capacity (kW)
 HC: Heating capacity (kW)

(kW)

24

10.50

13.41

17 19 17 17 16 87 16 57

PJF000Z586 🚖

16

16.5

Indoor unit FDTC60VH (2 units) Outdoor unit FDC125VNX-W Model FDTC125VNXWPVH (kW) (kW) ooling mo Indoor air temperature Indoor air temperature Outdoor Outdoo air temp 18 °CDB 21 °CDB 23 °CDB 27 °CDB 28 °CDB 31 °CDB 33 °CDB °CDB 26 °CDB air temp 12 °CWB 14 °CWB 16 °CWB 18 °CWB 19 °CWB 20 °CWB 22 °CWB 24 °CWB °CDB °CWB 20 24 16 18 22 9 64 °CDB TC SHC 19.8 -20 10.37 10 18 10.00 9.82 -15 11.89 13.12 14.07 13.79 -17.7 -18 10.10 9.74 11.65 12.37 12.13 12.71 12.46 13.39 10.43 10.26 9.92 -10 11.89 11.65 12.37 12.13 12.71 12.46 13.39 13.12 14.07 13.79 -15.7 -16 10.49 10.34 10.19 10.02 9.84 11.95 11.71 12.57 12.32 12.94 12.68 13.67 13.39 14.40 14.11 -13.5-14 10.79 10.61 10.44 10.24 10.04 0 11.69 11.46 12.71 12.45 13.61 13.34 14.40 14.11 15.19 14.89 -11.5 11.37 11.15 10.92 10.68 10.44 13.21 12.95 12.68 12.43 15.14 14.83 5 13.46 13.19 14.28 14.00 -9.5 13.85 13.58 15.99 15.67 -10 11.96 11.68 11.40 11.12 10.84 11 12 84 12.58 13.62 13 34 14.01 13.73 14.44 14.15 15.31 15.01 16.18 15.86 -7.5 -8 12.55 12.22 11.88 11.56 11.23 13 12.99 12.73 13.77 13.49 14.16 13.88 14.60 14.31 15.49 15.18 16.38 16.05 -5.5 -6 12.90 12.63 12.35 12.03 111.72 15 13.14 12.88 13.92 14.31 14.03 14.77 14.47 15.36 16.57 -3.0 13.25 13.04 12.82 12.51 12.20 13.64 15.67 16.24 17 12.94 12.68 13.73 13.45 14.12 13.84 14.57 14.27 15.46 15.15 16.35 16.02 -1.0 -2 13.61 13.45 13.29 12.99 12.69 13.96 13.86 13.76 13.47 13.17 19 12.76 12.51 13.53 13.26 13.93 13.65 14.37 14.08 15.24 14.94 1.0 16.12 15.80 0 21 12.62 12.37 13.38 13.11 13.77 13.50 14 20 | 13 91 15.04 14.74 15.89 15.57 2.0 14.13 14.07 14.00 13.71 13.41 14.13 14.07 14.00 13.71 13.41 23 3.0 12.48 12.23 13.23 12.97 13.62 13.35 14.03 | 13.75 14.84 14.54 15.65 15.34 11.69 11.45 12.16 13.16 12.89 13.94 13.66 14.74 14.44 5.0 14.13 14.07 14.00 13.71 13.41 25 12.41 13.54 13.27 15.54 15.23 13.46 27 29 11.62 11.39 12.34 12.09 13.08 12.82 13.19 14.09 13.81 1471 14 42 14.13 14.07 14.00 13.71 13.41 11.40 11.17 12.12 11.88 12.86 12.60 13.22 12.96 13.88 13.60 14.53 14.24 9.0 14.81 14.72 14.63 14.34 14.06 11.5 15.49 15.37 15.26 14.98 14.70 31 11.17 10.95 11.91 11.67 12.63 12.38 12.98 12.72 13.67 | 13.39 14.35 14.07 10 16.18 16.10 16.02 15.74 15.45 33 10.36 10.16 10.84 10.62 11.69 11.46 12.40 12.15 12.74 12.49 13.46 13.19 14.18 13.89 13.5 12 35 10.33 10.12 10.71 10.50 11.24 12.18 11.93 12.50 12.25 13.25 12.98 14.00 13.72 15.5 14 16.87 | 16.83 | 16.79 | 16.49 | 16.20 10.03 9.83 10.43 10.23 11 21 10.99 11.92 11.68 12.25 12.00 12.96 12.70 13.67 13.39 17.21 17.19 17.17 16.87 16.57 39 9.73 9.54 10.16 9.95 10.95 10.73 11.66 11.42 12.00 11.76 12.67 12.42 13.34 13.07 41 9.43 9.24 9.88 9.68 10.68 10.47 11.40 11.17 11.75 11.51 12.38 | 12.13 13.01 12.75 43 9.13 8.95 9.60 9.41 10.42 10.21 11.14 10.91 11.50 11.27 12.09 11.85 12.69 12.43 46 8 49 8.32 8.96 8.78 9.81 9.61 10.44 10.23 10.70 10.48 11.08 10.86 11 47 11 24 8.33 8.16 9.19 9.01 9.74 9.54 9.90 9.70 10.08 9.87 10.26 10.05 PJF000Z586 🕏

Model FDTC125VSXWPVH Indoor unit FDTC60VH (2 units) Outdoor unit FDC125VSX-W (kW) Heating mode:HC Cooling mode Indoor air temperature Indoor air temperature Outdoo air temp 18 °CDB 21 °CDB 23 °CDB 26 °CDB 27 °CDB 28 °CDB 31 °CDB 33 °CDB °CDB air temp 16 °CWB 12 °CWB 14 °CWB 18 °CWB 19 °CWB 20 °CWB 24 °CWB 22 °CWB °CDB °CWB 16 18 20 22 °CDB TC SHC 19.8 -20 11 30 11 10 10.90 10.70 -15 11.89 11.65 12.37 12.13 12.46 13.39 13.12 14.07 13.79 17 7 -18 11.98 11.75 11.52 11.34 11.16 -10 11.89 11.65 12.37 12.13 12.71 12.46 13.39 13.12 14.07 13.79 -15.7 -16 12.63 12.45 12.05 11.84 12.27 11.95 11.71 12.57 12.32 12.94 12.68 13.67 | 13.39 14.40 14.11 -13.5 -14 12.84 12.68 12.51 12.29 12.06 0 -12 11.69 11.46 12.45 14.40 14.11 15.19 14.89 11.5 13.27 13.14 13.01 12.76 12.51 12.71 12.95 13.61 13.34 13.21 12.68 12.43 13.46 13.19 13.85 13.58 14.28 14.00 15.14 14.83 -9.5 -10 14.13 14.07 14.00 13.71 13.41 11 12 84 12 58 13.62 14 01 14 44 14.15 15.31 15.01 16.18 15.86 14.07 14.00 13.71 13.41 13 34 13 73 14.13 13 12.99 12.73 13.77 13.49 14.16 13.88 14.60 14.31 15.49 15.18 16.38 16.05 -5.5 -6 14.13 14.07 14.00 13.71 13.41 14.07 14.00 13.71 13.41 15 13.14 12.88 14.31 14.03 14.77 14.47 15.67 | 15.36 -3.0 14.13 13.92 13.64 16.57 16.24 17 12.94 12.68 13.73 13.45 14.12 13.84 14.57 14.27 15.46 15.15 16.35 -1.0 14.13 14.07 14.00 13.71 16.02 19 13.53 13.65 14.37 14.08 15.24 14.94 1.0 14.00 13.71 13.41 12.76 12.51 13.26 13.93 16.12 15.80 0 14.13 14.07 21 12 62 12 37 13.38 13.11 13.77 13 50 14 20 13 91 15 04 14 74 15.89 15.57 2.0 14.13 14.07 14.00 13.71 13.41 12.48 12.23 13.23 12.97 13.62 13.35 14.03 13.75 14.84 14.54 15.65 15.34 3.0 14.13 14.07 14.00 13.71 13.41 14.07 14.00 12.41 12.16 12.89 13.54 13.27 13.94 13.66 14.74 14.44 15.54 15.23 5.0 14.13 25 13.16 27 11.62 11.39 12.34 12.09 13.08 12.82 13.46 13.19 14.09 13.81 14.71 14.42 7.0 6 14.13 14.07 14.00 13.71 13.41 11 40 11 17 12 12 11 88 12.86 12.60 13 22 12 96 13.88 13.60 14 53 14 24 9.0 14 81 14.72 14.63 14.34 14.06 29 31 11.17 10.95 11.91 11.67 12.63 12.38 12.98 12.72 13.67 13.39 14.35 14.07 11.5 10 15.49 15.37 15.26 14.98 14.70 16.18 16.10 16.02 15.74 15.45 33 10.36 10.16 14.18 13.89 13.5 12 10.84 10.62 11.69 11.46 12.40 12.15 12.74 12.49 13.46 13.19 12.25 14.00 13.72 16.87 10.33 10.12 11.47 11.24 12.18 11.93 12.50 14 16.83 16.79 16.49 16.20 35 10.71 10.50 13.25 12.98 15.5

7.85 7.69 8.33 8.16 Notes(1) These data show average status

8.95

10.16 9.95

9.60 9.41

8.96

10.03 9.83 10.43 10.23

9.73 9.54

9.43 9.24 9.88 9.68

9.13

8 49 8.32

39

41

43

46

Depending on the system control, there may be ranges where the operation is not conducted continuously.

These data show the case where the operation frequency of a compressor is fixed.

11.92 11 68

11.14 10.91

11.66 11.42

11.40 11.17

10.44 10.23

9.74 9.54

11.21 10.99

10.95 10.73

10.68 10.47

10.42 10.21

9.81 9.61

9.19 9.01

In the heating mode in which the outside air temperature is 0°CDB or less, the compressor operates at maximum frequency. (2) Capacities are based on the following conditions.

12.00

11.27

9.70

12.00 11.76

11.75 11.51

11.50

10.70 10.48

9.90

12 96 12.70

11.08 10.86

12.67 12.42

12.38 12.13

12.09 11.85

10.08 9.87

13 67 13 39

13.34 13.07

13.01 12.75

12.69 12.43

11.47 11.24

10.26 10.05

Corresponding refrigerant piping length :7.5m

8.78

Level difference of Zero.

(3) Symbols are as follows C :Total cooling capacity (kW) SHC :Sensible heat capacity (kW) HC :Heating capacity (kW)

-129-

(b) Triple type

Model FDTC140VNXWTVH Indoor unit FDTC50VH (3 units) Outdoor unit FDC140VNX-W

Cooling m																
0.11							Ind	oor air t	empera	ture						
Outdoor air temp.	18 °	CDB	21 °	CDB	23 °	CDB	26 °	CDB	27 °	CDB	28 °	CDB	31 °	CDB	33 °	CDB
all temp.	12 °C	CWB	14 °0	CWB	16 °	CWB	18 °C	CWB	19 °C	CWB	20 °	CWB	22 °	CWB	24 °(CWB
°CDB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
-15							11.46	11.23	12.05	11.80	12.38	12.13	13.04	12.78	13.70	13.42
-10							11.46	11.23	12.05	11.80	12.38	12.13	13.04	12.78	13.70	13.42
-5							11.48	11.25	12.08	11.84	12.43	12.18	13.13	12.87	13.84	13.56
0					11.06	10.84	12.02	11.78	12.51	12.26	12.88	12.62	13.63	13.36	14.38	14.09
5					11.84	11.60	12.57	12.32	12.93	12.67	13.33	13.06	14.13	13.85	14.93	14.63
11					12.32	12.07	13.17	12.90	13.59	13.32	14.01	13.73	14.86	14.56	15.70	15.39
13					12.80	12.54	13.77	13.49	14.25	13.97	14.70	14.40	15.59	15.28	16.48	16.15
15					13.28	13.01	14.37	14.08	14.91	14.61	15.38	15.07	16.32	15.99	17.26	16.92
17					13.49	13.22	14.46	14.17	14.94	14.65	15.42	15.11	16.36	16.03	17.30	16.95
19					13.50	13.23	14.55	14.26	14.98	14.68	15.45	15.14	16.40	16.07	17.34	16.99
21					13.56	13.29	14.54	14.25	14.97	14.67	15.43	15.12	16.35	16.02	17.26	16.92
23					13.63	13.35	14.53	14.24	14.95	14.65	15.40	15.09	16.29	15.97	17.19	16.85
25			12.78	12.53	13.66	13.39	14.52	14.23	14.95	14.65	15.39	15.08	16.27	15.94	17.15	16.81
27			12.89	12.63	13.69	13.42	14.52	14.23	14.94	14.64	15.63	15.32	16.33	16.00		
29			12.64	12.39	13.45	13.18	14.28	14.00	14.70	14.41	15.42	15.11	16.13	15.80		
31			12.39	12.15	13.21	12.95	14.05	13.76	14.47	14.18	15.20	14.89	15.93	15.61		
33	10.35	10.14	11.45	11.22	12.97	12.71	13.81	13.53	14.24	13.95	14.98	14.68	15.73	15.41		
35	10.27	10.07	11.29	11.07	12.73	12.48	13.57	13.30	14.00	13.72	14.76	14.47	15.53	15.22		
37	10.21	10.01	11.14	10.92	12.48	12.23	13.31	13.04	13.73	13.46	14.47	14.18	15.21	14.91		
39	10.15	9.95	10.98	10.76	12.22	11.98	13.05	12.79	13.46	13.19	14.18	13.89	14.89	14.60		
41	10.10	9.89	10.83	10.61	11.97	11.73	12.78	12.53	13.19	12.93	13.89	13.61	14.58	14.29		
43	10.04	9.84	10.68	10.46	11.72	11.48	12.52	12.27	12.92	12.67	13.59	13.32	14.26	13.98		_
46	9.24	9.06	9.77	9.57	10.56	10.35	11.11	10.89	11.40	11.17	11.83	11.59	12.25	12.01	_	<u> </u>
50	8.45	8.28	8.86	8.68	9.40	9.21	9.71	9.51	9.88	9.68	10.06	9.86	10.24	10.03		

(kW)	ŀ	leating	mode:H	łC				(kW)
		Out	door		Indoor	air temp	erature	
DB		air te	emp.			°CDB		
WB		°CDB	°CWB	16	18	20	22	24
SHC		-19.8	-20	11.01	10.95	10.90	10.66	10.42
13.42	Ш	-17.7	-18	11.50	11.28	11.05	10.70	10.34
13.42		-15.7	-16	12.33	12.06	11.78	11.42	11.06
13.56	Ш	-13.5	-14	12.60	12.31	12.03	11.67	11.31
14.09	Ш	-11.5	-12	13.15	12.83	12.51	12.15	11.79
14.63	Ш	-9.5	-10	13.70	13.35	13.00	12.63	12.27
15.39	Ш	-7.5	-8	14.25	13.87	13.49	13.12	12.75
16.15	Ш	-5.5	-6	14.67	14.36	14.04	13.68	13.32
16.92	Ш	-3.0	-4	15.09	14.85	14.60	14.25	13.90
16.95	Ш	-1.0	-2	15.52	15.34	15.16	14.82	14.47
16.99	Ш	1.0	0	15.94	15.83	15.72	15.38	15.04
16.92	Ш	2.0	1	16.15	16.08	16.00	15.66	15.33
16.85	Ш	3.0	2	16.15	16.08	16.00	15.66	15.33
16.81	Ш	5.0	4	16.15	16.08	16.00	15.66	15.33
	Ш	7.0	6	16.15	16.08	16.00	15.66	15.33
	Ш	9.0	8	16.93	16.82	16.72	16.39	16.06
		11.5	10	17.70	17.57	17.44	17.12	16.80
		13.5	12	18.49	18.28	18.08	17.43	16.78
		15.5	14	19.27	19.00	18.72	17.74	16.75
		16.5	16	19.67	19.36	19.04	17.89	16.74
	1							

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(kW)

Model FDTC140VSXWTVH

Indoor unit FDTC50VH (3 units)

Outdoor unit FDC140VSX-W

Cooling m	ode
Outdoor	4.0

0.11							Ind	oor air t	empera	ture						
Outdoor air temp.	18 °	CDB	21 °	CDB	23 °	CDB	26 °	CDB	27 °	CDB	28 °	CDB	31 °	CDB	33 °	CDB
all temp.	12 °C	CWB	14 °	CWB	16 °C	CWB	18 °0	CWB	19 °	CWB	20 °	CWB	22 °	CWB	24 °C	CWB
°CDB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
-15							11.46	11.23	12.05	11.80	12.38	12.13	13.04	12.78	13.70	13.42
-10							11.46	11.23	12.05	11.80	12.38	12.13	13.04	12.78	13.70	13.42
-5							11.48	11.25	12.08	11.84	12.43	12.18	13.13	12.87	13.84	13.56
0					11.06	10.84	12.02	11.78	12.51	12.26	12.88	12.62	13.63	13.36	14.38	14.09
5					11.84	11.60	12.57	12.32	12.93	12.67	13.33	13.06	14.13	13.85	14.93	14.63
11					12.32	12.07	13.17	12.90	13.59	13.32	14.01	13.73	14.86	14.56	15.70	15.39
13					12.80	12.54	13.77	13.49	14.25	13.97	14.70	14.40	15.59	15.28	16.48	16.15
15					13.28	13.01	14.37	14.08	14.91	14.61	15.38	15.07	16.32	15.99	17.26	16.92
17					13.49	13.22	14.46	14.17	14.94	14.65	15.42	15.11	16.36	16.03	17.30	16.95
19					13.50	13.23	14.55	14.26	14.98	14.68	15.45	15.14	16.40	16.07	17.34	16.99
21					13.56	13.29	14.54	14.25	14.97	14.67	15.43	15.12	16.35	16.02	17.26	16.92
23					13.63	13.35	14.53	14.24	14.95	14.65	15.40	15.09	16.29	15.97	17.19	16.85
25			12.78	12.53	13.66	13.39	14.52	14.23	14.95	14.65	15.39	15.08	16.27	15.94	17.15	16.81
27			12.89	12.63	13.69	13.42	14.52	14.23	14.94	14.64	15.63	15.32	16.33	16.00		
29			12.64	12.39	13.45	13.18	14.28	14.00	14.70	14.41	15.42	15.11	16.13	15.80		
31			12.39	12.15	13.21	12.95	14.05	13.76	14.47	14.18	15.20	14.89	15.93	15.61		
33	10.35	10.14	11.45	11.22	12.97	12.71	13.81	13.53	14.24	13.95	14.98	14.68	15.73	15.41		
35	10.27	10.07	11.29	11.07	12.73	12.48	13.57	13.30	14.00	13.72	14.76	14.47	15.53	15.22		
37	10.21	10.01	11.14	10.92	12.48	12.23	13.31	13.04	13.73	13.46	14.47	14.18	15.21	14.91		
39	10.15	9.95	10.98	10.76	12.22	11.98	13.05	12.79	13.46	13.19	14.18	13.89	14.89	14.60		
41	10.10	9.89	10.83	10.61	11.97	11.73	12.78	12.53	13.19	12.93	13.89	13.61	14.58	14.29		
43	10.04	9.84	10.68	10.46	11.72	11.48	12.52	12.27	12.92	12.67	13.59	13.32	14.26	13.98		
46	9.24	9.06	9.77	9.57	10.56	10.35	11.11	10.89	11.40	11.17	11.83	11.59	12.25	12.01		
50	8.45	8.28	8.86	8.68	9.40	9.21	9.71	9.51	9.88	9.68	10.06	9.86	10.24	10.03		

Out	door		Indoor	air temp	erature	!
air te	emp.			°CDB		
°CDB	°CWB	16	18	20	22	24
-19.8	-20	12.26	12.08	11.90	11.84	11.77
-17.7	-18	13.37	13.22	13.07	12.83	12.59
-15.7	-16	14.48	14.36	14.24	13.82	13.40
-13.5	-14	14.76	14.63	14.49	14.11	13.72
-11.5	-12	15.34	15.17	15.00	14.68	14.36
-9.5	-10	15.91	15.70	15.50	15.25	15.00
-7.5	-8	16.48	16.24	16.00	15.82	15.64
-5.5	-6	16.48	16.24	16.00	15.82	15.64
-3.0	-4	16.48	16.24	16.00	15.82	15.64
-1.0	-2	16.48	16.24	16.00	15.82	15.64
1.0	0	16.48	16.24	16.00	15.82	15.64
2.0	1	16.48	16.24	16.00	15.82	15.64
3.0	2	16.48	16.24	16.00	15.82	15.64
5.0	4	16.48	16.24	16.00	15.82	15.64
7.0	6	16.48	16.24	16.00	15.82	15.64
9.0	8	17.27	17.08	16.90	16.64	16.39
11.5	10	18.06	17.93	17.79	17.47	17.14
13.5	12	18.86	18.66	18.45	17.78	17.12
15.5	14	19.67	19.39	19.10	18.10	17.09
16.5	16	20.07	19.75	19.43	18.26	17.08

(kW) Heating mode:HC

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Notes(1) These data show average status.

Depending on the system control, there may be ranges where the operation is not conducted continuously. These data show the case where the operation frequency of a compressor is fixed.

In the heating mode in which the outside air temperature is 0°CDB or less, the compressor operates at maximum frequency. (2) Capacities are based on the following conditions.

(2) Capacities are based on the following condition
Corresponding refrigerant piping length: 7.5m
Level difference of Zero.

(3) Symbols are as follows
TC: Total cooling capacity (kW)
SHC: Sensible heat capacity (kW)
HC: Heating capacity (kW)

(kW)

(kW)

(3) Duct connected-High static pressure type (FDU)

Indoor unit FDU100VH Outdoor unit FDC100VNX-W Model FDU100VNXWVH Cooling mode

Indoor air temperature Outdoo 18 °CDB 21 °CDB 23 °CDB 26 °CDB 27 °CDB 28 °CDB 31 °CDB 33 °CDB air temp 14 °CWB 12 °CWB 16 °CWB 18 °CWB 19 °CWB 20 °CWB 24 °CWB 22 °CWB °CDB TC SHC TC SHC TC TC SHC TC SHC TC 11.26 8.21 11.76 8.10 12.09 7.95 12.75 8.30 13.41 7.94 -10 11.26 8.21 11.76 8.10 12.09 7.95 12.75 8.30 13.41 7.94 -5 11.26 8.21 11.76 8.10 12.09 7.95 12 75 8 30 13.41 7.94 10.51 7.60 11.35 8.23 11.76 8.10 12.11 7.95 12.80 8.31 13.49 7.95 10.77 7.68 11.43 8.26 11.76 8.10 12.13 7.95 12.85 8.32 13.58 7.96 11 10.68 7.65 11.33 8.23 11.66 8.08 12.02 7.93 12.75 8.30 13.47 7.95 11.56 8.05 13 15 12 64 8 28 10.50 7.60 11.45 8.02 12.54 8.26 11.13 8.17 11.81 7.88 17 10.34 7.55 10.98 8.13 11.30 7.98 11.65 7.84 12.37 8.22 13.08 7.88 19 10.21 7.50 10.82 8.09 11.14 7.94 11.49 7.80 12.20 8.19 12.90 7.85 21 10.10 7.47 10 71 8 05 1102 791 11.36 7.77 12 03 8 16 12.71 7.82 10.90 7.88 7.43 11.22 7.74 9.98 10.59 8.02 11.87 8.12 7.79 9.35 7.78 9.93 7.42 10.53 8.00 10.83 7.86 11.15 7.72 12.43 7.77 9.30 7.77 9.87 7.40 10.47 7.99 10.77 7.85 11.27 7.75 11.77 8.10 29 9.12 7.70 9.70 7.35 10.29 7.94 10.58 7.80 11.10 7.71 11.63 8.08 7.64 7.29 10.10 7.89 10.39 7.75 10.94 7.67 11.48 8.05 8.94 9.53 33 35 8.48 7.14 8.77 7.58 7.24 7.84 11.34 8.02 8.22 7.04 8.55 7.51 9.18 7.19 9.74 7.80 10.00 7.66 10.60 7.59 11.20 7.99 9.53 7.74 10.37 7.54 37 7.99 6.95 8.33 7.44 8.97 7.13 9.80 7.61 10.93 7.94 39 7.76 6.87 8.11 7.36 8.76 7.06 9.33 7.69 9.60 10.14 7.49 10.67 7.89 9.90 7.44 7.64 9.40 7.52 10.41 7.85 10.15 7.80 7.30 6.70 7.68 7.22 8.34 6.94 8.91 7.58 9.20 7.47 9.67 7.39

8.44 7.47

8.75 7.37

(kW)	ŀ	Heating	mode:h	НС				(kW)
		Oute	door		Indoor	air temp	erature	;
DB		air te	emp.			°CDB		
ΝB		°CDB	°CWB	16	18	20	22	24
SHC		-19.8	-20	10.06	9.87	9.70	9.53	9.35
7.94		-17.7	-18	10.14	9.98	9.82	9.65	9.47
7.94		-15.7	-16	10.23	10.08	9.94	9.77	9.59
7.94		-13.5	-14	10.55	10.37	10.20	10.01	9.81
7.95		-11.5	-12	11.14	10.93	10.70	10.47	10.23
7.96		-9.5	-10	11.31	11.25	11.20	10.95	10.71
7.95		-7.5	-8	11.31	11.25	11.20	10.96	10.73
7.93		-5.5	-6	11.31	11.25	11.20	10.96	10.73
7.91		-3.0	-4	11.31	11.25	11.20	10.96	10.73
7.88		-1.0	-2	11.31	11.25	11.20	10.96	10.73
7.85		1.0	0	11.31	11.25	11.20	10.96	10.73
7.82		2.0	1	11.31	11.25	11.20	10.96	10.73
7.79		3.0	2	11.31	11.25	11.20	10.96	10.73
7.77		5.0	4	11.31	11.25	11.20	10.96	10.73
		7.0	6	11.31	11.25	11.20	10.96	10.73
		9.0	8	11.85	11.78	11.70	11.47	11.24
		11.5	10	12.39	12.30	12.21	11.98	11.76
		13.5	12	12.94	12.88	12.82	12.66	12.49
		15.5	14	13.49	13.46	13.43	13.33	13.22
		16.5	16	13.77	13.75	13.74	13.66	13.59
	Ι'							

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Model FDU100VSXWVH

6.78 6.52

7.16 7.02

46

Indoor unit FDU100VH

7.83 6.80

Outdoor unit FDC100VSX-W

9.73 7.72

9.24 7.30

mouoi .			••		114001	unit -					Outdoc	, and				4				
Cooling m	ode															(kW)) Hea	ting	mode:	:HC
							Ind	oor air t	tempera	ture								Outo	door	
Outdoor air temp.	18 °	CDB	21 °	CDB	23 °	CDB	26 °	CDB	27 °	CDB	28 °	CDB	31 °	CDB	33 °	CDB	í	air te	emp.	
un temp.	12 °	CWB	14 °	CWB	16 °	CWB	18 °	CWB	19 °	CWB	20 °C	CWB	22 °	CWB	24 °	CWB	°C	DB	°CWB	1
°CDB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	-19	9.8	-20	10.
-15							11.26	8.21	11.76	8.10	12.09	7.95	12.75	8.30	13.41	7.94	-17	7.7	-18	10.
-10							11.26	8.21	11.76	8.10	12.09	7.95	12.75	8.30	13.41	7.94	-15	5.7	-16	11.3
-5							11.26	8.21	11.76	8.10	12.09	7.95	12.75	8.30	13.41	7.94	-13	3.5	-14	11.
0					10.51	7.60	11.35	8.23	11.76	8.10	12.11	7.95	12.80	8.31	13.49	7.95	-11	1.5	-12	11.
5					10.77	7.68	11.43	8.26	11.76	8.10	12.13	7.95	12.85	8.32	13.58	7.96	-9	.5	-10	11.
11					10.68	7.65	11.33	8.23	11.66	8.08	12.02	7.93	12.75	8.30	13.47	7.95	-7	.5	-8	11.
13					10.59	7.62	11.23	8.20	11.56	8.05	11.92	7.90	12.64	8.28	13.36	7.93	-5	.5	-6	11.
15					10.50	7.60	11.13	8.17	11.45	8.02	11.81	7.88	12.54	8.26	13.26	7.91	-3	.0	-4	11.
17					10.34	7.55	10.98	8.13	11.30	7.98	11.65	7.84	12.37	8.22	13.08	7.88	-1	.0	-2	11.
19					10.21	7.50	10.82	8.09	11.14	7.94	11.49	7.80	12.20	8.19	12.90	7.85	1.	.0	0	11.
21					10.10	7.47	10.71	8.05	11.02	7.91	11.36	7.77	12.03	8.16	12.71	7.82	2.	.0	1	11.
23					9.98	7.43	10.59	8.02	10.90	7.88	11.22	7.74	11.87	8.12	12.52	7.79	3.		2	11.
25			9.35	7.78	9.93	7.42	10.53	8.00	10.83	7.86	11.15	7.72	11.79	8.11	12.43	7.77	5.	.0	4	11.
27			9.30	7.77	9.87	7.40	10.47	7.99	10.77	7.85	11.27	7.75	11.77	8.10			7.	_	6	11.
29			9.12	7.70	9.70	7.35	10.29	7.94	10.58	7.80	11.10	7.71	11.63	8.08			9.	_	8	11.
31			8.94	7.64	9.53	7.29	10.10	7.89	10.39	7.75	10.94	7.67	11.48	8.05			11	_	10	12.
33	8.48	7.14	8.77	7.58	9.35	7.24	9.92	7.84	10.19	7.71	10.77	7.63	11.34	8.02			13	_	12	12.
35	8.22	7.04	8.55	7.51	9.18	7.19	9.74	7.80	10.00	7.66	10.60	7.59	11.20	7.99			15		14	13.
37	7.99	6.95	8.33	7.44	8.97	7.13	9.53	7.74	9.80	7.61	10.37	7.54	10.93	7.94			16	.5	16	13.
39	7.76	6.87	8.11	7.36	8.76	7.06	9.33	7.69	9.60	7.56	10.14	7.49	10.67	7.89			i			
41	7.53	6.78	7.89	7.29	8.55	7.00	9.12	7.64	9.40	7.52	9.90	7.44	10.41	7.85			i			
43	7.30	6.70	7.68	7.22	8.34	6.94	8.91	7.58	9.20	7.47	9.67	7.39	10.15	7.80			i		_	
46	6.78	6.52	7.16	7.02	7.83	6.80	8.44	7.47	8.75	7.37	9.24	7.30	9.73	7.72			i			

Out	door		Indoor	air temp	erature)
air te	emp.			°CDB		
°CDB	°CWB	16	18	20	22	24
-19.8	-20	10.22	9.96	9.70	9.40	9.10
-17.7	-18	10.76	10.60	10.45	10.16	9.88
-15.7	-16	11.31	11.25	11.19	10.92	10.65
-13.5	-14	11.31	11.25	11.19	10.93	10.67
-11.5	-12	11.31	11.25	11.20	10.94	10.69
-9.5	-10	11.31	11.25	11.20	10.95	10.71
-7.5	-8	11.31	11.25	11.20	10.96	10.73
-5.5	-6	11.31	11.25	11.20	10.96	10.73
-3.0	-4	11.31	11.25	11.20	10.96	10.73
-1.0	-2	11.31	11.25	11.20	10.96	10.73
1.0	0	11.31	11.25	11.20	10.96	10.73
2.0	1	11.31	11.25	11.20	10.96	10.73
3.0	2	11.31	11.25	11.20	10.96	10.73
5.0	4	11.31	11.25	11.20	10.96	10.73
7.0	6	11.31	11.25	11.20	10.96	10.73
9.0	8	11.85	11.78	11.70	11.47	11.24
11.5	10	12.39	12.30	12.21	11.98	11.76
13.5	12	12.94	12.88	12.82	12.66	12.49
15.5	14	13.49	13.46	13.43	13.33	13.22
16.5	16	13.77	13.75	13.74	13.66	13.59

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Notes(1) These data show average status.

Depending on the system control, there may be ranges where the operation is not conducted continuously.

6.27 6.14 6.64 6.51 7.32 6.66 7.96 7.35 8.30 7.26 8.81 7.21 9.32 7.65

These data show the case where the operation frequency of a compressor is fixed.

In the heating mode in which the outside air temperature is 0°CDB or less, the compressor operates at maximum frequency. (2) Capacities are based on the following conditions.

Corresponding refrigerant piping length :7.5m

Level difference of Zero.

(3) Symbols are as follows

TC: Total cooling capacity (kW) SHC :Sensible heat capacity (kW) HC: Heating capacity (kW)

Model FDU125VNXWVH Indoor unit FDU125VH Outdoor unit FDC125VNX-W (kW) (kW) Indoor air temperature Indoor air temperature Outdoor Outdoo air temp 18 °CDB 21 °CDB 23 °CDB 26 °CDB 27 °CDB 28 °CDB 31 °CDB 33 °CDB air temr 18 12 °CWB 14 °CWB 16 °CWB 18 °CWB 19 °CWB 20 °CWB 22 °CWB 24 °CWB °сов I °сwв 20 24 16 22 °CDB -19 8 TC SHC -20 10.37 10 18 10.00 9.82 9 64 -15 10.49 10.47 10.99 14.07 10.80 -17.7 -18 9.74 11.89 10.40 10.43 10.26 10.10 9.92 -10 11.89 10.49 12.37 10.47 12.71 10.40 13.39 10.99 14.07 10.80 -15.7 -16 10.49 10.34 10.19 10.02 9.84 -5 11.95 10.51 12.57 10.55 12.94 10.48 13.67 11.08 14.40 10.90 -13.5 -14 10.79 10.61 10.44 10.24 10.04 0 12.71 10.81 11.69 14.40 -11.5 11.37 11.15 10.92 10.68 10.44 9.88 13.21 10.79 13.61 10.73 11.33 15.19 11.15 5 12.68 10.31 13.46 11.11 15.14 11.58 15.99 11.40 13.85 11.04 14.28 10.98 -9.5 -10 11.96 11.68 11.40 11.12 10.84 11 12.84 10.38 13.62 11.18 14.01 11.10 14 44 11 04 11.64 16.18 11.46 -7.5 -8 12.55 12.22 11.88 11.56 11.23 13 12.99 10.45 13.77 11.24 14.16 11.16 14.60 11.10 15.49 11.71 16.38 11.53 -5.5 -6 12.90 12.63 12.35 12.03 11.72 15 11.77 16.57 11.59 12.20 13.14 10.51 13.92 11.30 14.31 11.22 14.77 11.16 15.67 -3.0 13.25 13.04 12.51 12.82 17 12.94 10.43 13.73 11.22 14.12 11.15 14.57 11.09 15.46 11.69 16.35 11.52 -1.0 -2 13.61 13.45 13.29 12.99 12.69 12.76 10.35 13.93 11.07 1.0 19 13.53 11.14 14 37 11.01 11.62 16.12 11.44 0 15.24 13.96 13.86 13.76 13.47 13.17 21 12 62 10 29 13 38 11 08 13.77 11.01 14.20 10.95 15.04 11.55 15.89 11.37 2.0 1 14.13 14.07 14.00 13.71 13.41 23 15.65 11.30 2 14.13 13.71 13.41 12.48 10.23 13.23 11.02 13.62 10.95 14.03 10.88 14.84 11.48 3.0 14.07 14.00 25 10.44 12.41 13.16 10.99 13.54 14.74 11.45 15.54 11.26 4 13.71 11.69 10.20 10.92 13.94 10.85 5.0 14.13 14.07 14.00 13.41 11.44 13 46 27 29 11.62 10.41 12.34 10.16 13.08 10.96 10.89 14.09 10.91 1471 14.13 14.07 13.41 11.40 10.30 12.12 10.07 12.86 10.87 13.22 10.80 13.88 10.83 14.53 11.37 9.0 8 14.81 14.72 14.63 14.34 14.06 11.5 10 15.49 15.37 15.26 14.98 14.70 31 11.17 10.20 11.91 9.98 12.63 10.78 12.98 10.71 13.67 10.75 14.35 11.31 33 10.36 9.42 10.84 10.05 11.69 9.88 12.40 10.69 12.74 10.61 13.46 10.67 14.18 11.25 13.5 12 16.18 16.10 16.02 15.74 15.45 35 10.33 9.40 10.71 9.99 11.47 9.79 12.18 10.60 12.50 10.52 10.59 14.00 15.5 14 16.87 | 16.83 | 16.79 | 16.49 | 16.20 10.43 10.03 9.26 9.86 11 21 9.68 11.92 10.50 12.25 10.43 12.96 10.49 13.67 11 08 16 17 21 17 19 17 17 16 87 16 57 39 9.73 9.11 10.16 9.74 10.95 9.57 11.66 10.39 12.00 10.33 12.67 10.38 13.34 10.97 11.40 10.29 11.75 10.24 41 9.43 8.97 9.88 9.61 10.68 9.46 12.38 10.28 13.01 10.86 43 9.13 8.82 9.60 9.41 10.42 9.35 11.14 10.19 11.50 10.14 12.09 10.17 12.69 10.75 46 8 49 8.32 8.78 9.81 9.09 10.44 9.92 10.70 9.85 9.81 11 47 PJG000Z649 ∕€\ 8.96 11.08 10.35 7.69 8.16 9.19 8.84 9.74 9.54 9.90 9.55 10.08 9.46 7.85 8 33 10.26

Model FDU125VSXWVH Indoor unit FDU125VH Outdoor unit FDC125VSX-W (kW) Heating mode:HC (kW) Cooling mode Indoor air temperature Indoor air temperature Outdoo air temp 18 °CDB 21 °CDB 23 °CDB 26 °CDB 27 °CDB 28 °CDB 31 °CDB 33 °CDB °CDB air temp 12 °CWB 14 °CWB 16 °CWB 18 °CWB 19 °CWB 20 °CWB 24 °CWB 22 °CWB °CDB °CWB 16 18 20 22 24 °CDB TC SHC 19.8 -20 11 30 11 10 10.90 10.70 10.50 -15 11.89 10.49 12.37 10.47 10.40 13.39 10.99 14.07 10.80 17 7 -18 11.98 11.75 11.52 11.34 11.16 -10 11.89 10.49 12.37 10.47 12.71 10.40 13.39 10.99 14.07 10.80 -15.7 -16 12.63 12.45 12.05 11.84 12.27 13.67 11.08 11.95 10.51 12.57 10.55 12.94 10.48 14.40 10.90 -13.5-14 12.84 12.68 12.51 12.29 12.06 0 11.15 -12 13.27 11.69 9.88 14.40 11.33 15.19 11.5 13.14 13.01 12.76 12.51 12.71 10.81 10.79 13.61 10.73 13.21 12.68 10.31 5 13.46 11.11 13.85 11.04 14.28 10.98 15.14 11.58 -9.5 -10 14.13 14.07 14.00 13.71 13.41 11 12 84 10 38 13.62 14 01 11.10 14 44 11.04 15.31 11.64 16.18 11.46 -7.5 14.07 14.00 13.71 13.41 11.18 14.13 13 12.99 10.45 13.77 11.24 14.16 11.16 14.60 11.10 15.49 11.71 16.38 11.53 -5.5 -6 14.13 14.07 14.00 13.71 13.41 14.07 14.00 13.71 13.41 15 13.14 10.51 13.92 11.30 14.31 14.77 11.16 15.67 11.77 16.57 11.59 -3.0 14.13 11.22 11.22 11.52 17 12.94 10.43 13.73 14.12 11.15 14.57 11.09 15.46 11.69 16.35 -1.0 14.13 14.07 14.00 13.71 13.41 19 12.76 10.35 13.53 11.14 13.93 11.07 14.37 11.01 15.24 11.62 16.12 11.44 1.0 14.00 13.71 13.41 0 14.13 14.07 21 12 62 10 29 13.38 11.08 13.77 11.01 14 20 10 95 15.04 11.55 15.89 11.37 2.0 14.13 14.07 14.00 13.71 13.41 12.48 10.23 13.23 11.02 13.62 10.95 14.03 10.88 14.84 11.48 15.65 11.30 3.0 14.13 14.07 14.00 | 13.71 | 13.41 14.07 14.00 11.69 10.44 12.41 10.20 10.99 13.54 13.94 10.85 14.74 11.45 15.54 11.26 5.0 14.13 25 13.16 10.92 14.00 27 11.62 10.41 12.34 10.16 13.08 10.96 13.46 10.89 14.09 10.91 14.71 11.44 7.0 6 14.13 14.07 13.71 13.41 11 40 10 30 12 12 10 07 12.86 10.87 13 22 10.80 13.88 10.83 14.53 11.37 9.0 14 81 14.72 14.63 14.34 14.06 29 31 11.17 10.20 11.91 9.98 12.63 10.78 12.98 10.71 13.67 10.75 14.35 11.31 11.5 10 15.49 15.37 15.26 14.98 14.70 12 16.18 16.10 16.02 15.74 15.45 33 10.36 9.42 10.69 14.18 11.25 13.5 10.84 10.05 11.69 9.88 12.40 12.74 10.61 13.46 10.67

13.25 10.59

12.38 10.28

12.09 10.17

12 96 10.49

12.67 10.38

11.08 9.81

9.90 9.55 10.08 9.46

14.00 11.19

13.67 11.08

13.34 10.97

13.01 10.86

12.69 10.75

11.47 10.35

10.26 9.96

16.87

16.83 16.79 16.49 16.20

17 19 17 17 16 87 16 57

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14

15.5 16

16.5

7.85 7.69 8.33 8.16 Notes(1) These data show average status

9.40

10.71 9.99

10.16 9.74

9.60 9.41

8.96

8.78

10.33

10.03 9.26 10.43 9.86

9.73 9.11

9.43 8.97 9.88 9.61

9.13 8.82

8 49 8.32

35

39

41

43

46

Depending on the system control, there may be ranges where the operation is not conducted continuously. These data show the case where the operation frequency of a compressor is fixed.

10 43

10.14

In the heating mode in which the outside air temperature is 0°CDB or less, the compressor operates at maximum frequency. (2) Capacities are based on the following conditions. Corresponding refrigerant piping length: 7.5m

10.60

9.92

12.18

11.92 10.50

11.14 10.19 11.50

10.44

11.66 10.39

11.40 10.29

9.74 9.54

12.50 10.52

12.00 10.33

11.75 10.24

10.70 9.85

11.47 9.79

11.21 9.68

10.95 9.57

10.68 9.46

10.42 9.35

9.81 9.09

9.19 8.84

Level difference of Zero. (3) Symbols are as follows

:Total cooling capacity (kW) SHC :Sensible heat capacity (kW) HC: Heating capacity (kW)

PJG000Z649 ∕€\

Indoor unit FDU140VH Outdoor unit FDC140VNX-W Model FDU140VNXWVH (kW) (kW) Indoor air temperature Outdoor Indoor air temperature Outdoo air temp 18 °CDB 21 °CDB 23 °CDB 26 °CDB 27 °CDB 28 °CDB 31 °CDB 33 °CDB °CDB air temp 12 °CWB 14 °CWB 16 °CWB 18 °CWB 19 °CWB 20 °CWB 22 °CWB 24 °CWB °CDB °CWB 16 18 20 22 24 °CDB 19.8 -20 11 01 10.95 10 42 TC SHC 10.90 10.66 -15 11.46 10.69 10.64 10.51 13.04 11.16 13.70 10.85 -17.7 -18 11.50 11.28 11.05 10.70 10.34 -10 11.46 10.69 12.05 10.64 12.38 10.51 13.04 11.16 13.70 10.85 -15.7 -16 12.33 12.06 11.78 11.42 11.06 11.48 10.69 12.08 10.65 12.43 10.52 13.13 11.18 13.84 10.88 -13.5 -14 12.60 12.31 12.03 11.67 11.31 0 11.30 11.06 9.86 12.02 10.77 12.88 10.64 14.38 10.99 -11.5 13.15 12.83 12.51 12.15 11.79 10.86 12.51 13.63 11.02 5 11.84 10.13 12.57 12.93 10.89 13.33 10.77 14.13 11.42 14.93 11.11 -9.5 -10 13.70 13.35 13.00 12.63 12.27 11 12.32 10.29 13.17 11 21 13.59 11.09 14.01 10.95 14.86 11.59 15.70 11 27 -7.5 -8 14.25 13.87 13.49 13.12 12.75 13 12.80 10.46 13.77 11.40 14.25 11.28 14.70 11.15 15.59 11.77 16.48 11.44 -5.5 -6 14.67 | 14.36 | 14.04 | 13.68 | 13.32 15 13.28 10.63 14.37 14.91 11.48 15.38 11.34 16.32 11.96 17.26 11.61 -3.0 15.09 14.85 14.60 14.25 13.90 11.59 17 13.49 10.70 14.46 11.62 14.94 11.49 15.42 11.35 16.36 11.97 17.30 11.62 -1.0 -2 15.52 15.34 15.16 14.82 14.47 19 13.50 10.70 14.55 11.65 14.98 11.50 15.45 11.36 16.40 11.98 17.34 11.63 1.0 0 15.94 15.83 15.72 15.38 15.04 21 13.56 10.73 14.54 11.64 14.97 11.50 15.43 11.35 16.35 11.97 17.26 11.61 2.0 1 16.15 16.08 16.00 15.66 15.33 23 3.0 14.53 11.64 17.19 11.60 16.15 | 16.08 | 16.00 | 15.66 | 15.33 13.63 10.75 14.95 11.49 15.40 11.35 16.29 11.95 12.78 11.15 13.66 10.76 14.52 11.64 14.95 11.49 15.39 11.34 16.27 11.95 17.15 11.59 5.0 16.15 16.08 16.00 15.66 15.33 25 16.08 16.00 15.66 12 89 11.19 13.69 10.77 14.52 11.64 14 94 11 49 15.63 11.41 27 29 16.33 11.96 9.0 12.64 11.09 13.45 10.69 14.28 11.56 14.70 11.42 15.42 11.35 16.13 11.91 16.93 16.82 16.72 16.39 16.06 17.70 17.57 17.44 17.12 16.80 11.5 10 31 12.39 10.99 13.21 10.60 14.05 11.48 14.47 11.35 15.20 11.29 15.93 11.86 10.35 9.67 11.41 14.24 11.28 12 18.49 18.28 18.08 17.43 16.78 33 11.45 10.63 12.97 10.52 13.81 14.98 11.23 15.73 11.81 13.5 14.76 11.16 14.00 11.21 19.27 19.00 18.72 17.74 16.75 35 10.27 9.64 11.29 10.57 12.73 10.43 13.57 11.34 15.53 11.76 15.5 9.62 11.14 10.51 12.48 10.35 13 31 11.25 13.73 11.13 14.47 11.08 15.21 11.68 19.67 19.36 19.04 17.89 16.74 39 10.15 9.60 10.98 10.46 12.22 10.26 13.05 11.17 13.46 11.05 14.18 11.00 14.89 11.60 41 10.83 10.40 11.97 10.17 12.78 13.19 10.97 13.89 10.92 14.58 11.52 10.10 9.57 11.09 43 10.04 9.55 10.68 10.34 11.72 10.08 12.52 11.01 12.92 10.89 13.59 10.84 14.26 11.45 46 9 24 9.06 9.77 9.57 10.56 9.70 11.11 10.59 11.40 10.46 11.83 10.36 12.25 10.97 PJG000Z649 ∕€\ 8.86 8.68 9.40 9.21 9.71 9.51 9.88 9.68 10.06 9.86 10.24 10.03

Cooling m	ode															(kW)	Heating	mode:F	4C				(kW)
Jooming III	ouc						Inde	oor air t	empera	ture						()		door		Indoor	air temr	perature	,,,,,,
Outdoor	18 °	CDB	B 21 °CDB 23 °CDB 26 °CDB 27 °CDB 28 °CDB 31 °CDB 33 °										33 °	CDB		emp.			°CDB				
air temp.	12 °C			CWB		CWB	_	CWB		CWB	20 °C		_	CWB	24 °C	_	°CDB	°CWB	16	18	20	22	24
°CDB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	-19.8	-20	12.26	12.08	11.90	11.84	11.77
-15	10	3110	10	3110	-10	3110	11.46	10.69	12.05	10.64	12.38	10.51	13.04	11.16	13.70	10.85	-17.7	-18	13.37	13.22	13.07	12.83	12.59
-10							11.46	10.69	12.05	10.64	12.38	10.51	13.04	11.16	13.70	10.85	-17.7	-16	14.48	14.36	14.24	13.82	13.40
-5							11.48	10.69	12.03	10.65	12.43	10.51	13.13	11.18	13.84	10.88	-13.7	-14	14.46	14.63	14.49	14.11	13.72
0					11.06	9.86	12.02	10.86	12.51	10.77	12.43	10.64	13.63	11.30	14.38	10.99	-11.5	-12	15.34	15.17	15.00	14.68	14.36
5					11.84	10.13	12.57	11.02	12.93	10.89	13.33	10.77	14.13	11.42	14.93	11.11	-9.5	-10	15.91	15.70	15.50	15.25	15.00
11					12.32	10.29	13.17	11.21	13.59	11.09	14.01	10.95	14.86	11.59	15.70	11.27	-7.5	-8	16.48	16.24	16.00	15.82	15.64
13					12.80	10.46	13.77	11.40	14.25	11.28	14.70	11.15	15.59	11.77	16.48	11.44	-5.5	-6	16.48	16.24	16.00	15.82	15.64
15					13.28	10.63	14.37	11.59	14.91	11.48	15.38	11.34	16.32	11.96	17.26	11.61	-3.0	-4	16.48	16.24	16.00	15.82	15.64
17					13.49	10.70	14.46	11.62	14.94	11.49	15.42	11.35	16.36	11.97	17.30	11.62	-1.0	-2	16.48	16.24	16.00	15.82	15.64
19					13.50	10.70	14.55	11.65	14.98	11.50	15.45	11.36	16.40	11.98	17.34	11.63	1.0	0	16.48	16.24	16.00	15.82	15.64
21					13.56	10.73	14.54	11.64	14.97	11.50	15.43	11.35	16.35	11.97	17.26	11.61	2.0	1	16.48	16.24	16.00	15.82	15.64
23					13.63	10.75	14.53	11.64	14.95	11.49	15.40	11.35	16.29	11.95	17.19	11.60	3.0	2	16.48	16.24	16.00	15.82	15.64
25			12.78	11.15	13.66	10.76	14.52	11.64	14.95	11.49	15.39	11.34	16.27	11.95	17.15	11.59	5.0	4	16.48	16.24	16.00	15.82	15.64
27			12.89	11.19	13.69	10.77	14.52	11.64	14.94	11.49	15.63	11.41	16.33	11.96			7.0	6	16.48	16.24	16.00	15.82	15.64
29			12.64	11.09	13.45	10.69	14.28	11.56	14.70	11.42	15.42	11.35	16.13	11.91			9.0	8	17.27	17.08	16.90	16.64	16.39
31			12.39	10.99	13.21	10.60	14.05	11.48	14.47	11.35	15.20	11.29	15.93	11.86			11.5	10	18.06	17.93	17.79	17.47	17.14
33	10.35	9.67	11.45	10.63	12.97	10.52	13.81	11.41	14.24	11.28	14.98	11.23	15.73	11.81			13.5	12	18.86	18.66	18.45	17.78	17.12
35	10.27	9.64	11.29	10.57	12.73	10.43	13.57	11.34	14.00	11.21	14.76	11.16	15.53	11.76			15.5	14	19.67	19.39	19.10	18.10	17.09
37	10.21	9.62	11.14	10.51	12.48	10.35	13.31	11.25	13.73	11.13	14.47	11.08	15.21	11.68			16.5	16	20.07	19.75	19.43	18.26	17.08

14.18 11.00

13.89 10.92

13.59 10.84

11.83 10.36

10.06 9.86

14.89 11.60

14.58 11.52

14.26 11.45

10.24 10.03

Notes(1) These data show average status.

9.06

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10.15 9.60

10.10 9.57

10.04 9.55

Depending on the system control, there may be ranges where the operation is not conducted continuously. These data show the case where the operation frequency of a compressor is fixed.

13.05 11.17

12.78 11.09

11.11 10.59

9.71 9.51

12.52 11.01 12.92 10.89

In the heating mode in which the outside air temperature is 0°CDB or less, the compressor operates at maximum frequency. (2) Capacities are based on the following conditions.

13.46 11.05

13.19 10.97

11.40 10.46

9.88 9.68

Corresponding refrigerant piping length :7.5m

10.98 10.46

10.83 10.40

10.68 10.34

9.77 9.57

8.45 8.28 8.86 8.68 9.40 9.21

12.22 10.26

11.97 10.17

11.72 10.08

10.56 9.70

Level difference of Zero.

(3) Symbols are as follows
TC: Total cooling capacity (kW)
SHC: Sensible heat capacity (kW)
HC: Heating capacity (kW)

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(4) Duct connected-Low / Middle static pressure type (FDUM)

(a) Single type

Model FDUM100VNXWVH Indoor unit FDUM100VH Outdoor unit FDC100VNX-W

Cooling mode

							Inde	oor air t	empera	ture						
Outdoor air temp.	18 °	CDB	21 °	CDB	23 °	CDB	26 °	CDB	27 °	CDB	28 °	CDB	31 °	CDB	33 °	CDB
an tomp.	12 °C	CWB	14 °C	CWB	16 °C	CWB	18 °	CWB	19 °C	CWB	20 °C	CWB	22 °C	CWB	24 °C	CWB
°CDB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
-15							11.26	8.21	11.76	8.10	12.09	7.95	12.75	8.30	13.41	7.94
-10							11.26	8.21	11.76	8.10	12.09	7.95	12.75	8.30	13.41	7.94
-5							11.26	8.21	11.76	8.10	12.09	7.95	12.75	8.30	13.41	7.94
0					10.51	7.60	11.35	8.23	11.76	8.10	12.11	7.95	12.80	8.31	13.49	7.95
5					10.77	7.68	11.43	8.26	11.76	8.10	12.13	7.95	12.85	8.32	13.58	7.96
11					10.68	7.65	11.33	8.23	11.66	8.08	12.02	7.93	12.75	8.30	13.47	7.95
13					10.59	7.62	11.23	8.20	11.56	8.05	11.92	7.90	12.64	8.28	13.36	7.93
15					10.50	7.60	11.13	8.17	11.45	8.02	11.81	7.88	12.54	8.26	13.26	7.91
17					10.34	7.55	10.98	8.13	11.30	7.98	11.65	7.84	12.37	8.22	13.08	7.88
19					10.21	7.50	10.82	8.09	11.14	7.94	11.49	7.80	12.20	8.19	12.90	7.85
21					10.10	7.47	10.71	8.05	11.02	7.91	11.36	7.77	12.03	8.16	12.71	7.82
23					9.98	7.43	10.59	8.02	10.90	7.88	11.22	7.74	11.87	8.12	12.52	7.79
25			9.35	7.78	9.93	7.42	10.53	8.00	10.83	7.86	11.15	7.72	11.79	8.11	12.43	7.77
27			9.30	7.77	9.87	7.40	10.47	7.99	10.77	7.85	11.27	7.75	11.77	8.10		
29			9.12	7.70	9.70	7.35	10.29	7.94	10.58	7.80	11.10	7.71	11.63	8.08		
31			8.94	7.64	9.53	7.29	10.10	7.89	10.39	7.75	10.94	7.67	11.48	8.05		
33	8.48	7.14	8.77	7.58	9.35	7.24	9.92	7.84	10.19	7.71	10.77	7.63	11.34	8.02		
35	8.22	7.04	8.55	7.51	9.18	7.19	9.74	7.80	10.00	7.66	10.60	7.59	11.20	7.99		
37	7.99	6.95	8.33	7.44	8.97	7.13	9.53	7.74	9.80	7.61	10.37	7.54	10.93	7.94		
39	7.76	6.87	8.11	7.36	8.76	7.06	9.33	7.69	9.60	7.56	10.14	7.49	10.67	7.89		
41	7.53	6.78	7.89	7.29	8.55	7.00	9.12	7.64	9.40	7.52	9.90	7.44	10.41	7.85		
43	7.30	6.70	7.68	7.22	8.34	6.94	8.91	7.58	9.20	7.47	9.67	7.39	10.15	7.80		
46	6.78	6.52	7.16	7.02	7.83	6.80	8.44	7.47	8.75	7.37	9.24	7.30	9.73	7.72		
50	6.27	6.14	6.64	6.51	7.32	6.66	7.96	7.35	8.30	7.26	8.81	7.21	9.32	7.65		

(kW) Heating mode:HC

(kW) Heating mode:HC

(kW)

Oute	door		Indoor	air temp	erature	,
air te	emp.			°CDB		
°CDB	°CWB	16	18	20	22	24
-19.8	-20	10.06	9.87	9.70	9.53	9.35
-17.7	-18	10.14	9.98	9.82	9.65	9.47
-15.7	-16	10.23	10.08	9.94	9.77	9.59
-13.5	-14	10.55	10.37	10.20	10.01	9.81
-11.5	-12	11.14	10.93	10.70	10.47	10.23
-9.5	-10	11.31	11.25	11.20	10.95	10.71
-7.5	-8	11.31	11.25	11.20	10.96	10.73
-5.5	-6	11.31	11.25	11.20	10.96	10.73
-3.0	-4	11.31	11.25	11.20	10.96	10.73
-1.0	-2	11.31	11.25	11.20	10.96	10.73
1.0	0	11.31	11.25	11.20	10.96	10.73
2.0	1	11.31	11.25	11.20	10.96	10.73
3.0	2	11.31	11.25	11.20	10.96	10.73
5.0	4	11.31	11.25	11.20	10.96	10.73
7.0	6	11.31	11.25	11.20	10.96	10.73
9.0	8	11.85	11.78	11.70	11.47	11.24
11.5	10	12.39	12.30	12.21	11.98	11.76
13.5	12	12.94	12.88	12.82	12.66	12.49
15.5	14	13.49	13.46	13.43	13.33	13.22
16.5	16	13.77	13.75	13.74	13.66	13.59

PJG000Z623 🙈

Model FDUM100VSXWVH Cooling mode

Indoor unit FDUM100VH

Outdoor unit FDC100VSX-W

(kW)

0.44.							Inde	oor air t	empera	ture						
Outdoor air temp.	18 °	CDB	21 °	CDB	23 °	CDB	26 °	CDB	27 °	CDB	28 °	CDB	31 °	CDB	33 °	CDB
an temp.	12 °	CWB	14 °	CWB	16 °C	CWB	18 °C	CWB	19 °C	CWB	20 °C	CWB	22 °C	CWB	24 °C	CWB
°CDB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
-15							11.26	8.21	11.76	8.10	12.09	7.95	12.75	8.30	13.41	7.94
-10							11.26	8.21	11.76	8.10	12.09	7.95	12.75	8.30	13.41	7.94
-5							11.26	8.21	11.76	8.10	12.09	7.95	12.75	8.30	13.41	7.94
0					10.51	7.60	11.35	8.23	11.76	8.10	12.11	7.95	12.80	8.31	13.49	7.95
5					10.77	7.68	11.43	8.26	11.76	8.10	12.13	7.95	12.85	8.32	13.58	7.96
11					10.68	7.65	11.33	8.23	11.66	8.08	12.02	7.93	12.75	8.30	13.47	7.95
13					10.59	7.62	11.23	8.20	11.56	8.05	11.92	7.90	12.64	8.28	13.36	7.93
15					10.50	7.60	11.13	8.17	11.45	8.02	11.81	7.88	12.54	8.26	13.26	7.91
17					10.34	7.55	10.98	8.13	11.30	7.98	11.65	7.84	12.37	8.22	13.08	7.88
19					10.21	7.50	10.82	8.09	11.14	7.94	11.49	7.80	12.20	8.19	12.90	7.85
21					10.10	7.47	10.71	8.05	11.02	7.91	11.36	7.77	12.03	8.16	12.71	7.82
23					9.98	7.43	10.59	8.02	10.90	7.88	11.22	7.74	11.87	8.12	12.52	7.79
25			9.35	7.78	9.93	7.42	10.53	8.00	10.83	7.86	11.15	7.72	11.79	8.11	12.43	7.77
27			9.30	7.77	9.87	7.40	10.47	7.99	10.77	7.85	11.27	7.75	11.77	8.10		
29			9.12	7.70	9.70	7.35	10.29	7.94	10.58	7.80	11.10	7.71	11.63	8.08		
31			8.94	7.64	9.53	7.29	10.10	7.89	10.39	7.75	10.94	7.67	11.48	8.05		
33	8.48	7.14	8.77	7.58	9.35	7.24	9.92	7.84	10.19	7.71	10.77	7.63	11.34	8.02		
35	8.22	7.04	8.55	7.51	9.18	7.19	9.74	7.80	10.00	7.66	10.60	7.59	11.20	7.99		
37	7.99	6.95	8.33	7.44	8.97	7.13	9.53	7.74	9.80	7.61	10.37	7.54	10.93	7.94		
39	7.76	6.87	8.11	7.36	8.76	7.06	9.33	7.69	9.60	7.56	10.14	7.49	10.67	7.89		
41	7.53	6.78	7.89	7.29	8.55	7.00	9.12	7.64	9.40	7.52	9.90	7.44	10.41	7.85		
43	7.30	6.70	7.68	7.22	8.34	6.94	8.91	7.58	9.20	7.47	9.67	7.39	10.15	7.80		
46	6.78	6.52	7.16	7.02	7.83	6.80	8.44	7.47	8.75	7.37	9.24	7.30	9.73	7.72		
50	6.27	6.14	6.64	6.51	7.32	6.66	7.96	7.35	8.30	7.26	8.81	7.21	9.32	7.65		

Outo	door		Indoor	air temp	perature	:
air te	emp.			°CDB		
°CDB	°CWB	16	18	20	22	24
-19.8	-20	10.22	9.96	9.70	9.40	9.10
-17.7	-18	10.76	10.60	10.45	10.16	9.88
-15.7	-16	11.31	11.25	11.19	10.92	10.65
-13.5	-14	11.31	11.25	11.19	10.93	10.67
-11.5	-12	11.31	11.25	11.20	10.94	10.69
-9.5	-10	11.31	11.25	11.20	10.95	10.71
-7.5	-8	11.31	11.25	11.20	10.96	10.73
-5.5	-6	11.31	11.25	11.20	10.96	10.73
-3.0	-4	11.31	11.25	11.20	10.96	10.73
-1.0	-2	11.31	11.25	11.20	10.96	10.73
1.0	0	11.31	11.25	11.20	10.96	10.73
2.0	1	11.31	11.25	11.20	10.96	10.73
3.0	2	11.31	11.25	11.20	10.96	10.73
5.0	4	11.31	11.25	11.20	10.96	10.73
7.0	6	11.31	11.25	11.20	10.96	10.73
9.0	8	11.85	11.78	11.70	11.47	11.24
11.5	10	12.39	12.30	12.21	11.98	11.76
13.5	12	12.94	12.88	12.82	12.66	12.49
15.5	14	13.49	13.46	13.43	13.33	13.22
16.5	16	13.77	13.75	13.74	13.66	13.59

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Notes(1) These data show average status.

Depending on the system control, there may be ranges where the operation is not conducted continuously.

These data show the case where the operation frequency of a compressor is fixed.

In the heating mode in which the outside air temperature is 0°CDB or less, the compressor operates at maximum frequency.

(2) Capacities are based on the following conditions.

(2) Capacities are based on the following condition
Corresponding refrigerant piping length: 7.5m
Level difference of Zero.

(3) Symbols are as follows
TC: Total cooling capacity (kW)
SHC: Sensible heat capacity (kW)
HC: Heating capacity (kW)

Model F		25VNX\	WVH		Indoor	unit F	DUM12	25VH			Outdoo	or unit	FDC12	25VNX	-W				
Cooling m	node															(kW)	Heat	ing i	mo
							Ind	oor air t	empera	ture							(Outd	loo
Outdoor air temp.	18 °	CDB	21 °	CDB	23 °	CDB	26 °	CDB	27 °	CDB	28 °	CDB	31 °	CDB	33 °	CDB	а	ir tei	mţ
un temp.	12 °C	CWB	14 °0	CWB	16 °	CWB	18 °	CWB	19 °	CWB	20 °	CWB	22 °	CWB	24 °	CWB	°CE	ОВ	°C
°CDB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	-19	.8	-2
-15							11.89	10.49	12.37	10.47	12.71	10.40	13.39	10.99	14.07	10.80	-17	.7	-1
-10							11.89	10.49	12.37	10.47	12.71	10.40	13.39	10.99	14.07	10.80	-15	.7	
-5							11.95	10.51	12.57	10.55	12.94	10.48	13.67	11.08	14.40	10.90	-13	.5	-
0					11.69	9.88	12.71	10.81	13.21	10.79	13.61	10.73	14.40	11.33	15.19	11.15	-11.	.5	
5					12.68	10.31	13.46	11.11	13.85	11.04	14.28	10.98	15.14	11.58	15.99	11.40	-9.	.5	-1
11					12.84	10.38	13.62	11.18	14.01	11.10	14.44	11.04	15.31	11.64	16.18	11.46	-7.	.5	-
13					12.99	10.45	13.77	11.24	14.16	11.16	14.60	11.10	15.49	11.71	16.38	11.53	-5.	.5	_
15					13.14	10.51	13.92	11.30	14.31	11.22	14.77	11.16	15.67	11.77	16.57	11.59	-3.	.0	_
17					12.94	10.43	13.73	11.22	14.12	11.15	14.57	11.09	15.46	11.69	16.35	11.52	-1.0	.0	_
19					12.76	10.35	13.53	11.14	13.93	11.07	14.37	11.01	15.24	11.62	16.12	11.44	1.0	0	
21					12.62	10.29	13.38	11.08	13.77	11.01	14.20	10.95	15.04	11.55	15.89	11.37	2.0	0	
23					12.48	10.23	13.23	11.02	13.62	10.95	14.03	10.88	14.84	11.48	15.65	11.30	3.0	0	
25			11.69	10.44	12.41	10.20	13.16	10.99	13.54	10.92	13.94	10.85	14.74	11.45	15.54	11.26	5.0	0	_
27			11.62	10.41	12.34	10.16	13.08	10.96	13.46	10.89	14.09	10.91	14.71	11.44			7.0	0	(
29			11.40	10.30	12.12	10.07	12.86	10.87	13.22	10.80	13.88	10.83	14.53	11.37			9.0	0	-
31			11.17	10.20	11.91	9.98	12.63	10.78	12.98	10.71	13.67	10.75	14.35	11.31			11.	.5	1
33	10.36	9.42	10.84	10.05	11.69	9.88	12.40	10.69	12.74	10.61	13.46	10.67	14.18	11.25			13.	.5	_1
35	10.33	9.40	10.71	9.99	11.47	9.79	12.18	10.60	12.50	10.52	13.25	10.59	14.00	11.19			15.	.5	1
37	10.03	9.26	10.43	9.86	11.21	9.68	11.92	10.50	12.25	10.43	12.96	10.49	13.67	11.08			16.	.5	1
39	9.73	9.11	10.16	9.74	10.95	9.57	11.66	10.39	12.00	10.33	12.67	10.38	13.34	10.97					
41	9.43	8.97	9.88	9.61	10.68	9.46	11.40	10.29	11.75	10.24	12.38	10.28	13.01	10.86					
43	9.13	8.82	9.60	9.41	10.42	9.35	11.14	10.19	11.50	10.14	12.09	10.17	12.69	10.75					
46	8.49	8.32	8.96	8.78	9.81	9.09	10.44	9.92	10.70	9.85	11.08	9.81	11.47	10.35					
50	7.85	7.69	8.33	8.16	9.19	8.84	9.74	9.54	9.90	9.55	10.08	9.46	10.26	9.96			ı		

(kW) Indoor air temperature np. °CDB CWB 16 18 20 22 24 -20 10.37 10 18 10 00 9 82 9 64 -18 10.43 10.26 10.10 9.92 9.74
 10.49
 10.34
 10.19
 10.02
 9.84

 10.79
 10.61
 10.44
 10.24
 10.04
 -16 -14 11.37 11.15 10.92 10.68 10.44 -10 11.96 11.68 11.40 11.12 10.84 12.55 12.22 11.88 11.56 11.23 12.90 12.63 12.35 12.03 11.72 13.25 | 13.04 | 12.82 | 12.51 | 12.20 13.61 13.45 13.29 12.99 12.69 13.96 13.86 13.76 13.47 13.17
 14.13
 14.07
 14.00
 13.71
 13.41

 14.13
 14.07
 14.00
 13.71
 13.41

 14.13
 14.07
 14.00
 13.71
 13.41
 14.13 14.07 14.00 13.71 13.41 14.13 14.07 14.00 13.71 13.41 14.81 14.72 14.63 14.34 14.06 15.49 15.37 15.26 14.98 14.70 10 16.18 16.10 16.02 15.74 15.45 16.87 16.83 16.79 16.49 16.20 17.21 17.19 17.17 16.87 16.57

PJG000Z623 ♠

(kW)

Model FDUM125VSXWVH Indoor unit FDUM125VH Cooling mode

Outdoor unit FDC125VSX-W

Cooling n	node															(kW)) H	Heating	mode:l	НС
							Ind	oor air t	empera	ture							П	Outo	door	
Outdoor air temp.	18 °	CDB	21 °	CDB	23 °	CDB	26 °	CDB	27 °	CDB	28 °	CDB	31 °	CDB	33 °	CDB	П	air te	emp.	
all temp.	12 °C	CWB	14 °	CWB	16 °	CWB	18 °	CWB	19 °	CWB	20 °	CWB	22 °	CWB	24 °	CWB	П	°CDB	°CWB	1
°CDB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	П	-19.8	-20	11.
-15							11.89	10.49	12.37	10.47	12.71	10.40	13.39	10.99	14.07	10.80	П	-17.7	-18	11.
-10							11.89	10.49	12.37	10.47	12.71	10.40	13.39	10.99	14.07	10.80	П	-15.7	-16	12.
-5							11.95	10.51	12.57	10.55	12.94	10.48	13.67	11.08	14.40	10.90	П	-13.5	-14	12.
0					11.69	9.88	12.71	10.81	13.21	10.79	13.61	10.73	14.40	11.33	15.19	11.15	П	-11.5	-12	13.
5					12.68	10.31	13.46	11.11	13.85	11.04	14.28	10.98	15.14	11.58	15.99	11.40	П	-9.5	-10	14.
11					12.84	10.38	13.62	11.18	14.01	11.10	14.44	11.04	15.31	11.64	16.18	11.46	П	-7.5	-8	14.
13					12.99	10.45	13.77	11.24	14.16	11.16	14.60	11.10	15.49	11.71	16.38	11.53	П	-5.5	-6	14.
15					13.14	10.51	13.92	11.30	14.31	11.22	14.77	11.16	15.67	11.77	16.57	11.59	П	-3.0	-4	14.
17					12.94	10.43	13.73	11.22	14.12	11.15	14.57	11.09	15.46	11.69	16.35	11.52	П	-1.0	-2	14.
19					12.76	10.35	13.53	11.14	13.93	11.07	14.37	11.01	15.24	11.62	16.12	11.44	П	1.0	0	14.
21					12.62	10.29	13.38	11.08	13.77	11.01	14.20	10.95	15.04	11.55	15.89	11.37	IJ	2.0	1	14.
23					12.48	10.23	13.23	11.02	13.62	10.95	14.03	10.88	14.84	11.48	15.65	11.30	П	3.0	2	14.
25			11.69	10.44	12.41	10.20	13.16	10.99	13.54	10.92	13.94	10.85	14.74	11.45	15.54	11.26	П	5.0	4	14.
27			11.62	10.41	12.34	10.16	13.08	10.96	13.46	10.89	14.09	10.91	14.71	11.44			П	7.0	6	14.
29			11.40	10.30	12.12	10.07	12.86	10.87	13.22	10.80	13.88	10.83	14.53	11.37			П	9.0	8	14.
31			11.17	10.20	11.91	9.98	12.63	10.78	12.98	10.71	13.67	10.75	14.35	11.31			IJ	11.5	10	15.
33	10.36	9.42	10.84	10.05	11.69	9.88	12.40	10.69	12.74	10.61	13.46	10.67	14.18	11.25			П	13.5	12	16.
35	10.33	9.40	10.71	9.99	11.47	9.79	12.18	10.60	12.50	10.52	13.25	10.59	14.00	11.19			П	15.5	14	16.
37	10.03	9.26	10.43	9.86	11.21	9.68	11.92	10.50	12.25	10.43	12.96	10.49	13.67	11.08			П	16.5	16	17.
39	9.73	9.11	10.16	9.74	10.95	9.57	11.66	10.39	12.00	10.33	12.67	10.38	13.34	10.97			1			
41	9.43	8.97	9.88	9.61	10.68	9.46	11.40	10.29	11.75	10.24	12.38	10.28	13.01	10.86			1			
43	9.13	8.82	9.60	9.41	10.42	9.35	11.14	10.19	11.50	10.14	12.09	10.17	12.69	10.75			1			
46	8.49	8.32	8.96	8.78	9.81	9.09	10.44	9.92	10.70	9.85	11.08	9.81	11.47	10.35			1		P	J(

Out	door		Indoor	air temp	erature	
air te	emp.			°CDB		
°CDB	°CWB	16	18	20	22	24
-19.8	-20	11.30	11.10	10.90	10.70	10.50
-17.7	-18	11.98	11.75	11.52	11.34	11.16
-15.7	-16	12.63	12.45	12.27	12.05	11.84
-13.5	-14	12.84	12.68	12.51	12.29	12.06
-11.5	-12	13.27	13.14	13.01	12.76	12.51
-9.5	-10	14.13	14.07	14.00	13.71	13.41
-7.5	-8	14.13	14.07	14.00	13.71	13.41
-5.5	-6	14.13	14.07	14.00	13.71	13.41
-3.0	-4	14.13	14.07	14.00	13.71	13.41
-1.0	-2	14.13	14.07	14.00	13.71	13.41
1.0	0	14.13	14.07	14.00	13.71	13.41
2.0	1	14.13	14.07	14.00	13.71	13.41
3.0	2	14.13	14.07	14.00	13.71	13.41
5.0	4	14.13	14.07	14.00	13.71	13.41
7.0	6	14.13	14.07	14.00	13.71	13.41
9.0	8	14.81	14.72	14.63	14.34	14.06
11.5	10	15.49	15.37	15.26	14.98	14.70
13.5	12	16.18	16.10	16.02	15.74	15.45
15.5	14	16.87	16.83	16.79	16.49	16.20
16.5	16	17.21	17.19	17.17	16.87	16.57

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50 7.85 7.69 8.33 8.16 9.19 8.84 9.74 9.54 9.90 9.55 10.08 9.46 10.26 9.96 Notes(1) These data show average status.

Depending on the system control, there may be ranges where the operation is not conducted continuously.

These data show the case where the operation frequency of a compressor is fixed.

In the heating mode in which the outside air temperature is 0°CDB or less, the compressor operates at maximum frequency.

(2) Capacities are based on the following conditions.

Corresponding refrigerant piping length :7.5m
Level difference of Zero.

(3) Symbols are as follows
TC :Total cooling capacity (kW)

SHC :Sensible heat capacity (kW)
HC :Heating capacity (kW)

PJG000Z623 ♠

Model FDUM140VNXWVH Outdoor unit FDC140VNX-W Indoor unit FDUM140VH ooling mo (kW) (kW) Indoor air temperature Outdoor Indoor air temperature Outdoo air temp. 18 °CDB 21 °CDB 23 °CDB 26 °CDB 27 °CDB 28 °CDB 31 °CDB 33 °CDB °CDB air temp 12 °CWB 14 °CWB 16 °CWB 18 °CWB 19 °CWB 20 °CWB 22 °CWB 24 °CWB °сов I °сwв 16 18 20 22 24 °CDB -19 8 -20 11 01 10.95 10 42 TC SHC 10.90 10.66 -15 11.46 10.69 12.05 10.64 12.38 10.51 13.04 11.16 13.70 10.85 -17.7 -18 11.50 11.28 11.05 10.70 10.34 -10 11.46 10.69 12.05 10.64 12.38 10.51 13.04 11.16 13.70 10.85 -15.7 -16 12.33 12.06 11.78 11.42 11.06 11.48 10.69 12.08 10.65 12.43 10.52 13.13 11.18 13.84 10.88 -13.5 -14 12.60 | 12.31 | 12.03 | 11.67 | 11.31 0 11.06 9.86 10.86 12.51 10.77 12.88 10.64 14.38 10.99 -11.5 13.15 12.83 12.51 12.15 11.79 12.02 13.63 11.30 5 11.84 10.13 12.57 11.02 12.93 10.89 13.33 10.77 14.13 11.42 14.93 11.11 -9.5 -10 13.70 | 13.35 | 13.00 | 12.63 | 12.27 11 12 32 10.29 13.17 11 21 13.59 11.09 14.01 10.95 14.86 11.59 15.70 11 27 -7.5 -8 14.25 13.87 13.49 13.12 12.75 13 12.80 10.46 13.77 11.40 14.25 11.28 14.70 11.15 15.59 11.77 16.48 11.44 -5.5 -6 14.67 | 14.36 | 14.04 | 13.68 | 13.32 15 13.28 10.63 14.37 11.59 14.91 11.48 15.38 11.34 16.32 11.96 17.26 11.61 -3.0 15.09 14.85 14.60 14.25 13.90 17 13.49 10.70 14.46 11.62 14.94 11.49 15.42 11.35 16.36 11.97 17.30 11.62 -1.0 -2 15.52 15.34 15.16 14.82 14.47 11.63 19 13.50 10.70 14.55 11.65 14.98 11.50 15.45 11.36 16.40 11.98 17.34 1.0 0 15.94 | 15.83 | 15.72 | 15.38 | 15.04 21 13.56 10.73 14.54 11.64 14.97 11.50 15 43 11 35 16.35 11.97 17.26 11.61 2.0 1 16.15 16.08 16.00 15.66 15.33 23 3.0 14.53 11.64 17.19 11.60 16.15 | 16.08 | 16.00 | 15.66 | 15.33 13.63 10.75 14.95 11.49 15.40 11.35 16.29 11.95 25 12.78 11.15 10.76 14.52 11.64 14.95 11.49 15.39 11.34 16.27 11.95 17.15 11.59 5.0 16.15 16.08 16.00 15.66 15.33 13.66 14.52 12.89 11.19 13.69 10.77 11.64 14 94 11 49 15.63 11.41 16.15 16.08 16.00 27 29 12.64 11.09 13.45 10.69 14.28 11.56 14.70 11.42 15.42 11.35 16.13 11.91 9.0 16.93 16.82 16.72 16.39 16.06 10 17.70 17.57 17.44 17.12 16.80 31 12.39 10.99 13.21 10.60 14.05 11.48 14.47 11.35 15.20 11.29 15.93 11.86 11.5 10.35 9.67 11.41 14.24 11.28 12 18.49 18.28 18.08 17.43 16.78 33 11.45 10.63 12.97 10.52 13.81 14.98 11.23 15.73 11.81 13.5 14.76 11.16 14.00 11.21 19.27 19.00 18.72 17.74 16.75 35 10.27 9.64 11.29 10.57 12.73 10.43 13.57 11.34 15.53 11.76 15.5 10.21 9.62 11.14 10.51 12.48 10.35 13 31 11.25 13.73 11.13 14.47 11.08 15.21 11.68 19.67 19.36 19.04 17.89 16.74 39 10.15 9.60 10.98 10.46 12.22 10.26 13.05 11.17 13.46 11.05 14.18 11.00 14.89 11.60 41 10.17 12.78 11.09 13.19 10.97 13.89 10.92 10.10 9.57 10.83 10.40 11.97 14.58 11.52 43 10.04 9.55 10.68 10.34 11.72 10.08 12.52 11.01 12.92 10.89 13.59 10.84 14.26 11.45 46 9.24 9.06 9.77 9.57 10.56 9.70 11.11 10.59 11.40 10.46 11.83 10.36 12.25 10.97 8.86 8.68 9.40 9.88 9.68 10.06 9.86 10.24 10.03 PJG000Z623 ∕€\

Model F	DUM14	IOVSXV	WVH		Indoor	unit F	DUM1	40VH			Outdoo	or unit	FDC1	40VSX	(-W								
Cooling m	node															(kW)	Heatin	g mode:	HC				(kW
							Ind	oor air t	empera	ture							Out	door		Indoor	air temp	erature	
Outdoor air temp.	18 °	CDB	21 °	CDB	23 °	CDB	26 °	CDB	27 °	CDB	28 °	CDB	31 °	CDB	33 °	CDB	air t	emp.			°CDB		
all tellip.	12 °C	CWB	14 °	CWB	16 °	CWB	18 °	CWB	19 °	CWB	20 °	CWB	22 °	CWB	24 °	CWB	°CDB	°CWB	16	18	20	22	24
°CDB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	-19.8	-20	12.26	12.08	11.90	11.84	11.77
-15							11.46	10.69	12.05	10.64	12.38	10.51	13.04	11.16	13.70	10.85	-17.7	-18	13.37	13.22	13.07	12.83	12.59
-10							11.46	10.69	12.05	10.64	12.38	10.51	13.04	11.16	13.70	10.85	-15.7	-16	14.48	14.36	14.24	13.82	13.40
-5							11.48	10.69	12.08	10.65	12.43	10.52	13.13	11.18	13.84	10.88	-13.5	-14	14.76	14.63	14.49	14.11	13.72
0					11.06	9.86	12.02	10.86	12.51	10.77	12.88	10.64	13.63	11.30	14.38	10.99	-11.5	-12	15.34	15.17	15.00	14.68	14.36
5					11.84	10.13	12.57	11.02	12.93	10.89	13.33	10.77	14.13	11.42	14.93	11.11	-9.5	-10	15.91	15.70	15.50	15.25	15.00
11					12.32	10.29	13.17	11.21	13.59	11.09	14.01	10.95	14.86	11.59	15.70	11.27	-7.5	-8	16.48	16.24	16.00	15.82	15.64
13					12.80	10.46	13.77	11.40	14.25	11.28	14.70	11.15	15.59	11.77	16.48	11.44	-5.5	-6	16.48	16.24	16.00	15.82	15.64
15					13.28	10.63	14.37	11.59	14.91	11.48	15.38	11.34	16.32	11.96	17.26	11.61	-3.0	-4	16.48	16.24	16.00	15.82	15.64
17					13.49	10.70	14.46	11.62	14.94	11.49	15.42	11.35	16.36	11.97	17.30	11.62	-1.0	-2	16.48	16.24	16.00	15.82	15.64
19					13.50	10.70	14.55	11.65	14.98	11.50	15.45	11.36	16.40	11.98	17.34	11.63	1.0	0	16.48	16.24	16.00	15.82	15.64
21					13.56	10.73	14.54	11.64	14.97	11.50	15.43	11.35	16.35	11.97	17.26	11.61	2.0	1	16.48	16.24	16.00	15.82	15.64
23					13.63	10.75	14.53	11.64	14.95	11.49	15.40	11.35	16.29	11.95	17.19	11.60	3.0	2	16.48	16.24	16.00	15.82	15.64
25			12.78	11.15	13.66	10.76	14.52	11.64	14.95	11.49	15.39	11.34	16.27	11.95	17.15	11.59	5.0	4	16.48	16.24	16.00	15.82	15.64
27			12.89	11.19	13.69	10.77	14.52	11.64	14.94	11.49	15.63	11.41	16.33	11.96			7.0	6	16.48	16.24	16.00	15.82	15.64
29			12.64	11.09	13.45	10.69	14.28	11.56	14.70	11.42	15.42	11.35	16.13	11.91			9.0	8	17.27	17.08	16.90	16.64	16.39
31			12.39	10.99	13.21	10.60	14.05	11.48	14.47	11.35	15.20	11.29	15.93	11.86			11.5	10	18.06	17.93	17.79	17.47	17.14
33	10.35	9.67	11.45	10.63	12.97	10.52	13.81	11.41	14.24	11.28	14.98	11.23	15.73	11.81			13.5	12	18.86	18.66	18.45	17.78	17.12
35	10.27	9.64	11.29	10.57	12.73	10.43	13.57	11.34	14.00	11.21	14.76	11.16	15.53	11.76			15.5	14	19.67	19.39	19.10	18.10	17.09
37	10.21	9.62	11.14	10.51	12.48	10.35	13.31	11.25	13.73	11.13	14.47	11.08	15.21	11.68			16.5	16	20.07	19.75	19.43	18.26	17.08
39	10.15	9.60	10.98	10.46	12.22	10.26	13.05	11.17	13.46	11.05	14.18	11.00	14.89	11.60									

13 59 10 84

11.83 10.36

14 26 11 45

12.25 10.97

These data show average status

43

10.04 9.55 10.68 10.34

9.24 9.06 9.77

Depending on the system control, there may be ranges where the operation is not conducted continuously. These data show the case where the operation frequency of a compressor is fixed.

12 92 10.89

11.40 10.46

11.11 10.59

11 72 10 08 12 52 11 01

In the heating mode in which the outside air temperature is 0°CDB or less, the compressor operates at maximum frequency.

(2) Capacities are based on the following conditions Corresponding refrigerant piping length :7.5m

9.57 10.56 9.70

Level difference of Zero.

(3) Symbols are as follows

TC :Total cooling capacity (kW) SHC :Sensible heat capacity (kW) HC :Heating capacity (kW)

-136-

(b) Twin type

Model FDUM100VNXWPVH Indoor unit FDUM50VH (2 units)

Outdoor unit FDC100VNX-W

Cooling mode

0.44							Inde	oor air t	empera	iture						
Outdoor air temp.	18 °	CDB	21 °	CDB	23 °	CDB	26 °	CDB	27 °	CDB	28 °	CDB	31 °	CDB	33 °	CDB
an tomp.	12 °C	CWB	14 °C	CWB	16 °C	CWB	18 °C	CWB	19 °C	CWB	20 °C	CWB	22 °	CWB	24 °C	CWB
°CDB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
-15							11.26	8.37	11.76	8.39	12.09	8.32	12.75	8.68	13.41	8.51
-10							11.26	8.37	11.76	8.39	12.09	8.32	12.75	8.68	13.41	8.51
-5							11.26	8.37	11.76	8.39	12.09	8.32	12.75	8.68	13.41	8.51
0					10.51	7.80	11.35	8.41	11.76	8.39	12.11	8.33	12.80	8.70	13.49	8.54
5					10.77	7.92	11.43	8.44	11.76	8.39	12.13	8.34	12.85	8.72	13.58	8.57
11					10.68	7.88	11.33	8.40	11.66	8.34	12.02	8.29	12.75	8.68	13.47	8.53
13					10.59	7.84	11.23	8.36	11.56	8.30	11.92	8.25	12.64	8.64	13.36	8.50
15					10.50	7.80	11.13	8.31	11.45	8.26	11.81	8.21	12.54	8.60	13.26	8.46
17					10.34	7.72	10.98	8.25	11.30	8.19	11.65	8.15	12.37	8.54	13.08	8.40
19					10.21	7.66	10.82	8.18	11.14	8.13	11.49	8.08	12.20	8.47	12.90	8.34
21					10.10	7.61	10.71	8.13	11.02	8.08	11.36	8.03	12.03	8.41	12.71	8.27
23					9.98	7.56	10.59	8.08	10.90	8.03	11.22	7.97	11.87	8.36	12.52	8.21
25			9.35	7.70	9.93	7.53	10.53	8.05	10.83	8.00	11.15	7.95	11.79	8.33	12.43	8.18
27			9.30	7.68	9.87	7.51	10.47	8.03	10.77	7.98	11.27	7.99	11.77	8.32		
29			9.12	7.59	9.70	7.43	10.29	7.95	10.58	7.90	11.10	7.93	11.63	8.27		
31			8.94	7.50	9.53	7.35	10.10	7.88	10.39	7.82	10.94	7.86	11.48	8.21		
33	8.48	7.07	8.77	7.42	9.35	7.27	9.92	7.80	10.19	7.74	10.77	7.80	11.34	8.16		
35	8.22	6.93	8.55	7.32	9.18	7.20	9.74	7.72	10.00	7.66	10.60	7.73	11.20	8.11		
37	7.99	6.82	8.33	7.21	8.97	7.10	9.53	7.64	9.80	7.58	10.37	7.64	10.93	8.02		
39	7.76	6.70	8.11	7.11	8.76	7.01	9.33	7.55	9.60	7.51	10.14	7.55	10.67	7.93		
41	7.53	6.59	7.89	7.01	8.55	6.92	9.12	7.47	9.40	7.43	9.90	7.46	10.41	7.83		
43	7.30	6.47	7.68	6.91	8.34	6.82	8.91	7.38	9.20	7.35	9.67	7.38	10.15	7.74		
46	6.78	6.22	7.16	6.67	7.83	6.61	8.44	7.19	8.75	7.17	9.24	7.21	9.73	7.60		
50	6.27	5.97	6.64	6.43	7.32	6.39	7.96	7.00	8.30	7.00	8.81	7.05	9.32	7.46		

Indoor air tomporature

(kW)	ŀ	Heating	mode:l	НС				(kW)
		Oute	door		Indoor	air temp	erature	;
DB		air te	emp.			°CDB		
WB		°CDB	°CWB	16	18	20	22	24
SHC		-19.8	-20	10.06	9.87	9.70	9.53	9.35
8.51		-17.7	-18	10.14	9.98	9.82	9.65	9.47
8.51		-15.7	-16	10.23	10.08	9.94	9.77	9.59
8.51		-13.5	-14	10.55	10.37	10.20	10.01	9.81
8.54		-11.5	-12	11.14	10.93	10.70	10.47	10.23
8.57		-9.5	-10	11.31	11.25	11.20	10.95	10.71
8.53		-7.5	-8	11.31	11.25	11.20	10.96	10.73
8.50		-5.5	-6	11.31	11.25	11.20	10.96	10.73
8.46		-3.0	-4	11.31	11.25	11.20	10.96	10.73
8.40		-1.0	-2	11.31	11.25	11.20	10.96	10.73
8.34		1.0	0	11.31	11.25	11.20	10.96	10.73
8.27		2.0	1	11.31	11.25	11.20	10.96	10.73
8.21		3.0	2	11.31	11.25	11.20	10.96	10.73
8.18		5.0	4	11.31	11.25	11.20	10.96	10.73
		7.0	6	11.31	11.25	11.20	10.96	10.73
		9.0	8	11.85	11.78	11.70	11.47	11.24
		11.5	10	12.39	12.30	12.21	11.98	11.76
		13.5	12	12.94	12.88	12.82	12.66	12.49
		15.5	14	13.49	13.46	13.43	13.33	13.22
		16.5	16	13.77	13.75	13.74	13.66	13.59

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Model FDUM100VSXWPVH

Cooling mode

Indoor unit FDUM50VH (2 units)

Outdoor unit FDC100VSX-W

(kW)

0.44							Indo	oor air t	empera	ture						
Outdoor air temp.	18 °	CDB	21 °	CDB	23 °	CDB	26 °	CDB	27 °	CDB	28 °	CDB	31 °	CDB	33 °	CDB
a tomp.	12 °	CWB	14 °C	CWB	16 °C	CWB	18 °C	CWB	19 °C	CWB	20 °C	CWB	22 °C	CWB	24 °C	CWB
°CDB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
-15							11.26	8.37	11.76	8.39	12.09	8.32	12.75	8.68	13.41	8.51
-10							11.26	8.37	11.76	8.39	12.09	8.32	12.75	8.68	13.41	8.51
-5							11.26	8.37	11.76	8.39	12.09	8.32	12.75	8.68	13.41	8.51
0					10.51	7.80	11.35	8.41	11.76	8.39	12.11	8.33	12.80	8.70	13.49	8.54
5					10.77	7.92	11.43	8.44	11.76	8.39	12.13	8.34	12.85	8.72	13.58	8.57
11					10.68	7.88	11.33	8.40	11.66	8.34	12.02	8.29	12.75	8.68	13.47	8.53
13					10.59	7.84	11.23	8.36	11.56	8.30	11.92	8.25	12.64	8.64	13.36	8.50
15					10.50	7.80	11.13	8.31	11.45	8.26	11.81	8.21	12.54	8.60	13.26	8.46
17					10.34	7.72	10.98	8.25	11.30	8.19	11.65	8.15	12.37	8.54	13.08	8.40
19					10.21	7.66	10.82	8.18	11.14	8.13	11.49	8.08	12.20	8.47	12.90	8.34
21					10.10	7.61	10.71	8.13	11.02	8.08	11.36	8.03	12.03	8.41	12.71	8.27
23					9.98	7.56	10.59	8.08	10.90	8.03	11.22	7.97	11.87	8.36	12.52	8.21
25			9.35	7.70	9.93	7.53	10.53	8.05	10.83	8.00	11.15	7.95	11.79	8.33	12.43	8.18
27			9.30	7.68	9.87	7.51	10.47	8.03	10.77	7.98	11.27	7.99	11.77	8.32		
29			9.12	7.59	9.70	7.43	10.29	7.95	10.58	7.90	11.10	7.93	11.63	8.27		
31			8.94	7.50	9.53	7.35	10.10	7.88	10.39	7.82	10.94	7.86	11.48	8.21		
33	8.48	7.07	8.77	7.42	9.35	7.27	9.92	7.80	10.19	7.74	10.77	7.80	11.34	8.16		
35	8.22	6.93	8.55	7.32	9.18	7.20	9.74	7.72	10.00	7.66	10.60	7.73	11.20	8.11		
37	7.99	6.82	8.33	7.21	8.97	7.10	9.53	7.64	9.80	7.58	10.37	7.64	10.93	8.02		
39	7.76	6.70	8.11	7.11	8.76	7.01	9.33	7.55	9.60	7.51	10.14	7.55	10.67	7.93		
41	7.53	6.59	7.89	7.01	8.55	6.92	9.12	7.47	9.40	7.43	9.90	7.46	10.41	7.83		
43	7.30	6.47	7.68	6.91	8.34	6.82	8.91	7.38	9.20	7.35	9.67	7.38	10.15	7.74		
46	6.78	6.22	7.16	6.67	7.83	6.61	8.44	7.19	8.75	7.17	9.24	7.21	9.73	7.60		
50	6.27	5.97	6.64	6.43	7.32	6.39	7.96	7.00	8.30	7.00	8.81	7.05	9.32	7.46		

	loor		Indoor	air temp	erature	:
air te	mp.			°CDB		
°CDB	°CWB	16	18	20	22	24
-19.8	-20	10.22	9.96	9.70	9.40	9.10
-17.7	-18	10.76	10.60	10.45	10.16	9.88
-15.7	-16	11.31	11.25	11.19	10.92	10.65
-13.5	-14	11.31	11.25	11.19	10.93	10.67
-11.5	-12	11.31	11.25	11.20	10.94	10.69
-9.5	-10	11.31	11.25	11.20	10.95	10.71
-7.5	-8	11.31	11.25	11.20	10.96	10.73
-5.5	-6	11.31	11.25	11.20	10.96	10.73
-3.0	-4	11.31	11.25	11.20	10.96	10.73
-1.0	-2	11.31	11.25	11.20	10.96	10.73
1.0	0	11.31	11.25	11.20	10.96	10.73
2.0	1	11.31	11.25	11.20	10.96	10.73
3.0	2	11.31	11.25	11.20	10.96	10.73
5.0	4	11.31	11.25	11.20	10.96	10.73
7.0	6	11.31	11.25	11.20	10.96	10.73
9.0	8	11.85	11.78	11.70	11.47	11.24
11.5	10	12.39	12.30	12.21	11.98	11.76
13.5	12	12.94	12.88	12.82	12.66	12.49
15.5	14	13.49	13.46	13.43	13.33	13.22
16.5	16	13.77	13.75	13.74	13.66	13.59

(kW) Heating mode:HC

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Notes(1) These data show average status.

Depending on the system control, there may be ranges where the operation is not conducted continuously.

These data show the case where the operation frequency of a compressor is fixed.

In the heating mode in which the outside air temperature is 0°CDB or less, the compressor operates at maximum frequency.

(2) Capacities are based on the following conditions.

(2) Capacities are based on the following condition
Corresponding refrigerant piping length: 7.5m
Level difference of Zero.

(3) Symbols are as follows
TC: Total cooling capacity (kW)
SHC: Sensible heat capacity (kW)
HC: Heating capacity (kW)

(kW)

24

9.64

9.74

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Model FDUM125VNXWPVH Indoor unit FDUM60VH (2 units) Outdoor unit FDC125VNX-W (kW) ooling mo Indoor air temperature Outdoor Indoor air temperature Outdoo air temp 18 °CDB 21 °CDB 23 °CDB 26 °CDB 27 °CDB 28 °CDB 31 °CDB 33 °CDB °CDB air temp 12 °CWB 14 °CWB 16 °CWB 18 °CWB 19 °CWB 20 °CWB 22 °CWB 24 °CWB CDB °CWB 16 18 20 22 °CDB -19.8 -20 10.37 10.18 9.82 TC SHC 10.00 -15 11.89 10.09 10.04 9.93 13.39 10.48 14.07 10.23 -17.7 -18 10.43 10.26 10.10 9.92 12.37 -10 11.89 10.09 12.37 10.04 12.71 9.93 13.39 10.48 14.07 10.23 -15.7 -16 10.49 10.34 10.19 10.02 9.84 -5 11.95 10.11 12.57 10.11 12.94 10.01 13.67 10.56 14.40 10.31 -13.5-14 10.79 | 10.61 | 10.44 | 10.24 | 10.04 0 11.69 9.50 12.71 10.38 13.61 10.22 14.40 10.77 15.19 10.52 -11.5 -12 11.37 11.15 | 10.92 | 10.68 | 10.44 13.21 10.33 5 12.68 9.89 13.46 10.65 13.85 10.55 14.28 10.45 15.14 10.99 15.99 -9.5 11.96 11.68 11.40 11.12 10.84 11 12.84 9.95 13.62 10.71 14.01 10.60 14.44 10.50 15.31 11.05 16.18 10.79 -7.5 -8 12.55 12.22 11.88 11.56 11.23 -5.5 13 12.99 10.02 13.77 10.77 14.16 10.66 14.60 10.56 15.49 11.10 16.38 10.84 -6 12.90 | 12.63 | 12.35 | 12.03 | 11.72 15 13.14 10.08 13.92 10.82 14.31 10.71 14.77 10.61 15.67 11.16 16.57 -3.0 13.04 12.82 12.51 12.20 10.90 13.25 17 12.94 10.00 13.73 10.75 14.12 10.64 14.57 10.54 15.46 11.09 16.35 10.83 -1.0 13.61 13.45 13.29 12.99 12.69 19 12.76 9.93 13.53 10.68 13.93 10.57 14.37 10.48 15.24 11.03 16.12 10.77 1.0 0 13.96 13.86 13.76 13.47 13.17 21 12.62 9.87 13.38 10.62 13.77 10.52 14.20 10.42 15.04 10.97 15.89 10.71 2.0 14.13 | 14.07 | 14.00 | 13.71 | 13.41 23 3.0 12.48 9.81 14.84 10.91 15.65 10.65 2 14.13 14.07 14.00 13.71 13.41 13.23 10.57 13.62 10.47 14.03 10.36 25 11.69 10.09 12.41 9.79 13.16 10.54 10.44 13.94 10.33 14.74 10.88 15.54 10.61 5.0 14.13 14.07 14.00 13.71 13.41 13.54 14.13 11 62 10.07 12.34 9.76 13.08 13.46 10.41 14 09 10.38 14 71 10 87 14.07 14.00 13.71 13.41 27 29 10.51 9.0 11.40 9.97 12.12 9.67 12.86 10.43 13.22 10.33 13.88 10.31 14.53 10.81 8 14.81 14.72 14.63 14.34 14.06 14.35 10.76 11.5 15.49 15.37 15.26 14.98 14.70 31 11.17 9.87 11.91 9.59 12.63 10.35 12.98 10.25 13.67 10.24 10 33 11.69 9.50 13.46 10.18 14.18 10.71 13.5 12 16.18 16.10 16.02 15.74 15.45 10.36 9.13 10.84 9.73 12.40 10.27 12.74 10.16 11.47 9.42 14.00 10.65 35 12.18 16.87 | 16.83 | 16.79 | 16.49 | 16.20 10.03 8.98 10.43 9.56 11.21 9.32 11.92 10.10 12.25 10.00 12.96 10.01 13.67 10.56 16.5 16 17.21 17.19 17.17 16.87 16.57 39 9.73 8.84 10.16 9.45 10.95 9.21 11.66 10.01 12.00 9.91 12.67 9.92 13.34 10.46 41 10.68 9.11 13.01 10.37 9.43 8.71 9.88 9.33 11.40 9.91 11.75 9.83 12.38 9.83 43 9.13 8.58 9.60 9.22 10.42 9.01 11.14 9.82 11.50 9.75 12.09 9.73 12.69 10.28 46 8.49 8.29 8.96 8.78 9.81 8.78 10.44 9.58 10.70 9.48 11.08 9.42 11.47 9.93 7.85 7.69 8.16 9.19 8.56 9.74 9.35 9.90 9.23 10.08 9.11 10.26 9.60 PJG000Z623 ∕€\

ooling m	ode															(kW)	Heating	mode:l	HC				(kW
							Inde	oor air t	empera	ture							Out	door		Indoor	air temp	erature	;
Outdoor air temp.	18 °	CDB	21 °	CDB	23 °	CDB	26 °	CDB	27 °	CDB	28 °	CDB	31 °	CDB	33 °	CDB	air te	emp.			°CDB		
all terrip.	12 °C	CWB	14 °0	CWB	16 °	CWB	18 °0	CWB	19 °C	CWB	20 °C	CWB	22 °C	CWB	24 °	CWB	°CDB	°CWB	16	18	20	22	24
°CDB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	-19.8	-20	11.30	11.10	10.90	10.70	10.50
-15							11.89	10.09	12.37	10.04	12.71	9.93	13.39	10.48	14.07	10.23	-17.7	-18	11.98	11.75	11.52	11.34	11.16
-10							11.89	10.09	12.37	10.04	12.71	9.93	13.39	10.48	14.07	10.23	-15.7	-16	12.63	12.45	12.27	12.05	11.84
-5							11.95	10.11	12.57	10.11	12.94	10.01	13.67	10.56	14.40	10.31	-13.5	-14	12.84	12.68	12.51	12.29	12.06
0					11.69	9.50	12.71	10.38	13.21	10.33	13.61	10.22	14.40	10.77	15.19	10.52	-11.5	-12	13.27	13.14	13.01	12.76	12.51
5					12.68	9.89	13.46	10.65	13.85	10.55	14.28	10.45	15.14	10.99	15.99	10.74	-9.5	-10	14.13	14.07	14.00	13.71	13.41
11					12.84	9.95	13.62	10.71	14.01	10.60	14.44	10.50	15.31	11.05	16.18	10.79	-7.5	-8	14.13	14.07	14.00	13.71	13.41
13					12.99	10.02	13.77	10.77	14.16	10.66	14.60	10.56	15.49	11.10	16.38	10.84	-5.5	-6	14.13	14.07	14.00	13.71	13.41
15					13.14	10.08	13.92	10.82	14.31	10.71	14.77	10.61	15.67	11.16	16.57	10.90	-3.0	-4	14.13	14.07	14.00	13.71	13.41
17					12.94	10.00	13.73	10.75	14.12	10.64	14.57	10.54	15.46	11.09	16.35	10.83	-1.0	-2	14.13	14.07	14.00	13.71	13.41
19					12.76	9.93	13.53	10.68	13.93	10.57	14.37	10.48	15.24	11.03	16.12	10.77	1.0	0	14.13	14.07	14.00	13.71	13.41
21					12.62	9.87	13.38	10.62	13.77	10.52	14.20	10.42	15.04	10.97	15.89	10.71	2.0	1	14.13	14.07	14.00	13.71	13.41
23 25			11.00	10.00	12.48	9.81	13.23	10.57	13.62	10.47	14.03	10.36	14.84	10.91	15.65	10.65	3.0 5.0	2	14.13	14.07	14.00	13.71	13.41
			11.69	10.09	12.41	9.79	13.16	10.54	13.54	10.44	13.94	10.33	14.74	10.88	15.54	10.61	_	4 6	14.13	14.07	14.00	13.71	13.41
27 29			11.62	10.07 9.97	12.34 12.12	9.76 9.67	13.08 12.86	10.51	13.46 13.22	10.41	14.09 13.88	10.38	14.71 14.53	10.87		\vdash	7.0 9.0	8	14.13 14.81	14.07 14.72	14.00 14.63	13.71 14.34	13.41
31			11.40	9.87	11.91	9.67	12.63	10.43	12.98	10.33	13.67	10.31	14.35	10.76		\vdash	11.5	10	15.49	15.37	15.26	14.98	14.70
33	10.36	9.13	10.84	9.73	11.69	9.50	12.40	10.33	12.74	10.23	13.46	10.18	14.18	10.71	-	\vdash	13.5	12	16.18	16.10	16.02	15.74	15.45
35	10.33	9.11	10.71	9.68	11.47	9.42	12.18	10.19	12.74	10.08	13.25	10.11	14.00	10.71			15.5	14	16.87	16.83	16.79	16.49	16.20
37	10.03	8.98	10.43	9.56	11.21	9.32	11.92	10.10	12.25	10.00	12.96	10.01	13.67	10.56			16.5	16	17.21	17.19	17.17	16.87	16.57
39	9.73	8.84	10.16	9.45	10.95	9.21	11.66	10.01	12.00	9.91	12.67	9.92	13.34	10.46			.0.0	.0				. 0.07	. 5.01

11.75 9.83 12.38 9.83

12.09 9.73

11.08 9.42

10.08 9.11

13.01 10.37

12.69 10.28

11 47 9.93

10.26 9.60

7.85 7.69 8.33 8.16 Notes(1) These data show average status.

8.58

41

43

46

9.43 8.71

9.13

8 49 8.29

Depending on the system control, there may be ranges where the operation is not conducted continuously These data show the case where the operation frequency of a compressor is fixed.

11.40 9.91

10.44 9.58

9.74 9.35

11.14 9.82 11.50

10.68 9.11

10.42 9.01

9.81 8.78

9.19 8.56

In the heating mode in which the outside air temperature is 0°CDB or less, the compressor operates at maximum frequency. (2) Capacities are based on the following conditions.

10.70 9.48

9.90 9.23

Corresponding refrigerant piping length :7.5m

9.88 9.33

9.60 9.22

8.96 8.78

Level difference of Zero.

(3) Symbols are as follows

TC :Total cooling capacity (kW) SHC :Sensible heat capacity (kW) HC: Heating capacity (kW)

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(kW)

22 24

19 75 19 43 18 26 17 08

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16

20.07

16.5

11 84 11 77

12.83 12.59

Model FDUM140VNXWPVH Indoor unit FDUM71VH (2 units) Outdoor unit FDC140VNX-W (kW) (kW) ooling mo Indoor air temperature Indoor air temperature Outdoor Outdoo air temp 18 °CDB 21 °CDB 23 °CDB 27 °CDB 28 °CDB 31 °CDB 33 °CDB °CDB 26 °CDB air temp 12 °CWB 14 °CWB 16 °CWB 18 °CWB 19 °CWB 20 °CWB 22 °CWB 24 °CWB CDB °CWB 18 24 16 20 22 10.95 °CDB TC SHC 19.8 -20 11 01 10.90 10 66 10 42 -15 11.46 13.04 11.56 13.70 11.29 -17.7 -18 11.28 11.05 10.70 10.34 11.01 12.05 10.99 10.87 11.50 -10 11.46 11.01 12.05 10.99 12.38 10.87 13.04 11.56 13.70 11.29 -15.7 -16 12.06 11.78 11.42 11.06 12.33 11.48 11.02 12.08 11.00 12.43 10.89 13.13 11.58 13.84 11.33 -13.5-14 12.60 12.31 12.03 11.67 11.31 0 11.06 10.16 12.88 13.63 11.72 -11.5 -12 12.83 12.51 12.15 11.79 12.02 11.20 12.51 11.13 11.02 14.38 11.45 13.15 5 11.84 10.44 13.33 11.16 14.13 11.85 12.57 11.37 12.93 11.26 14.93 11.58 -9.5 -10 13.70 | 13.35 | 13.00 | 12.63 | 12.27 11 12.32 10.62 13.17 11.57 13 59 11 47 14.01 11.36 14.86 12.05 15.70 11 77 -7.5 -8 14.25 13.87 13.49 13.12 12.75 13 12.80 10.79 13.77 11.78 14.25 11.68 14.70 11.57 15.59 12.25 16.48 11.96 -5.5 -6 14.67 14.36 | 14.04 | 13.68 | 13.32 15 13.28 10.97 14.37 11.98 14.91 15.38 11.78 16.32 12.45 17.26 12.15 -3.0 15.09 14.85 14.60 14.25 13.90 11.90 17 13.49 11.05 14.46 12.01 14.94 11.91 15.42 11.79 16.36 12.46 17.30 12.16 -1.0 -2 15.52 15.34 15.16 14.82 14.47 13.50 11.05 15.83 15.72 15.38 15.04 19 14.55 14.98 11.92 15.45 11.81 16.40 12.47 1.0 12.05 17.34 12.17 0 15.94 21 13.56 11.08 14.54 12.04 14.97 11.92 15.43 11.80 16 35 12 46 17.26 12.15 2.0 16.15 16.08 16.00 15.66 15.33 23 3.0 2 16.15 | 16.08 | 16.00 | 15.66 | 15.33 13.63 11.10 14.53 12.04 14.95 11.91 15.40 11.79 16.29 12.44 17.19 12.14 13.66 11.12 14.95 15.39 11.79 16.27 12.44 5.0 16.08 16.00 15.66 15.33 25 12.78 11.46 14.52 12.04 11.91 17.15 12.13 16.15 27 29 12.89 11 50 13.69 11.13 14.52 12.03 14 94 1191 15.63 11 86 16.33 12.45 16.15 16.08 16.00 15.66 9.0 12.64 11.40 13.45 11.04 14.28 11.95 14.70 11.83 15.42 11.79 16.13 12.40 8 16.93 16.82 16.72 16.39 16.06 11.5 17.70 17.57 17.44 17.12 16.80 31 12.39 11.30 13.21 10.95 14.05 11.87 14.47 11.76 15.20 11.73 15.93 12.34 10 18.49 18.28 18.08 17.43 16.78 33 10.35 9.92 11.45 10.92 12.97 10.86 13.81 11.79 14.24 11.68 14.98 11.66 15.73 | 12.28 13.5 12 35 10.27 11.29 10.86 12.73 10.77 13.57 14.00 11.60 14.76 11.59 15.53 12.23 15.5 14 19.27 | 19.00 | 18.72 | 17.74 | 16.75 10 21 9.86 11.14 10.79 12.48 10.67 13 31 11.62 13.73 11.52 14.47 11.50 15.21 12.14 16.5 19.67 19.36 19.04 17.89 16.74 39 10.15 9.84 10.98 10.73 12.22 10.58 13.05 11.53 13.46 11.43 14.18 11.41 14.89 12.06 41 11.97 10.49 14.58 11.97 10.10 9.81 10.83 10.61 12.78 11.45 13.19 11.35 13.89 11.32 43 10.04 9.79 10.68 10.46 11.72 10.40 12.52 11.36 12.92 11.26 13.59 11.24 14.26 11.88 46 9.06 10.56 9.98 11.11 10.89 11.40 10.79 11.83 10.71 12.25 11.36 9 24 9.77 9.57 9.40 9.21 9.71 9.51 9.88 9.68 10.24 10.03 50 8.45 8 8 8 8.68 10.06 9.86 PJG000Z623 ♠

Model FDUM140VSXWPVH Outdoor unit FDC140VSX-W Indoor unit FDUM71VH (2 units) (kW) Heating mode:HC Cooling mode Indoor air temperature Indoor air temperature Outdoor Outdoo air temp 18 °CDB 21 °CDB 23 °CDB 26 °CDB 27 °CDB 28 °CDB 31 °CDB 33 °CDB °CDB air temp 16 °CWB 12 °CWB 14 °CWB 18 °CWB 19 °CWB 20 °CWB 24 °CWB 22 °CWB °CDB °CWB 16 18 20 °CDB TC SHC 19.8 -20 12 26 12 08 11 90 -15 11 46 11.01 12.05 10.99 12.38 10.87 13 04 11.56 13.70 11.29 -17 7 -18 13.37 13.22 13.07 -10 11.46 11.01 12.05 10.99 12.38 10.87 13.04 11.56 13.70 11.29 -15.7 -16 14.48 14.36 14.24 13.82 13.40 11.48 11.02 12.08 11.00 12.43 10.89 13.13 11.58 13.84 11.33 -13.5-14 14.76 14.63 14.49 14.11 13.72 0 11.13 11.45 -12 15.17 15.00 14.68 14.36 11.06 10.16 12.88 11.02 13.63 11.72 14.38 -11.5 15.34 12.02 11.20 12.51 11.84 10.44 12.57 11.37 12.93 11.26 13.33 11.16 14.13 11.85 14.93 11.58 -9.5 -10 15.70 | 15.50 | 15.25 | 15.00 14.86 12.05 11 11 47 15.70 -7.5 16.24 16.00 15.82 15.64 12.32 10.62 13.17 11.57 13 59 14.01 11.36 11 77 16.48 13 12.80 10.79 13.77 11.78 14.25 11.68 14.70 11.57 15.59 12.25 16.48 11.96 -5.5 -6 16.48 16.24 16.00 15.82 15.64 16.24 16.00 15.82 15.64 13.28 10.97 14.91 15.38 11.78 17.26 12.15 -3.0 15 14.37 11.98 11.90 16.32 12.45 16.48 17 13.49 11.05 14.46 12.01 14.94 11.91 15.42 11.79 16.36 12.46 17.30 12.16 -1.0 -2 16.48 16.24 16.00 15.82 15.64 19 13.50 11.05 14.55 14.98 11 92 15.45 11.81 16.40 12.47 17.34 12.17 1.0 16.24 16.00 15.82 15.64 12.05 0 16.48 21 13 56 11 08 14 54 12.04 14.97 11.92 15 43 11 80 16 35 12 46 17 26 12 15 2.0 16.48 16.24 16.00 15.82 15.64 13.63 11.10 14.53 12.04 14.95 11.91 15.40 11.79 16.29 12.44 17.19 12.14 3.0 16.48 16.24 16.00 15.82 15.64 12.78 11.46 13.66 11.12 14.52 12.04 14.95 11.91 15.39 11.79 16.27 12.44 17.15 12.13 5.0 16.48 16.24 16.00 15.82 15.64 25 27 12.89 11.50 13.69 11.13 14.52 12.03 14.94 11.91 15.63 11.86 16.33 12.45 7.0 6 16.48 16.24 16.00 15.82 15.64 12 64 11 40 13 45 11 04 14 28 11 95 14 70 11.83 15 42 11 79 16 13 12 40 9.0 17.08 16.90 16.64 16.39 29 31 12.39 11.30 13.21 10.95 14.05 11.87 14.47 11.76 15.20 11.73 15.93 12.34 11.5 10 18.06 | 17.93 | 17.79 | 17.47 | 17.14 14.24 12 18.66 18.45 17.78 17.12 33 10.35 9.92 11.45 10.92 13.81 11.79 14.98 11.66 13.5 18.86 12.97 10.86 11.68 15.73 12.28 15.53 12.23 10.27 9.89 11.29 10.86 11.71 14.00 11.60 14.76 11.59 15.5 14 19.39 19.10 18.10 17.09 35 12.73 | 10.77 13.57 19.67

14 47 11 50

14.18 11.41

13.89 11.32

13.59 11.24

11.83 10.71

10.06 9.86

15.21 12.14

14.89 12.06

14.58 11.97

14.26 11.88

10.24 10.03

8.45 8.28 8.86 8.68 Notes(1) These data show average status

9.06

10.21 9 86

10.15 9.84

10.10 9.81

10.04 9.79

39

41

43

46

Depending on the system control, there may be ranges where the operation is not conducted continuously

11.36

11.11 10.89

9.71 9.51

13 73 11 52

13.46 11.43

13.19 11.35

12.92

11.40 10.79

9.88

These data show the case where the operation frequency of a compressor is fixed.

13.31 11.62

13.05 11.53

12.78 11.45

12.52

12 48 10 67

12.22 10.58

11.97 10.49

11.72 10.40

10.56 9.98

9.40 9.21

In the heating mode in which the outside air temperature is 0°CDB or less, the compressor operates at maximum frequency. (2) Capacities are based on the following conditions.

11.26

9.68

Corresponding refrigerant piping length: 7.5m

11 14 10 79

10.98 10.73

10.83 10.61

10.68 10.46

9.77 9.57

Level difference of Zero.

(3) Symbols are as follows

TC: Total cooling capacity (kW) SHC :Sensible heat capacity (kW) HC: Heating capacity (kW)

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(c) Triple type

Model FDUM140VNXWTVH Indoor unit FDUM50VH (3 units) Outdoor unit FDC140VNX-W

Cooling n	node															(KW,
							Ind	oor air t	empera	ture						
Outdoor air temp.	18 °	CDB	21 °	CDB	23 °	CDB	26 °	CDB	27 °	CDB	28 °	CDB	31 °	CDB	33 °	CDB
all temp.	12 °C	CWB	14 °	CWB	16 °	CWB	18 °	CWB	19 °	CWB	20 °	CWB	22 °	CWB	24 °	CWB
°CDB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
-15							11.46	10.32	12.05	10.35	12.38	10.28	13.04	10.87	13.70	10.69
-10							11.46	10.32	12.05	10.35	12.38	10.28	13.04	10.87	13.70	10.69
-5							11.48	10.32	12.08	10.36	12.43	10.30	13.13	10.90	13.84	10.73
0					11.06	9.61	12.02	10.54	12.51	10.52	12.88	10.46	13.63	11.07	14.38	10.90
5					11.84	9.95	12.57	10.75	12.93	10.69	13.33	10.63	14.13	11.24	14.93	11.07
11					12.32	10.15	13.17	10.99	13.59	10.94	14.01	10.88	14.86	11.49	15.70	11.31
13					12.80	10.36	13.77	11.24	14.25	11.20	14.70	11.14	15.59	11.74	16.48	11.56
15					13.28	10.57	14.37	11.48	14.91	11.46	15.38	11.40	16.32	12.00	17.26	11.81
17					13.49	10.67	14.46	11.52	14.94	11.47	15.42	11.41	16.36	12.01	17.30	11.82
19					13.50	10.67	14.55	11.56	14.98	11.49	15.45	11.42	16.40	12.02	17.34	11.84
21					13.56	10.70	14.54	11.56	14.97	11.48	15.43	11.41	16.35	12.01	17.26	11.81
23					13.63	10.73	14.53	11.55	14.95	11.48	15.40	11.40	16.29	11.99	17.19	11.79
25			12.78	10.96	13.66	10.74	14.52	11.55	14.95	11.47	15.39	11.40	16.27	11.98	17.15	11.78
27			12.89	11.01	13.69	10.76	14.52	11.55	14.94	11.47	15.63	11.49	16.33	12.00		
29			12.64	10.89	13.45	10.65	14.28	11.45	14.70	11.38	15.42	11.41	16.13	11.93		
31			12.39	10.77	13.21	10.55	14.05	11.35	14.47	11.29	15.20	11.33	15.93	11.86		
33	10.35	9.41	11.45	10.33	12.97	10.44	13.81	11.26	14.24	11.19	14.98	11.24	15.73	11.79		
35	10.27	9.37	11.29	10.26	12.73	10.33	13.57	11.16	14.00	11.10	14.76	11.16	15.53	11.72		
37	10.21	9.35	11.14	10.19	12.48	10.22	13.31	11.05	13.73	11.00	14.47	11.05	15.21	11.61		
39	10.15	9.32	10.98	10.12	12.22	10.11	13.05	10.95	13.46	10.89	14.18	10.94	14.89	11.50		
41	10.10	9.29	10.83	10.04	11.97	10.00	12.78	10.84	13.19	10.79	13.89	10.83	14.58	11.39		<u> </u>
43	10.04	9.26	10.68	9.97	11.72	9.89	12.52	10.74	12.92	10.68	13.59	10.72	14.26	11.28		
46	9.24	8.88	9.77	9.56	10.56	9.40	11.11	10.18	11.40	10.11	11.83	10.08	12.25	10.61		—
50	8 45	8 28	8 8 8	8 68	9.40	8 93	9.71	9.51	9.88	9.55	10.06	9 4 5	10 24	9 96		1

(kW)	ŀ	Heating	mode:l	НС				(kW)
		Out	door		Indoor	air temp	erature	
DB		air te	emp.			°CDB		
NΒ		°CDB	°CWB	16	18	20	22	24
SHC		-19.8	-20	11.01	10.95	10.90	10.66	10.42
0.69		-17.7	-18	11.50	11.28	11.05	10.70	10.34
0.69		-15.7	-16	12.33	12.06	11.78	11.42	11.06
0.73		-13.5	-14	12.60	12.31	12.03	11.67	11.31
0.90		-11.5	-12	13.15	12.83	12.51	12.15	11.79
1.07		-9.5	-10	13.70	13.35	13.00	12.63	12.27
1.31		-7.5	-8	14.25	13.87	13.49	13.12	12.75
1.56		-5.5	-6	14.67	14.36	14.04	13.68	13.32
1.81		-3.0	-4	15.09	14.85	14.60	14.25	13.90
1.82		-1.0	-2	15.52	15.34	15.16	14.82	14.47
1.84	Ш	1.0	0	15.94	15.83	15.72	15.38	15.04
1.81		2.0	1	16.15	16.08	16.00	15.66	15.33
1.79		3.0	2	16.15	16.08	16.00	15.66	15.33
1.78		5.0	4	16.15	16.08	16.00	15.66	15.33
	Ш	7.0	6	16.15	16.08	16.00	15.66	15.33
		9.0	8	16.93	16.82	16.72	16.39	16.06
		11.5	10	17.70	17.57	17.44	17.12	16.80
	П	13.5	12	18.49	18.28	18.08	17.43	16.78
	П	15.5	14	19.27	19.00	18.72	17.74	16.75
	П	16.5	16	19.67	19.36	19.04	17.89	16.74
\neg	1 '							

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Model FDUM140VSXWTVH Indoor unit FDUM50VH (3 units) Outdoor unit FDC140VSX-W

Cooling mode

43

46

10.04 9.26

Indoor air temperature Outdoo 18 °CDB 21 °CDB 23 °CDB 26 °CDB 27 °CDB 28 °CDB 31 °CDB 33 °CDB air temp 12 °CWB 14 °CWB 16 °CWB 18 °CWB 19 °CWB 20 °CWB 22 °CWB 24 °CWB °CDB TC SHC 11 46 10.32 10.35 10.28 13 04 10.87 10.69 -10 11.46 10.32 12.05 10.35 12.38 10.28 13.04 10.87 13.70 10.69 11.48 10.32 12.08 10.36 12.43 10.30 13.13 10.90 13.84 10.73 0 12.88 10.46 11.06 9.61 12.02 10.54 12.51 10.52 13.63 11.07 14.38 10.90 11.84 9.95 11 12.32 10.15 13.17 10.99 13.59 10.94 14.01 10.88 14.86 11.49 15.70 11.31 13 12.80 10.36 13.77 11.24 14.25 11.20 14.70 11.14 15.59 11.74 16.48 11.56 13.28 10.57 14.91 11.46 15.38 11.40 17.26 11.81 15 14.37 11.48 16.32 12.00 17 13.49 10.67 14.46 11.52 14.94 11.47 15.42 11.41 16.36 12.01 17.30 11.82 19 13.50 10.67 14.55 11.56 14.98 11.49 15.45 11.42 16.40 12.02 17.34 11.84 21 13.56 10.70 14.54 11.56 14.97 11.48 15.43 11.41 16.35 12.01 17.26 11.81 13.63 10.73 14.53 11.55 14.95 11.48 15.40 11.40 16.29 11.99 17.19 11.79 25 13.66 10.74 14.52 11.55 14.95 15.39 11.40 16.27 11.98 27 29 12.89 11.01 13.69 10.76 14.52 11.55 14.94 11.47 15.63 11.49 16.33 12.00 12 64 10 89 13 45 10 65 14 28 11 45 14 70 11.38 15 42 11 41 16 13 11 93 31 12.39 10.77 13.21 10.55 14.05 11.35 14.47 11.29 15.20 11.33 15.93 11.86 33 10.35 9.41 11.45 10.33 12.97 10.44 13.81 14.24 11.19 14.98 11.24 15.73 11.79 11.26 35 10.27 9.37 11.29 10.26 12.73 10.33 13.57 11.16 15.53 11.72 10.21 11.14 10.19 12.48 10.22 13.31 11.05 11.00 14 47 11.05 15.21 11.61 39 10.15 9.32 10.98 10.12 12.22 10.11 13.05 10.95 13.46 10.89 14.18 10.94 14.89 11.50 41 10.10 9.29 10.83 10.04 11.97 10.00 12.78 10.84 13.19 10.79 13.89 10.83 14.58 11.39

(kW)	ŀ	Heating	mode:l	НС				(kW)
		Out	door		Indoor	air temp	erature	
DB		air te	emp.			°CDB		
ΝB		°CDB	°CWB	16	18	20	22	24
SHC		-19.8	-20	12.26	12.08	11.90	11.84	11.77
0.69		-17.7	-18	13.37	13.22	13.07	12.83	12.59
0.69		-15.7	-16	14.48	14.36	14.24	13.82	13.40
0.73	Ш	-13.5	-14	14.76	14.63	14.49	14.11	13.72
0.90	Ш	-11.5	-12	15.34	15.17	15.00	14.68	14.36
1.07	Ш	-9.5	-10	15.91	15.70	15.50	15.25	15.00
1.31	Ш	-7.5	-8	16.48	16.24	16.00	15.82	15.64
1.56	Ш	-5.5	-6	16.48	16.24	16.00	15.82	15.64
1.81	Ш	-3.0	-4	16.48	16.24	16.00	15.82	15.64
1.82	Ш	-1.0	-2	16.48	16.24	16.00	15.82	15.64
1.84	Ш	1.0	0	16.48	16.24	16.00	15.82	15.64
1.81	П	2.0	1	16.48	16.24	16.00	15.82	15.64
1.79	Ш	3.0	2	16.48	16.24	16.00	15.82	15.64
1.78	Ш	5.0	4	16.48	16.24	16.00	15.82	15.64
	Ш	7.0	6	16.48	16.24	16.00	15.82	15.64
	П	9.0	8	17.27	17.08	16.90	16.64	16.39
		11.5	10	18.06	17.93	17.79	17.47	17.14
		13.5	12	18.86	18.66	18.45	17.78	17.12
	H	15.5	14	19.67	19.39	19.10	18.10	17.09
		16.5	16	20.07	19.75	19.43	18.26	17.08
	Ι.		•	•		•	•	

PJG000Z623 ∕€\

8.45 8.28 8.86 8.68 Notes(1) These data show average status

8.88

Depending on the system control, there may be ranges where the operation is not conducted continuously.

12.92 10.68

11.40 10.11

9.88

These data show the case where the operation frequency of a compressor is fixed.

12.52 10.74

11.11 10.18

9.71 9.51

11.72 9.89

10.56 9.40

9.40 8.93

In the heating mode in which the outside air temperature is 0°CDB or less, the compressor operates at maximum frequency. (2) Capacities are based on the following conditions.

Corresponding refrigerant piping length :7.5m Level difference of Zero. (3) Symbols are as follows

10.68 9.97

9.77 9.56

TC: Total cooling capacity (kW) SHC :Sensible heat capacity (kW) HC :Heating capacity (kW) 13.59 10.72

11.83 10.08

10.06 9.45

14.26 11.28

10.24 9.96

(5) Ceiling susponded type (FDE)

(a) Single type

Indoor unit FDE100VH Model FDE100VNXWVH Outdoor unit FDC100VNX-W (kW) Heatir

Cooling mode Indoor air temperature Outdoo 18 °CDB 21 °CDB 23 °CDB 26 °CDB 27 °CDB 28 °CDB 31 °CDB 33 °CDB air temp 12 °CWB 14 °CWB 16 °CWB 18 °CWB 19 °CWB 20 °CWB 24 °CWB °CDB TC SHC 1.26 9.03 11.76 9.03 12.09 8.96 12.75 9.40 13.41 9.21 -10 11.26 9.03 11.76 9.03 12.09 8.96 12.75 9.40 13.41 9.21 -5 0 11.26 9.03 11.76 9.03 12.09 8.96 12.75 9.40 13.41 9.21 10.51 8.36 11.35 9.07 9.42 11.76 9.03 12.11 8.96 12.80 13.49 9.24 5 10.77 8.46 11.43 9.10 11.76 9.03 12.13 8.97 12.85 9.44 9.26 11 10.68 8.43 11.33 9.06 11.66 8.99 12.02 8.93 12.75 9.40 13.47 9.23 13 10.59 8.39 12.64 9.37 11.23 9.02 11.56 8.95 11.92 8.89 13.36 9.20 10.50 8.35 11.13 8.98 11.45 8.91 11.81 8.85 9.33 9.17 17 10.34 8.28 10.98 8.92 11.30 8.86 11 65 8 80 12 37 9.28 13.08 9.11 19 10.21 8.23 10.82 8.86 11.14 8.80 11.49 8.74 12.20 9.22 12.90 9.06 10.10 8.18 9.00 10.71 8.82 11.02 11.36 8.69 12.03 9.17 23 9.98 8.13 10.59 8.77 10.90 8.71 11.22 8.64 11.87 9.11 12.52 8.95 9.35 8.32 9.93 8.11 10.53 8.75 10.83 8.68 11.15 8.62 11.79 9.09 12.43 8.92 9.30 8.30 9.87 8.09 10.47 8.72 10.77 8.66 11.27 8.66 11.77 9.08 29 9.12 8.22 9.70 8.01 10.29 8.65 10.58 8.59 11.10 8.60 11.63 9.03 8.94 8.14 9.53 7.94 10.10 8.58 10.39 8.52 10.94 8.54 11.48 8.99 33 8.48 7.60 8.77 8.06 9.35 7.87 9.92 8.51 10.19 8.45 10.77 8.48 11.34 8.94 35 7.48 8.55 7.97 9.74 8.89 8.22 9.18 7.80 8.45 10.00 8.38 10.60 8.42 11.20 7.99 7.37 8.37 8.30 10.37 10.93 39 7.76 7.26 8.11 7.78 8.76 7.63 9.33 8.29 9.60 8.23 10.14 8.26 10.67 8.73 41 7.53 7.15 7.89 7.68 8.55 7.54 9.12 8.21 9.40 8.16 9.90 8.18 10.41 8.64 7.30 7.05 7.68 7.52 8.34 7.45 8.91 8.13 8.10 10.15 8.56 9.20 8.09 9.67 6.78 6.65 7.16 7.02 7.25 8.44 7.96 7.93 7.95 9.24

7 96 7 78

ŀ	leating	mode:l	HC				(kW)
	Out	door		Indoor	air temp	erature	;
	air te	emp.			°CDB		
	°CDB	°CWB	16	18	20	22	24
	-19.8	-20	10.06	9.87	9.70	9.53	9.35
	-17.7	-18	10.14	9.98	9.82	9.65	9.47
	-15.7	-16	10.23	10.08	9.94	9.77	9.59
	-13.5	-14	10.55	10.37	10.20	10.01	9.81
	-11.5	-12	11.14	10.93	10.70	10.47	10.23
	-9.5	-10	11.31	11.25	11.20	10.95	10.71
	-7.5	-8	11.31	11.25	11.20	10.96	10.73
	-5.5	-6	11.31	11.25	11.20	10.96	10.73
	-3.0	-4	11.31	11.25	11.20	10.96	10.73
	-1.0	-2	11.31	11.25	11.20	10.96	10.73
	1.0	0	11.31	11.25	11.20	10.96	10.73
	2.0	1	11.31	11.25	11.20	10.96	10.73
	3.0	2	11.31	11.25	11.20	10.96	10.73
	5.0	4	11.31	11.25	11.20	10.96	10.73
	7.0	6	11.31	11.25	11.20	10.96	10.73
	9.0	8	11.85	11.78	11.70	11.47	11.24
	11.5	10	12.39	12.30	12.21	11.98	11.76
	13.5	12	12.94	12.88	12.82	12.66	12.49
	15.5	14	13.49	13.46	13.43	13.33	13.22
	16.5	16	13.77	13.75	13.74	13.66	13.59
•							

PFA004Z110 ∕A

Model FDE100VSXWVH

Cooling mode

627 614

6 64 6 51

Indoor unit FDE100VH

7.32 7.05

Outdoor unit FDC100VSX-W

8 81

7 80

(kW)

							Inde	oor air t	empera	ture						
Outdoor air temp.	18 °	CDB	21 °	CDB	23 °	CDB	26 °	CDB	27 °	CDB	28 °	CDB	31 °	CDB	33 °	CDB
an temp.	12 °	CWB	14 °	CWB	16 °	CWB	18 °	CWB	19 °C	CWB	20 °C	CWB	22 °C	CWB	24 °C	CWB
°CDB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
-15							11.26	9.03	11.76	9.03	12.09	8.96	12.75	9.40	13.41	9.21
-10							11.26	9.03	11.76	9.03	12.09	8.96	12.75	9.40	13.41	9.21
-5							11.26	9.03	11.76	9.03	12.09	8.96	12.75	9.40	13.41	9.21
0					10.51	8.36	11.35	9.07	11.76	9.03	12.11	8.96	12.80	9.42	13.49	9.24
5					10.77	8.46	11.43	9.10	11.76	9.03	12.13	8.97	12.85	9.44	13.58	9.26
11					10.68	8.43	11.33	9.06	11.66	8.99	12.02	8.93	12.75	9.40	13.47	9.23
13					10.59	8.39	11.23	9.02	11.56	8.95	11.92	8.89	12.64	9.37	13.36	9.20
15					10.50	8.35	11.13	8.98	11.45	8.91	11.81	8.85	12.54	9.33	13.26	9.17
17					10.34	8.28	10.98	8.92	11.30	8.86	11.65	8.80	12.37	9.28	13.08	9.11
19					10.21	8.23	10.82	8.86	11.14	8.80	11.49	8.74	12.20	9.22	12.90	9.06
21					10.10	8.18	10.71	8.82	11.02	8.75	11.36	8.69	12.03	9.17	12.71	9.00
23					9.98	8.13	10.59	8.77	10.90	8.71	11.22	8.64	11.87	9.11	12.52	8.95
25			9.35	8.32	9.93	8.11	10.53	8.75	10.83	8.68	11.15	8.62	11.79	9.09	12.43	8.92
27			9.30	8.30	9.87	8.09	10.47	8.72	10.77	8.66	11.27	8.66	11.77	9.08		
29			9.12	8.22	9.70	8.01	10.29	8.65	10.58	8.59	11.10	8.60	11.63	9.03		
31			8.94	8.14	9.53	7.94	10.10	8.58	10.39	8.52	10.94	8.54	11.48	8.99		
33	8.48	7.60	8.77	8.06	9.35	7.87	9.92	8.51	10.19	8.45	10.77	8.48	11.34	8.94		
35	8.22	7.48	8.55	7.97	9.18	7.80	9.74	8.45	10.00	8.38	10.60	8.42	11.20	8.89		
37	7.99	7.37	8.33	7.87	8.97	7.71	9.53	8.37	9.80	8.30	10.37	8.34	10.93	8.81		
39	7.76	7.26	8.11	7.78	8.76	7.63	9.33	8.29	9.60	8.23	10.14	8.26	10.67	8.73		
41	7.53	7.15	7.89	7.68	8.55	7.54	9.12	8.21	9.40	8.16	9.90	8.18	10.41	8.64		
43	7.30	7.05	7.68	7.52	8.34	7.45	8.91	8.13	9.20	8.09	9.67	8.10	10.15	8.56		
46	6.78	6.65	7.16	7.02	7.83	7.25	8.44	7.96	8.75	7.93	9.24	7.95	9.73	8.43		
50	6.27	6.14	6.64	6.51	7.32	7.05	7.96	7.78	8.30	7.77	8.81	7.80	9.32	8.30		

Outdoor		Indoor air temperature												
air te	emp.	°CDB												
°CDB	°CWB	16	18	20	22	24								
-19.8	-20	10.22	9.96	9.70	9.40	9.10								
-17.7	-18	10.76	10.60	10.45	10.16	9.88								
-15.7	-16	11.31	11.25	11.19	10.92	10.65								
-13.5	-14	11.31	11.25	11.19	10.93	10.67								
-11.5	-12	11.31	11.25	11.20	10.94	10.69								
-9.5	-10	11.31	11.25	11.20	10.95	10.71								
-7.5	-8	11.31	11.25	11.20	10.96	10.73								
-5.5	-6	11.31	11.25	11.20	10.96	10.73								
-3.0	-4	11.31	11.25	11.20	10.96	10.73								
-1.0	-2	11.31	11.25	11.20	10.96	10.73								
1.0	0	11.31	11.25	11.20	10.96	10.73								
2.0	1	11.31	11.25	11.20	10.96	10.73								
3.0	2	11.31	11.25	11.20	10.96	10.73								
5.0	4	11.31	11.25	11.20	10.96	10.73								
7.0	6	11.31	11.25	11.20	10.96	10.73								
9.0	8	11.85	11.78	11.70	11.47	11.24								
11.5	10	12.39	12.30	12.21	11.98	11.76								
13.5	12	12.94	12.88	12.82	12.66	12.49								
15.5	14	13.49	13.46	13.43	13.33	13.22								
16.5	16	13.77	13.75	13.74	13.66	13.59								

(kW) Heating mode:HC

PFA004Z110 /A

Notes(1) These data show average status.

Depending on the system control, there may be ranges where the operation is not conducted continuously.

These data show the case where the operation frequency of a compressor is fixed.

In the heating mode in which the outside air temperature is 0°CDB or less, the compressor operates at maximum frequency. (2) Capacities are based on the following conditions.

-141 -

Corresponding refrigerant piping length :7.5m

Level difference of Zero.
(3) Symbols are as follows
TC: Total cooling capacity (kW) SHC :Sensible heat capacity (kW)
HC :Heating capacity (kW)

PFA004Z110 /A

Outdoor unit FDC125VNX-W Model FDE125VNXWVH Indoor unit FDE125VH (kW) (kW) ooling mo Indoor air temperature Outdoor Indoor air temperature Outdoo air temp. 18 °CDB 21 °CDB 23 °CDB 26 °CDB 27 °CDB 28 °CDB 31 °CDB 33 °CDB °CDB air temr 12 °CWB 14 °CWB 16 °CWB 18 °CWB 19 °CWB 20 °CWB 22 °CWB 24 °CWB °CDB I °CWB 16 18 20 22 24 -19 8 -20 10 18 9 64 °CDB TC SHC TC SHC TC SHC TC SHC тс І SHC TC SHC TC SHC TC SHC 10.37 10.00 9.82 -15 11.89 9.29 12.37 9.27 12.71 9.19 13.39 9.62 14.07 9.42 -17.7 -18 10.43 10.26 10.10 9.92 9.74 -10 11.89 9.29 12.37 9.27 12.71 9.19 13.39 9.62 14.07 9.42 -15.7 -16 10.49 10.34 10.19 10.02 9.84 11.95 9.31 12.57 9.34 12.94 9.27 13.67 9.72 14.40 9.52 -13.5 -14 10.79 10.61 10.44 10.24 10.04 0 11.69 8.86 12.71 9.62 13.21 9.60 13.61 9.52 14.40 9.97 15.19 9.77 -11.5 -12 11.37 11.15 10.92 10.68 10.44 5 12.68 9.31 13.46 9.93 13.85 9.85 14.28 9.78 15.14 10.23 15.99 10.03 -9.5 -10 11.96 11.68 11.40 11.12 10.84 11 12.84 9.38 13.62 10.00 14.01 9.91 14 44 9.84 15.31 10.29 16.18 10.09 -7.5 -8 12.55 12.22 11.88 11.56 11.23 13 12.99 9.45 13.77 10.06 14.16 9.98 14.60 9.91 15.49 10.36 16.38 10.15 -5.5 -6 12.90 12.63 12.35 12.03 11.72 15 13.14 13.92 10.13 14.31 10.04 14.77 16.57 10.22 -3.0 13.25 13.04 12.82 12.51 9.52 9.97 15.67 10.42 12.20 17 12.94 9.42 13.73 10.04 14.12 9.96 14.57 9.89 15.46 10.34 16.35 10.14 -1.0 -2 13.61 13.45 13.29 12.99 12.69 13.53 9.96 19 12.76 9.34 13.93 9.88 14.37 9.81 15.24 10.27 16.12 10.07 1.0 0 13.96 | 13.86 | 13.76 | 13.47 13.17 21 12.62 9.28 13.38 9.90 13.77 9.82 14 20 9.75 15.04 10.20 15.89 9.99 2.0 14.13 14.07 14.00 13.71 13.41 23 3.0 2 14.13 14.07 14.00 13.71 13.41 12.48 9.22 13.23 9.83 13.62 9.76 14.03 9.68 14.84 10.12 15.65 9.92 25 11.69 9.41 12.41 9.19 13.16 9.80 13.54 9.73 13.94 9.65 14.74 10.09 15.54 9.88 5.0 4 14.00 13.71 13.41 14.13 14.07 10.08 14.13 14.07 14.00 13.41 11.62 9.38 12.34 9.15 13.08 9.77 13.46 9.70 14.09 14 71 27 29 9.27 9.0 11.40 12.12 9.06 12.86 9.68 13.22 9.60 13.88 9.63 14.53 10.02 8 14.81 14.72 14.63 14.34 14.06 15.49 15.37 15.26 14.98 14.70 11.5 10 31 11.17 9.17 11.91 8.96 12.63 9.59 12.98 9.51 13.67 9.54 14.35 9.95 33 10.36 8.53 10.84 9.01 11.69 8.87 12.40 9.49 12.74 9.41 13.46 9.46 14.18 9.89 13.5 12 16.18 16.10 16.02 15.74 15.45 12.18 9.40 14 10.33 8.51 10.71 8.95 11.47 8.77 12.50 9.32 13.25 9.39 14.00 9.83 15.5 16.87 | 16.83 | 16.79 | 16.49 | 16.20 10.03 8.36 10.43 8.82 11 21 8.66 11.92 9.30 12.25 9.22 12.96 9.28 13.67 9.72 16.5 16 17.21 17.19 17.17 16.87 16.57 39 9.73 8.22 10.16 8.69 10.95 8.54 11.66 9.19 12.00 9.12 12.67 9.17 13.34 9.60 41 10.68 11.40 9.09 11.75 9.03 9.43 8.07 9.88 8.56 8.43 12.38 9.06 13.01 9.49 43 9.13 7.92 9.60 8.44 10.42 8.32 11.14 8.99 11.50 8.93 12.09 8.96 12.69 9.38 PFA004Z110 ∕A 46 8.49 7.61 8.96 8.15 9.81 8.06 10.44 8.71 10.70 8.63 11.08 8.59 11.47 8.98 7.30 7.87 9.19 7.80 9.74 8.44 9.90 8.34 10.08 8.24 10.26

Model F		vsxw\	/H		Indoor	unit F	DE125	VH			Outdoo	r unit	FDC12	25VSX	-VV								
Cooling m	ling mode (kW)													Heating	mode:		(kW)						
							Ind	oor air t	empera	ture							Out	door		Indoor	air temp	perature	;
Outdoor air temp.	18 °	18 °CDB 21 °CDB		23 °	CDB	26 °CDB		27 °	27 °CDB		CDB	31 °CDB		33 °	CDB	air t	emp.	°CDB					
all terrip.	12 °C	12 °CWB 14 °CWB		16 °CWB		18 °CWB		19 °CWB		20 °CWB		22 °CWB		24 °CWB		°CDB	°CWB	16	18	20	22	24	
°CDB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	-19.8	-20	11.30	11.10	10.90	10.70	10.50
-15							11.89	9.29	12.37	9.27	12.71	9.19	13.39	9.62	14.07	9.42	-17.7	-18	11.98	11.75	11.52	11.34	11.16
-10							11.89	9.29	12.37	9.27	12.71	9.19	13.39	9.62	14.07	9.42	-15.7	-16	12.63	12.45	12.27	12.05	11.84
-5							11.95	9.31	12.57	9.34	12.94	9.27	13.67	9.72	14.40	9.52	-13.5	-14	12.84	12.68	12.51	12.29	12.06
0					11.69	8.86	12.71	9.62	13.21	9.60	13.61	9.52	14.40	9.97	15.19	9.77	-11.5	-12	13.27	13.14	13.01	12.76	12.51
5					12.68	9.31	13.46	9.93	13.85	9.85	14.28	9.78	15.14	10.23	15.99	10.03	-9.5	-10	14.13	14.07	14.00	13.71	13.41
11					12.84	9.38	13.62	10.00	14.01	9.91	14.44	9.84	15.31	10.29	16.18	10.09	-7.5	-8	14.13	14.07	14.00	13.71	13.41
13					12.99	9.45	13.77	10.06	14.16	9.98	14.60	9.91	15.49	10.36	16.38	10.15	-5.5	-6	14.13	14.07	14.00	13.71	13.41
15					13.14	9.52	13.92	10.13	14.31	10.04	14.77	9.97	15.67	10.42	16.57	10.22	-3.0	-4	14.13	14.07	14.00	13.71	13.41
17					12.94	9.42	13.73	10.04	14.12	9.96	14.57	9.89	15.46	10.34	16.35	10.14	-1.0	-2	14.13	14.07	14.00	13.71	13.41
19					12.76	9.34	13.53	9.96	13.93	9.88	14.37	9.81	15.24	10.27	16.12	10.07	1.0	0	14.13	14.07	14.00	13.71	13.41
21					12.62	9.28	13.38	9.90	13.77	9.82	14.20	9.75	15.04	10.20	15.89	9.99	2.0	1	14.13	14.07	14.00	13.71	13.41
23					12.48	9.22	13.23	9.83	13.62	9.76	14.03	9.68	14.84	10.12	15.65	9.92	3.0	2	14.13	14.07	14.00	13.71	13.41
25			11.69	9.41	12.41	9.19	13.16	9.80	13.54	9.73	13.94	9.65	14.74	10.09	15.54	9.88	5.0	4	14.13	14.07	14.00	13.71	13.41
27			11.62	9.38	12.34	9.15	13.08	9.77	13.46	9.70	14.09	9.71	14.71	10.08			7.0	6	14.13	14.07	14.00	13.71	13.41
29 31			11.40	9.27	12.12 11.91	9.06 8.96	12.86 12.63	9.68	13.22 12.98	9.60	13.88 13.67	9.63 9.54	14.53 14.35	10.02 9.95		\vdash	9.0	10	14.81 15.49	14.72 15.37	14.63 15.26	14.34	14.06
33	10.36	8.53	11.17 10.84	9.17	11.69	8.96	12.63	9.59	12.98	9.51	13.67	9.54	14.35	9.95				12	16.18	16.10	16.02		_
35	10.36	8.53	10.84	8.95	11.69	8.87	12.40	9.49	12.74	9.41	13.46	9.46	14.18	9.89		\vdash	13.5 15.5	14	16.18	16.10	16.02	15.74 16.49	15.45 16.20
37	10.33	8.36	10.71	8.82	11.47	8.66	11.92	9.40	12.25	9.32	12.96	9.39	13.67	9.83		$\vdash \vdash$	16.5	16	17.21	17.19	17.17	16.49	16.20
39	9.73	8.22	10.43	8.69	10.95	8.54	11.66	9.19	12.23	9.12	12.67	9.17	13.34	9.60		\vdash	10.5	10	17.21	17.19	17.17	10.07	10.57
41	9.43	8.07	9.88	8.56	10.68	8.43	11.40	9.09	11.75	9.03	12.07	9.06	13.01	9.49		\vdash							
	0.10	0.07	0.00	0.00	10.00	0.40	11.70	0.00	11.70	0.00	12.00	0.00	10.01	0.40	_	\vdash							

12.09 8.96

11.08 8.59

10.08 8.24

12.69 9.38

11.47 8.98

10.26 8.59

Notes(1) These data show average status

7.92

43

46

9.13

8 49 7.61

Depending on the system control, there may be ranges where the operation is not conducted continuously.

These data show the case where the operation frequency of a compressor is fixed.

11.14 8.99

10.44 8.71

10.42 8.32

9.81 8.06

In the heating mode in which the outside air temperature is 0°CDB or less, the compressor operates at maximum frequency. (2) Capacities are based on the following conditions.

11.50 8.93

10.70 8.63

9.90 8.34

Corresponding refrigerant piping length :7.5m

7.85 7.30 8.33 7.87 9.19 7.80 9.74 8.44

9.60 8.44

8.96 8.15

Level difference of Zero.

(3) Symbols are as follows

TC: Total cooling capacity (kW) SHC :Sensible heat capacity (kW) HC :Heating capacity (kW)

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PFA004Z110 /A

Indoor unit FDE140VH Outdoor unit FDC140VNX-W Model FDE140VNXWVH (kW) (kW) ooling mo Indoor air temperature Outdoor Indoor air temperature Outdoo air temp 18 °CDB 21 °CDB 23 °CDB 26 °CDB 27 °CDB 28 °CDB 31 °CDB 33 °CDB °CDB air temp 12 °CWB 14 °CWB 16 °CWB 18 °CWB 19 °CWB 20 °CWB 22 °CWB 24 °CWB °CDB °CWB 18 20 22 24 16 °CDB 19.8 -20 11 01 10.95 10 66 10 42 TC SHC 10.90 11.46 9.40 12.05 9.43 9.34 13.04 9.82 13.70 9.62 -17.7 -18 11.50 11.28 11.05 10.70 10.34 -10 11.46 9.40 12.05 9.43 12.38 9.34 13.04 9.82 13.70 9.62 -15.7 -16 12.33 12.06 11.78 11.42 11.06 11.48 9.41 12.08 9.44 12.43 9.36 13.13 9.85 13.84 9.66 -13.5-14 12.60 12.31 12.03 11.67 11.31 0 11.06 8.83 12.02 9.62 9.60 12.88 9.53 14.38 9.83 -11.5 -12 13.15 12.83 12.51 12.15 11.79 12.51 13.63 10.02 14.93 5 11.84 9.16 9.84 12.93 9.76 13.33 9.69 14.13 10.19 10.00 -9.5 11 12.32 9.37 13.17 10.08 13.59 10.02 14.01 9.95 14.86 10.44 15.70 10.24 -7.5 -8 14.25 | 13.87 | 13.49 | 13.12 | 12.75 13 12.80 9.59 13.77 10.33 14.25 10.28 14.70 10.21 15.59 10.69 16.48 10.49 -5.5 -6 14.67 | 14.36 | 14.04 | 13.68 | 13.32 15 13.28 9.80 14.37 10.58 14.91 10.54 15.38 10.47 16.32 10.95 17.26 10.74 -3.0 15.09 14.85 14.60 14.25 13.90 17 13.49 9.89 14.46 10.62 14.94 10.56 15.42 10.49 16.36 10.97 17.30 10.75 -1.0 -2 15.52 15.34 15.16 14.82 14.47 19 13.50 9.90 14.55 10.66 14.98 10.57 15.45 10.50 16.40 10.98 17.34 10.77 1.0 15.94 15.83 15.72 15.38 15.04 0 21 13.56 9.93 14.54 10.65 14.97 10.57 15.43 10.49 16.35 10.96 17.26 10.74 2.0 16.15 16.08 16.00 15.66 15.33 23 3.0 14.53 16.15 16.08 16.00 15.66 15.33 13.63 9.96 10.65 14.95 10.56 15.40 10.48 16.29 10.94 17.19 10.72 12.78 10.18 13.66 9.97 14.52 14.95 10.56 15.39 10.47 16.27 10.93 17.15 10.71 5.0 16.15 16.08 16.00 15.66 15.33 25 10.64 12.89 14.52 16.33 16.08 16.00 15.66 13.69 9.99 10.64 14 94 10.56 15.63 10.57 10.95 27 29 9.0 12.64 10.11 13.45 9.88 14.28 10.54 14.70 10.46 15.42 10.49 16.13 10.88 16.93 16.82 16.72 16.39 16.06 11.5 17.70 17.57 17.44 17.12 16.80 31 12.39 9.99 13.21 9.77 14.05 10.44 14.47 10.37 15.20 10.40 15.93 10.81 10 33 11.45 9.54 14.24 10.27 13.5 12 18.49 18.28 18.08 17.43 16.78 10.35 8.73 12.97 9.66 13.81 10.35 14.98 10.32 15.73 10.74 14.00 10.18 14.76 10.23 19.27 19.00 18.72 17.74 16.75 10.21 8.67 11.14 9.40 12.48 9.44 13.31 10.14 13.73 10.07 14.47 10.12 15.21 10.56 16.5 16 19.67 19.36 19.04 17.89 16.74 39 10.15 8.64 10.98 9.33 12.22 9.33 13.05 10.03 13.46 9.97 14.18 10.01 14.89 10.45 41 14.58 10.34 10.10 8.61 10.83 9.25 11.97 9.22 12.78 9.93 13.19 9.86 13.89 9.90 43 10.04 8.58 10.68 9.18 11.72 9.11 12.52 9.82 12.92 9.76 13.59 9.79 14.26 10.23 46 9 24 8.19 9 77 8 77 10.56 8.62 11.11 9.27 11.40 9.18 11.83 9.15 12.25 9.56 PFA004Z110 /Ĥ 8.86 8.37 9.40 8.14 9.71 8.73 9.88 8.63 10.06 8.53 10.24 8.92

Model FI	DE140	vsxw\	/H		Indoor	unit F	DE140	VH			Outdoo	or unit	FDC14	IOVSX-	-W								
Cooling mode (kW)												Heatir	g mode:l		(kW)								
	Indoor air temperature											0	ıtdoor		Indoor air temperature								
Outdoor air temp.	18 °CDB 21 °CDB		23 °CDB 2			26 °CDB		27 °CDB		28 °CDB		31 °CDB		33 °CDB		temp.			°CDB				
all terrip.	12 °C	12 °CWB 14 °CWB		16 °CWB		18 °CWB		19 °CWB		20 °CWB		22 °CWB		24 °CWB		°CD	°CWB	16	18	20	22	24	
°CDB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	-19.8	-20	12.26	12.08	11.90	11.84	11.77
-15							11.46	9.40	12.05	9.43	12.38	9.34	13.04	9.82	13.70	9.62	-17.7	-18	13.37	13.22	13.07	12.83	12.59
-10							11.46	9.40	12.05	9.43	12.38	9.34	13.04	9.82	13.70	9.62	-15.7	-16	14.48	14.36	14.24	13.82	13.40
-5							11.48	9.41	12.08	9.44	12.43	9.36	13.13	9.85	13.84	9.66	-13.	-14	14.76	14.63	14.49	14.11	13.72
0					11.06	8.83	12.02	9.62	12.51	9.60	12.88	9.53	13.63	10.02	14.38	9.83	-11.5	-12	15.34	15.17	15.00	14.68	14.36
5					11.84	9.16	12.57	9.84	12.93	9.76	13.33	9.69	14.13	10.19	14.93	10.00	-9.5	-10	15.91	15.70	15.50	15.25	15.00
11					12.32	9.37	13.17	10.08	13.59	10.02	14.01	9.95	14.86	10.44	15.70	10.24	-7.5	-8	16.48	16.24	16.00	15.82	15.64
13					12.80	9.59	13.77	10.33	14.25	10.28	14.70	10.21	15.59	10.69	16.48	10.49	-5.5	-6	16.48	16.24	16.00	15.82	15.64
15					13.28	9.80	14.37	10.58	14.91	10.54	15.38	10.47	16.32	10.95	17.26	10.74	-3.0	-4	16.48	16.24	16.00	15.82	15.64
17					13.49	9.89	14.46	10.62	14.94	10.56	15.42	10.49	16.36	10.97	17.30	10.75	-1.0	-2	16.48	16.24	16.00	15.82	15.64
19					13.50	9.90	14.55	10.66	14.98	10.57	15.45	10.50	16.40	10.98	17.34	10.77	1.0	0	16.48	16.24	16.00	15.82	15.64
21					13.56	9.93	14.54	10.65	14.97	10.57	15.43	10.49	16.35	10.96	17.26	10.74	2.0	1	16.48	16.24	16.00	15.82	15.64
23					13.63	9.96	14.53	10.65	14.95	10.56	15.40	10.48	16.29	10.94	17.19	10.72	3.0	2	16.48	16.24	16.00	15.82	15.64
25			12.78	10.18	13.66	9.97	14.52	10.64	14.95	10.56	15.39	10.47	16.27	10.93	17.15	10.71	5.0	4	16.48	16.24	16.00	15.82	15.64
27			12.89	10.23	13.69	9.99	14.52	10.64	14.94	10.56	15.63	10.57	16.33	10.95			7.0	6	16.48	16.24	16.00	15.82	15.64
29			12.64	10.11	13.45	9.88	14.28	10.54	14.70	10.46	15.42	10.49	16.13	10.88			9.0	8	17.27	17.08	16.90	16.64	16.39
31 33	10.05	0.70	12.39	9.99	13.21	9.77	14.05	10.44	14.47	10.37	15.20	10.40	15.93	10.81			11.5	10	18.06	17.93 18.66	17.79	17.47	17.14
	10.35	8.73 8.70	11.45	9.54	12.97 12.73	9.66 9.56	13.81 13.57	10.35	14.24 14.00	10.27 10.18	14.98 14.76	10.32	15.73 15.53	10.74 10.67			13.5	_	18.86	19.39	18.45	17.78	17.12 17.09
	10.27 10.21	8.70	11.29 11.14	9.47 9.40	12.73	9.56	13.57	10.25	13.73	10.18	14.47	10.23	15.53	10.67			15.5	14	19.67 20.07	19.39	19.10 19.43	18.10 18.26	17.09
	10.21	8.64	10.98	9.40	12.48	9.44	13.31	10.14	13.73	9.97	14.47	10.12	14.89	10.56		\vdash	10.5	10	20.07	19.75	19.43	10.20	17.08

Notes(1) These data show average status

8.58

8.19

10.10 8.61

8.45 7.81

10.04

41

43

46

Depending on the system control, there may be ranges where the operation is not conducted continuously

These data show the case where the operation frequency of a compressor is fixed.

8.14 9.71 8.73

12.78 9.93

11.11 9.27

In the heating mode in which the outside air temperature is 0°CDB or less, the compressor operates at maximum frequency. (2) Capacities are based on the following conditions.

13.19 9.86

11.40 9.18

12.92 9.76

9.88 8.63 13.89 9.90

13.59 9.79

11.83 9.15

10.06 8.53

14.58 10.34

14.26 10.23

10.24

Corresponding refrigerant piping length :7.5m

8.86 8.37 9.40

10.83 9.25

10.68 9.18

9.77 8.77

11.97 9.22

11.72

10.56

9.11 12.52 9.82

8.62

Level difference of Zero.

(3) Symbols are as follows :Total cooling capacity (kW) SHC :Sensible heat capacity (kW)

HC: Heating capacity (kW)

(b) Twin type

Model FDE100VNXWPVH Indoor unit FDE50VH (2 units) Outdoor unit FDC100VNX-W

Cooling me	ode															(kW,
							Indo	oor air t	empera	ture						
Outdoor air temp.	18 °	CDB	21 °	CDB	23 °	CDB	26 °	CDB	27 °	CDB	28 °	CDB	31 °	CDB	33 °	CDB
an temp.	12 °C	CWB	14 °C	CWB	16 °C	CWB	18 °C	CWB	19 °C	CWB	20 °C	CWB	22 °C	CWB	24 °C	CWB
°CDB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
-15							11.26	8.21	11.76	8.21	12.09	8.14	12.75	8.47	13.41	8.28
-10							11.26	8.21	11.76	8.21	12.09	8.14	12.75	8.47	13.41	8.28
-5							11.26	8.21	11.76	8.21	12.09	8.14	12.75	8.47	13.41	8.28
0					10.51	7.66	11.35	8.24	11.76	8.21	12.11	8.14	12.80	8.49	13.49	8.31
5					10.77	7.77	11.43	8.28	11.76	8.21	12.13	8.15	12.85	8.51	13.58	8.34
11					10.68	7.73	11.33	8.24	11.66	8.17	12.02	8.11	12.75	8.47	13.47	8.30
13					10.59	7.69	11.23	8.19	11.56	8.13	11.92	8.07	12.64	8.43	13.36	8.27
15					10.50	7.65	11.13	8.15	11.45	8.08	11.81	8.03	12.54	8.40	13.26	8.23
17					10.34	7.58	10.98	8.09	11.30	8.02	11.65	7.97	12.37	8.33	13.08	8.17
19					10.21	7.52	10.82	8.02	11.14	7.96	11.49	7.90	12.20	8.27	12.90	8.12
21					10.10	7.47	10.71	7.97	11.02	7.91	11.36	7.85	12.03	8.22	12.71	8.06
23					9.98	7.42	10.59	7.92	10.90	7.86	11.22	7.80	11.87	8.16	12.52	8.00
25			9.35	7.58	9.93	7.39	10.53	7.90	10.83	7.84	11.15	7.77	11.79	8.13	12.43	7.97
27			9.30	7.55	9.87	7.37	10.47	7.87	10.77	7.81	11.27	7.82	11.77	8.13		
29			9.12	7.47	9.70	7.29	10.29	7.80	10.58	7.74	11.10	7.75	11.63	8.07		
31			8.94	7.38	9.53	7.22	10.10	7.72	10.39	7.66	10.94	7.69	11.48	8.02		
33	8.48	6.96	8.77	7.30	9.35	7.14	9.92	7.65	10.19	7.58	10.77	7.63	11.34	7.98		
35	8.22	6.83	8.55	7.20	9.18	7.06	9.74	7.58	10.00	7.51	10.60	7.56	11.20	7.93		
37	7.99	6.72	8.33	7.10	8.97	6.97	9.53	7.49	9.80	7.43	10.37	7.48	10.93	7.84		
39	7.76	6.60	8.11	7.00	8.76	6.88	9.33	7.41	9.60	7.35	10.14	7.39	10.67	7.75		
41	7.53	6.49	7.89	6.90	8.55	6.79	9.12	7.33	9.40	7.28	9.90	7.31	10.41	7.66		
43	7.30	6.38	7.68	6.80	8.34	6.70	8.91	7.25	9.20	7.20	9.67	7.22	10.15	7.57		
46	6.78	6.13	7.16	6.57	7.83	6.49	8.44	7.06	8.75	7.03	9.24	7.07	9.73	7.43		
50	6.27	5.88	6.64	6.34	7.32	6.28	7.96	6.88	8.30	6.87	8.81	6.91	9.32	7.30		

(kW)	Heating	mode:l	HC				(kW)
	Out	door		Indoor	air temp	erature	
DB	air te	emp.			°CDB		
WB	°CDB	°CWB	16	18	20	22	24
SHC	-19.8	-20	10.06	9.87	9.70	9.53	9.35
8.28	-17.7	-18	10.14	9.98	9.82	9.65	9.47
8.28	-15.7	-16	10.23	10.08	9.94	9.77	9.59
8.28	-13.5	-14	10.55	10.37	10.20	10.01	9.81
8.31	-11.5	-12	11.14	10.93	10.70	10.47	10.23
8.34	-9.5	-10	11.31	11.25	11.20	10.95	10.71
8.30	-7.5	-8	11.31	11.25	11.20	10.96	10.73
8.27	-5.5	-6	11.31	11.25	11.20	10.96	10.73
8.23	-3.0	-4	11.31	11.25	11.20	10.96	10.73
8.17	-1.0	-2	11.31	11.25	11.20	10.96	10.73
8.12	1.0	0	11.31	11.25	11.20	10.96	10.73
8.06	2.0	1	11.31	11.25	11.20	10.96	10.73
8.00	3.0	2	11.31	11.25	11.20	10.96	10.73
7.97	5.0	4	11.31	11.25	11.20	10.96	10.73
	7.0	6	11.31	11.25	11.20	10.96	10.73
	9.0	8	11.85	11.78	11.70	11.47	11.24
	11.5	10	12.39	12.30	12.21	11.98	11.76
	13.5	12	12.94	12.88	12.82	12.66	12.49
	15.5	14	13.49	13.46	13.43	13.33	13.22
	16.5	16	13.77	13.75	13.74	13.66	13.59

PFA004Z110

Model FDE100VSXWPVH Cooling mode

Indoor unit FDE50VH (2 units)

Outdoor unit FDC100VSX-W

0.44							Inde	oor air te	empera	ture						
Outdoor air temp.	18 °	CDB	21 °	CDB	23 °	CDB	26 °	CDB	27 °C	CDB	28 °	CDB	31 °	CDB	33 °C	CDB
un tomp.	12 °C	CWB	14 °C	CWB	16 °C	CWB	18 °C	CWB	19 °C	CWB	20 °C	CWB	22 °C	CWB	24 °C	CWB
°CDB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
-15			1				11.26	8.21	11.76	8.21	12.09	8.14	12.75	8.47	13.41	8.28
-10							11.26	8.21	11.76	8.21	12.09	8.14	12.75	8.47	13.41	8.28
-5							11.26	8.21	11.76	8.21	12.09	8.14	12.75	8.47	13.41	8.28
0					10.51	7.66	11.35	8.24	11.76	8.21	12.11	8.14	12.80	8.49	13.49	8.31
5					10.77	7.77	11.43	8.28	11.76	8.21	12.13	8.15	12.85	8.51	13.58	8.34
11					10.68	7.73	11.33	8.24	11.66	8.17	12.02	8.11	12.75	8.47	13.47	8.30
13					10.59	7.69	11.23	8.19	11.56	8.13	11.92	8.07	12.64	8.43	13.36	8.27
15					10.50	7.65	11.13	8.15	11.45	8.08	11.81	8.03	12.54	8.40	13.26	8.23
17					10.34	7.58	10.98	8.09	11.30	8.02	11.65	7.97	12.37	8.33	13.08	8.17
19					10.21	7.52	10.82	8.02	11.14	7.96	11.49	7.90	12.20	8.27	12.90	8.12
21					10.10	7.47	10.71	7.97	11.02	7.91	11.36	7.85	12.03	8.22	12.71	8.06
23					9.98	7.42	10.59	7.92	10.90	7.86	11.22	7.80	11.87	8.16	12.52	8.00
25			9.35	7.58	9.93	7.39	10.53	7.90	10.83	7.84	11.15	7.77	11.79	8.13	12.43	7.97
27			9.30	7.55	9.87	7.37	10.47	7.87	10.77	7.81	11.27	7.82	11.77	8.13		
29			9.12	7.47	9.70	7.29	10.29	7.80	10.58	7.74	11.10	7.75	11.63	8.07		
31			8.94	7.38	9.53	7.22	10.10	7.72	10.39	7.66	10.94	7.69	11.48	8.02		
33	8.48	6.96	8.77	7.30	9.35	7.14	9.92	7.65	10.19	7.58	10.77	7.63	11.34	7.98		
35	8.22	6.83	8.55	7.20	9.18	7.06	9.74	7.58	10.00	7.51	10.60	7.56	11.20	7.93		
37	7.99	6.72	8.33	7.10	8.97	6.97	9.53	7.49	9.80	7.43	10.37	7.48	10.93	7.84		
39	7.76	6.60	8.11	7.00	8.76	6.88	9.33	7.41	9.60	7.35	10.14	7.39	10.67	7.75		
41	7.53	6.49	7.89	6.90	8.55	6.79	9.12	7.33	9.40	7.28	9.90	7.31	10.41	7.66		
43	7.30	6.38	7.68	6.80	8.34	6.70	8.91	7.25	9.20	7.20	9.67	7.22	10.15	7.57		
46	6.78	6.13	7.16	6.57	7.83	6.49	8.44	7.06	8.75	7.03	9.24	7.07	9.73	7.43		
50	6.27	5.88	6.64	6.34	7.32	6.28	7.96	6.88	8.30	6.87	8.81	6.91	9.32	7.30		

Out	door		Indoor	air temp	perature	•
air te	emp.			°CDB		
°CDB	°CWB	16	18	20	22	24
-19.8	-20	10.22	9.96	9.70	9.40	9.10
-17.7	-18	10.76	10.60	10.45	10.16	9.88
-15.7	-16	11.31	11.25	11.19	10.92	10.65
-13.5	-14	11.31	11.25	11.19	10.93	10.67
-11.5	-12	11.31	11.25	11.20	10.94	10.69
-9.5	-10	11.31	11.25	11.20	10.95	10.71
-7.5	-8	11.31	11.25	11.20	10.96	10.73
-5.5	-6	11.31	11.25	11.20	10.96	10.73
-3.0	-4	11.31	11.25	11.20	10.96	10.73
-1.0	-2	11.31	11.25	11.20	10.96	10.73
1.0	0	11.31	11.25	11.20	10.96	10.73
2.0	1	11.31	11.25	11.20	10.96	10.73
3.0	2	11.31	11.25	11.20	10.96	10.73
5.0	4	11.31	11.25	11.20	10.96	10.73
7.0	6	11.31	11.25	11.20	10.96	10.73
9.0	8	11.85	11.78	11.70	11.47	11.24
11.5	10	12.39	12.30	12.21	11.98	11.76
13.5	12	12.94	12.88	12.82	12.66	12.49
15.5	14	13.49	13.46	13.43	13.33	13.22
16.5	16	13.77	13.75	13.74	13.66	13.59

(kW) Heating mode:HC

PFA004Z110 ∕A

Notes(1) These data show average status.

Depending on the system control, there may be ranges where the operation is not conducted continuously.

These data show the case where the operation frequency of a compressor is fixed.

In the heating mode in which the outside air temperature is 0°CDB or less, the compressor operates at maximum frequency. (2) Capacities are based on the following conditions.

(2) Capacities are based on the following condition
Corresponding refrigerant piping length: 7.5m
Level difference of Zero.

(3) Symbols are as follows
TC: Total cooling capacity (kW)
SHC: Sensible heat capacity (kW)
HC: Heating capacity (kW)

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Indoor unit FDE60VH (2 units) Outdoor unit FDC125VNX-W Model FDE125VNXWPVH (kW) (kW) ooling mo Indoor air temperature Outdoor Indoor air temperature Outdoo air temp 18 °CDB 21 °CDB 23 °CDB 26 °CDB 27 °CDB 28 °CDB 31 °CDB 33 °CDB °CDB air temp 12 °CWB 14 °CWB 16 °CWB 18 °CWB 19 °CWB 20 °CWB 22 °CWB 24 °CWB CDB °CWB 16 18 20 22 24 °CDB 19.8 -20 9 64 TC SHC 10.37 10 18 10.00 9.82 10.92 -15 11.89 10.45 10.42 12.71 10.34 13.39 14.07 10.71 -17.7 -18 10.43 10.26 10.10 9.92 9.74 12.37 -10 11.89 10.45 12.37 10.42 12.71 10.34 13.39 10.92 14.07 10.71 -15.7 -16 10.49 10.34 10.19 10.02 9.84 11.95 10.47 12.57 10.50 12.94 10.42 13.67 11.01 14.40 10.81 -13.5 -14 10.79 | 10.61 | 10.44 | 10.24 | 10.04 0 11.69 9.84 12.71 10.76 13.61 14.40 11.25 15.19 -11.5 -12 11.37 11.15 10.92 10.68 10.44 13.21 10.73 10.65 11.04 5 12.68 10.25 13.46 11.05 13.85 10.97 14.28 10.89 15.14 11.49 15.99 11.28 -9.5 11.96 11.68 11.40 11.12 10.84 -10 11 12.84 10.31 13.62 11.11 14.01 11.03 14.44 10.95 15.31 11.55 16.18 11.34 -7.5 -8 12.55 12.22 11.88 11.56 11.23 13 12.99 10.38 13.77 11.17 14.16 11.08 14.60 11.01 15.49 11.61 16.38 11.40 -5.5 -6 12.90 | 12.63 | 12.35 | 12.03 | 11.72 15 13.14 10.45 13.92 11.23 14.31 11.14 14.77 11.07 15.67 11.67 11.46 -3.0 13.25 13.04 12.82 12.51 12.20 16.57 17 12.94 10.36 13.73 11.16 14.12 11.07 14.57 11.00 15.46 11.60 16.35 11.39 -1.0 -2 13.61 13.45 13.29 12.99 12.69 19 12.76 10.28 13.53 11.08 13.93 11.00 14.37 10.92 15.24 11.52 16.12 11.32 1.0 13.96 | 13.86 | 13.76 | 13.47 | 13.17 0 21 12.62 10.23 13.38 11.02 13.77 10.94 14 20 10 86 15.04 11.46 15.89 11.25 2.0 14.13 | 14.07 | 14.00 | 13.71 | 13.41 23 14.13 14.07 14.00 13.71 13.41 12.48 10.17 14.84 11.39 15.65 11.18 3.0 13.23 10.96 13.62 10.88 14.03 10.80 25 11.69 10.41 12.41 10.14 13.16 10.93 13.94 10.77 14.74 11.36 15.54 11.15 5.0 14.13 14.07 14.00 13.71 13.41 13.54 10.85 12.34 10.11 14.13 11.62 13.08 10.90 13.46 10.82 14.09 10.82 14.71 11.35 14.07 14.00 13.71 13.41 27 29 9.0 11.40 10.27 12.12 10.02 12.86 10.82 13.22 10.73 13.88 10.75 14.53 11.29 8 14.81 14.72 14.63 14.34 14.06 15.49 15.37 15.26 14.98 14.70 14.35 11.23 11.5 31 11.17 10.17 11.91 9.93 12.63 10.73 12.98 10.65 13.67 10.67 10 33 12 16.18 16.10 16.02 15.74 15.45 10.36 9.39 10.84 10.03 11.69 9.84 12.40 10.64 12.74 10.56 13.46 10.60 14.18 11.17 13.5 11.47 9.75 14.00 11.12 14 16.87 16.83 16.79 16.49 16.20 35 10.33 9.38 10.71 9.97 12.18 10.56 10.47 13.25 10.52 15.5 10.03 10.43 9.85 11.21 9.64 11.92 10.46 12.25 10.38 12.96 10.42 13.67 11.01 16.5 16 17.21 17.19 17.17 16.87 16.57 39 9.73 9.09 10.16 9.73 10.95 9.53 11.66 10.36 12.00 10.29 12.67 10.32 13.34 10.91 41 13.01 10.80 9.43 8.95 9.88 9.60 10.68 9.42 11.40 10.26 11.75 10.20 12.38 10.22 43 9.13 8.81 9.60 9.41 10.42 9.32 11.14 10.16 11.50 10.11 12.09 10.12 12.69 10.70 46 8.49 8.32 8.96 8.78 9.81 9.07 10.44 9.91 10.70 9.82 11.08 9.78 11.47 10.32 PFA004Z110 /Ĥ 7.85 7.69 8.16 9.19 8.83 9.74 9.54 9.90 9.54 10.08 9.44 10.26 9.95

ooling m	ode															(kW)	Heating	g mode:h	HC				(kW
							Inde	oor air t	empera	ture							Out	door		Indoor	air temp	erature	
Outdoor air temp.	18 °	CDB	21 °	CDB	23 °	CDB	26 °	CDB	27 °	CDB	28 °	CDB	31 °	CDB	33 °	CDB	air t	emp.			°CDB		
ян тепір.	12 °C	CWB	14 °C	CWB	16 °C	CWB	18 °C	CWB	19 °C	CWB	20 °C	CWB	22 °(CWB	24 °	CWB	°CDB	°CWB	16	18	20	22	24
°CDB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	-19.8	-20	11.30	11.10	10.90	10.70	10.50
-15							11.89	10.45	12.37	10.42	12.71	10.34	13.39	10.92	14.07	10.71	-17.7	-18	11.98	11.75	11.52	11.34	11.16
-10							11.89	10.45	12.37	10.42	12.71	10.34	13.39	10.92	14.07	10.71	-15.7	-16	12.63	12.45	12.27	12.05	11.84
-5							11.95	10.47	12.57	10.50	12.94	10.42	13.67	11.01	14.40	10.81	-13.5	-14	12.84	12.68	12.51	12.29	12.06
0					11.69	9.84	12.71	10.76	13.21	10.73	13.61	10.65	14.40	11.25	15.19	11.04	-11.5	-12	13.27	13.14	13.01	12.76	12.51
5					12.68	10.25	13.46	11.05	13.85	10.97	14.28	10.89	15.14	11.49	15.99	11.28	-9.5	-10	14.13	14.07	14.00	13.71	13.41
11					12.84	10.31	13.62	11.11	14.01	11.03	14.44	10.95	15.31	11.55	16.18	11.34	-7.5	-8	14.13	14.07	14.00		13.41
13					12.99	10.38	13.77	11.17	14.16	11.08	14.60	11.01	15.49	11.61	16.38	11.40	-5.5	-6	14.13	14.07	14.00		13.41
15					13.14	10.45	13.92	11.23	14.31	11.14	14.77	11.07	15.67	11.67	16.57	11.46	-3.0	-4	14.13	14.07	14.00	_	13.41
17					12.94	10.36	13.73	11.16	14.12	11.07	14.57	11.00	15.46	11.60	16.35	11.39	-1.0	-2	14.13	14.07	14.00	13.71	13.41
19					12.76	10.28	13.53	11.08	13.93	11.00	14.37	10.92	15.24	11.52	16.12	11.32	1.0	0	14.13	14.07	14.00	13.71	13.41
21					12.62	10.23	13.38 13.23	11.02 10.96	13.77	10.94 10.88	14.20 14.03	10.86	15.04 14.84	11.46 11.39	15.89 15.65	11.25	3.0	1	14.13	14.07	14.00	13.71	13.41
25			11.69	10.41	12.48 12.41	10.17	13.23	10.96	13.52	10.88	13.94	10.80	14.84	11.39	15.55	11.18 11.15	5.0	2	14.13 14.13	14.07	14.00	13.71	13.41 13.41
27	_		11.69	10.41	12.41	10.14	13.16	10.93	13.54	10.85	14.09	10.77	14.74	11.35	15.54	11.15	7.0	6	14.13	14.07	14.00		13.41
29			11.62	10.38	12.34	10.11	12.86	10.90	13.40	10.82	13.88	10.82	14.71	11.29	-	\vdash	9.0	8	14.13	14.07			14.06
31			11.17	10.27	11.91	9.93	12.63	10.82	12.98	10.73	13.67	10.73	14.35	11.23	-	\vdash	11.5	10	15.49	15.37	15.26	14.98	14.70
33	10.36	9.39	10.84	10.03	11.69	9.84	12.40	10.73	12.74	10.56	13.46	10.60	14.18	11.17			13.5	12	16.18	16.10	16.02	15.74	15.45
35	10.33	9.38	10.71	9.97	11.47	9.75	12.18	10.56	12.50	10.47	13.25	10.52	14.00	11.12			15.5	14	16.87	16.83			16.20
37	10.03	9.23	10.43	9.85	11.21	9.64	11.92	10.46	12.25	10.38	12.96	10.42	13.67	11.01			16.5	16	17.21	17.19		16.87	
39	9.73	9.09	10.16	9.73	10.95	9.53	11.66	10.36	12.00	10.29	12.67	10.32	13.34	10.91									

12.09 10.12

11.08 9.78

10.08 9.44

13.01 10.80

12.69 10.70

11 47 10 32

10.26 9.95

50 7.85 7.69 8.33 8.16 9.19

Notes(1) These data show average status.

8.81

41

43

46

9.43 8.95

9.13

8.49 8.32

Depending on the system control, there may be ranges where the operation is not conducted continuously.

11.14 10.16

10.44 9.91

These data show the case where the operation frequency of a compressor is fixed.

9.19 8.83 9.74 9.54

10.68 9.42

10.42 9.32

9.81 9.07

In the heating mode in which the outside air temperature is 0°CDB or less, the compressor operates at maximum frequency. (2) Capacities are based on the following conditions.

11.40 10.26 11.75 10.20 12.38 10.22

10.11

9.54

11.50

9.90

10.70 9.82

Corresponding refrigerant piping length :7.5m

9.88 9.60

9.60 9.41

8.96 8.78

Level difference of Zero.

(3) Symbols are as follows
TC :Total cooling capacity (kW)
SHC :Sensible heat capacity (kW)
HC :Heating capacity (kW)

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Outdoor unit FDC140VNX-W Model FDE140VNXWPVH Indoor unit FDE71VH (2 units) (kW) (kW) ooling mo Indoor air temperature Indoor air temperature Outdoor Outdoo air temp 18 °CDB 21 °CDB 23 °CDB 26 °CDB 27 °CDB 28 °CDB 31 °CDB 33 °CDB °CDB air temp 12 °CWB 14 °CWB 16 °CWB 18 °CWB 19 °CWB 20 °CWB 22 °CWB 24 °CWB °CDB °CWB 18 20 22 24 16 °CDB 19.8 -20 11 01 10.95 10 66 10 42 TC SHC 10.90 -15 11.46 10.30 10.22 13.04 10.81 13.70 10.61 -17.7 -18 11.50 11.28 11.05 10.70 10.34 10.29 -10 11.46 10.29 12.05 10.30 12.38 10.22 13.04 10.81 13.70 10.61 -15.7 -16 12.33 12.06 11.78 11.42 11.06 11.48 10.29 12.08 10.32 12.43 10.24 13.13 10.84 13.84 10.65 -13.5-14 12.60 12.31 12.03 11.67 11.31 0 11.06 9.58 12.88 10.40 13.63 11.00 -11.5 -12 13.15 12.83 12.51 12.15 11.79 12.02 10.50 12.51 10.47 14.38 10.80 5 11.84 9.90 10.71 12.93 10.63 13.33 10.55 14.13 11.16 14.93 10.96 -9.5 13.70 13.35 13.00 12.63 12.27 12.57 -10 11 12.32 10.10 13.17 10.94 13 59 10.87 14.01 10.80 14.86 11.40 15.70 11.20 -7.5 -8 14.25 13.87 13.49 13.12 12.75 13 12.80 10.30 13.77 11.17 14.25 11.12 14.70 11.04 15.59 11.64 16.48 11.43 -5.5 -6 14.67 | 14.36 | 14.04 | 13.68 | 13.32 15 13.28 10.50 14.37 14.91 15.38 11.29 16.32 11.88 11.67 -3.0 15.09 14.85 14.60 14.25 13.90 11.41 11.37 17.26 17 13.49 10.59 14.46 11.45 14.94 11.38 15.42 11.31 16.36 11.90 17.30 11.68 -1.0 -2 15.52 15.34 15.16 14.82 14.47 19 13.50 10.60 14.55 11.48 14.98 11.40 15.45 11.32 16.40 11.91 11.69 1.0 15.94 15.83 15.72 15.38 15.04 17.34 0 21 13.56 10.62 14.54 11.48 14.97 11.39 15.43 11.31 16 35 11 89 17.26 11.67 2.0 16.15 16.08 16.00 15.66 15.33 23 3.0 14.53 16.15 16.08 16.00 15.66 15.33 13.63 10.65 11.47 14.95 11.39 15.40 11.30 16.29 11.88 17.19 11.65 12.78 10.91 13.66 10.67 14.52 11.47 14.95 11.38 15.39 11.29 16.27 11.87 17.15 11.64 5.0 16.15 16.08 16.00 15.66 15.33 25 15.63 11.39 13.69 10.68 14.52 11.47 14 94 27 29 12 89 10.96 11.38 16.33 11.89 16.15 16.08 16.00 15.66 9.0 12.64 10.84 13.45 10.58 14.28 11.37 14.70 11.29 15.42 11.31 16.13 11.82 16.93 16.82 16.72 16.39 16.06 17.70 17.57 17.44 17.12 16.80 11.5 31 12.39 10.73 13.21 10.47 14.05 11.28 14.47 11.20 15.20 11.23 15.93 11.75 10 33 18.49 18.28 18.08 17.43 16.78 10.35 9.39 11.45 10.30 12.97 10.37 13.81 11.19 14.24 11.11 14.98 11.15 15.73 11.69 13.5 12 19.27 19.00 18.72 17.74 16.75 35 10.27 9.35 11.29 10.23 12.73 10.27 13.57 14.00 11.02 14.76 11.07 15.53 11.62 15.5 14 10.21 11.14 10.16 12.48 10.16 13.31 10.99 13.73 10.92 14.47 10.96 15.21 11.51 19.67 19.36 19.04 17.89 16.74 39 10.15 9.29 10.98 10.09 12.22 10.06 13.05 10.89 13.46 10.82 14.18 10.86 14.89 11.41 41 11.97 9.95 13.89 10.75 14.58 11.31 10.10 9.27 10.83 | 10.02 12.78 10.79 13.19 10.72 43 10.04 9.24 10.68 9.95 11.72 9.85 12.52 10.69 12.92 10.62 13.59 10.65 14.26 11.20 46 9.24 8.86 9.77 9.56 10.56 9.37 11.11 10.16 11.40 10.07 11.83 10.03 12.25 10.56 PFA004Z110 /A 8.86 8.68 9.40 8.91 9.71 9.51 9.88 9.54 10.06 9.44 10.24 9.95

Model F		vsxwi	PVH		Indoor	unit F	DE71V	′H (2 u	nits)		Outdoo	r unit	FDC14	10VSX	-W	(1.140)	
Cooling n	node															(kW)	Heat
Outdoor							Ind	oor air t	empera	ture							
air temp.	18 °	CDB	21 °	CDB	23 °	CDB	26 °	CDB	27 °	CDB	28 °	CDB	31 °	CDB	33 °	CDB	а
un tomp.	12 °	CWB	14 °	CWB	16 °	CWB	18 °	CWB	19 °	CWB	20 °	CWB	22 °	CWB	24 °	CWB	°CE
°CDB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	-19
-15	1						11.46	10.29	12.05	10.30	12.38	10.22	13.04	10.81	13.70	10.61	-17
-10							11.46	10.29	12.05	10.30	12.38	10.22	13.04	10.81	13.70	10.61	-15
-5							11.48	10.29	12.08	10.32	12.43	10.24	13.13	10.84	13.84	10.65	-13
0					11.06	9.58	12.02	10.50	12.51	10.47	12.88	10.40	13.63	11.00	14.38	10.80	-11
5					11.84	9.90	12.57	10.71	12.93	10.63	13.33	10.55	14.13	11.16	14.93	10.96	-9.
11					12.32	10.10	13.17	10.94	13.59	10.87	14.01	10.80	14.86	11.40	15.70	11.20	-7.
13					12.80	10.30	13.77	11.17	14.25	11.12	14.70	11.04	15.59	11.64	16.48	11.43	-5.
15					13.28	10.50	14.37	11.41	14.91	11.37	15.38	11.29	16.32	11.88	17.26	11.67	-3.
17					13.49	10.59	14.46	11.45	14.94	11.38	15.42	11.31	16.36	11.90	17.30	11.68	-1.
19					13.50	10.60	14.55	11.48	14.98	11.40	15.45	11.32	16.40	11.91	17.34	11.69	1.0
21					13.56	10.62	14.54	11.48	14.97	11.39	15.43	11.31	16.35	11.89	17.26	11.67	2.0
23					13.63	10.65	14.53	11.47	14.95	11.39	15.40	11.30	16.29	11.88	17.19	11.65	3.0
25			12.78	10.91	13.66	10.67	14.52	11.47	14.95	11.38	15.39	11.29	16.27	11.87	17.15	11.64	5.0
27			12.89	10.96	13.69	10.68	14.52	11.47	14.94	11.38	15.63	11.39	16.33	11.89			7.0
29			12.64	10.84	13.45	10.58	14.28	11.37	14.70	11.29	15.42	11.31	16.13	11.82			9.0
31			12.39	10.73	13.21	10.47	14.05	11.28	14.47	11.20	15.20	11.23	15.93	11.75			11.
33	10.35	9.39	11.45	10.30	12.97	10.37	13.81	11.19	14.24	11.11	14.98	11.15	15.73	11.69			13.
35	10.27	9.35	11.29	10.23	12.73	10.27	13.57	11.10	14.00	11.02	14.76	11.07	15.53	11.62			15.
37	10.21	9.32	11.14	10.16	12.48	10.16	13.31	10.99	13.73	10.92	14.47	10.96	15.21	11.51			16.
39	10.15	9.29	10.98	10.09	12.22	10.06	13.05	10.89	13.46	10.82	14.18	10.86	14.89	11.41			
41	10.10	9.27	10.83	10.02	11.97	9.95	12.78	10.79	13.19	10.72	13.89	10.75	14.58	11.31			l
43	10.04	9.24	10.68	9.95	11.72	9.85	12.52	10.69	12.92	10.62	13.59	10.65	14.26	11.20			1
46	9.24	8.86	9.77	9.56	10.56	9.37	11.11	10.16	11.40	10.07	11.83	10.03	12.25	10.56			1
50	8.45	8.28	8.86	8.68	9.40	8.91	9.71	9.51	9.88	9.54	10.06	9.44	10.24	9.95			1

(kW) ting mode:HC Indoor air temperature Outdooi air temp °CDB DB °CWB 20 24 18 22 9.8 -20 12.26 11.90 11.84 11.77 12.08 7.7 -18 13.07 12.83 12.59 5.7 -16 14.48 14.36 14.24 13.82 13.40 3.5 -14 14.76 14.63 | 14.49 | 14.11 | 13.72 15.34 15.17 15.00 14.68 14.36 1.5 -12 -10 15.70 15.50 -8 16.48 16.24 16.00 15.82 15.64 .5 -6 16.48 16.24 16.00 15.82 15.64 3.0 16.48 16.24 16.00 15.82 15.64 .0 16.48 16.24 16.00 15.82 15.64 .0 0 16.48 16.24 16.00 15.82 15.64 .0 16.48 16.24 16.00 15.82 15.64 .0 16.48 16.24 16.00 15.82 15.64 .0 16.48 16.24 16.00 15.82 15.64 16.48 6 16.24 16.00 15.82 15.64 .0 8 17 27 17 08 16 90 16 64 16 39 .5 10 18.06 17.93 17.79 17.47 17.14
 18.86
 18.66
 18.45
 17.78
 17.12

 19.67
 19.39
 19.10
 18.10
 17.00
 12 3.5 14 16 20.07 19.75 19.43 18.26 17.08

PFA004Z110 /A

Notes(1) These data show average status.

Depending on the system control, there may be ranges where the operation is not conducted continuously.

These data show the case where the operation frequency of a compressor is fixed.

In the heating mode in which the outside air temperature is 0°CDB or less, the compressor operates at maximum frequency. (2) Capacities are based on the following conditions.

Corresponding refrigerant piping length :7.5m

Level difference of Zero.

(3) Symbols are as follows

(3) Symbols are as follows TC: Total cooling capacity (kW)

SHC :Sensible heat capacity (kW)
HC :Heating capacity (kW)

(c) Triple type

Outdoor unit FDC140VNX-W Model FDE140VNXWTVH Indoor unit FDE50VH (3 units)

Outling II	louc															(1/11)
							Ind	oor air t	empera	ture						
Outdoor air temp.	18 °	CDB	21 °	CDB	23 °	CDB	26 °	CDB	27 °	CDB	28 °	CDB	31 °	CDB	33 °	CDB
all temp.	12 °	CWB	14 °C	CWB	16 °C	CWB	18 °	CWB	19 °	CWB	20 °	CWB	22 °C	CWB	24 °	CWB
°CDB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
-15							11.46	10.14	12.05	10.16	12.38	10.07	13.04	10.64	13.70	10.44
-10							11.46	10.14	12.05	10.16	12.38	10.07	13.04	10.64	13.70	10.44
-5							11.48	10.14	12.08	10.17	12.43	10.09	13.13	10.67	13.84	10.48
0					11.06	9.45	12.02	10.35	12.51	10.32	12.88	10.25	13.63	10.83	14.38	10.64
5					11.84	9.77	12.57	10.56	12.93	10.48	13.33	10.41	14.13	11.00	14.93	10.80
11					12.32	9.97	13.17	10.79	13.59	10.73	14.01	10.65	14.86	11.24	15.70	11.03
13					12.80	10.18	13.77	11.03	14.25	10.98	14.70	10.90	15.59	11.48	16.48	11.27
15					13.28	10.38	14.37	11.27	14.91	11.23	15.38	11.15	16.32	11.73	17.26	11.51
17					13.49	10.47	14.46	11.30	14.94	11.24	15.42	11.17	16.36	11.74	17.30	11.52
19					13.50	10.48	14.55	11.34	14.98	11.26	15.45	11.18	16.40	11.75	17.34	11.54
21					13.56	10.51	14.54	11.34	14.97	11.25	15.43	11.17	16.35	11.73	17.26	11.51
23					13.63	10.53	14.53	11.33	14.95	11.25	15.40	11.16	16.29	11.72	17.19	11.49
25			12.78	10.78	13.66	10.55	14.52	11.33	14.95	11.24	15.39	11.15	16.27	11.71	17.15	11.48
27			12.89	10.83	13.69	10.56	14.52	11.33	14.94	11.24	15.63	11.25	16.33	11.73		
29			12.64	10.72	13.45	10.46	14.28	11.23	14.70	11.15	15.42	11.17	16.13	11.66		
31			12.39	10.60	13.21	10.35	14.05	11.14	14.47	11.06	15.20	11.08	15.93	11.59		
33	10.35	9.27	11.45	10.17	12.97	10.25	13.81	11.04	14.24	10.97	14.98	11.00	15.73	11.52		
35	10.27	9.24	11.29	10.10	12.73	10.15	13.57	10.95	14.00	10.88	14.76	10.93	15.53	11.46		
37	10.21	9.21	11.14	10.03	12.48	10.04	13.31	10.85	13.73	10.78	14.47	10.82	15.21	11.35		
39	10.15	9.18	10.98	9.96	12.22	9.93	13.05	10.74	13.46	10.68	14.18	10.71	14.89	11.25		
41	10.10	9.15	10.83	9.89	11.97	9.83	12.78	10.64	13.19	10.58	13.89	10.61	14.58	11.14		
43	10.04	9.13	10.68	9.82	11.72	9.72	12.52	10.54	12.92	10.48	13.59	10.50	14.26	11.04		
46	9.24	8.75	9.77	9.42	10.56	9.25	11.11	10.01	11.40	9.92	11.83	9.88	12.25	10.39		
50	8.45	8.28	8.86	8.68	9.40	8.78	9.71	9.49	9.88	9.38	10.06	9.28	10.24	9.78		1

	Heating	door		Indoor	air temp	erature	
DB		emp.			°CDB		
WB	°CDB	°CWB	16	18	20	22	24
SHC	-19.8	-20	11.01	10.95	10.90	10.66	10.42
10.44	-17.7	-18	11.50	11.28	11.05	10.70	10.34
10.44	-15.7	-16	12.33	12.06	11.78	11.42	11.06
10.48	-13.5	-14	12.60	12.31	12.03	11.67	11.31
10.64	-11.5	-12	13.15	12.83	12.51	12.15	11.79
10.80	-9.5	-10	13.70	13.35	13.00	12.63	12.27
11.03	-7.5	-8	14.25	13.87	13.49	13.12	12.75
11.27	-5.5	-6	14.67	14.36	14.04	13.68	13.32
11.51	-3.0	-4	15.09	14.85	14.60	14.25	13.90
11.52	-1.0	-2	15.52	15.34	15.16	14.82	14.47
11.54	1.0	0	15.94	15.83	15.72	15.38	15.04
11.51	2.0	1	16.15	16.08	16.00	15.66	15.33
11.49	3.0	2	16.15	16.08	16.00	15.66	15.33
11.48	5.0	4	16.15	16.08	16.00	15.66	15.33
	7.0	6	16.15	16.08	16.00	15.66	15.33
	9.0	8	16.93	16.82	16.72	16.39	16.06
	11.5	10	17.70	17.57	17.44	17.12	16.80
	13.5	12	18.49	18.28	18.08	17.43	16.78
	15.5	14	19.27	19.00	18.72	17.74	16.75
	16.5	16	19.67	19.36	19.04	17.89	16.74

PFA004Z110

(kW)

Model FDE140VSXWTVH

Indoor unit FDE50VH (3 units)

Outdoor unit FDC140VSX-W

Cooling m	node							(,							(kW)	Heatir	ng mode	:HC
							Ind	oor air t	empera	ture							0	utdoor	Т
Outdoor air temp.	18 °	CDB	21 °	CDB	23 °	CDB	26 °	CDB	27 °	CDB	28 °	CDB	31 °	CDB	33 °	CDB	air	temp.	
an temp.	12 °	CWB	14 °	CWB	16 °	CWB	18 °	CWB	19 °	CWB	20 °C	CWB	22 °	CWB	24 °(CWB	°CDI	B °CWE	3 1
°CDB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	-19.8	3 -20	12.
-15							11.46	10.14	12.05	10.16	12.38	10.07	13.04	10.64	13.70	10.44	-17.7	7 -18	13.
-10							11.46	10.14	12.05	10.16	12.38	10.07	13.04	10.64	13.70	10.44	-15.7	7 -16	14.4
-5							11.48	10.14	12.08	10.17	12.43	10.09	13.13	10.67	13.84	10.48	-13.5	5 -14	14.
0					11.06	9.45	12.02	10.35	12.51	10.32	12.88	10.25	13.63	10.83	14.38	10.64	-11.5	5 -12	15.3
5					11.84	9.77	12.57	10.56	12.93	10.48	13.33	10.41	14.13	11.00	14.93	10.80	-9.5		15.9
11					12.32	9.97	13.17	10.79	13.59	10.73	14.01	10.65	14.86	11.24	15.70	11.03	-7.5		16.4
13					12.80	10.18	13.77	11.03	14.25	10.98	14.70	10.90	15.59	11.48	16.48	11.27	-5.5	-6	16.4
15					13.28	10.38	14.37	11.27	14.91	11.23	15.38	11.15	16.32	11.73	17.26	11.51	-3.0	-4	16.
17					13.49	10.47	14.46	11.30	14.94	11.24	15.42	11.17	16.36	11.74	17.30	11.52	-1.0	-2	16.4
19					13.50	10.48	14.55	11.34	14.98	11.26	15.45	11.18	16.40	11.75	17.34	11.54	1.0	0	16.4
21					13.56	10.51	14.54	11.34	14.97	11.25	15.43	11.17	16.35	11.73	17.26	11.51	2.0	1	16.4
23					13.63	10.53	14.53	11.33	14.95	11.25	15.40	11.16	16.29	11.72	17.19	11.49	3.0	2	16.4
25			12.78	10.78	13.66	10.55	14.52	11.33	14.95	11.24	15.39	11.15	16.27	11.71	17.15	11.48	5.0	4	16.4
27			12.89	10.83	13.69	10.56	14.52	11.33	14.94	11.24	15.63	11.25	16.33	11.73			7.0	6	16.4
29			12.64	10.72	13.45	10.46	14.28	11.23	14.70	11.15	15.42	11.17	16.13	11.66			9.0	8	17.2
31			12.39	10.60	13.21	10.35	14.05	11.14	14.47	11.06	15.20	11.08	15.93	11.59			11.5		18.
33	10.35	9.27	11.45	10.17	12.97	10.25	13.81	11.04	14.24	10.97	14.98	11.00	15.73	11.52			13.5		18.
35	10.27	9.24	11.29	10.10	12.73	10.15	13.57	10.95	14.00	10.88	14.76	10.93	15.53	11.46			15.5		19.
37	10.21	9.21	11.14	10.03	12.48	10.04	13.31	10.85	13.73	10.78	14.47	10.82	15.21	11.35			16.5	16	20.0
39	10.15	9.18	10.98	9.96	12.22	9.93	13.05	10.74	13.46	10.68	14.18	10.71	14.89	11.25					
41	10.10	9.15	10.83	9.89	11.97	9.83	12.78	10.64	13.19	10.58	13.89	10.61	14.58	11.14					
43	10.04	9.13	10.68	9.82	11.72	9.72	12.52	10.54	12.92	10.48	13.59	10.50	14.26	11.04				Г.	
46	9.24	8.75	9.77	9.42	10.56	9.25	11.11	10.01	11.40	9.92	11.83	9.88	12.25	10.39					PF/
E0	0.45	0.00	0.00	0.00	0.40	0.70	0.71	0.40	0.00	0.00	10.00	0.00	1004	0.70			4		

Out	door		Indoor	air temp	erature	
air te	emp.			°CDB		
°CDB	°CWB	16	18	20	22	24
-19.8	-20	12.26	12.08	11.90	11.84	11.77
-17.7	-18	13.37	13.22	13.07	12.83	12.59
-15.7	-16	14.48	14.36	14.24	13.82	13.40
-13.5	-14	14.76	14.63	14.49	14.11	13.72
-11.5	-12	15.34	15.17	15.00	14.68	14.36
-9.5	-10	15.91	15.70	15.50	15.25	15.00
-7.5	-8	16.48	16.24	16.00	15.82	15.64
-5.5	-6	16.48	16.24	16.00	15.82	15.64
-3.0	-4	16.48	16.24	16.00	15.82	15.64
-1.0	-2	16.48	16.24	16.00	15.82	15.64
1.0	0	16.48	16.24	16.00	15.82	15.64
2.0	1	16.48	16.24	16.00	15.82	15.64
3.0	2	16.48	16.24	16.00	15.82	15.64
5.0	4	16.48	16.24	16.00	15.82	15.64
7.0	6	16.48	16.24	16.00	15.82	15.64
9.0	8	17.27	17.08	16.90	16.64	16.39
11.5	10	18.06	17.93	17.79	17.47	17.14
13.5	12	18.86	18.66	18.45	17.78	17.12
15.5	14	19.67	19.39	19.10	18.10	17.09
16.5	16	20.07	19.75	19.43	18.26	17.08

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50 8.45 8.28 8.86 8.68 9.40 8.78 9.71 9.49 9.88 9.38 10.06 9.28 10.24 9.78 Notes(1) These data show average status.

Depending on the system control, there may be ranges where the operation is not conducted continuously. These data show the case where the operation frequency of a compressor is fixed.

In the heating mode in which the outside air temperature is 0°CDB or less, the compressor operates at maximum frequency. (2) Capacities are based on the following conditions.

(2) Capacities are based on the following condition
Corresponding refrigerant piping length: 7.5m
Level difference of Zero.

(3) Symbols are as follows
TC: Total cooling capacity (kW)
SHC: Sensible heat capacity (kW)
HC: Heating capacity (kW)

(6) Wall mounted type (SRK)

(a) Single type

Model SRK100VNXWZR Indoor unit SRK100ZR-W Outdoor unit FDC100VNX-W

Cooling mode

							Inde	oor air t	empera	ture						
Outdoor air temp.	18 °	CDB	21 °	CDB	23 °	CDB	26°	CDB	27 °	CDB	28 °	CDB	31 °	CDB	33 °	CDB
an temp.	12 °C	CWB	14 °0	CWB	16 °C	CWB	18 °	CWB	19 °C	CWB	20 °C	CWB	22 °	CWB	24 °	CWB
°CDB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
-15							11.26	8.12	11.76	8.14	12.09	8.07	12.75	8.39	13.41	8.22
-10							11.26	8.12	11.76	8.14	12.09	8.07	12.75	8.39	13.41	8.22
-5							11.26	8.12	11.76	8.14	12.09	8.07	12.75	8.39	13.41	8.22
0					10.51	7.59	11.35	8.16	11.76	8.14	12:11	8.08	12.80	8.41	13.49	8.25
5					10.77	7.71	11.43	8.20	11.76	8.14	12.13	8.08	12.85	8.43	13.58	8.28
11					10.68	7.67	11.33	8.15	11.66	8.09	12.02	8.04	12.75	8.39	13.47	8.24
13					10.59	7.63	11.23	8.11	11.56	8.05	11.92	8.00	12.64	8.35	13.36	8.20
15					10.50	7.59	11.13	8.07	11.45	8.01	11.81	7.96	12.54	8.31	13.26	8.17
17					10.34	7.51	10.98	8.00	11.30	7.94	11.65	7.89	12.37	8.25	13.08	8.10
19					10.21	7.45	10.82	7.93	11.14	7.88	11.49	7.83	12.20	8.18	12.90	8.04
21					10.10	7.40	10.71	7.88	11.02	7.82	11.36	7.77	12.03	8.12	12.71	7.98
23					9.98	7.34	10.59	7.83	10.90	7.77	11.22	7.72	11.87	8.06	12.52	7.91
25			9.35	7.49	9.93	7.32	10.53	7.80	10.83	7.75	11.15	7.69	11.79	8.04	12.43	7.88
27			9.30	7.46	9.87	7.29	10.47	7.78	10.77	7.72	11.27	7.74	11.77	8.03		
29			9.12	7.37	9.70	7.21	10.29	7.70	10.58	7.64	11.10	7.67	11.63	7.98		
31			8.94	7.28	9.53	7.13	10.10	7.62	10.39	7.56	10.94	7.60	11.48	7.92		
33	8.48	6.88	8.77	7.20	9.35	7.06	9.92	7.54	10.19	7.48	10.77	7.54	11.34	7.87		
35	8.22	6.75	8.55	7.10	9.18	6.98	9.74	7.47	10.00	7.41	10.60	7.47	11.20	7.82		
37	7.99	6.63	8.33	6.99	8.97	6.88	9.53	7.38	9.80	7.33	10.37	7.38	10.93	7.72		
39	7.76	6.51	8.11	6.89	8.76	6.79	9.33	7.30	9.60	7.25	10.14	7.29	10.67	7.63		. 10 15 15
41	7.53	6.39	7.89	6.78	8.55	6.70	9.12	7.21	9.40	- 7.17	9.90	7.20	10.41	7.54		
43	7.30	6.28	7.68	6.68	8.34	6.60	8.91	7.12	9.20	7.09	9.67	7.12	10.15	7.45		
46	6.78	6.02	7.16	6.44	7.83	6.38	8.44	6.93	8.75	6.91	9.24	6.95	9.73	7.30		
50	6.27	5.77	6.64	6.21	7.32	6.17	7.96	6.74	8.30	6.74	8.81	6.79	9.32	7.16		

(kW)	Н	eating r	node:H	С				(kW)
		Out	door		Indoor	air temp	erature	1
CDB	١	air te	emp.			°CDB		
CWB	١	°CDB	°CWB	16	18	20	22	24
SHC	١	-19.8	-20	10.22	9.96	9.70	9.40	9.10
8.22	П	-17.7	-18	10.76	10.60	10.45	10.16	9.88
8.22	۱	-15.7	-16	11.31	11.25	11.19	10.92	10.65
8.22	ı	-13.5	-14	11.31	11.25	11.19	10.93	10.67
8.25	ı	-11.5	-12	11.31	11.25	11.20	10.94	10.69
8.28	ı	-9.5	-10	11.31	11.25	11.20	10.95	10.71
8.24	ı	-7.5	-8	11.31	11.25	11.20	10.96	10.73
8.20	ı	-5.5	-6	11.31	11.25	11.20	10.96	10.73
8.17	ı	-3.0	-4	11.31	11.25	11.20	10.96	10.73
8.10	1	-1.0	-2	11.31	11.25	11.20	10.96	10.73
8.04	ı	1.0	0	11.31	11.25	11.20	10.96	10.73
7.98	ı	2.0	1	11.31	11.25	11.20	10.96	10.73
7.91	1	3.0	. 2	11.31	11.25	11.20	10.96	10.73
7.88		5.0	4	11.31	11.25	11.20	10.96	10.73
	ı	7.0	6	11.31	11.25	11.20	10.96	10.73
		9.0	8	11.85	11.78	11.70	11.47	11.24
	ı	11.5	10	12.39	12.30	12.21	11.98	11.76
	1	13.5	12	12.94	12.88	12.82	12.66	12.49
	1	15.5	14	13.49	13.46	13.43	13.33	13.22
		16.5	16	13.77	13.75	13.74	13.66	13.59
	1							

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Model SRK100VSXWZR

Cooling mode

Indoor unit SRK100ZR-W

Outdoor unit FDC100VSX-W

(kW)

		Indoor air temperature														
Outdoor air temp.	18 °	CDB	. 21 °	CDB	23 °	CDB	26°	CDB	27 °	CDB	28 °	CDB	31 °	CDB	33 °	CDB
un temp.	12 °	CWB	14 °0	CWB	16 °	CWB	18 °	CWB	19 °C	CWB	20 °C	CWB	22 °	CWB	24 °	CWB
°CDB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
-15							11.26	8.12	11.76	8.14	12.09	8.07	12.75	8.39	13.41	8.22
-10				ela francia			11.26	8.12	11.76	8.14	12.09	8.07	12.75	8.39	13.41	8.22
-5							11.26	8.12	11.76	8.14	12.09	8.07	12.75	8.39	13.41	8.22
0					10.51	7.59	11.35	8.16	11.76	8.14	12.11	8.08	12.80	8.41	13.49	8.25
5					10.77	7.71	11.43	8.20	11.76	8.14	12.13	8.08	12.85	8.43	13.58	8.28
11					10.68	7.67	11.33	8.15	11.66	8.09	12.02	8.04	12.75	8.39	13.47	8.24
13					10.59	7.63	11.23	8.11	11.56	8.05	11.92	8.00	12.64	8.35	13.36	8.20
15					10.50	7.59	11.13	8.07	11.45	8.01	11.81	7.96	12.54	8.31	13.26	8.17
17					10.34	7.51	10.98	8.00	11.30	7.94	11.65	7.89	12.37	8.25	13.08	8.10
19					10.21	7.45	10.82	7.93	11.14	7.88	11.49	7.83	12.20	8.18	12.90	8.04
21					10.10	7.40	10.71	7.88	11.02	7.82	11.36	7.77	12.03	8.12	12.71	7.98
23				en e	9.98	7.34	10.59	7.83	10.90	7.77	11.22	7.72	11.87	8.06	12.52	7.91
25			9.35	7.49	9.93	7.32	10.53	7.80	10.83	7.75	11.15	7.69	11.79	8.04	12.43	7.88
27			9.30	7.46	9.87	7.29	10.47	7.78	10.77	7.72	11.27	7.74	11.77	8.03		
29		100	9.12	7.37	9.70	7.21	10.29	7.70	10.58	7.64	11.10	7.67	11.63	7.98		
31			8.94	7.28	9.53	7.13	10.10	7.62	10.39	7.56	10.94	7.60	11.48	7.92		
33	8.48	6.88	8.77	7.20	9.35	7.06	9.92	7.54	10.19	7.48	10.77	7.54	11.34	7.87		
35	8.22	6.75	8.55	7.10	9.18	6.98	9.74	7.47	10.00	7.41	10.60	7.47	11.20	7.82		
. 37	7.99	6.63	8.33	6.99	8.97	6.88	9.53	7.38	9.80	7.33	10.37	7.38	10.93	7.72		
39	7.76	6.51	8.11	6.89	8.76	6.79	9.33	7.30	9.60	7.25	10.14	7.29	10.67	7.63		
41	7.53	6.39	7.89	6.78	8.55	6.70	9.12	7.21	9.40	7.17	9.90	7.20	10.41	7.54		
43	7.30	6.28	7.68	6.68	8.34	6.60	8.91	7.12	9.20	7.09	9.67	7.12	10.15	7.45		
46	6.78	6.02	7.16	6.44	7.83	6.38	8.44	6.93	8.75	6.91	9.24	6.95	9.73	7.30		
50	6.27	5.77	6.64	6.21	7.32	6.17	7.96	6.74	8.30	6.74	8.81	6.79	9.32	7.16		

Out	door		Indoor	air temp	erature	•
air te	emp.			°CDB		
°CDB	°CWB	16	18	20	22	24
-19.8	-20	10.22	9.96	9.70	9.40	9.10
-17.7	-18	10.76	10.60	10.45	10.16	9.88
-15.7	-16	11.31	11.25	11.19	10.92	10.65
-13.5	-14	11.31	11.25	11.19	10.93	10.67
-11.5	-12	11.31	11.25	11.20	10.94	10.69
-9.5	-10	11.31	11.25	11.20	10.95	10.71
-7.5	-8	11.31	11.25	11.20	10.96	10.73
-5.5	-6	11.31	11.25	11.20	10.96	10.73
-3.0	-4	11.31	11.25	11.20	10.96	10.73
-1.0	-2	11.31	11.25	11.20	10.96	10.73
1.0	0	11.31	11.25	11.20	10.96	10.73
2.0	1	11.31	11.25	11.20	10.96	10.73
3.0	2	11.31	11.25	11.20	10.96	10.73
5.0	4	11.31	11.25	11.20	10.96	10.73
7.0	6	11.31	11.25	11.20	10.96	10.73
9.0	8	11.85	11.78	11.70	11.47	11.24
11.5	10	12.39	12.30	12.21	11.98	11.76
13.5	12	12.94	12.88	12.82	12.66	12.49
15.5	14	13.49	13.46	13.43	13.33	13.22
16.5	16	13.77	13.75	13.74	13.66	13.59

(kW) Heating mode:HC

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Notes(1) These data show average status.

Depending on the system control, there may be ranges where the operation is not conducted continuously.

These data show the case where the operation frequency of a compressor is fixed.

In the heating mode in which the outside air temperature is 0°CDB or less, the compressor operates at maximum frequency.

(2) Capacities are based on the following conditions.

(2) Capacities are based on the following condition
 Corresponding refrigerant piping length: 7.5m
 Level difference of Zero.
 (3) Symbols are as follows
 TC: Total cooling capacity (kW)
 SHC: Sensible heat capacity (kW)
 HC: Heating capacity (kW)

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(b) Twin type

Model SRK100VNXWPZSX

Indoor unit SRK50ZSX-W (2 units)

Outdoor unit FDC100VNX-W

Cooling mode

0.44	Indoor air temperature															
Outdoor air temp.	18 °	CDB	21 °	CDB	23 °	CDB	26 °	CDB	27 °	CDB	28 °	CDB	31 °	CDB	33 °	CDB
all tomp.	12 °C	CWB	14 °C	CWB	16 °C	CWB	18 °C	CWB	19 °C	CWB	20 °C	CWB	22 °C	CWB	24 °0	CWB
°CDB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
-15							11.26	8.41	11.76	8.41	12.09	8.34	12.75	8.71	13.41	8.53
-10							11.26	8.41	11.76	8.41	12.09	8.34	12.75	8.71	13.41	8.53
-5							11.26	8.41	11.76	8.41	12.09	8.34	12.75	8.71	13.41	8.53
0					10.51	7.83	11.35	8.44	11.76	8.41	12.11	8.35	12.80	8.73	13.49	8.55
5					10.77	7.94	11.43	8.48	11.76	8.42	12.13	8.36	12.85	8.74	13.58	8.58
11					10.68	7.90	11.33	8.44	11.66	8.37	12.02	8.32	12.75	8.71	13.47	8.55
13					10.59	7.86	11.23	8.39	11.56	8.33	11.92	8.28	12.64	8.67	13.36	8.51
15					10.50	7.82	11.13	8.35	11.45	8.29	11.81	8.24	12.54	8.63	13.26	8.48
17					10.34	7.75	10.98	8.29	11.30	8.23	11.65	8.17	12.37	8.57	13.08	8.42
19					10.21	7.69	10.82	8.22	11.14	8.16	11.49	8.11	12.20	8.51	12.90	8.36
21					10.10	7.64	10.71	8.17	11.02	8.11	11.36	8.06	12.03	8.45	12.71	8.30
23					9.98	7.59	10.59	8.12	10.90	8.07	11.22	8.01	11.87	8.39	12.52	8.24
25			9.35	7.75	9.93	7.57	10.53	8.10	10.83	8.04	11.15	7.98	11.79	8.37	12.43	8.21
27			9.30	7.72	9.87	7.54	10.47	8.07	10.77	8.02	11.27	8.03	11.77	8.36		
29			9.12	7.64	9.70	7.46	10.29	8.00	10.58	7.94	11.10	7.96	11.63	8.31		
31			8.94	7.55	9.53	7.39	10.10	7.93	10.39	7.86	10.94	7.90	11.48	8.26		
33	8.48	7.11	8.77	7.47	9.35	7.31	9.92	7.85	10.19	7.79	10.77	7.83	11.34	8.21		
35	8.22	6.98	8.55	7.37	9.18	7.24	9.74	7.78	10.00	7.71	10.60	7.77	11.20	8.16		
37	7.99	6.86	8.33	7.27	8.97	7.14	9.53	7.69	9.80	7.64	10.37	7.68	10.93	8.07		
39	7.76	6.75	8.11	7.17	8.76	7.05	9.33	7.61	9.60	7.56	10.14	7.60	10.67	7.98		
41	7.53	6.64	7.89	7.07	8.55	6.96	9.12	7.53	9.40	7.48	9.90	7.51	10.41	7.89		
43	7.30	6.52	7.68	6.97	8.34	6.87	8.91	7.45	9.20	7.41	9.67	7.43	10.15	7.80		
46	6.78	6.28	7.16	6.74	7.83	6.66	8.44	7.26	8.75	7.24	9.24	7.27	9.73	7.66		
50	6.27	6.03	6.64	6.51	7.32	6.45	7.96	7.08	8.30	7.07	8.81	7.12	9.32	7.53		

	H	Out	door		Indoor	air temp	erature)
ОВ		air te	emp.			°CDB		
VB	П	°CDB	°CWB	16	18	20	22	24
SHC		-19.8	-20	10.22	9.96	9.70	9.40	9.10
3.53	П	-17.7	-18	10.76	10.60	10.45	10.16	9.88
3.53	П	-15.7	-16	11.31	11.25	11.19	10.92	10.65
3.53		-13.5	-14	11.31	11.25	11.19	10.93	10.67
3.55	П	-11.5	-12	11.31	11.25	11.20	10.94	10.69
3.58	П	-9.5	-10	11.31	11.25	11.20	10.95	10.71
3.55	П	-7.5	-8	11.31	11.25	11.20	10.96	10.73
3.51	П	-5.5	-6	11.31	11.25	11.20	10.96	10.73
3.48	П	-3.0	-4	11.31	11.25	11.20	10.96	10.73
3.42	П	-1.0	-2	11.31	11.25	11.20	10.96	10.73
3.36	П	1.0	0	11.31	11.25	11.20	10.96	10.73
3.30	ı	2.0	1	11.31	11.25	11.20	10.96	10.73
3.24	ı	3.0	2	11.31	11.25	11.20	10.96	10.73
3.21	ı	5.0	4	11.31	11.25	11.20	10.96	10.73
	ŀ	7.0	6	11.31	11.25	11.20	10.96	10.73
	ı	9.0	8	11.85	11.78	11.70	11.47	11.24
	ı	11.5	10	12.39	12.30	12.21	11.98	11.76
		13.5	12	12.94	12.88	12.82	12.66	12.49
	ı	15.5	14	13.49	13.46	13.43	13.33	13.22
34.56	ı	16.5	16	13.77	13.75	13.74	13.66	13.59

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Model SRK100VSXWPZSX

Cooling mode

Indoor unit SRK50ZSX-W (2 units)

Outdoor unit FDC100VSX-W

(kW)

0.44	Indoor air temperature															
Outdoor air temp.	18°	CDB	21 °	CDB	23 °	CDB	26 °	CDB	27 °	CDB	28 °	CDB	31 °	CDB	33 °	CDB
un tomp.	12 °	CWB	14 °C	CWB	16 °C	CWB	18 °CWB		19 °C	CWB	20 °C	CWB	22 °C	CWB	24 °0	CWB
°CDB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
-15							11.26	8.41	11.76	8.41	12.09	8.34	12.75	8.71	13.41	8.53
-10							11.26	8.41	11.76	8.41	12.09	8.34	12.75	8.71	13.41	8.53
-5							11.26	8.41	11.76	8.41	12.09	8.34	12.75	8.71	13.41	8.53
0					10.51	7.83	11.35	8.44	11.76	8.41	12.11	8.35	12.80	8.73	13.49	8.55
5					10.77	7.94	11.43	8.48	11.76	8.42	12.13	8.36	12.85	8.74	13.58	8.58
11					10.68	7.90	11.33	8.44	11.66	8.37	12.02	8.32	12.75	8.71	13.47	8.55
13					10.59	7.86	11.23	8.39	11.56	8.33	11.92	8.28	12.64	8.67	13.36	8.51
15					10.50	7.82	11.13	8.35	11.45	8.29	11.81	8.24	12.54	8.63	13.26	8.48
17					10.34	7.75	10.98	8.29	11.30	8.23	11.65	8.17	12.37	8.57	13.08	8.42
19				7	10.21	7.69	10.82	8.22	11.14	8.16	11.49	8.11	12.20	8.51	12.90	8.36
21					10.10	7.64	10.71	8.17	11.02	8.11	11.36	8.06	12.03	8.45	12.71	8.30
23					9.98	7.59	10.59	8.12	10.90	8.07	11.22	8.01	11.87	8.39	12.52	8.24
25			9.35	7.75	9.93	7.57	10.53	8.10	10.83	8.04	11.15	7.98	11.79	8.37	12.43	8.21
27			9.30	7.72	9.87	7.54	10.47	8.07	10.77	8.02	11.27	8.03	11.77	8.36		
29			9.12	7.64	9.70	7.46	10.29	8.00	10.58	7.94	11.10	7.96	11.63	8.31		
31			8.94	7.55	9.53	7.39	10.10	7.93	10.39	7.86	10.94	7.90	11.48	8.26		
33	8.48	7.11	8.77	7.47	9.35	7.31	9.92	7.85	10.19	7.79	10.77	7.83	11.34	8.21	1.0	
35	8.22	6.98	8.55	7.37	9.18	7.24	9.74	7.78	10.00	7.71	10.60	7.77	11.20	8.16		
37	7.99	6.86	8.33	7.27	8.97	7.14	9.53	7.69	9.80	7.64	10.37	7.68	10.93	8.07		
39	7.76	6.75	8.11	7.17	8.76	7.05	9.33	7.61	9.60	7.56	10.14	7.60	10.67	7.98		
41	7.53	6.64	7.89	7.07	8.55	6.96	9.12	7.53	9.40	7.48	9.90	7.51	10.41	7.89		
43	7.30	6.52	7.68	6.97	8.34	6.87	8.91	7.45	9.20	7.41	9.67	7.43	10.15	7.80		
. 46	6.78	6.28	7.16	6.74	7.83	6.66	8.44	7.26	8.75	7.24	9.24	7.27	9.73	7.66		
50	6.27	6.03	6.64	6.51	7.32	6.45	7.96	7.08	8.30	7.07	8.81	7.12	9.32	7.53		

		Indoor air temperature									
	door		Indoor	air temp	erature						
air te	emp.			°CDB							
°CDB	°CWB	16	18	20	22	24					
-19.8	-20	10.22	9.96	9.70	9.40	9.10					
-17.7	-18	10.76	10.60	10.45	10.16	9.88					
-15.7	-16	11.31	11.25	11.19	10.92	10.65					
-13.5	-14	11.31	11.25	11.19	10.93	10.67					
-11.5	-12	11.31	11.25	11.20	10.94	10.69					
-9.5	-10	11.31	11.25	11.20	10.95	10.71					
-7.5	-8	11.31	11.25	11.20	10.96	10.73					
-5.5	-6	11.31	11.25	11.20	10.96	10.73					
-3.0	-4	11.31	11.25	11.20	10.96	10.73					
-1.0	-2	11.31	11.25	11.20	10.96	10.73					
1.0	0	11.31	11.25	11.20	10.96	10.73					
2.0	1	11.31	1.1.25	11.20	10.96	10.73					
3.0	2	11.31	11.25	11.20	10.96	10.73					
5.0	4	11.31	11.25	11.20	10.96	10.73					
7.0	6	11.31	11.25	11.20	10.96	10.73					
9.0	8	11.85	11.78	11.70	11.47	11.24					
11.5	10	12.39	12.30	12.21	11.98	11.76					
13.5	12	12.94	12.88	12.82	12.66	12.49					
15.5	14	13.49	13.46	13.43	13.33	13.22					
16.5	16	13.77	13.75	13.74	13.66	13.59					
-											

(kW) Heating mode:HC

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Notes(1) These data show average status.

Depending on the system control, there may be ranges where the operation is not conducted continuously.

These data show the case where the operation frequency of a compressor is fixed.

In the heating mode in which the outside air temperature is 0°CDB or less, the compressor operates at maximum frequency.

(2) Capacities are based on the following conditions.

Corresponding refrigerant piping length :7.5m
Level difference of Zero.

(3) Symbols are as follows
TC: Total cooling capacity (kW)
SHC: Sensible heat capacity (kW)
HC: Heating capacity (kW)

Model SRK125VNXWPZSX

Indoor unit SRK60ZSX-W (2 units)

Outdoor unit FDC125VNX-W

Cooling mo Indoor air temperature Outdoo 18 °CDB 21 °CDB 23 °CDB 26 °CDB 27 °CDB 28 °CDB 31 °CDB 33 °CDB air temp 12 °CWB 14 °CWB 16 °CWB 18 °CWB 19 °CWB 20 °CWB 22 °CWB 24 °CWB °CDB SHC TC SHC TC SHC TC SHC TC SHC TC TC SHC TC SHC TC SHC 11.89 8.69 12.37 8.67 12.71 8.58 13.39 8.93 14.07 8.71 -10 11.89 8.69 12.37 8.67 12.71 8.58 13.39 8.93 14.07 8.71 11.95 8.72 12.57 8.75 12.94 8.66 13.67 9.03 14.40 8.81 0 11.69 8.36 12.71 9.03 9.00 13.61 8.91 14.40 9.28 15.19 9.06 13.21 5 12.68 8.81 13.46 9.35 13.85 9.26 14.28 9.18 9.54 9.32 11 12.84 8.88 13.62 9.41 14.01 9.32 14.44 9.24 15.31 9.61 16.18 9.38 13 12.99 8.95 13.77 9.48 14.16 9.38 14.60 9.30 15.49 9.67 16.38 9.44 15 13.14 9.02 13.92 9.54 14.31 9.45 14.77 9.37 15.67 9.51 17 12.94 8.93 13.73 9.46 14.12 9.37 14.57 9.29 15.46 9.66 16.35 9.43 19 12.76 8.85 13.53 9.37 13.93 9.29 14.37 9.21 15.24 9.58 16.12 9.36 21 12.62 8.78 13.38 9.31 13.77 9.22 14.20 9.14 15.04 9.51 15.89 9.28 23 14.03 9.08 14.84 9.44 12.48 8.72 13.23 9.25 13.62 9.16 15.65 9.21 25 11.69 8.92 12.41 8.69 13.16 9.22 13.54 9.13 13.94 9.04 14.74 9.40 15.54 9.17 11.62 8.89 12.34 8.65 13.08 9.19 13.46 9.10 14.09 9.10 14.71 27 29 11.40 8.78 12.12 8.56 12.86 9.09 13.22 9.00 13.88 9.02 14.53 9.33 11.17 8.67 13.67 8.94 31 11.91 8.46 12.63 9.00 12.98 8.91 14.35 9.27 33 10.84 8.51 12.74 8.81 13.46 8.86 10.36 8.10 11.69 8.36 12.40 8.90 14.18 9.20 12.50 8.72 35 10.03 10.43 8.32 11.21 8.15 11.92 8.70 12.25 8.62 12.96 8.67 13.67 9.03 39 9.73 7.78 10.16 8.19 10.95 8.04 11.66 8.60 12.00 8.52 12.67 8.56 13.34 8.92 41 7.92 11.40 11.75 8.43 12.38 8.45 13.01 8.81 9.43 7.63 9.88 8.06 10.68 8.50 43 9.13 7.49 9.60 7.93 10.42 7.81 11.14 8.39 11.50 8.33 12.09 8.35 12.69 8.70 46 8.49 7.17 8.96 7.64 9.81 7.55 10.44 8.12 10.70 8.03 11.08 7.98 11.47 8.30 9.19 7.30 7.85 9.90 7.74

	П	Outo	door		Indoor	air temp	erature	
DB			emp.			°CDB		
٧B		°CDB	°CWB	16	18	20	22	24
SHC		-19.8	-20	10.37	10.18	10.00	9.82	9.64
8.71		-17.7	-18	10.43	10.26	10.10	9.92	9.74
8.71	П	-15.7	-16	10.49	10.34	10.19	10.02	9.84
8.81	П	-13.5	-14	10.79	10.61	10.44	10.24	10.04
9.06	П	-11.5	-12	11.37	11.15	10.92	10.68	10.44
9.32	П	-9.5	-10	11.96	11.68	11.40	11.12	10.84
9.38	П	-7.5	-8	12.55	12.22	11.88	11.56	11.23
9.44	П	-5.5	-6	12.90	12.63	12.35	12.03	11.72
9.51	П	-3.0	-4	13.25	13.04	12.82	12.51	12.20
9.43	П	-1.0	-2	13.61	13.45	13.29	12.99	12.69
9.36	П	1.0	0	13.96	13.86	13.76	13.47	13.17
9.28	П	2.0	1	14.13	14.07	14.00	13.71	13.41
9.21	П	3.0	2	14.13	14.07	14.00	13.71	13.41
9.17	П	5.0	4	14.13	14.07	14.00	13.71	13.41
	П	7.0	6	14.13	14.07	14.00	13.71	13.41
	П	9.0	8	14.81	14.72	14.63	14.34	14.06
	П	11.5	10	15.49	15.37	15.26	14.98	14.70
	П	13.5	12	16.18	16.10	16.02	15.74	15.45
	Ш	15.5	14	16.87	16.83	16.79	16.49	16.20
	П	16.5	16	17.21	17.19	17.17	16.87	16.57

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Model SRK125VSXWPZSX

Indoor unit SRK60ZSX-W (2 units)

Outdoor unit FDC125VSX-W

Cooling m	ode								`	,						(kW
							Ind	oor air t	empera	ture						
Outdoor air temp.	18 °	CDB	21 °	CDB	23 °	CDB	26 °	CDB	27 °	CDB	28 °	CDB	31 °	CDB	33 °	CDB
ali terrip.	12 °C	CWB	14 °C	CWB	16 °C	CWB	18 °C	CWB	19 °C	CWB	20 °C	CWB	22 °(CWB	24 °C	CWB
°CDB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
-15							11.89	8.69	12.37	8.67	12.71	8.58	13.39	8.93	14.07	8.71
-10							11.89	8.69	12.37	8.67	12.71	8.58	13.39	8.93	14.07	8.71
-5							11.95	8.72	12.57	8.75	12.94	8.66	13.67	9.03	14.40	8.81
0					11.69	8.36	12.71	9.03	13.21	9.00	13.61	8.91	14.40	9.28	15.19	9.06
5					12.68	8.81	13.46	9.35	13.85	9.26	14.28	9.18	15.14	9.54	15.99	9.32
11					12.84	8.88	13.62	9.41	14.01	9.32	14.44	9.24	15.31	9.61	16.18	9.38
13					12.99	8.95	13.77	9.48	14.16	9.38	14.60	9.30	15.49	9.67	16.38	9.44
15					13.14	9.02	13.92	9.54	14.31	9.45	14.77	9.37	15.67	9.74	16.57	9.51
17					12.94	8.93	13.73	9.46	14.12	9.37	14.57	9.29	15.46	9.66	16.35	9.43
19					12.76	8.85	13.53	9.37	13.93	9.29	14.37	9.21	15.24	9.58	16.12	9.36
21					12.62	8.78	13.38	9.31	13.77	9.22	14.20	9.14	15.04	9.51	15.89	9.28
23					12.48	8.72	13.23	9.25	13.62	9.16	14.03	9.08	14.84	9.44	15.65	9.21
25			11.69	8.92	12.41	8.69	13.16	9.22	13.54	9.13	13.94	9.04	14.74	9.40	15.54	9.17
27			11.62	8.89	12.34	8.65	13.08	9.19	13.46	9.10	14.09	9.10	14.71	9.39		
29			11.40	8.78	12.12	8.56	12.86	9.09	13.22	9.00	13.88	9.02	14.53	9.33		
31			11.17	8.67	11.91	8.46	12.63	9.00	12.98	8.91	13.67	8.94	14.35	9.27		
33	10.36	8.10	10.84	8.51	11.69	8.36	12.40	8.90	12.74	8.81	13.46	8.86	14.18	9.20		
35	10.33	8.08	10.71	8.45	11.47	8.27	12.18	8.81	12.50	8.72	13.25	8.78	14.00	9.14		
37	10.03	7.93	10.43	8.32	11.21	8.15	11.92	8.70	12.25	8.62	12.96	8.67	13.67	9.03		
39	9.73	7.78	10.16	8.19	10.95	8.04	11.66	8.60	12.00	8.52	12.67	8.56	13.34	8.92		
41	9.43	7.63	9.88	8.06	10.68	7.92	11.40	8.50	11.75	8.43	12.38	8.45	13.01	8.81		
43	9.13	7.49	9.60	7.93	10.42	7.81	11.14	8.39	11.50	8.33	12.09	8.35	12.69	8.70		
46	8.49	7.17	8.96	7.64	9.81	7.55	10.44	8.12	10.70	8.03	11.08	7.98	11.47	8.30		
50	7.85	6.87	8.33	7.36	9.19	7.30	9.74	7.85	9.90	7.74	10.08	7.63	10.26	7.92		

(kW)	Heating	mode:h	НС				(kW)
	Out	door		Indoor	air temp	erature	
DB	air te	emp.			°CDB		
WB	°CDB	°CWB	16	18	20	22	24
SHC	-19.8	-20	11.30	11.10	10.90	10.70	10.50
8.71	-17.7	-18	11.98	11.75	11.52	11.34	11.16
8.71	-15.7	-16	12.63	12.45	12.27	12.05	11.84
8.81	-13.5	-14	12.84	12.68	12.51	12.29	12.06
9.06	-11.5	-12	13.27	13.14	13.01	12.76	12.51
9.32	-9.5	-10	14.13	14.07	14.00	13.71	13.41
9.38	-7.5	-8	14.13	14.07	14.00	13.71	13.41
9.44	-5.5	-6	14.13	14.07	14.00	13.71	13.41
9.51	-3.0	-4	14.13	14.07	14.00	13.71	13.41
9.43	-1.0	-2	14.13	14.07	14.00	13.71	13.41
9.36	1.0	0	14.13	14.07	14.00	13.71	13.41
9.28	2.0	1	14.13	14.07	14.00	13.71	13.41
9.21	3.0	2	14.13	14.07	14.00	13.71	13.41
9.17	5.0	4	14.13	14.07	14.00	13.71	13.41
	7.0	6	14.13	14.07	14.00	13.71	13.41
	9.0	8	14.81	14.72	14.63	14.34	14.06
	11.5	10	15.49	15.37	15.26	14.98	14.70
	13.5	12	16.18	16.10	16.02	15.74	15.45
	15.5	14	16.87	16.83	16.79	16.49	16.20
	16.5	16	17.21	17.19	17.17	16.87	16.57

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Notes(1) These data show average status.

Depending on the system control, there may be ranges where the operation is not conducted continuously.

These data show the case where the operation frequency of a compressor is fixed.

In the heating mode in which the outside air temperature is 0°CDB or less, the compressor operates at maximum frequency. (2) Capacities are based on the following conditions.

Corresponding refrigerant piping length :7.5m

Level difference of Zero.

(3) Symbols are as follows

TC: Total cooling capacity (kW) SHC :Sensible heat capacity (kW) HC :Heating capacity (kW)

(c) Triple type

Model SRK140VNXWTZSX Indoor unit SRK50ZSX-W (3 units) Outdoor unit FDC140VNX-W

Outling II	loue															(1/44)
							Ind	oor air t	empera	ture						
Outdoor air temp.	18°	CDB	21 °	CDB	23 °	CDB	26 °	CDB	27 °	CDB	28 °	CDB	31 °	CDB	33 °	CDB
all temp.	12 °	CWB	14 °	CWB	16 °	S °CWB 18 °CWE		CWB	19 °	CWB	20 °	CWB	22 °	CWB	24 °	CWB
°CDB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
-15							11.46	10.44	12.05	10.46	12.38	10.38	13.04	10.99	13.70	10.79
-10							11.46	10.44	12.05	10.46	12.38	10.38	13.04	10.99	13.70	10.79
-5							11.48	10.44	12.08	10.47	12.43	10.40	13.13	11.02	13.84	10.83
0					11.06	9.71	12.02	10.65	12.51	10.63	12.88	10.56	13.63	11.18	14.38	10.99
5					11.84	10.03	12.57	10.86	12.93	10.78	13.33	10.72	14.13	11.34	14.93	11.15
11					12.32	10.23	13.17	11.09	13.59	11.03	14.01	10.96	14.86	11.58	15.70	11.39
13					12.80	10.44	13.77	11.33	14.25	11.28	14.70	11.21	15.59	11.83	16.48	11.63
15					13.28	10.64	14.37	11.57	14.91	11.53	15.38	11.46	16.32	12.08	17.26	11.87
17					13.49	10.73	14.46	11.61	14.94	11.55	15.42	11.48	16.36	12.09	17.30	11.88
19					13.50	10.74	14.55	11.64	14.98	11.56	15.45	11.49	16.40	12.10	17.34	11.90
21					13.56	10.76	14.54	11.64	14.97	11.56	15.43	11.48	16.35	12.08	17.26	11.87
23					13.63	10.79	14.53	11.63	14.95	11.55	15.40	11.47	16.29	12.07	17.19	11.85
25			12.78	11.04	13.66	10.81	14.52	11.63	14.95	11.55	15.39	11.47	16.27	12.06	17.15	11.84
27			12.89	11.09	13.69	10.82	14.52	11.63	14.94	11.55	15.63	11.56	16.33	12.08		
29			12.64	10.98	13.45	10.72	14.28	11.53	14.70	11.46	15.42	11.48	16.13	12.01		
31			12.39	10.86	13.21	10.61	14.05	11.44	14.47	11.37	15.20	11.40	15.93	11.94		
33	10.35	9.50	11.45	10.43	12.97	10.51	13.81	11.35	14.24	11.28	14.98	11.32	15.73	11.87		
35	10.27	9.46	11.29	10.36	12.73	10.41	13.57	11.25	14.00	11.19	14.76	11.24	15.53	11.81		
37	10.21	9.43	11.14	10.29	12.48	10.30	13.31	11.15	13.73	11.08	14.47	11.13	15.21	11.70		
39	10.15	9.40	10.98	10.22	12.22	10.19	13.05	11.05	13.46	10.98	14.18	11.02	14.89	11.59		
41	10.10	9.38	10.83	10.15	11.97	10.09	12.78	10.94	13.19	10.88	13.89	10.91	14.58	11.49		
43	10.04	9.35	10.68	10.08	11.72	9.98	12.52	10.84	12.92	10.78	13.59	10.81	14.26	11.38		
46	9.24	8.97	9.77	9.57	10.56	9.50	11.11	10.30	11.40	10.22	11.83	10.19	12.25	10.73		
50	8.45	8.28	8.86	8.68	9.40	9.04	9.71	9.51	9.88	9.68	10.06	9.58	10.24	10.03		l

(kW)	Heating	mode:l	НС				(kW)
	Out	door		Indoor	air temp	erature	
DB	air t	emp.			°CDB		
ΝB	°CDB	°CWB	16	18	20	22	24
SHC	-19.8	-20	11.01	10.95	10.90	10.66	10.42
10.79	-17.7	-18	11.50	11.28	11.05	10.70	10.34
10.79	-15.7	-16	12.33	12.06	11.78	11.42	11.06
10.83	-13.5	-14	12.60	12.31	12.03	11.67	11.31
10.99	-11.5	-12	13.15	12.83	12.51	12.15	11.79
11.15	-9.5	-10	13.70	13.35	13.00	12.63	12.27
11.39	-7.5	-8	14.25	13.87	13.49	13.12	12.75
11.63	-5.5	-6	14.67	14.36	14.04	13.68	13.32
11.87	-3.0	-4	15.09	14.85	14.60	14.25	13.90
11.88	-1.0	-2	15.52	15.34	15.16	14.82	14.47
11.90	1.0	0	15.94	15.83	15.72	15.38	15.04
11.87	2.0	1	16.15	16.08	16.00	15.66	15.33
11.85	3.0	2	16.15	16.08	16.00	15.66	15.33
11.84	5.0	4	16.15	16.08	16.00	15.66	15.33
	7.0	6	16.15	16.08	16.00	15.66	15.33
	9.0	8	16.93	16.82	16.72	16.39	16.06
	11.5	10	17.70	17.57	17.44	17.12	16.80
	13.5	12	18.49	18.28	18.08	17.43	16.78
	15.5	14	19.27	19.00	18.72	17.74	16.75
	16.5	16	19.67	19.36	19.04	17.89	16.74

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(kW)

Model SRK140VSXWTZSX Cooling mode

Indoor unit SRK50ZSX-W (3 units)

Outdoor unit FDC140VSX-W

Cooling n	node								(-,						(kW)	Heatin	g mode:	:HC
							Ind	oor air t	empera	ture							Οι	ıtdoor	П
Outdoor air temp.	18 °	CDB	21 °	CDB	23 °	CDB	26 °	CDB	27 °	CDB	28 °	CDB	31 °	CDB	33 °	CDB	air	temp.	
all temp.	12 °C	CWB	14 °	CWB	16 °	CWB	18 °	CWB	19 °	CWB	20 °	CWB	22 °	CWB	24 °	CWB	°CDE	°CWB	3 16
°CDB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	-19.8	-20	12.2
-15					1		11.46	10.44	12.05	10.46	12.38	10.38	13.04	10.99	13.70	10.79	-17.7	-18	13.3
-10							11.46	10.44	12.05	10.46	12.38	10.38	13.04	10.99	13.70	10.79	-15.7	-16	14.4
-5							11.48	10.44	12.08	10.47	12.43	10.40	13.13	11.02	13.84	10.83	-13.5	-14	14.7
0					11.06	9.71	12.02	10.65	12.51	10.63	12.88	10.56	13.63	11.18	14.38	10.99	-11.5	-12	15.3
5					11.84	10.03	12.57	10.86	12.93	10.78	13.33	10.72	14.13	11.34	14.93	11.15	-9.5	-10	15.9
11					12.32	10.23	13.17	11.09	13.59	11.03	14.01	10.96	14.86	11.58	15.70	11.39	-7.5	-8	16.4
13					12.80	10.44	13.77	11.33	14.25	11.28	14.70	11.21	15.59	11.83	16.48	11.63	-5.5	-6	16.4
15					13.28	10.64	14.37	11.57	14.91	11.53	15.38	11.46	16.32	12.08	17.26	11.87	-3.0	-4	16.4
17					13.49	10.73	14.46	11.61	14.94	11.55	15.42	11.48	16.36	12.09	17.30	11.88	-1.0	-2	16.4
19					13.50	10.74	14.55	11.64	14.98	11.56	15.45	11.49	16.40	12.10	17.34	11.90	1.0	0	16.4
21					13.56	10.76	14.54	11.64	14.97	11.56	15.43	11.48	16.35	12.08	17.26	11.87	2.0	1	16.4
23					13.63	10.79	14.53	11.63	14.95	11.55	15.40	11.47	16.29	12.07	17.19	11.85	3.0	2	16.4
25			12.78	11.04	13.66	10.81	14.52	11.63	14.95	11.55	15.39	11.47	16.27	12.06	17.15	11.84	5.0	4	16.4
27			12.89	11.09	13.69	10.82	14.52	11.63	14.94	11.55	15.63	11.56	16.33	12.08			7.0	6	16.4
29			12.64	10.98	13.45	10.72	14.28	11.53	14.70	11.46	15.42	11.48	16.13	12.01			9.0	8	17.2
31			12.39	10.86	13.21	10.61	14.05	11.44	14.47	11.37	15.20	11.40	15.93	11.94			11.5	10	18.0
33	10.35	9.50	11.45	10.43	12.97	10.51	13.81	11.35	14.24	11.28	14.98	11.32	15.73	11.87			13.5	12	18.8
35	10.27	9.46	11.29	10.36	12.73	10.41	13.57	11.25	14.00	11.19	14.76	11.24	15.53	11.81			15.5		19.6
37	10.21	9.43	11.14	10.29	12.48	10.30	13.31	11.15	13.73	11.08	14.47	11.13	15.21	11.70			16.5	16	20.0
39	10.15	9.40	10.98	10.22	12.22	10.19	13.05	11.05	13.46	10.98	14.18	11.02	14.89	11.59					
41	10.10	9.38	10.83	10.15	11.97	10.09	12.78	10.94	13.19	10.88	13.89	10.91	14.58	11.49				T _E	
43	10.04	9.35	10.68	10.08	11.72	9.98	12.52	10.84	12.92	10.78	13.59	10.81	14.26	11.38					C
46	9.24	8.97	9.77	9.57	10.56	9.50	11.11	10.30	11.40	10.22	11.83	10.19	12.25	10.73					
	0.45						0.74	0.54			4000	0 = 0		4000					

Out	door		Indoor air temperature								
air te	emp.	°CDB									
°CDB	°CWB	16	18	20	22	24					
-19.8	-20	12.26	12.08	11.90	11.84	11.77					
-17.7	-18	13.37	13.22	13.07	12.83	12.59					
-15.7	-16	14.48	14.36	14.24	13.82	13.40					
-13.5	-14	14.76	14.63	14.49	14.11	13.72					
-11.5	-12	15.34	15.17	15.00	14.68	14.36					
-9.5	-10	15.91	15.70	15.50	15.25	15.00					
-7.5	-8	16.48	16.24	16.00	15.82	15.64					
-5.5	-6	16.48	16.24	16.00	15.82	15.64					
-3.0	-4	16.48	16.24	16.00	15.82	15.64					
-1.0	-2	16.48	16.24	16.00	15.82	15.64					
1.0	0	16.48	16.24	16.00	15.82	15.64					
2.0	1	16.48	16.24	16.00	15.82	15.64					
3.0	2	16.48	16.24	16.00	15.82	15.64					
5.0	4	16.48	16.24	16.00	15.82	15.64					
7.0	6	16.48	16.24	16.00	15.82	15.64					
9.0	8	17.27	17.08	16.90	16.64	16.39					
11.5	10	18.06	17.93	17.79	17.47	17.14					
13.5	12	18.86	18.66	18.45	17.78	17.12					
15.5	14	19.67	19.39	19.10	18.10	17.09					
16.5	16	20.07	19.75	19.43	18.26	17.08					

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| 50 | 8.45 | 8.28 | 8.86 | 8.68 | 9.40 | 9.04 | 9.71 | 9.51 | 9.88 | 9.68 | 10.06 | 9.58 | 10.24 | 10.03 | Notes(1) These data show average status.

Depending on the system control, there may be ranges where the operation is not conducted continuously.

These data show the case where the operation frequency of a compressor is fixed.

In ese data show the case where the operation frequency of a compressor is fixed.

In the heating mode in which the outside air temperature is 0°CDB or less, the compressor operates at maximum frequency.

(2) Capacities are based on the following conditions.

Corresponding refrigerant piping length :7.5m

Level difference of Zero.

(3) Symbols are as follows

TC :Total cooling capacity (kW)

SHC :Sensible heat capacity (kW)

HC :Heating capacity (kW)

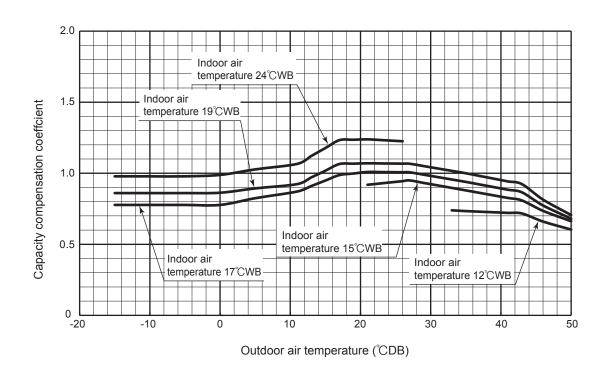
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[References data]

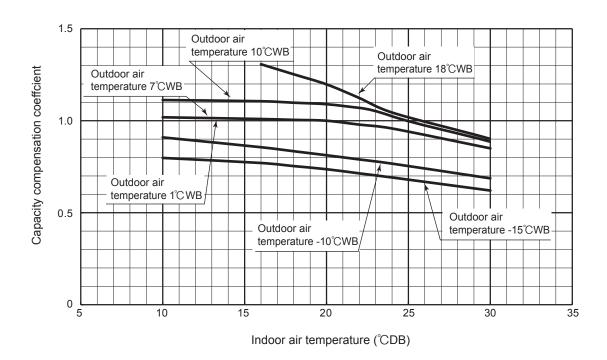
Capacity variation against outdoor and indoor temperature at rated capacity condition.

(I) Models FDC100, 125, 140VNX-W, 100, 125, 140VSX-W

1 Cooling



2 Heating



1.9.2 Correction of cooling and heating capacity in relation to air flow rate control (fan speed)

Fan speed	P-Hi or Hi ⁽¹⁾	Me	Lo
Coefficient	1.00	0.97	0.95

Note (1) SRK series only.

1.9.3 Correction of cooling and heating capacity in relation to one way length of refrigerant piping

It is necessary to correct the cooling and heating capacity in relation to the one way equivalent piping length between the indoor and outdoor units.

Models 100-140

Equivalent piping length (1)(m)			7.5	10	15	20	25	30	35	40	45	50	55
Heating			1	1	1	1	1	0.998	0.998	0.993	0.993	0.988	0.988
	100 model		1	0.991	0.978	0.964	0.951	0.937	0.924	0.910	0.897	0.883	0.870
	125 model	φ 15.88	1	0.986	0.968	0.950	0.932	0.914	0.896	0.878	0.860	0.842	0.824
Cooling	140 model		1	0.985	0.966	0.946	0.927	0.907	0.888	0.868	0.849	0.829	0.810
Cooling	100 model	φ 19.05	1.016	1.013	1.007	1.002	0.996	0.991	0.985	0.980	0.974	0.969	0.963
	125 model		1.022	1.018	1.009	1.001	0.992	0.984	0.975	0.967	0.958	0.950	0.941
	140 model		1.026	1.021	1.011	1.002	0.992	0.983	0.973	0.964	0.954	0.945	0.935

Equivalent piping length (1)(m)			60	65	70	75	80	85	90	95	100	105
Heating			0.983	0.983	0.978	0.978	0.973	0.973	0.968	0.968	0.963	0.963
	100 model		0.856	0.843	0.829	0.816	0.803	0.789	0.776	0.762	0.749	0.736
	125 model	φ 15.88	0.806	0.788	0.770	0.752	0.734	0.716	0.698	0.680	0.662	0.644
Cooling	140 model		0.790	0.771	0.751	0.732	0.712	0.693	0.673	0.654	0.634	0.615
Cooling	100 model		0.959	0.955	0.951	0.948	0.944	0.940	0.936	0.932	0.929	0.926
	125 model	φ 19.05	0.935	0.929	0.924	0.919	0.912	0.908	0.902	0.897	0.892	0.887
	140 model		0.928	0.920	0.913	0.907	0.900	0.894	0.888	0.882	0.876	0.870

Note (1) Calculate the equivalent length using the following formula.

However, install the piping so that the piping length is within +5 m of the limit length (actual length) for the respective types.

• Equivalent length =Actual length + (Equivalent bend length x number of bends in the piping.) Equivalent length per bend.

Gas pipe diameter (mm)	φ 12.7	φ 15.88	φ 19.05
Equivalent bend length	0.20	0.25	0.30

1.9.4 Height difference between the indoor unit and outdoor unit

When the outdoor unit is located below indoor units in cooling mode, or when the outdoor unit is located above indoor units in heating mode, the correction coefficient mentioned in the below table should be subtracted from the value in the above table.

Height difference between the indoor unit and outdoor unit in the vertical height difference	5m	10m	15m	20m	25m	30m
Adjustment coefficient	0.99	0.98	0.97	0.96	0.95	0.94

Height difference between the indoor unit and outdoor unit in the vertical height difference	35m	40m	45m	50m
Adjustment coefficient	0.93	0.92	0.91	0.90

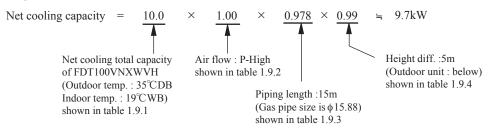
Piping length limitations

Item	Model	100, 125, 140
Max. one way piping length		100m
Max. vertical height difference		Outdoor unit is higher 50m Outdoor unit is lower 15m

Note (1) Values in the table indicate the one way piping length between the indoor and outdoor units.

How to obtain the cooling and heating capacity

Example : The net cooling capacity of the model FDT100VNXWVH with the air flow "P-High", the piping length of 15m, the outdoor unit located 5m lower than the indoor unit, indoor wet-bulb temperature at 19.0° C and outdoor dry-bulb temperature 35° C is



1.10 APPLICATION DATA

1.10.1 Installation of indoor unit

(1) Ceiling cassette-4 way type(FDT)

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This manual is for the installation of the indoor unit.

For electrical wiring work (Indoor unit), refer to page 194. For remote control installation, refer to page 198. For wireless kit installation, refer to page 349. For electrical wiring work (Outdoor unit) and refriger ant pipe work installation for outdoor unit, refer to page 210. For motion sensor kit installation, refer to page 381. This unit must always be used with the panel.

SAFETY PRECAUTIONS

- Read the "SAFETY PRECAUTIONS" carefully first of all and then strictly follow it during the installation work in order to protect yourself.
- The precautionary items mentioned below are distinguished into two levels, <u>AWARNING</u> and <u>ACAUTION</u>. AWARNING: Wrong installation would cause serious consequences such as injuries or death ACAUTION: Wrong installation might cause serious consequences depending on circumstances. Both mentions the important items to protect your health and safety so strictly follow them by any means.
- The meanings of "Marks" used here are as shown on the right:

Never do it under any circumstances. • After completing the installation, do commissioning to confirm there are no abnormalities, and explain to the customers about "SAFETY PRECAUTIONS", correct operation method and maintenance method (air filter cleaning, operation method and temperature setting method) with user's manual of this unit.

Ask your customers to keep this installation manual together with the user's manual. Also, ask them to hand over the user's manual to the new user when the owner is changed.

↑ WARNING

Installation should be performed by the specialist.

If you install the unit by yourself, it may lead to serious trouble such as water leakage, electric shock, fire, and injury due to overturn

Install the system correctly according to these installation manuals. mproper installation may cause explosion, injury, water leakage, electric shock, and fire

Check the density refered by the foumula (accordance with ISO5149).

If the density exceeds the limit density, please consult the dealer and installate the ventilation system

$\ensuremath{\bullet}$ Use the genuine accessories and the specified parts for installation. If parts unspecified by our company are used it could cause water leakage, electric shock, fire, and injury due to overturn of the unit.

Ventilate the working area well in case the refrigerant leaks during installation If the refrigerant contacts the fire, toxic gas is produced

In case of R32, the refrigerant could be ignited because of its flammability.



Install the unit in a location that can hold heavy weight. Improper installation may cause the unit to fall leading to acci

■Install the unit properly in order to be able to withstand strong winds such as typhoons, and earthquakes.



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Improper installation may cause the unit to fall leading to accidents $\ensuremath{\bullet}$ Do not mix air in to the cooling cycle on installation or removal of the air-conditioner.

If air is mixed in, the pressure in the cooling cycle will rise abnormally and may cause explosion and injuries • Be sure to have the electrical wiring work done by qualified electrical installer, and use exclusive circuit.

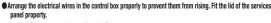
Power source with insufficient capacity and improper work can cause electric shock and fire



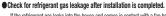
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•Use specified wire for electrical wiring, fasten the wiring to the terminal securely, and hold the cable securely in order not to apply unexpected stress on the terminal.





Improper fitting may cause abnormal heat and fire.



If the refrigerant gas leaks into the house and comes in contact with a fan heater, a stove, or an oven, toxic gas is produced Ouse the specified pipe, flare nut, and tools for R32 or R410A.

Using existing parts (R22) could cause the unit failure and serious accident due to explosion of the cooling cycle ● Tighten the flare nut according to the specified method by with torque wrench.



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If the flare nut were tightened with excess torque, it could cause burst and refrigerant leakage after a long period. • Do not put the drainage pipe directly into drainage channels where poisonous gases such as sulfide gas can

Poisonous gases will flow into the room through drainage pipe and seriously affect the user's health and safety. This can also cause the corrosion of the indoor unit and a resultant unit failure or refrigerant leak.



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• Connect the pipes for refrigeration circuit securely in installation work before compressor is operated.

If the compressor is operated when the service valve is open without connecting the pipe, it could cause explosion and injuries due to abnormal high pressure in the system. Stop the compressor before removing the pipe after shutting the service valve on pump down work.

If the pipe is removed when the compressor is in operation with the service valve open, air would be mixed in the refrigeration circuit and it could cause explosion and injuries due to abnormal high pressure in the cooling cycle.

Only use prescribed option parts. The installation must be carried out by the qualified installer.

If you install the system by yourself, it can cause serious trouble such as water leaks, electric shocks, fire Do not repair by yourself. And consult with the dealer about repair.

mproper repair may cause water leakage, electric shock or fire Consult the dealer or a specialist about removal of the air-conditioner.

Improper installation may cause water leakage, electric shock or fire Turn off the power source during servicing or inspection work.

If the power is supplied during servicing or inspection work, it could cause electric shock and injury by the operating fan

Do not run the unit when the panel or protection guard are taken off.

Touching the rotating equipment, hot surface, or high voltage section could cause an injury to be caught in the machine, to get burned, or electric shock

Shut off the nower before electrical wiring work.

It could cause electric shock, unit failure and improper runn

⚠ CAUTION

Perform earth wiring surely.

Do not connect the earth wiring to the gas pipe, water pipe, lightning rod and telephone earth wiring. Improper earth could cause unit failure and electric shock due to a short-circuit.

Earth leakage breaker must be installed.

If the earth leakage breaker is not installed, it can cause electric shocks.

 Use the circuit breaker of correct capacity. Circuit breaker should be the one that disconnect all poles under over current.

Using the incorrect one could cause the system failure and fire.

 Do not use any materials other than a fuse of correct capacity where a fuse should be used. Connecting the circuit by wire or copper wire could cause unit failure and fire

 Do not install the indoor unit near the location where there is possibility of flammable gas leakage. If the gas leaks and gathers around the unit, it could cause fire.

 Do not install and use the unit where corrosive gas (such as sulfurous acid gas etc.) or flammable gas (su
as thinner, petroleum etc.) may be generated or accumulated, or volatile flammable substances are handle It could cause the corrosion of heat exchanger, breakage of plastic parts etc. And inflammable gas could cause fire.

 Secure a space for installation, inspection and maintenance specified in the manual. Insufficient space can result in accident such as personal injury due to falling from the installation place

Do not use the indoor unit at the place where water splashes such as laundry. Indoor unit is not waterproof. It could cause electric shock and fire

 Do not use the indoor unit for a special purpose such as food storage, cooling for precision instrument, preservation of animals, plants, and a work of art.

It could cause the damage of the items. Do not install nor use the system near equipments which generate electromagnetic wave or high harmonics. Equipments like inverter equipment, private power generator, high-frequency medical equipment, or telecommunication equipment might influence the air-conditioner and cause a malfunction and breakdown. Or the air conditioner might influence medical equipments or telecommunication equipments, and obstruct their medical activity or cause jamming.

 Do not install the remote control at the direct sunlight. It could cause breakdown or deformation of the remote control.

Do not install the indoor unit at the place listed below.

Places where flammable gas could leak.

Places where carbon fiber, metal powder or any powder is floated. Place where the substances which affect the air conditioner are generated such as sulfide gas, chloride gas, acid, alkali or ammonic atmospheres.

Places exposed to oil mist or steam directly. On vehicles and ships Places where machinery which generates high harmonics is used Places where cosmetics or special sprays are frequently used.

Highly salted area such as beach

Heavy snow area
Places where the system is affected by

smoke from a chimney. Altitude over 1000m

■ Do not install the indoor unit in the locations listed below (Re sure to install the indoor unit

to cording to the installation manual for each model because each indoor unit has each limitation)

Locations with any obstacles which can prevent inlet and Do not install the motion sensor mounting panel at following pi Do not install the motion sensor mounting panel at following place outlet air of the unit It could cause detection error, incapacity of detection, or Locations where vibration can be amplified due to characteristic degradation.

insufficient strength of structure.

Locations where the infrared receiver is exposed to the direct sunlight or the strong light beam. (in case of the Place where static electricity or electromagnetic wave generates

- Place where static electricity or electromagnetic wave generates

- Place where it is exposed to high temperature or humidity for a

infrared specification unit) long period of time. Locations where an equipment affected by high harmonics is . Dusty place or where the lens face could be fouled or damaged placed. (TV set or radio receiver is placed within 5m)

Locations where drainage cannot run off safely.
It can affect performance or function and etc..

Do not put any valuables which will break down by getting wet under the air-conditioner.

on could drop when the relative humidity is higher than 80% or drain pipe is clogged, and it damages user's belongings. Do not use the base frame for the outdoor unit which is corroded or damaged after a long period of use.

It could cause the unit falling down and injury. Pay attention not to damage the drain pan by weld sputter when brazing work is done near the unit.

If sputter entered into the unit during brazing work, it could cause damage (pinhole) of drain pan and leakage of water.

To avoid damaging, keep the indoor unit packed or cover the indoor unit. Install the drain pipe to drain the water surely according to the installation manual.

Improper connection of the drain pipe may cause dropping water into room and damaging user's belongings Be sure to perform air tightness test by pressurizing with nitrogen gas after completed refrigerant piping work. If the density of refrigerant exceeds the limit in the event of refrigerant leakage in the small room, lack of oxygen can

ccur, which can cause serious accidents For drain pipe installation, be sure to make descending slope of greater than 1/100, not to make traps make air-bleeding.

Check if the drainage is correctly done during commissioning and ensure the space for inspection and maintenance

 Ensure the insulation on the pipes for refrigeration circuit so as not to condense water. complete insulation could cause condensation and it would wet ceiling, floor, and any other valuables

 Do not install the outdoor unit where is likely to be a nest for insects and small animals nsects and small animals could come into the electronic components and cause breakdown and fire. Instruct the user to 🚫

 Pay extra attention, carrying the unit by hand. Carry the unit with 2 people if it is heavier than 20kg. Do not use the plastic straps but the grabbing place, moving the unit

y hand. Use protective gloves in order to avoid injury by the aluminum fin Make sure to dispose of the packaging material.

Leaving the materials may cause injury as metals like nail and woods are used in the package Do not operate the system without the air filter.

It may cause the breakdown of the system due to clogging of the heat exchanger. Do not touch any button with wet hands.

 Do not touch the refrigerant piping with bare hands when in operation. The pipe during operation would become very hot or cold according to the operating condition, and it could cause a burn or frostbit

 Do not clean up the air-conditioner with water. t could cause electric shock.

 Do not turn off the power source immediately after stopping the operation Be sure to wait for more than 5 minutes. Otherwise it could cause water leakage or breakdow

 Do not control the operation with the circuit breaker. It could cause fire or water leakage. In addition, the fan may start operation unexpectedly and it may cause injury

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${\Large \textcircled{1}} \textbf{Before installation}$

- ●Install correctly according to the installation manual. When moving the indoor unit, hold only
- Confirm the following points:

OUnit type/Power source specification
OPipes/Wires/Small parts OAccessory items

When moving the indoor unit, hold only the hanging hardware (4 places) only, with care not to apply forces to any other parts of the unit (particularly the refrigerant pipe, drain pipe, and resin parts).

Accessory item

For uni	it hanging		For refrigerant pi	pe	For drain pipe					
Flat washer (M10)	Level gauge	Pipe cover(big)	Pipe cover (small) Strap P		Pipe cover(big)	Pipe cover(small)	Drain hose	Hose clamp		
0	60 00 00 00 00 00					0		8		
8	1	1	1	4	1	1	1	1		
For unit hanging	For unit hight position adjustment and hanging suport	For heat insulation of gas pipe	For heat insulation of liquid tube	For pipe cover fixing	For heat insulation of drain socket	For heat insulation of drain socket	For drain pipe connecting	For drain hose mounting		

2Selection of installation location for the indoor unit

- ① Select the suitable areas to install the unit under approval of the user.
 - Areas where the indoor unit can deliver hot and cold wind sufficiently. Suggest to the user
 to use a circulator if the ceiling height is over 3m to avoid warm air being accumulated on
 the ceiling.
 - In case of the panel having the motion sensor, the installation height must be no higher than 4 m. It could reduce the sensitivity of motion sensor, disabling the detection.
 - · Areas where there is enough space to install and service.
 - Areas where it can be drained properly. Areas where drain pipe descending slope can be taken.
 - Areas where there is no obstruction of air flow on both air return grille and air supply port.
 - · Areas where fire alarm will not be accidentally activated by the air-conditioner.
 - · Areas where the supply air does not short-circuit.
 - · Areas where it is not influenced by draft air.
 - · Areas not exposed to direct sunlight.
 - Areas where dew point is lower than around 28°C and relative humidity is lower than 80%. This indoor unit is tested under the condition of JIS (Japan Industrial Standard) high humidity condition and confirmed there is no problem. However, there is some risk of condensation drop if the air conditioner is operated under the severer condition than mentioned above.

If there is a possibility to use it under such a condition, attach additional insulation of 10 to 20mm thick for entire surface of indoor unit, refrigeration pipe and drain pipe.

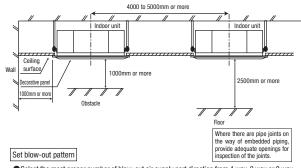
- Areas where TV and radio stays away more than 1m. (It could cause jamming and noise.)
- Areas where any items which will be damaged by getting wet are not placed such as food, table wares, server, or medical equipment under the unit.
- Areas where there is no influence by the heat which cookware generates.
- Areas where not exposed to oil mist, powder and/or steam directly such as above frver.
- Areas where lighting device such as fluorescent light or incandescent light doesn't affect the operation.

(A beam from lighting device sometimes affects the infrared receiver for the wireless remote control and the air-conditioner might not work properly.)

- ②Check if the place where the air-conditioner is installed can hold the weight of the unit. If it is not able to hold, reinforce the structure with boards and beams strong enough to hold it. If the strength is not enough, it could cause injury due to unit falling.
- ③If there are 2 units of wireless type, keep them away for more than 6m to avoid malfunction due to cross communication.
- (4) When plural indoor units are installed nearby, keep them away for more than 4 to 5m.

Space for installation and service

- When it is not possible to keep enough space between indoor unit and wall or between indoor units, close the air supply port where it is not possible to keep space and confirm there is no short-circuit of air flow.
- ●Install the indoor unit at a height of more than 2.5m above the floor.



- Select the most proper number of blow-out air supply port direction from 4 way, 3 way or 2 way
 according to the shape of the room and installation position. (1 way is not available.)
- according to the shape of the room and installation position. (1 way is not available.)

 If it is necessary to change the number of air supply port, prepare the covering materials.

 (sold as accessory)
- •Instruct the user not to use low fan speed when 2 way or 3 way air supply is used.
- Do not use 2 way air supply port under high temperature and humidity environment.
 (Otherwise it could cause condensation and leakage of water.)
- It is possible to set the air flow direction port by port independently. Refer to the user's manual for details.

③Preparation before installation

- If suspension bolt becomes longer, do reinforcement of earthquake resistant.
- OFor grid ceiling

When suspension bolt length is over 500mm, or the gap between the ceiling and roof is over 700mm, apply earthquake resistant brace to the bolt.

Oln case the unit is hanged directly from the slab and is installed on the ceiling plane which has enough strength.

When suspension bolt length is over 1000mm, apply the earthquake resistant brace to the bolt.

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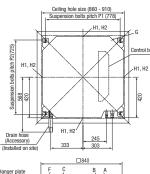
Prepare four (4) sets of suspension bolt, nut and spring washer (M10 or M8) on site.

Ceiling opening, Suspension bolts pitch, Pipe position

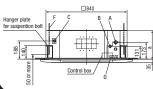
It is possible the suspension bolts pitch to adjust accoding to the this table.

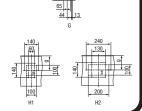
Mark Type	P1	P2
1	770	725-770
2	770-800	725

,0011.011						(mm)
Series	Туре	а	d	f	g	h
gle Split (PAC)	40 to 71 type	236	37	105	88	67
series	100 to 140 type	298	99	167	140	129
VRF (KX)	28 to 71 type	236	37	105	88	67
series	90 to 160 type	298	99	167	140	129





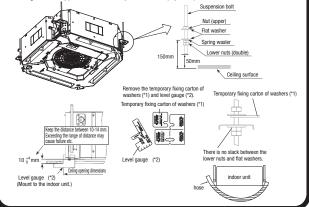




(4) Installation of indoor unit

Work procedure

- 1. Set the suspension bolt length to about 50 mm from the ceiling.
- Temporarily locate the lower nuts of the suspension bolts (4 places) at a position approximately 150 mm from the ceiling.
- Temporarily locate the upper nuts of the suspension bolts (4 places) at positions sufficiently distance from the lower nuts so that they do not interfere with the suspension of the indoor unit and with its height adjustment.
- 4. Set the upper nuts of the suspension bolts and upper washers (4 places) at positions sufficiently distance from the lower nuts. Then, push and insert the temporary fixing carton of washers (*1) onto suspension bolts. Make sure that the upper washers do not slide down.
- 5. Suspend the indoor unit.
- 6. After suspending the indoor unit, mount the level gauge (*2) to the air outlet of the indoor unit, and adjust the suspension height of the indoor unit. Loosen the upper nuts (4 places), and adjust the suspension height using the lower nuts (4 places). Confirm there is no slack between the lower nuts and flat washers of the indoor unit hanger plate (4 places).
- 7. Remove the temporary fixing carton of washers (from all 4 places).
- Make sure that the indoor unit is installed horizontally. Confirm the levelness of the indoor unit using a level gauge or transparent hose filled with water. (Keep the height difference at both ends of the indoor unit within 3 mm.)
- Tighten the upper nuts of the suspension bolts (4 places).



4 Installation of indoor unit (continued)

Protection of the indoor unit

If it is not possible to install the panel for a while or if attaching the ceiling board after installing the indoor unit, protect the indoor unit by using upper carton.



Caution

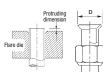
- Do not adjust the unit height by adjusting the upper nuts. Doing so will cause unexpected stress on the indoor unit and cause the unit to become deformed, prevent the panel from being installed, and be generated fan interference noise.
- Make sure that the indoor unit is installed horizontally and set the appropriate gap between the underside of the unit and the ceiling plane. Improper installation may cause air leakage, dew condensation, water leakage and noise.
- Even after the panel has been installed, the unit height can still be finely adjusted. Refer to the panel installation manual for details
- Make sure there is no gap between the panel and the ceiling surface, and between the panel and the indoor unit. Any gap may cause air and/or water to leak, or condensation to

5Refrigerant pipe

- Be sure to use new pipes for the refrigerant pipes. Use the flare nut attached to the product. Regarding whether existing pipes can be reused or not, and the washing method, refer to the instruction n integrating wherein examinations are reused or inc, and use washing iterator, reter to the institution unit, catalogue or technical data.

 1) In case of reuse: Do not use old flare nut, but use the nut attached to the unit.
 2) In case of reuse: Flare the end of pipe replaced partially for R32 or R410A.

 [AWARNING]: When flared joints are reused indoors, the flare part shall be re-fabricated. (only for R32)



		Protruding dimension for flare, mm			
Pipe dia.			utch type)	Flare O.D. Flare nut tightening torq	
mm	mm	For R32 For R410A	Conventional tool	mm N·m	
6.35	0.8			8.9 - 9.1	14 - 18
9.52	0.8			12.8 - 13.2	34 - 42
12.7	0.8	0 - 0.5	0.7 - 1.3	16.2 - 16.6	49 - 61
15.88	1			19.3 - 19.7	68 - 82
19.05	1.2]		23.6 - 24.0	100 - 120

- Use phosphorus deoxidized copper alloy seamless pipe (C1220T) for refrigeration pipe installation. In addition, make sure there is no damage both inside and outside of the pipe, and no harmful substances such as sulfur, oxide, dust or a contaminant stuck on the pipes.
- Do not use any refrigerant other than the designated refrigerant. Using other refrigerant except the designated refrigerant, may degrade inside refrigeration oil. And air getting into refrigeration circuit may cause over-pressure and resultant it may result in bursting, etc.

 Store the copper pipes indoors and seal the both end of them until they are brazed in order to avoid any
- dust, dirt or water getting into pipe. Otherwise it will cause degradation of refrigeration oil and compressor breakdown, etc
- ●Use special tools for R32 or R410A refrigerant

Work procedure

- 1. Remove the flare nut and blind flanges on the pipe of the indoor unit.
 - Make sure to loosen the flare nut with holding the nut on pipe side with a spanner and giving torque to the nut with another spanner in order to avoid unexpected stress to the copper pipe, and then remove them. (Gas may come out at this time, but it is not abnormal.)
- Pay attention whether the flare nut pops out. (as the indoor unit is sometimes pressured.) 2. Make a flare on liquid pipe and gas pipe, and connect the refrigeration pipes on the indoor unit.
 - *Bend radius of pipe must be 4D or larger. Once a pipe is bent, do not readjust the bending. Do not twist a pipe or collapse to 2/3D or smaller.

 • Make sure to use flare nuts assembled on the unions.
 - Usage of other flare nuts could cause refrigerant
 - *Do a flare connection as follows
 - Make sure to hold the nut on indoor unit pipe side using double spanner method as indicated when fastening / loosening flare nuts in order to prevent unintentional twisting of the copper pipe.
 - When fastening the flare nut, align the refrigeration pipe with the center of flare nut, screw the nut for 3-4 times by hand and then tighten it by spanner with the specified torque mentioned in the table above
- Cover the flare connection part of the indoor unit with attached insulation material after a gas leakage inspection, and tighten both ends with attached straps.
 - Make sure to insulate both gas pipes and liquid pipes completely.
 ※Incomplete insulation may cause dew condensation or water dropping.
 Use heat-resistant (120 °C or more) insulations on the gas side pipes.

 - In case of using at high humidity condition, reinforce insulation of refrigerant pipes.
 Surface of insulation may cause dew condition or water dropping, if insulations are not reinfoced
- reinioceu.

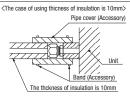
 Refrigerant is charged in the outdoor unit.

 As for the additional refrigerant charge for the indoor unit and piping, refer to the installation manual attached to the outdoor unit.

5 Refrigerant pipe (continued)

Refrigerating machine oil should not be applied to the threads of union or external surface of flare. It is because, even if the same tightening torque is applied, the oil is likely to decrease the slide friction force on the threads and increase, in turn, the axial component force so that it could crack the flare

Refrigerating machine oil may be applied to the internal surface of flare only



Pipe cover (Prepare on site) nd (Accessory) Band (Prepare on site)

Insulation (Prepare on site)

6Drain pipe

Caution

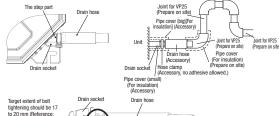
- Install the drain pipe according to the installation manual in order to drain properly.
- Imperfection in draining may cause flood indoors and wetting the household goods, etc.

 Do not put the drain pipe directly into the ditch where toxic gas such as sulfur, the other harmful and inflammable gas is generated. Toxic gas would flow into the room and it would cause serious damage to user's health and safety (some poisoning or deficiency of oxygen). In addition, it may cause corrosion of heat exchanger and bad smell.
- Connect the pipe securely to avoid water leakage from the joint.
- Insulate the pipe properly to avoid condensation drop.
- Check if the water can flow out properly from both the drain outlet on the indoor unit and the end of the drain pipe after installation.
- Make sure to make descending slope of greater than 1/100 and do not make up-down bend and/or trap in the midway. In addition, do not put air vent on the drain pipe. Check if water is drained out properly from the pipe during commissioning. Also, keep sufficient space for inspection and maintenance.

Work procedure

- Make sure that the drain hose (the soft PVC side) is inserted into the end of the step part of the drain socket.
 - Fix the hose clamp so that its bolt is located on the outside of the indoor unit, and the bolt are fastened in a vertical orientation
- Do not apply adhesives on this end.

 Position the hose clamp so that it touches the insulation of the drain hose, and then tighten the bolt.
- Turn the bolt several times until it is securely tightened, but do not tighten it excessively.



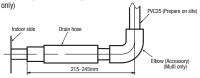


- Prepare a joint for connecting VP25 pipe, adhere and connect the joint to the drain hose (the rigid PVC side), and adhere and connect VP25 pipe (prepare on site). As for drain pipe, apply VP25 made of rigid PVC which is on the market.

 ■ Make sure that the adhesive will not get into the supplied drain hose
 - It may cause the flexible part broken after the adhesive is dried up and gets rigid
 - The flexible drain hose is intended to absorb a small difference at installation of the unit or drain pipes. Intentional bending, expanding may cause the flexible hose broken and water leakage.



As for drain pipe, apply VP25 (0D32).
If apply PVC25 (0D25), connect the expanded connector to the drain hose, with adhesive. (Multi unit only)



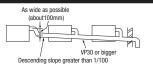
- Make sure to make descending slope of greater than 1/100 and do not make up-down bend
 - and/or trap in the midway.

 Pay attention not to give stress on the pipe on the indoor unit side, and support and fix the pipe as close place to the unit as possible when connecting the drain pipe.
 - Bo nt set up air vent.
 1 5m 2m Supporting metal



6 Drain pipe (continued)

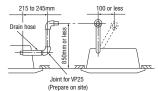
When sharing a drain pipe for more than 1 unit, lay the main pipe 100mm below the drain outlet of the unit. In addition, select VP30 or bigger size for main drain pipe.



- 6. Insulate the drain pipe
 - Be sure to insulate the drain socket and rigid PVC pipe installed indoors otherwise it may cause dew condensation and water leakage.
 - *After drainage test implementation, cover the drain socket part with pipe cover (small size), then use the pipe cover (big size) to cover the pipe cover (small size), clamps and part of the drain hose, and fix and wrap it with tapes to wrap and make joint part gapless.

Drain up

 The position for drain pipe outlet can be raised up to 850mm above the ceiling. Use elbows for installation to avoid obstacles inside ceiling. If the horizontal drain pipe is too long before vertical pipe, the backflow of water will increase when the unit is stopped, and it may cause overflow of water from the drain pan on the indoor unit. In order to avoid overflow, keep the horizontal pipe length and offset of the pipe within the limit shown in the figure

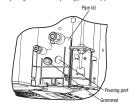


- After installing the drain pipe, make sure that drain system works correctly and that no water leaks from the joint and drain pan. Check whether the motor sound of the drain pump is normal.
- Conduct a drain test when installing, even during the heating season.
 In the case of new buildings, be sure to complete the test before fixing the ceiling.
- Pour about 1,000 cc of test water into the drain pan of the indoor unit. Exercise care not to allow electrical equipment such as the drain pump and other components to become wet while filling water.

Pour test water through the pouring port of the pipe lid using a feed water pump or a similar device, or through the refrigerant pipe joint.







- 2. Make sure that water drains out completely and that no water leaks from any joints of the drain pipe during the test.
 Test to confirm that the water drains out correctly while listening to the drain pump motor operating sound.
- At the drain socket (transparent), it is possible to check whether the water drains out correctly
- Unplug the rubber plug on the indoor unit so that the remaining water drains from the drain pan after the draining test.

After checking the water drainage, fix the rubber plug correctly. Installation work for the drain pipe must be performed for the entire drain pipe up to the indoor unit. If the pipe lid has been removed in order to pour water, mount the pipe lid again.

Drain pump operation

- In case electrical wiring work completed
- Drain pump can be operated by the wired remote control
- For the operation method, refer to Operation for drain pump in the installation manual for wiring work.

 In case electrical wiring work not completed

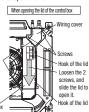
Drain pump will run continuously when the dip switch "SW7-1" on the indoor unit PCB is turned ON, the connector CnB is disconnected, and then the power source (230VAC on the terminal block ① and ②) is turned ON Make sure to turn OFF "SW7-1" and reconnect the connector CnB after the test.

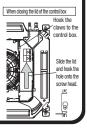
7Wiring-out position and wiring connection

- Electrical installation work must be performed according to the installation manual by an electrical installation service provider qualified by a power provider of the country, and be executed according to the technical standards and other regulations applicable to electrical installation in the country.
- Be sure to use an exclusive circuit.
- Use specified cord, fasten the wiring to the terminal securely, and hold the cord securely in order not to apply unexpected stress on the terminal.
 Do not put both power source line and signal line on the same route. It may cause miscommuni-
- cation and malfunction.
- Be sure to do D type earth work.
 For the details of electrical wiring work, see attached instruction manual for electrical wiring work.
- and remove the lid
- Remove the 2 screws from the wiring cover, and remove the wiring cover. Hold each wire inside the unit, and securely
- fasten them to the terminal block.
 Fix the wiring using clamps.
- Install the wiring cover and the lid of the control box

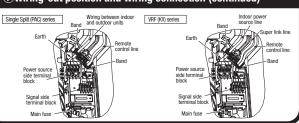


Main fuse specification					
Specification	Part No.	Lid of the			
T3.15A L250V	SSA564A149AF	control box			





(7) Wiring-out position and wiring connection (continued)



®Panel installation

- Install the panel on the indoor unit after electrical wiring work.
- Refer to the attached manual for panel installation for details.

9Check list after installation

Check the following items after all installation work completed.

Check if;	Expected trouble	Check
The indoor and outdoor units are fixed securely?	Falling, vibration, noise	
Inspection for leakage is done?	Insufficient capacity	
Insulation work is properly done?	Water leakage	
Water is drained properly?	Water leakage	
Power source voltage is same as mentioned in the model name plate?	PCB burnt out, not working at all	
There is mis-wiring or mis-connection of piping?	PCB burnt out, not working at all	
Earth wiring is connected properly?	Electric shock	
Cable size comply with specified size?	PCB burnt out, not working at all	
Any obstacle blocks airflow on air inlet and outlet?	Insufficient capacity	

①How to check the dirt of drain pan and cleanimg the inlet of the drain pump. (Maintenance)

The method of checking the dirt of drain pan

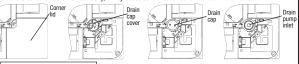
- It is possible to check dirt on the drain pan and drain pump inlet without removing the panel.
- Open the inlet grille and remove the corner lid on the drain pan side.

 Remove the drain cap cover (1 screw) from the panel corner.

 Check the dirt on the drain pan from the drain cap, and check the drain pump inlet. If the
- drain pan is very dirty, remove the drain pan and clean it.

 4. After checking, refix the drain cap cover securely.

If the cover is not refixed correctly, it may cause condensation to form and/or water to leak



Cleaning of drain pump inlet

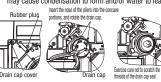
- It is possible to clean the drain pump inlet and surrounding area by removing the drain cap only; it

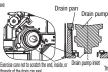
- It is possible to clean the drain pump inlet and surrounding area by removing the drain cap only; it is not necessary to remove the panel and drain pan.
 Before removing the drain cap, remove the rubber plug and drain water from the drain pan.
 1. Remove the drain cap cover as described above.
 2. Insert the nose of the pliers into the concave portions (2 places) of the drain cap, and rotate the pliers about 1 turn in the CCW direction. The drain cap is removed.
 3. When cleaning the drain pump inlet, use a soft plastic tool. If a metallic tool is used, the drain cap mounting portion may be scratched and water may leak.
 4. Before mounting the drain cap, rinse it and remove any foreign material infrom the inside of the cap. If the drain cap is installed with foreign material inside it, it may cause water to leak.
 5. Insert the nose of the pliers into the concave portions of the drain cap and rotate the pliers to install the drain cap botate the drain cap about 1 turn in the CW direction until it stons rotation. If the drain cap is notation is the drain cap in the train cap in the CW direction until it stons rotation. If the drain cap is retain cap is in the CW direction until it stons rotation. If the drain cap is retain cap is in the CW direction until it stons rotation. If the drain cap is retain cap is a stone of the drain cap is retained and the drain cap.
- drain cap. Rotate the drain cap about 1 turn in the CW direction until it stops rotating. If the drain cap is drain cap. Horate the drain cap about 1 turn in the LW direction until istops rotating, if the drain cap is not rotated for 1 or more turns, the cap will not have been installed correctly.

 Remove the drain cap, and then install it again correctly.

 6. After tightening the drain cap, make sure the triangle (A) mark of the drain cap comes close to the triangle mark on the panel, if these triangle marks are not close to each other, tighten the drain cap further.

 7. Refix the drain cap cover and rubber plug securely. If the cover is not refixed correctly, it
- may cause condensation to form and/or water to leak







Notes for removing the drain pan

Before removing the drain pan, drain water from the drain pan. Remove the rubber plug and drain water

The drain pan is installed by the temporary installation plate. Remove the 2 drain pan fixing screws, and loosen the 2 screws of the temporary installation plate. Slide the temporary installation plate. Slide the temporary installation plate to the dustide of the drain pan. And then, it is possible to remove the drain pan.

When reinstalling the drain pan, slide the temporary installation plate to the third pan. And then, it is possible to remove the drain pan. Then, fighten the 2.

drain pan fixing screws and the 2 screws of the temporary installation plate. Also, refix the rubber plug securely,



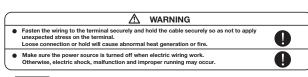




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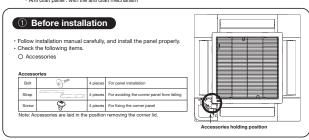
Panel installation

Read this manual together with the indoor unit's installation manual.



Function

The Anti draft panel has the anti draft mechanism. If the Anti draft panel is installed and the anti draft function is set, the anti draft function will be oprerated and reduce the draft feeling. (Refer to Refer to Refe

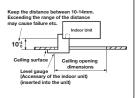


② Checking the indoor unit installation position

- · Read this manual together with the air-conditioner installation manual carefully.
- · Check if the opening size for the indoor unit is correct with the level gauge supplied in the indoor unit.
- Check if the gap between the plane and the indoor unit is correct by inserting the level gauge into the air outlet port of the indoor unit. (See below drawing)
- · Adjust the installation elevation if necessary.
- Remove the level gauge before installing the panel.

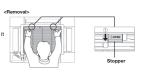
If there is a height difference beyond the design limit between the installation level of the indoor unit and the panel, the panel may be subject to excessive stress during installation and it may cause distortion and damage.

* The installation level of the indoor unit can be adjusted finely from the opening provided on the corner, even after panel is Installed (Refer to Installing the panel In for details.)



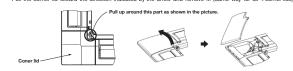
3 Removing the inlet grille

- Hold the stoppers on the inlet grille (2 places) toward OPEN direction, open the inlet grille.
 Remove the hooks of the inlet grille from the panel while it is in the open position.



Removing the corner lid

· Pull the corner lid toward the direction indicated by the arrow and remove it. (Same way for all 4 corner lids)



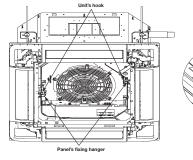
⑤ Orientation of the panel installation Take note that there is an orientation to install the panel. ake note that there is an orientation to install the pane Install the panel with the orientation shown on the rid Align the "PIPE SIDE" mark (on the panel) with the refrigerant pipes on the indoor unit. Align the "DRAIN" mark (on the panel) with the drain pipe on the indoor unit. Ha CAUTION ~~ In case the orientation of the panel is not correct, it will lead to air leakage and also it is not possible to connect the flap motor wiring. 0

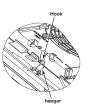
6 Installing the panel

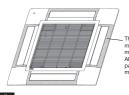
- Temporary hanging

 Lift up the hanger (2 places) on the panel for temporary support.

 Hang the panel on the hook on the indoor unit.







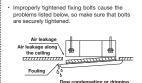
The Anti draft panel moves the parts of the anti draft mechanism (shaded area, 4 places). Note that they may break if they are moved forcibly by hand.

Although the parts (shaded area) of the Standard panel are separate parts from the body, they do not move.

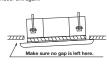
The parts (shaded area), of the anti draft mechanism around the air outlet, are separate parts. Handle the panel with care. Especialy, the shaded area of the Anti draft panel move. Note that they may break if they are moved forcibly by hand.

2. Fix the panel on the indoor unit

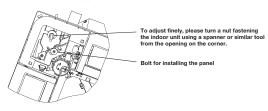
Fasten the panel on the indoor unit with the 4 bolts supplied with the panel.



If there is a gap between the ceiling and the panel even after the fixing botts are tightened, adjust the installation level of the indoor unit again.



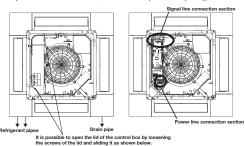
It is possible to adjust the installation height of the indoor unit with the panel installed as long as there is no influence on the drain pipe inclination and/or the indoor unit levelness.



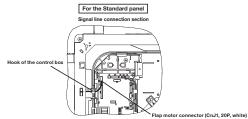
Do not give any stress on the panel when adjusting the height of the indoor unit to avoid unexpected distortion. It may cause the distortion of panel or failing to close the inlet grille, and the parts of the anti draft mechanism.



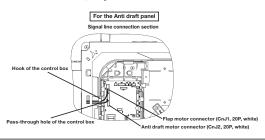
The wiring work varies depending on the panel type. Select the wiring work appropriate for the panel type. The connection positions of the indoor unit are as shown below irrespective of the panel type.



- <For the Standard panel>
 1. Loosen 2 screws on the control box lid of the indoor unit, and remove the lid by sliding it.
 2. Pass the flap motor wiring (20-wire) through the hook of the control box, and connect to CnJ1 (20P, white).
 3. Fix the control box lid of the indoor unit, and tighten 2 screws.

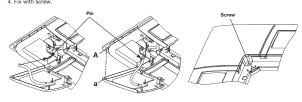


- <For the Anti draft panel>
 1. Loosen 2 screws on the control box lid of the indoor unit, and remove the lid by sliding it.
 2. Pass the flap motor cable (20-wire) through the hook of the control box, and connect to CnJ1 (20P, white).
 3. Pass the anti draft motor cable (20-wire) through the hook of the control box, and connect to CnJ2 (20P, white).
 4. Fix the control box lid of the indoor unit, and tighten the 2 screws.



8 Installing a corner lid

- To avoid unexpected falling of the corner lid, put the strap onto the corner lid's pin with turning the strap up.
 Then hang the strap of a corner lid onto the panel's pin.
 First insert the part "a" of a corner lid into the part "A" of the panel, and then engage 2 hooks.
 Fix with scrape.



9 Installing the inlet grille

To attach the inlet grille, follow the procedure described in Removing the intetgrile in the reverse order.

1. Hang the hooks of the inlet grille in the hole of the panel. (The hooks of the grille can be hanged in 4 side of the panel as following.)

2. After the grille is hanged, close the grille while the stoppers/2 places) on the grille are kept pressed to "OPEN" direction. When the grille comes to the original position, release the stoppers to hold the grille. Make sure to hear the sound of "CLICK" in both stoppers.

- Installing the inlet grille from the hinge side.
 Be careful in the inlet grille Installing, unstable installing may cause grille falling.
 Repair or replace the distorted, broken stopper at once, or the grille falling may occur.

10 Panel setting

<Flap swing range setting (Individual flap cotrol setting)>
It is possible to change the swing range of the flap by the wired remote control. Once the upper and lower limit positions are set, the flap will swing within the set range. It is also possible to set the different range to each flap.

The anti draft function will not be operated if the anti draft panel is installed and its wirings are only connected. To operate the anti draft function, enable the anti draft setting by using the wired or wireless remote control.

Note: It is not possible to set by the following remote control models or older.

Wired:RC-EX1A, RC-E5, RCH-E3 Wireless: RCN-E1R

Once you have enabled the settings in this mode, the anti draft function is operated when the air-conditioner is started, and the parts of the anti draft mechanism are always open when the air-conditioner is operating. When the air-conditioner is stopped, they are closed. It is possible to enabled or disabled the anti draft function for each air outlet.

For the setting details, refer to the user's manual supplied with the remote control.

(2) Ceiling cassette-4 way compact type(FDTC)

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This manual is for the installation of the indoor unit.

For electrical wiring work (Indoor unit), refer to page 194. For remote control installation, refer to page 198. For wireless kit installation, refer to page 357. For electrical wiring work (Outdoor unit) and refrigerant pipe work installation for outdoor unit, refer to page 210. For motion sensor kit installation, refer to page

385. This unit must always be used with the panel.

SAFETY PRECAUTIONS

- Read the "SAFETY PRECAUTIONS" carefully first of all and then strictly follow it during the installation work in order to protect yourself.
- The precautionary items mentioned below are distinguished into two levels, [AWARNING] and [ACAUTION]. [AWARNING]: Wrong installation would cause serious consequences such as injuries or death. ACAUTION: Wrong installation might cause serious consequences depending on circumstances.
- Both mentions the important items to protect your health and safety so strictly follow them by any means. The meanings of "Marks" used here are as shown on the right:
- Never do it under any circumstances. | Always do it according to the instruction. After completing the installation, do commissioning to confirm there are no abnormalities, and explain to the customers about "SAFETY PRECAUTIONS", correct operation method and maintenance method (air filter cleaning, operation method and temperature setting method) with user's manual of this unit. Ask your customers to keep this installation manual together with the user's manual. Also, ask them to hand

⚠ WARNING

- Installation should be performed by the specialist.
- If you install the unit by yourself, it may lead to serious trouble such as water leakage, electric shock, fire, and injury due to overturn of the un
- Install the system correctly according to these installation manuals.
- Improper installation may cause explosion, injury, water leakage, electric shock, and fire • Check the density refered by the foumula (accordance with ISO5149).

over the user's manual to the new user when the owner is changed.

- If the density exceeds the limit density, please consult the dealer and installate the ventilation system
- Use the genuine accessories and the specified parts for installation. If parts unspecified by our company are used it could cause water leakage, electric shock, fire, and injury due to overturn of the unit
- Ventilate the working area well in case the refrigerant leaks during installation.
- If the refrigerant contacts the fire, toxic gas is produced
- In case of R32, the refrigerant could be ignited because of its flammability.
- Install the unit in a location that can hold heavy weight allation may cause the unit to fall leading to
- Install the unit properly in order to be able to withstand strong winds such as typhoons, and earthquakes.
- Improper installation may cause the unit to fall leading to accidents
- Do not mix air in to the cooling cycle on installation or removal of the air-conditioner. If air is mixed in, the pressure in the cooling cycle will rise abnormally and may cause explosion and injuries
- Be sure to have the electrical wiring work done by qualified electrical installer, and use exclusive circuit.
- wer source with insufficient capacity and improper work can cause electric shock and fire Use specified wire for electrical wiring, fasten the wiring to the terminal securely, and hold the cable securely in order not to apply unexpected stress on the terminal.
- Loose connections or hold could result in abnormal heat generation or fire • Arrange the electrical wires in the control box properly to prevent them from rising. Fit the lid of the
- services panel property.
- Improper fitting may cause abnormal heat and fire
- Check for refrigerant gas leakage after installation is completed. If the refrigerant gas leaks into the house and comes in contact with a fan heater, a stove, or an oven, toxic gas is produced
- Use the specified pipe, flare nut, and tools for R32 or R410A.
- Using existing parts (R22) could cause the unit failure and serious accident due to explosion of the cooling cycle
- Tighten the flare nut according to the specified method by with torque wrench.
- If the flare nut were tightened with excess torque, it could cause burst and refrigerant leakage after a long perio Do not put the drainage pipe directly into drainage channels where poisonous gases such as sulfide gas can
- Poisonous gases will flow into the room through drainage pipe and seriously affect the user's health and safety. This can also cause the corrosion of the indoor unit and a resultant unit failure or refrigerant leak.
- Connect the pipes for refrigeration circuit securely in installation work before compressor is operated.
- If the compressor is operated when the service valve is open without connecting the pipe, it could cause explosion and injuries due to abnormal high pressure in the system.
- Stop the compressor before removing the pipe after shutting the service valve on pump down work. If the pipe is removed when the compressor is in operation with the service valve open, air would be mixed in the refrigeration circuit and it could cause explosion and injuries due to abnormal high pressure in the cooling cycle.
- Only use prescribed option parts. The installation must be carried out by the qualified installer. If you install the system by yourself, it can cause serious trouble such as water leaks, electric shocks, fire
- Do not repair by yourself. And consult with the dealer about repair.
- Consult the dealer or a specialist about removal of the air-conditioner. 0 Improper installation may cause water leakage, electric shock or fire.
- Turn off the power source during servicing or inspection work.
 - If the power is supplied during servicing or inspection work, it could cause electric shock and injury by the operating far
- Do not run the unit when the panel or protection guard are taken off. Touching the rotating equipment, hot surface, or high voltage section could cause an injury to be caught in the machine, to get burned, or electric shock
- Shut off the nower before electrical wiring work.
- It could cause electric shock, unit failure and improper running

▲ CAUTION

- Perform earth wiring surely.
- Do not connect the earth wiring to the gas pipe, water pipe, lightning rod and telephone earth wiring. Improper earth could cause unit failure and electric shock due to a short-circuit.
- Earth leakage breaker must be installed.
 - If the earth leakage breaker is not installed, it can cause electric shocks.
- Use the circuit breaker of correct capacity. Circuit breaker should be the one that disconnect all poles under over current. sing the incorrect one could cause the system failure and fire.
- Do not use any materials other than a fuse of correct capacity where a fuse should be used.
- Connecting the circuit by wire or copper wire could cause unit failure and fir
- Do not install the indoor unit near the location where there is possibility of flammable gas leakage If the gas leaks and gathers around the unit, it could cause fire.
- Do not install and use the unit where corrosive gas (such as sulfurous acid gas etc.) or flammable gas (such as thinner, petroleum etc.) may be generated or accumulated, or volatile flammable substances are handled. It could cause the corrosion of heat exchanger, breakage of plastic parts etc. And inflammable gas could cause fire.
- Secure a space for installation, inspection and maintenance specified in the manual. Insufficient space can result in accident such as personal injury due to falling from the installation place
- Do not use the indoor unit at the place where water splashes such as laundry. Indoor unit is not waterproof. It could cause electric shock and fire.
- Do not use the indoor unit for a special purpose such as food storage, cooling for precision instrument, preservation of animals, plants, and a work of art.
- It could cause the damage of the items. • Do not install nor use the system near equipments which generate electromagnetic wave or high harmonics.
- Equipments like inverter equipment, private power generator, high-frequency medical equipment, or telecommunication equipment might influence the air-conditioner and cause a malfunction and breakdown. Or the air-conditioner might influence medical equipments or telecommunication equipments, and obstruct their medical activity or cause jamming
- Do not install the remote control at the direct sunlight. It could cause breakdown or deformation of the remote control
- Do not install the indoor unit at the place listed below.

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- Places where flammable gas could leak. Places where carbon fiber, metal powder or any powder is floated. Place where the substances which affect the air conditioner are generated such as suffide gas, chloride gas, acid, alkali or ammonic atmospheres.
- Places exposed to oil mist or steam directly.
- On vehicles and ships Places where machinery which generates high harmonics is used.
- Places where cosmetics or special sprays are frequently used. Highly salted area such as beach. Heavy snow area Places where the system is affect
- smoke from a chimney. Altitude over 1000m
- Do not install the indoor unit in the locations listed below (Re sure to install the indoor unit) coording to the installation manual for each model because each indoor unit has each limitation)
 Locations with any obstacles which can prevent inlet and
 Do not install the motion sensor mounting panel at following p
 - outlet air of the unit Locations where vibration can be amplified due to
 - insufficient strength of structure.

 Locations where the infrared receiver is exposed to the direct sunlight or the strong light beam. (in case of the
- infrared specification unit)
- Do not install the motion sensor mounting panel at following place It could cause detection error, incapacity of detection, or characteristic degradation.

 • Place where vibration is applied to it for a long period of time.
- Place where static electricity or electromagnetic wave generates. Place where it is exposed to high temperature or humidity for a long period of time
- Locations where an equipment affected by high harmonics is Dusty place or where the lens face could be fouled or damaged. placed. (TV set or radio receiver is placed within 5m)
 Locations where drainage cannot run off safely.
 t can affect performance or function and etc..
- Do not put any valuables which will break down by getting wet under the air-conditioner
- tion could drop when the relative humidity is higher than 80% or drain pipe is clogged, and it dat
- Do not use the base frame for the outdoor unit which is corroded or damaged after a long period of use. It could cause the unit falling down and injury.
- Pay attention not to damage the drain pan by weld sputter when brazing work is done near the unit. If sputter entered into the unit during brazing work, it could cause damage (pinhole) of drain pan and leakage of water. To avoid damaging, keep the indoor unit packed or cover the indoor unit.
- Install the drain pipe to drain the water surely according to the installation manual.
- Improper connection of the drain pipe may cause dropping water into room and damaging user's belonging Be sure to perform air tightness test by pressurizing with nitrogen gas after completed refrigerant piping work If the density of refrigerant exceeds the limit in the event of refrigerant leakage in the small room, lack of oxygen can
- occur, which can cause serious accidents • For drain pipe installation, be sure to make descending slope of greater than 1/100, not to make traps and not to make air-bleeding.
- Check if the drainage is correctly done during commissioning and ensure the space for inspection and maintenanc Ensure the insulation on the pipes for refrigeration circuit so as not to condense water.
- ncomplete insulation could cause condensation and it would wet ceiling, floor, and any other valuables • Do not install the outdoor unit where is likely to be a nest for insects and small animals.
- ects and small animals could come into the electronic components and cause breakdown and fire. Instruct the user to 🦯 keep the surroundings clean Pay extra attention, carrying the unit by hand.
- Carry the unit with 2 people if it is heavier than 20kg. Do not use the plastic straps but the grabbing place, moving the unit by hand. Use protective gloves in order to avoid injury by the aluminum fin.
- Make sure to dispose of the packaging material eaving the materials may cause injury as metals like nail at Do not operate the system without the air filter.
- It may cause the breakdown of the system due to clogging of the heat exchange Do not touch any button with wet hands.
- It could cause electric shock
- Do not touch the refrigerant piping with bare hands when in operation. The pipe during operation would become very hot or cold according to the operating condition, and it could cause a burn or frostbit
- Do not clean up the air-conditioner with water.
- It could cause electric shock. Do not turn off the power source immediately after stopping the operation.
- Be sure to wait for more than 5 minutes. Otherwise it could cause water leakage or breakdo
- It could cause fire or water leakage. In addition, the fan may start operation unexpectedly and it may cause injury
- Do not control the operation with the circuit breaker.

1Before installation

- •Install correctly according to the installation manual. When moving the indoor unit, hold only
- Confirm the following points:

OUnit type/Power source specification

OPipes/Wires/Small parts OAccessory items

Accessory item

when moving the indoor unit, note only the hanging hardware (4 places) only, with care not to apply forces to any other parts of the unit (particularly the refrigerant pipe, drain pipe, and resin parts).

For un	it hanging		For refrigerant pi	pe		For dra	in pipe	
Flat washer (M10)	Level gauge	Pipe cover(big)	Pipe cover (small)	Strap	Pipe cover(big)	Pipe cover(small)	Drain hose	Hose clamp
0)						0		6
8	1	1	1	4	1	1	1	1
For unit hanging	For unit hight position adjustment and hanging suport	For heat insulation of gas pipe	For heat insulation of liquid tube	For pipe cover fixing	For heat insulation of drain socket	For heat insulation of drain socket	For drain pipe connecting	For drain hose mounting

2 Selection of installation location for the indoor unit

- ① Select the suitable areas to install the unit under approval of the user.
- Areas where the indoor unit can deliver hot and cold wind sufficiently. Suggest to the user to use
 a circulator if the ceiling height is over 3m to avoid warm air being accumulated on the ceiling.
- In case of the panel having the motion sensor, the installation height must be no higher than 4 m. It could reduce the sensitivity of motion sensor, disabling the detection.
- · Areas where there is enough space to install and service.
- Areas where it can be drained properly. Areas where drain pipe descending slope can be taken.
- · Areas where there is no obstruction of air flow on both air return grille and air supply port.
- Areas where fire alarm will not be accidentally activated by the air-conditioner.
- · Areas where the supply air does not short-circuit.
- · Areas where it is not influenced by draft air.
- Areas not exposed to direct sunlight.
- Areas where dew point is lower than around 28°C and relative humidity is lower than 80%
 This indoor unit is tested under the condition of JIS (Japan Industrial Standard) high humidity condition and confirmed there is no problem. However, there is some risk of condensation drop if the air-conditioner is operated under the severer condition than mentioned above. If there is a possibility to use it under such a condition, attach additional insulation of 10 to 20mm thick for entire surface of indoor unit, refrigeration pipe and drain pipe.
- Areas where TV and radio stays away more than Tm. (It could cause jamming and noise.)
 Areas where any items which will be damaged by getting wet are not placed such as food, table wares, server, or medical equipment under the unit.
- · Areas where there is no influence by the heat which cookware generates
- Areas where not exposed to oil mist, powder and/or steam directly such as above fryer.

 Areas where Not exposed to oil mist, powder and/or steam directly such as above fryer.

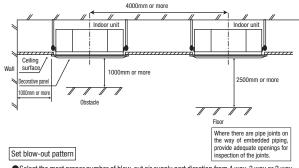
 Areas where Not exposed to oil mist, powder and/or steam directly such as above fryer.
- Areas where lighting device such as fluorescent light or incandescent light doesn't affect the operation

(A beam from lighting device sometimes affects the infrared receiver for the wireless remote control and the air-conditioner might not work properly.)

- ②Check if the place where the air-conditioner is installed can hold the weight of the unit. If it is not able to hold, reinforce the structure with boards and beams strong enough to hold it. If the strength is not enough, it could cause injury due to unit falling.
- 3 If there are 2 units of wireless type, keep them away for more than 6m to avoid malfunction due to cross communication.
- ④When plural indoor units are installed nearby, keep them away for more than 4m.

Space for installation and service

- When it is not possible to keep enough space between indoor unit and wall or between indoor units, close the air supply port where it is not possible to keep space and confirm there is no short-circuit of air flow.
- ●Install the indoor unit at a height of more than 2.5m above the floor.



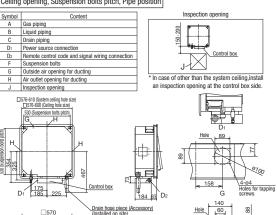
- Select the most proper number of blow-out air supply port direction from 4 way, 3 way or 2 way
 according to the shape of the room and installation position. (1 way is not available.)
- If it is necessary to change the number of air supply port, prepare the covering materials.
 (sold as accessory)
- ●Instruct the user not to use low fan speed when 2way or 3way air supply is used.
- Do not use 2way air supply port under high temperature and humidity environment.
 (Otherwise it could cause condensation and leakage of water)
- It is possible to set the air flow direction port by port independently. Refer to tne user's manual for details.

3Preparation before installation

- If suspension bolt becomes longer, do reinforcement of earthquake resistant.
 OFor grid ceiling
 - When suspension bolt length is over 500mm, or the gap between the ceiling and roof is over 700mm, apply earthquake resistant brace to the bolt.
 - Oln case the unit is hanged directly from the slab and is installed on the ceiling plane which has enough strength.
- When suspension bolt length is over 1000mm, apply the earthquake resistant brace to the bolt.

 Prepare four (4) sets of suspension bolt, nut and spring washer (M10 or M8) on site.

Ceiling opening, Suspension bolts pitch, Pipe position



(4) Installation of indoor unit

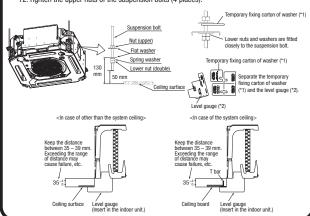
Work procedure

This unit is designed to install on a system ceiling.
 If necessary, remove T bars temporarily before installing the unit.
 When it is installed on a ceiling other than the system ceiling, install an inspection port at the control hox side.

100

6-ø4 Holes for tapping

- Determine the position of suspension bolts (530 mm × 530 mm).
- Use 4 suspension bolts, and fix them such that each bolt can withstand a pull-out load of 500 N.
- Set the suspension bolt length to about 50 mm from the ceiling.
- Temporarily locate the lower nuts of the suspension bolts (4 places) at a position approximately 130 mm from the ceiling.
- Temporarily locate the upper nuts of the suspension bolts (4 places) at positions sufficiently distance from the lower nuts so that they do not interfere with the suspension of the indoor unit and with its height adjustment.
- 7. Set the upper nuts of the suspension bolts and upper washers (4 places) at positions sufficiently distance from the lower nuts. Then, push and insert the temporary fixing carton of washers (*1) onto suspension bolts. Make sure that the upper washers do not slide down.
- Suspend the indoor unit.
- 9. After suspending the indoor unit, mount the level gauge (*2) to the air outlet of the indoor unit, and adjust the suspension height of the indoor unit. Loosen the upper nuts (4 places), and adjust the suspension height using the lower nuts (4 places). Confirm there is no slack between the lower nuts and flat washers of the indoor unit hancer plate (4 places).
- 10. Remove the temporary fixing carton of washers (from all 4 places).
- 11. Make sure that the indoor unit is installed horizontally. Confirm the levelness of the indoor unit using a level gauge or transparent hose filled with water.
- (Keep the height difference at both ends of the indoor unit within 3 mm.) 12. Tighten the upper nuts of the suspension bolts (4 places).



4 Installation of indoor unit (continued)

Protection of the indoor unit

If it is not possible to install the panel for a while or if attaching the ceiling board after installing the indoor unit, protect the indoor unit by using upper carton



Caution

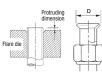
- Do not adjust the unit height by adjusting the upper nuts. Doing so will cause unexpected stress on the indoor unit and cause the unit to become deformed, prevent the panel from being installed, and be generated fan interference noise.
- Make sure that the indoor unit is installed horizontally and set the appropriate gap between the underside of the unit and the ceiling plane. Improper installation may cause air leakage. dew condensation, water leakage and noise.
- Make sure there is no gap between the panel and the ceiling surface, and between the panel and the indoor unit. Any gap may cause air and/or water to leak, or condensation to form.

5Refrigerant pipe

Caution

- Be sure to use new pipes for the refrigerant pipes. Use the flare nut attached to the product. Regarding whether existing pipes can be reused or not, and the washing method, refr unit, catalogue or technical data.

 1) In case of reuse: Do not use old flare nut, but use the nut attached to the unit.
 - 2) In case of reuse: Flare the end of pipe replaced partially for R32 or R410A.



Pipe		Protruding dimer	ision for flare, mm		
diameter	Min. pipe wall thickness	Rigid (CI	utch type)	Flare O.D.	Flare nut tightening torque
d mm	mm	For R32 For R410A			N-m
6.35	0.8			8.9 - 9.1	14 - 18
9.52	0.8	0 - 0.5		12.8 - 13.2	34 - 42
12.7	0.8		0.7 - 1.3	16.2 - 16.6	49 - 61
15.88	1			19.3 - 19.7	68 - 82
19.05	1.2			23.6 - 24.0	100 - 120

- Use phosphorus deoxidized copper alloy seamless pipe (C1220T) for refrigeration pipe installation In addition, make sure there is no damage both inside and outside of the pipe, and no harmful substances such as sulfur, oxide, dust or a contaminant stuck on the pipes.
- Do not use any refrigerant other than the designated refrigerant. Using other refrigerant except the designated refrigerant, may degrade inside refrigeration oil. And air
- getting into refrigeration circuit may cause over-pressure and resultant it may result in bursting, etc.

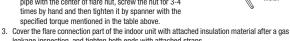
 Store the copper pipes indoors and seal the both end of them until they are brazed in order to avoid any dust, dirt or water getting into pipe. Otherwise it will cause degradation of refrigeration oil and compressor breakdown etc.
- Use special tools for R32 or R410A refrigerant

Work procedure

- 1. Remove the flare nut and blind flanges on the pipe of the indoor unit.
 - * Make sure to loosen the flare nut with holding the nut on pipe side with a spanner and giving torque to the nut with another spanner in order to avoid unexpected stress to the copper pipe, and then remove them. (Gas may come out at this time, but it is not abnormal.)
- Pay attention whether the flare nut pops out. (as the indoor unit is sometimes pressured.)
- 2. Make a flare on liquid pipe and gas pipe, and connect the refrigeration pipes on the indoor unit. *Bend radius of pipe must be 4D or larger. Once a pipe is bent, do not readjust the bending Do not twist a pipe or collapse to 2/3D or smaller.
 - Make sure to use flare nuts assembled on the unions. Usage of other flare nuts could cause refrigerant
 - *Do a flare connection as follows:

manual attached to the outdoor unit.

- Make sure to hold the nut on indoor unit pipe side using double spanner method as indicated when fastening / loosening flare nuts in order to prevent unintentional twisting of the copper pipe.
- When fastening the flare nut, align the refrigeration pipe with the center of flare nut, screw the nut for 3-4 times by hand and then tighten it by spanner with the specified torque mentioned in the table above.



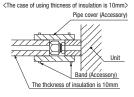
- leakage inspection, and tighten both ends with attached straps.
 - Make sure to insulate both gas pipes and liquid pipes completely Incomplete insulation may cause dew condensation or water dropping.
 - Use heat-resistant (120 °C or more) insulations on the gas side pipe
 - In case of using at high humidity condition, reinforce insulation of refrigerant pipes. Surface of insulation may cause dew condition or water dropping, if insulations are not
- reinfoced. Refrigerant is charged in the outdoor unit. As for the additional refrigerant charge for the indoor unit and piping, refer to the installation

5Refrigerant pipe (continued)

Caution

Refrigerating machine oil should not be applied to the threads of union or external surface of flare. It is because, even if the same tightening torque is applied, the oil is likely to decrease the slide friction force on the threads and increase, in turn, the axial component force so that it could crack the flare by the stress corrosion.

Refrigerating machine oil may be applied to the internal surface of flare only



<The case of using reinfoced insulation> Pipe cover (Prepare on site) Unit Band (Prepare on site) Insulation (Prepare on site)

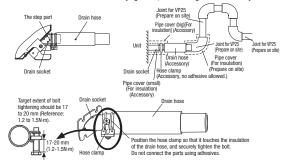
6 Drain pipe

Caution

- Install the drain pipe according to the installation manual in order to drain properly.
 Imperfection in draining may cause flood indoors and wetting the household goods,etc.
- Do not put the drain pipe directly into the ditch where toxic gas such as sulfur, the other harmful and inflammable gas is generated. Toxic gas would flow into the room and it would cause serious damage to user's health and safety (some poisoning or deficiency of oxygen). In addition, it may cause corrosion of heat exchanger and bad smell.
- Connect the pipe securely to avoid water leakage from the joint.
- Insulate the pipe properly to avoid condensation drop.
 Check if the water can flow out properly from both the drain outlet on the indoor unit and the end of the drain pipe after installation.
- Make sure to make descending slope of greater than 1/100 and do not make up-down bend and/or trap in the midway. In addition, do not put air vent on the drain pipe. Check if water is drained out properly from the pipe during commissioning. Also, keep sufficient space for inspection and maintenance.

Work procedure

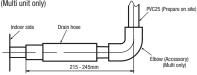
- 1. Make sure that the drain hose (the soft PVC side) is inserted into the end of the step part of the
 - Fix the hose clamp so that its bolt is located on the outside of the indoor unit, and the bolt are fastened in a vertical orientation.
- Do not apply adhesives on this end.
- Position the hose clamp so that it touches the insulation of the drain hose, and then tighten the bolt. Turn the bolt several times until it is securely tightened, but do not tighten it excessively.



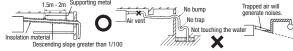
- Prepare a joint for connecting VP25 pine, adhere and connect the joint to the drain hose (the rigid PVC side), and adhere and connect VP25 pipe (prepare on site) *As for drain pipe, apply VP25 made of rigid PVC which is on the market
 - Make sure that the adhesive will not get into the supplied drain hose It may cause the flexible part broken after the adhesive is dried up and gets rigid.
 - The flexible drain hose is intended to absorb a small difference at installation of the unit or drain pipes, Intentional bending, expanding may cause the flexible hose broken and wate



 As for drain pipe, apply VP25 (0D32). If apply PVC25 (0D25), connect the expanded connector to the drain hose, with adhesive. (Multi unit only)

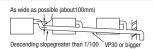


- Make sure to make descending slope of greater than 1/100 and do not make up-down bend and/or trap in the midway.
 - Pay attention not to give stress on the pipe on the indoor unit side, and support and fix the pipe as close place to the unit as possible when connecting the drain pipe
 - Do nt set up air vent.



6 Drain pipe (continued)

When sharing a drain pine for more than 1. unit, lay the main pipe 100mm below the drain outlet of the unit. In addition, select VP30 or bigger size for main drain pipe.

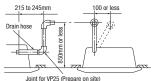


- 6. Insulate the drain pipe
- Be sure to insulate the drain socket and rigid PVC pipe installed indoors otherwise it may cause
 - dew condensation and water leakage.

 After drainage test implementation, cover the drain socket part with pipe cover (small size), then use the pipe cover (big size) to cover the pipe cover (small size), clamps and part of the drain hose, and fix and wrap it with tapes to wrap and make joint part gapless

Drain up

 The position for drain pipe outlet can be raised up to 850mm above the ceiling. Use elbows for installation to avoid obstacles inside ceiling. If the horizontal drain pipe is too long before vertical pipe, the backflow of water will increase when the unit is stopped, and it may cause overflow of water from the drain pan on the indoor unit. In order to avoid overflow, keep the horizontal pipe length and offset of the pipe within the limit shown in the figure below.

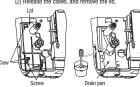


- After installing the drain pipe, make sure that drain system works correctly and that no water leaks from the joint and drain pan. Check whether the motor sound of the drain pump is normal. Conduct a drain test when installing, even during the heating season.
- In the case of new buildings, be sure to complete the test before fixing the ceiling.
 Pour about 1,000 cc of test water into the drain pan of the indoor unit. Exercise care not to
- allow electrical equipment such as the drain pump and other components to become wet while filling water

Pour test water through the pipe lid using a feed water pump or a similar device, or through the refrigerant pipe joint.



 In case of pouring water from the pipe lid (1) Remove screws at 2 places (2) Release the claws, and remove the lid



2. Make sure that water drains out completely and that no water leaks from any joints of the drain pipe during the test.

Test to confirm that the water drains out correctly while listening to the drain pump motor operating sound At the drain socket (transparent), it is possible to check whether the water drains out correctly.

3. Unplug the rubber plug on the indoor unit so that the remaining water drains from the drain

pan after the draining test. After checking the water drainage, fix the rubber plug correctly. Installation work for the drain pipe must be performed for the entire drain pipe up to the indoor unit.

If the pipe lid has been removed in order to pour water, mount the pipe lid again

Drain pump operation

- In case electrical wiring work completed Drain pump can be operated by the wired remote control
 - For the operation method, refer to $\hline \textbf{Operation for drain pump} \ \text{in the installation manual for wiring work}.$
- In case electrical wiring work not completed

Drain pump will run continuously when the dip switch "SW7-1" on the indoor unit PCB is turned ON, the connec-Date of the control o

Wiring-out position and wiring connection

- Electrical installation work must be performed according to the installation manual by an
 electrical installation service provider qualified by a power provider of the country, and be executed according to the technical standards and other regulations applicable to electrical installation in the country.

 Be sure to use an exclusive circuit.

- Be sure to use an exclusive circuit.

 Use specified cord, fasten the wiring to the terminal securely, and hold the cord securely in order not to apply unexpected stress on the terminal.

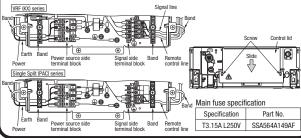
 Do not put both power source line and signal line on the same route. It may cause miscommunication and malfunction.

 Be sure to do D type earth work.

 For the details of electrical wiring work, see attached instruction manual for electrical wiring work.
- Loosen screws (2 pcs.) on the control box of the unit.
 Remove the control lid by sliding it in the arrow direction in the figure.
- Introduce the wiring in the control box, and connect it securely to the terminal block.

 Fix the wiring with bands as shown below.

 Install the control lid, with care not to pinch the wiring, and fix the lid with screws (2 pcs.).



®Panel installation

- Install the panel on the indoor unit after electrical wiring work.
- Refer to the attached manual for panel installation for details.

9 Check list after installation

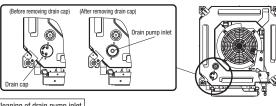
Check the following items after all installation work completed.

Check if;	Expected trouble	Check
The indoor and outdoor units are fixed securely?	Falling, vibration, noise	
Inspection for leakage is done?	Insufficient capacity	
Insulation work is properly done?	Water leakage	
Water is drained properly?	Water leakage	
Power source voltage is same as mentioned in the model name plate?	PCB burnt out, not working at all	
There is mis-wiring or mis-connection of piping?	PCB burnt out, not working at all	
Earth wiring is connected properly?	Electric shock	
Cable size comply with specified size?	PCB burnt out, not working at all	
Any obstacle blocks airflow on air inlet and outlet?	Insufficient capacity	

(10) How to check the dirt of drain pan and cleaning the inlet of the drain pump. (Maintenance)

The method of checking the dirt of drain pan

- 1. Remove the panel according to the installation manual of the panel.
- 2. Check the dirt on the drain pan from the drain cap, and check the drain pump inlet. If the drain pan is very dirty, remove the drain pan and clean it

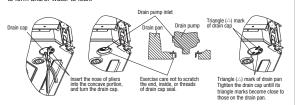


Cleaning of drain pump inlet

- It is possible to clean the drain pump inlet and surrounding area by removing the drain cap only; it is not necessary to remove the drain pan.
- Before removing the drain cap, remove the rubber plug and drain water from the drain pan. 1. Insert the nose of the pliers into the concave portions (2 places) of the drain cap, and rotate
- 2. When cleaning the drain pump inlet, use a soft plastic tool. If a metallic tool is used, the drain cap mounting portion may be scratched and water may leak.

the pliers about 1 turn in the CCW direction. The drain cap is removed

- 3. Before mounting the drain cap, rinse it and remove any foreign material from the inside of the cap. If the drain cap is installed with foreign material inside it, it may cause water to leak.
- 4. Insert the nose of the pliers into the concave portions of the drain cap and rotate the pliers to install the drain cap. Rotate the drain cap about 1 turn in the CW direction until it stops rotating. If the drain cap is not rotated for 1 or more turns, the cap will not have been installed correctly. Remove the drain cap, and then install it again correctly.
- 5. After tightening the drain cap, make sure the triangle (2) mark of the drain cap comes close to the triangle mark on the drain pan. If these triangle marks are not close to each other, tighten the drain cap further.
- 6. Refix the rubber plug securely. If the cover is not refixed correctly, it may cause condensation to form and/or water to leak.



Notes for removing the drain pan

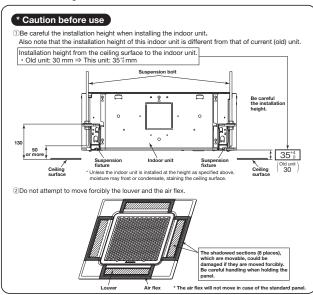
- Before removing the drain pan, drain water from the drain pan. Remove the rubber plug and drain water.
- The drain pan is installed by the temporary installation plate. Remove the 2 drain pan fixing screws, and loosen the 2 screws of the temporary installation plate. Slide the temporary installation plate to the outside of the drain pan. And then, it is possible
- Office the temporary installation plate to the obtained in the training and whether the drain pan. When reinstalling the drain pan, slide the temporary installation plate to the inside and temporarily fix the drain pan. Then, tighten the 2 drain pan fixing screws and the 2 screws of the temporary installation plate. Also, refix the rubber plug securely.



Panel installation

PJF012D503/A

Read this manual together with the indoor unit's installation manual



⚠ WARNING

- Fasten the wiring to the terminal securely and hold the cable securely so as not to apply unexpected stress on the terminal.
 Loose connection or hold will cause abnormal heat generation or fire.
- Make sure the power source is turned off when electric wiring work.

 Otherwise, electric shock, malfunction and improper running may occur.



Function

The draft prevention panel has the draft prevention mechanism. If the draft prevention panel is installed and the draft prevention function is set, the draft prevention function will be operated and reduce the draft feeling. (Refer to (17 Panel setting) for details).

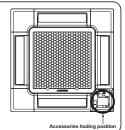
- Standard panel: without the draft prevention mechanism

- Draft prevention panel: with the draft prevention mechanism

Before installation

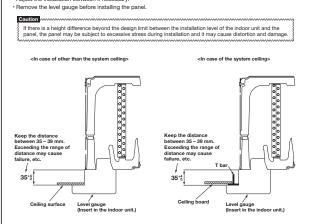
- · Follow installation manual carefully, and install the panel properly.
- Check the following items

Bolt	@ James	4 pieces	For panel installation
Strap		4 pieces	For avoiding the corner panel from falling
Grille hook	~	1 piece	For avoiding the grille from falling
Screw	9	4 pieces	For fixing the corner panel



② Checking the indoor unit installation height

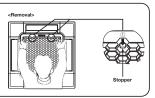
- Read this manual together with the air-conditioner installation manual carefully.
 Check if the opening size for the indoor unit is correct with the level gauge supplied in the indoor unit.
 Check if the gap between the plane and the indoor unit is correct by inserting the level gauge into the air outlet port of the indoor unit. (See below drawing)
- Adjust the installation elevation if necessary



③ Removing the inlet grille

- 1. While placing a finger behind the stopper (2 places) and pressing it in the direction of arrow ①, pull the
- grille downward to open the grille.

 2. Release the hooks of the inlet grille from the panel while it is in the open position.



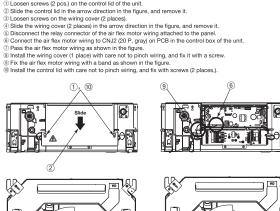
4 Removing the corner lid

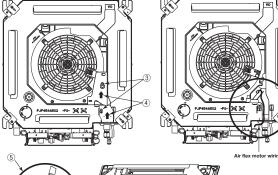
· Pull the corner lid toward the direction indicated by the arrow and remove it. (Same way for all 4 corner lids)

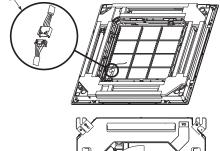


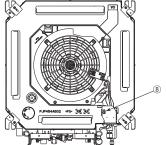
(5) Before installing the panel <Only Draft prevention panel>

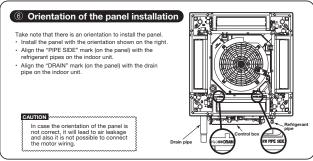
- (1) Loosen screws (2 pcs.) on the control lid of the unit.

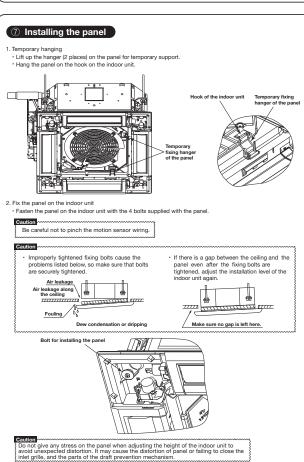










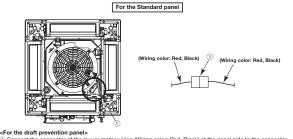


8 Electrical wiring

The wiring work varies depending on the panel type. Select the wiring work appropriate for the panel type.

- CFor the standard panels

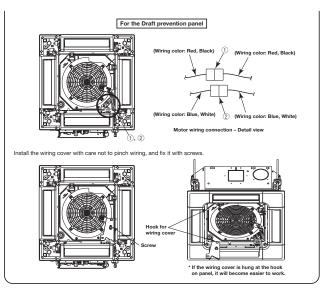
① Connect the connector of the louver motor wiring (Wiring color: Red, Black) at the panel side to the connector CnJ3 (20 P, White) of the louver motor wiring (Wiring color: Red, Black) at the unit side.



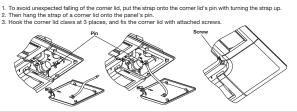
Cror me traits prevention panels:

(i) Connect the connector of the louver motor wiring (Wiring color: Red, Black) at the panel side to the connector CnJ3 (20 P, White) of the louver motor wiring (Wiring color: Red, Black) at the unit side.

(i) Connect the connector of the air flex motor wiring (Wiring color: Blue, White) at the panel side to the connector CnJ4 (20 P, White) of the air flex motor wiring (Wiring color: Blue, White) at the unit side.



9 Installing a corner lid



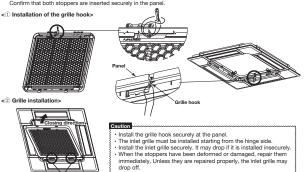
10 Installing the inlet grille

The panel and the inlet grille have no directional limitation to install, (Hinges of the inlet grille can be hooked at any side.) Install the inlet grille in the reverse order of the steps described at Removing the inlet grille.

② Insert the hinges of inlet grille with the panel.

Close then the inlet grille while pressing the stoppers (2 places).

Confirm that both stoppers are inserted securely in the panel.



1 Panel setting

<Louver swing range setting (Individual louver control setting)>

It is possible to change the swing range of the louver by the wired remote control. Once the upper and lower limit positions are set, the louver will swing within the set range. It is also possible to set the different range to each louver will swing within the set range. It is also possible to set the different range to each louver will swing within the set range.

<Draft prevention setting>

The draft prevention function will not be operated if the draft prevention panel is installed and its wirings are only connected. To operate the draft prevention function, enable the draft prevention setting by using the wired or wireless remote control.

Note: It is not possible to set by the following remote control models or older. Wired:RC-EX3, RC-E5, RCH-E3 Wireless: RCN-E1R

Once you have enabled the settings in this mode, the draft prevention function is operated when the air-conditioner is started, and the parts of the draft prevention mechanism are always open when the air-conditioner is operating. When the air-conditioner is stopped, they are closed. It is possible to enabled or disabled the draft prevention function for each air outlet.

For the setting details, refer to the user's manual supplied with the remote control.

FRESH AIR INTAKE (Location for installation) FOR FDTC

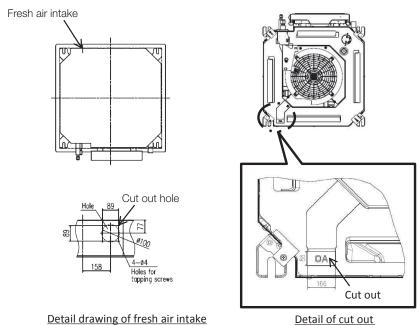
At the time of installation use the duct hole (cut out) located at the positions shown in follwing diagram, as and when required.

(1) Temperature conditions for OA spacer (1)

- Adjust the temperature conditions of mixed air with outdoor air and indoor air within the usage range of suction air temperature for the air-conditioner.
- The usage temperature conditions of intake outdoor air and indoor air around the ducts are shown in the following table.
- If the temperature conditions of intake outdoor air do not satisfy, process the outdoor air before intaking.

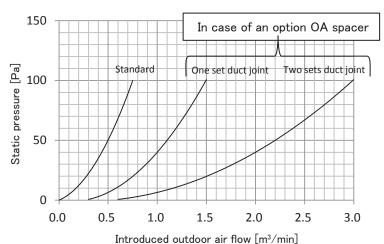
0	Usage temperature conditions		
Operation mode	Intake outdoor air	Indoor air around the ducts	
Heating	5°C DB or higher	18.5°C WB or lower and 60% RH or lower	
Cooling	29°C DB or lower and 80% RH or lower	20°C DB or higher	

Note(1): For the OA spacer, refer to page 407.



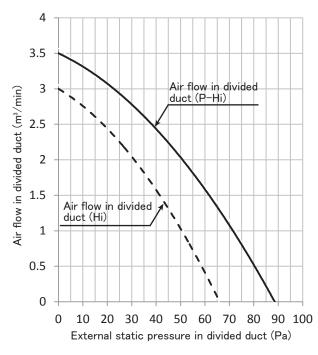
■ Fresh air intake amount & static pressure characteristics

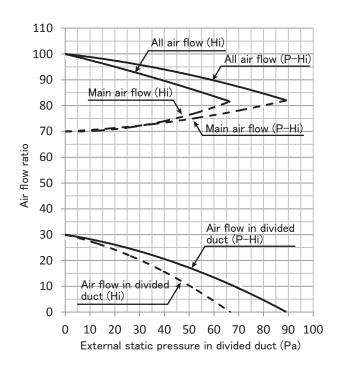
FDTC50, 60VH



CHARACTERISTICS OF AIR FLOW IN DIVIDED DUCT FOR FDTC

Models FDTC50, 60VH





■ Divided duct connection method

- 1. Open some one during 4 knock out holes, and please connect a divided duct. It isn't possible to use more than one hole at the same time.
- 2. Please make the wind shielding a blowout vent or the side where a divided duct was connected.
- 3. The shotage of the external static pressure by pressure loss for a connected divided duct and blowout unit is made up by a booster fan.

example: When $2.5 \,\mathrm{m}^3/\mathrm{min}$ of ventilation by divided duct is needed in model FDTC60VH (In case of connection duct ϕ $125 \,\mathrm{x}\,5\mathrm{m}$)

- ①Duct resistance: Pressure loss by a flexible duct =35Pa (7Pa/m x 5m)
- ②Blowout unit: Pressure loss by a blowout unit =10Pa
- ③External static pressure when being 2.5m³/min =17Pa (See upper table.)
- \Rightarrow Correspondence by a booster fan =1+2-3 =28Pa

(3) Duct connected-High static pressure type (FDU)

(a) Indoor unit

- This munual is for instaration of an indoor unit and an outdoor air processing unit (FDU-F).
 This manual is for the installation of an indoor unit.
- For electrical wiring work (indoor), refer to page 194. For remote control installation, refer to page 198. For wireless kit installation, refer to page 365. For electrical wiring work (Outdoor) and refrigerant pipe work installation for outdoor unit, refer to page 210.

The case of FDU-F

- •The total connection capacity of the other air conditioning units and the outdoor air processing units must be from 50% to 100% (the total includes the outdoor air processing unit) The connection capacity of the outdoor air processing unit must not exceed 30% of the capacity of
- Single outdoor air processing unit can be used alone. The connection capacity of the outdoor air processing unit must be from 50% to 100% of the total capacity of the outdoor unit.

 Maximum number of outdoor air processing units that can be connected to the outdoor unit is
- Capacities of the suction air processing units can be calculated with the forllowing formulas.
 FDU650FKXZE1 = 90, FDU1100FKXZE1 = 140

SAFETY PRECAUTIONS

- Read the "SAFETY PRECAUTIONS" carefully first of all and then strictly follow it during the installation work
- The precautionary items mentioned below are distinguished into two levels, AWARNING and ACAUTION | CAUTION | Wrong installation would cause serious consequences such as injuries or death.
- Both mentions the important items to protect your health and safety so strictly follow them by any means. ■ The meanings of "Marks" used here are as shown on the right:

 | ○ Never do it under any circumstances.
 | ○ ◆ Always do it according to the instruction.
- After completing the installation, do commissioning to confirm there are no abnormalities, and explain to the customers about "SAFETY PRECAUTIONS", correct operation method and maintenance method (air filter cleaning, operation method and temperature setting method) with user's manual of this unit. Ask your customers to keep this installation manual together with the user's manual. Also, ask them to hand over the user's manual to the new user when the owner is changed.

∧ **WARNING**

- Installation should be performed by the specialist.
 - 0 If you install the unit by yourself, it may lead to serious trouble such as water leakage, electric shock, fire, and injury due to overturn
- Install the system correctly according to these installation manuals.
- ation may cause explosion, injury, water leakage, electric shock, and fire Check the density refered by the foundula (accordance with ISO5149)
- If the density exceeds the limit density please consult the dealer and installate the ventilation system
- Use the genuine accessories and the specified parts for installation.
- f parts unspecified by our company are used it could cause water leakage, electric shock, fire, and injury due to overturn of the
- Ventilate the working area well in case the refrigerant leaks during installation. If the refrigerant contacts the fire, toxic gas is produced. In case of R32, the refrigerant could be ignited bec
- Install the unit in a location that can hold heavy weight.
 - moroper installation may cause the unit to fall leading to accidents
- Install the unit properly in order to be able to withstand strong winds such as typhoons, and earthquakes. mproper installation may cause the unit to fall leading to accidents
- Do not mix air in to the cooling cycle on installation or removal of the air-conditioner.
- If air is mixed in, the pressure in the cooling cycle will rise abnormally and may cause explosion and injur Be sure to have the electrical wiring work done by qualified electrical installer, and use exclusive circuit.
- Power source with insufficient capacity and improper work can cause electric shock and fire Use specified wire for electrical wiring, fasten the wiring to the terminal securely, and hold the cable securely
 in order not to apply unexpected stress on the terminal.
- oose connections or hold could result in abnormal heat generation or fire.
- Arrange the electrical wires in the control box properly to prevent them from rising. Fit the lid of the services panel property.
- proper fitting may cause abn
- Check for refrigerant gas leakage after installation is completed. ant gas leaks into the house and comes in contact with a fan heater, a stove, or an oven, toxic gas is produc
- Use the specified pipe, flare nut, and tools for R32 or R410A. ting parts (R22) could cause the unit failure and serious accident due to explosion of the cooling cycle
- Tighten the flare nut according to the specified method by with torque wrench.
- f the flare nut were tightened with excess torque, it could cause burst and refrigerant leakage after a long perio
- Do not put the drainage pipe directly into drainage channels where poisonous gases such as sulfide gas
- Poisonous gases will flow into the room through drainage pipe and seriously affect the user's health and safety. This can also cause the corrosion of the indoor unit and a resultant unit failure or refrigerant leak. Connect the pipes for refrigeration circuit securely in installation work before compressor is operated
- If the compressor is operated when the service valve is open without connecting the pipe, it could cause explosion and injuries due to abnormal high pressure in the system
- Stop the compressor before removing the pipe after shutting the service valve on pump down work. If the pipe is removed when the compressor is in operation with the service valve open, air would be mixed in the refrigeration circuit
- and it could cause explosion and injuries due to abnormal high pressure in the cooling cycle. Only use prescribed option parts. The installation must be carried out by the qualified installer.
- If you install the system by yourself, it can cause serious trouble such as water leaks, electric shocks, fire
- Do not repair by yourself. And consult with the dealer about repair.
- cause water leakage, electric shock or fire Consult the dealer or a specialist about removal of the air-conditioner.
- mproper installation may cause water leakage, electric shock or fire. Turn off the power source during servicing or inspection work.
- If the power is supplied during servicing or inspection work, it could cause electric shock and injury by the operating far
- Do not run the unit when the panel or protection guard are taken off. Touching the rotating equipment, hot surface, or high voltage section could cause an injury to be caught in the machine, to get burned, or electric shock.
- Shut off the power before electrical wiring work.
- It could cause electric shock, unit failure and improper running

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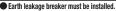
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⚠ CAUTION

Perform earth wiring surely.

Do not connect the earth wiring to the gas pipe, water pipe, lightning rod and telephone earth wiring. Improper earth could cause unit failure and electric shock or fire due to a short circuit



If the earth leakage breaker is not installed, it could cause electric shocks or fire.

 Use the circuit breaker of correct capacity. Circuit breaker should be the one that disconnect all sing the incorrect one could cause the system failure and fire.

Do not use any materials other than a fuse of correct capacity where a fuse should be used. Connecting the circuit by wire or copper wire could cause unit failure and fire.

Do not install the indoor unit near the location where there is possibility of flammable gas leakages If the gas leaks and gathers around the unit, it could cause fire.

 Do not install and use the unit where corrosive gas (such as sulfurous acid gas etc.) or flammable gas (such as thinner, petroleum etc.) may be generated or accumulated, or volatile flammable substances are handled. ould cause the corrosion of heat exchanger, breakage of plastic parts etc. And inflammable gas could cause fire

 Secure a space for installation, inspection and maintenance specified in the manual. sufficient space can result in accident such as personal injury due to falling from the installation place

Do not use the indoor unit at the place where water splashes such as laundry. Indoor unit is not waterproof. It could cause electric shock and fire.

Do not use the indoor unit for a special purpose such as food storage, cooling for precision instrument, preservation of animals, plants, and a work of art.

It could cause the damage of the items.

Do not install nor use the system near equipments which generate electromagnetic wave or high harmonics. Equipments like inverter equipment, private power generator, high-frequency medical equipment, or telecommunication equipment might influence the air-conditioner and cause a malfunction and breakdown. Or the air-conditioner might influence medical equipments or telecommunication equipments, and obstruct their medical activity or cause jamming.

Do not install the remote control at the direct sunlight. t could cause breakdown or deformation of the remote control

Do not install the indoor unit at the place listed below.

Places where flammable gas could leak.

- Places where carbon fiber, metal powder or any powder is floated. Place where the substances which affect the air-onditioner are generated
- such as sulfide gas, chloride gas, acid, alkali or ammonic atmospheres.

 Places exposed to oil mist or steam directly. Solin as James upon the control of t

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- Places where cosmetics or special sprays are frequently used. Highly salted area such as beach.
- Heavy snow area
 Places where the system is affected by smoke from a chimney.
 Altitude over 1000m
- Do not install the indoor unit in the locations listed below (Be sure to install the indoor unit according to the installation manual for each model because each indoor unit has each limitation). Locations with any obstacles which can prevent inlet and outlet
 in the unit places. It could cause detection error, incapacity
 - Locations where vibration can be amplified due to insufficient strength of structure.
- Locations where the infrared receiver is exposed to the direct sunlight or the strong light beam. (in case of the infrared
- specification unit) Locations where an equipment affected by high harmonics is cocations where an equipment anected by high ham placed. (TV set or radio receiver is placed within 5m) Locations where drainage cannot run off safely. can affect performance or function and etc..
- of detection, or characteristic degradation.

 Place where vibration is applied to it for a
- long period of time. Place where static electricity or electromag-
- Place where static electricity or electromag-netic wave generates.

 Place where it is exposed to high temperature or humidity for a long period of time.

 Dusty place or where the lens face could be fouled or damaged.
- Do not put any valuables which will break down by getting wet under the air-conditioner.
 Condensation could drop when the relative humidity is higher than 80% or drain pipe is clogged, and it damages user's belongings.
- Do not use the base frame for the outdoor unit which is corroded or damaged after a long period of use.
- It could cause the unit falling down and injury. Pay attention not to damage the drain pan by weld sputter when brazing work is done near the unit
- If sputter entered into the unit during brazing work, it could cause damage (pinhole) of drain pan and leakage of water. To avoid damaging, keep the indoor unit packed or cover the indoor unit. Install the drain pipe to drain the water surely according to the installation manual
- Improper connection of the drain pipe may cause dropping water into roo Do not share the drain pipe for indoor unit and GHP (Gas Heat Pump system) outdoor unit.
- Toxic exhaust gas would flow into room and it might cause serious damage (some poisoning or deficiency of oxygen) to er's health and safety. Be sure to perform air tightness test by pressurizing with nitrogen gas after completed refrigerant piping work
- If the density of refrigerant exceeds the limit in the event of refrigerant leakage in the small room, lack of oxygen can ccur, which can cause serious accidents
- For drain pipe installation, be sure to make descending slope of greater than 1/100, not to make traps
 and not to make air-bleeding.
- Check if the drainage is correctly done during commissioning and ensure the space for inspection and mainte
- Ensure the insulation on the pipes for refrigeration circuit so as not to condense water. ncomplete insulation could cause condensation and it would wet ceiling, floor, and any other valuables
- Do not install the outdoor unit where is likely to be a nest for insects and small animals. insects and small animals could come into the electronic components and cause breakdown and fire. Instruct the user to
- Pav extra attention, carrying the unit by hand. Carry the unit with 2 people if it is heavier than 20kg. Do not use the plastic straps but the grabbing place, moving the unit
- by hand. Use protective gloves in order to avoid injury by the aluminum fin. Make sure to dispose of the packaging material.
- Leaving the materials may cause injury as metals like nail and woods are used in the package
- Do not operate the system without the air filter.
- It may cause the breakdown of the system due to clogging of the heat exchanger. Do not touch any button with wet hands.
- lacktriangle Do not touch the refrigerant piping with bare hands when in operation.
- The pipe during operation would become very hot or cold according to the operating condition, and it could cause a burn or frost
- Do not clean up the air-conditioner with water It could cause electric shock
- Do not turn off the power source immediately after stopping the operation. Be sure to wait for more than 5 minutes. Otherwise it could cause water leakage or breakdow
- Do not control the operation with the circuit breaker.
- It could cause fire or water leakage. In addition, the fan may start operation unexpectedly and it may cause injury

This model is high static ducted type air-conditioning unit. Therefore, do not use this model for direct

①Before installation Install correctly according to the installation manual. Confirm the following points: Ounit type/Power source specification OPipes/Wires/Small parts OAccessory items Accessory item 0 0 6 6 0

2 Selection of installation location for the indoor unit

- ① Select the suitable areas to install the unit under approval of the user.
 - ·Areas where the indoor unit can deliver hot and cold wind sufficiently. Suggest to the user to use a circulator if the ceiling height is over 3m to avoid warm air being accumulated on the ceiling.
 - ·Areas where there is enough space to install and service. ·Areas where it can be drained properly. Areas where drain pipe descending slope can be taken
 - •Areas where there is no obstruction of air flow on both air return grille and air supply port.
 •Areas where fire alarm will not be accidentally activated by the air-conditioner.

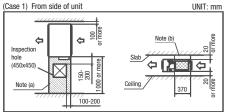
 - ·Areas where the supply air does not short-circuit.
 - Areas where it is not influenced by draft air.
 - ·Areas not exposed to direct sunlight.
 - ·Areas where dew point is lower than around 28°C and relative humidity is lower than 80%. This indoor unit is tested under the condition of JIS (Japan Industrial Standard) high humidity condition and confirmed there is no problem. However, there is some risk of condensation drop if the air-conditioner is operated under the severer condition than mentioned above If there is a possibility to use it under such a condition, attach additional insulation of 10 to
 - 20mm thick for entire surface of indoor unit, refrigeration pipe and drain pipe. Areas where TV and radio stavs away more than 1m. (It could cause iamming and noise.)
 - Areas where any items which will be damaged by getting wet are not placed such as food, table wares, server, or medical equipment under the unit.
 - ·Areas where there is no influence by the heat which cookware generates
 - Areas where not exposed to oil mist, powder and/or steam directly such as above fryer Areas where lighting device such as fluorescent light or incandescent light doesn't affect the operation.
 - (A beam from lighting device sometimes affects the infrared receiver for the wireless remote control and the air-conditioner might not work properly.)

 When operating the suction air processing unit independently, it operates in the outdoor air
 - processing mode.
 - Blowout temperatures are not same at the standard unit operation and the outdoor air processing mode operations.
 - Since the temperatures become higher during cooling or lower during heating, take care of the direction of blowout outlet.
- Avoid directing the blowout outlet to the space where people are present
- (2) Check if the place where the air-conditioner is installed can hold the weight of the unit. If it is not able to hold, reinforce the structure with boards and beams strong enough to hold it. If the strength is not enough, it could cause injury due to unit falling.

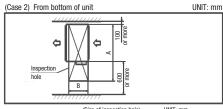
Space for installation and service

Make installation altitude over 2.5m.

Select either of two cases to keep space for installation and services.



Notes (a) There must not be obstacle to draw out fan motor. (marked area) (b) Install refrigerant pipe, drain pipe, and wiring so as not to cross marked area

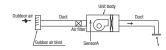


(Size of inspection hole) IINIT: mn - 71 100-140 45, 56 71, 90 112-160 - 650 1100 Single type Multi type FDU-F

1100 1300 620

3 Cautions for the handling and installation place of outdoor air processing unit

This unit monitors the outdoor air temperature at the position of sensor A in the figure, and controls the start and stop with the thermostat based on the value of sensor A and the setting temperature by the remote control.



Remote control's setting temperature indicates the outdoor air temperature that controls the start and stop of operation

When the thermostat is turned off, the operation is changed to the fan mode so that the outdoor air is blown out directly into the room. For example if the remote control is set to 22°C in cooling operation, and if the outdoor air temperature is 22°C or lower at that time, the unit will go into fan operation.

- When there is a difference between the air-conditioning temperature in the room during cooling operation and the temperature of air blown out from the outdoor air processing unit, dewing water may drip from the unit. To prevent the dewing, provide a sufficient heat insulation means at the air blow outlet.
- 3 Since the air blow outlet on the outdoor air processing unit may blow out the outdoor air directly, orient the outlet in such a way that it will not blow air directly to persons in the room.
- (4) Since the unit controls the thermostat start and stop by monitoring the outdoor air temperature, it is prohibited to monitor the room temperature by means of the room temperature monitoring by changing the thermostat setting at the remote control side and the option remote temperature sensor. Otherwise, dewing water may drip from the unit at lower outdoor air temperatures during cooling operation.
- (5) Install the remote control of the outdoor air processing unit at a place closer to the administrator to avoid the end user from using the remote control.

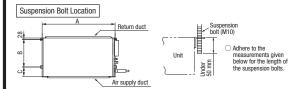
When handing over the unit to the end user, make sure to explain sufficiently about the foregoing cautions, the installation place of the remote control for the outdoor air processing unit and the position of air blow outlet

4 Preparation before installation

- If suspension bolt becomes longer, do reinforcement of earthquake resistant.
- OFor grid ceiling

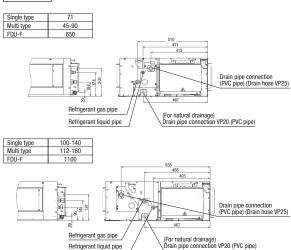
When the suspension bolt length is over 500mm, or the gap between the ceiling and roof is over 700mm, apply earthquake resistant brace to the bolt.

- OIn case the unit is hanged directly from the slab and is installed on the ceiling plane which has enough strength.
- When suspension bolt length is over 1000mm, apply the earthquake resistant brace to the bolt.
- Prepare four (4) sets of suspension bolt, nut and spring washer (M10) on site.



			UNIT: mm
Single type	_	71	100-140
Multi type	45, 56	71, 90	112-160
FDU-F	_	650	1100
A	786	986	1720
В	472	472	725
C	135	135	180

Pipe locations UNIT: mm



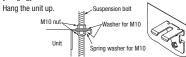
5Installation of indoor unit

Work procedure

- 1. Prepare a hole of specified size on the ceiling.
- 2. Install suspension bolts at specified positions.
- Make sure to use four suspension bolts.
 Adjust the indoor unit position in order to fit with it.
- 4. Agust the moor unit position in order or warms.
 5. Make sure to install the indoor unit horizontally. Confirm the levelness of the indoor unit with a level gauge or transparent hose filled with water. Keep the height difference at both ends of the indoor unit within 3mm.
- 6. Tighten four upper nuts and fix the unit after height and levelness adjustment.

Installation

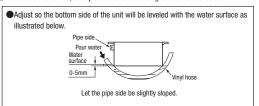
[Hanging]



the unit and the ceiling hole do not match upon installation, it may be adjusted with the long holed installation tool.

Adjustment for horizontality

○Either use a level vial, or adjust the level according to the method below.



Olf the unit is not leveled, it may cause malfunctions or inoperation of the float switch.

6 Duct Work

- ① A corrugated board (for preventing sputtering) is attached to the main body of the air-conditioner (on the outlet port). Do not remove it until connecting the duct.
 - An air filter can be provided on the main body of the air-conditioner (on the inlet port). Remove it when connecting the duct on the inlet port.
- ② Blowout duct
 - Use rectangular duct to connect with unit.
- Duct size for each unit is as shown below

ouon u	iiiit io ao	OHOWH DOIOW.				
				UNIT: mm		
Sing	gle type	_	71	100-140		
Mu	lti type	45, 56	71, 90	112-160		
F	DU-F	_	650	1100		
	A	682	882	1202		
	В	172	172	172		
	A →					
	В	•		200		

- Duct should be at their minimum length.
- •We recommend to use sound and heat insulated duct to prevent it from condensation.
- Connect duct to unit before ceiling attachment.
- - When connecting the duct to the inlet port, remove the air filter if it is fitted to the inlet port.
 - Inlet port size for each unit is as shown below.

			UNIT: mm
Single type	-	71	100-140
Multi Type	45, 56	71, 90	112-160
FDU-F	-	650	1100
A	582	742	1282
D	202	202	227

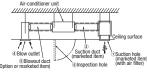


- Make sure to insulate the duct to prevent dewing on it.
- 4 Install the specific blowout duct in a location where the air will circulate to the entire room
- Conduct the installation of the specific blowout hole and the connection of the duct before attaching them to the ceiling.
- Insulate the area where the duct is secured by a band for dew condensation prevention.
- Make sure provide an inspection hole on the ceiling. It is indispensable to service electric equipment, motor, functional components and cleaning of heat exchanger.

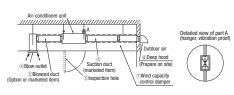
6 Duct Work (continued)

- 6Make sure to insulate ducts, in order to prevent dewing on them.
- **Connect the duct with care not to touch the blower (fan motor) with fingers. Or, when inhaling air directly from the suction side, install an air filter at the air suction inlet.



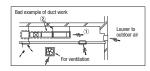


FDU-F



Bad example of duct work

- (1) If a duct is not provided at the suction side but it is substituted with the space over the ceiling. humidity in the space will increase by the influence of capacity of ventilation fan, strength of wind blowing against the out door air louver, weather (rainy day) and others.
 - a)Moisture in air is likely to condense over the external plates of the unit and to drip on the ceiling. Unit should be operated under the conditions as listed in the above table and within the limitation of wind volume. When the building is a concrete structure, especially immediately after the construction, humidity tends to rise even if the space over the ceiling is not substituted in place of a duct. In such occasion, it is necessary to insulate the entire unit with glass wool (25mm). (Use a wire net or equivalent to hold the glass wool in place.)
 - b)It may run out the allowable limit of unit operation (Example, the case of FDU: When outdoor air temperature is 35°CDB, suction air temperature is 27°CWB) and it could result in such troubles as compressor overload, etc...
 - c)There is a possibility that the blow air volume may exceed the allowable range of operation due to the capacity of ventilation fan or strength of wind blowing against external air louver so that drainage from be heat exchanger may fall to reach the drain pan but leak outside (Example: drip on to the ceiling) with consequential water leakage in the room.
- ②If vibration damping is not conducted between the unit and the duct, and between the unit and the slab, vibration will be transmitted to the duct and vibration noise may occur. Also, vibration may be transmitted from the unit to the slab. Vibration damping must be performed.



Connecting the air intake/vent ducts the case of FDU

- 1)Fresh Air Intake
- [for air intake duct only]
- OUse the side fresh air intake hole, or supply through a part of the suction duct.

[for simultaneous air intake/vent] OIntake air through the suction duct. (the side cannot be used)

- (2)Air Vent
 - Ouse the side air vent hole.
 - (always use together with the air intake)

sh air intake through the Û \ Air vent hole - 4 Û Fresh air intake through the suction duct 分 \ Air vent hole Pipe Fresh air intake through the suction duct

Side fresh air intake hole

Olnsulate the duct to protect it from dew condensation

7Refrigerant pipe

Caution

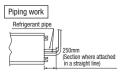
- Be sure to use new pipes for the refrigerant pipes. Use the flare nut attached to the product. Regarding whether existing pipes can be reused or not, and the washing method, refer to the inst outdoor unit, catalogue or technical data.

 1) In case of reuse: Do not use old flare nut, but use the one attached to the unit.
- 2) In case of reuse: Flare the end of pipe replaced partially for R32 or R410A

MARNING : When flared joints are reused indoors, the flare part shall be re-fabricated. (only for R32)



- •Use phosphorus deoxidized copper alloy seamless pipe (C1220T) for refrigeration pipe installation In addition, make sure there is no damage both inside and outside of the pipe, and no harmful substances such as sulfur, oxide, dust or a contaminant stuck on the pipes
- Do not use any refrigerant other than R32 or R410A.
 - Using other refrigerant except R32 or R410A (R22 etc.) may degrade inside refrigeration oil. And air getting into refrigeration circuit may cause over-pressure and resultant it may result in bursting, etc.
- Store the copper pipes indoors and seal the both end of them until they are brazed in order to avoid any dust, dirt or water getting into pipe. Otherwise it will cause degradation of refrigeration oil and compressor breakdown, etc.
- Use special tools for R32 or R410A refrigerant



When conducting piping work, make sure to allow the pipes to be aligned in a straight line for at least 250 mm, as shown in the left illustration. (This is necessary for the drain pump to function)

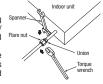
Work procedure

- Remove the flare nut and blind flanges on the pipe of the indoor unit.
 Make sure to loosen the flare nut with holding the nut on pipe side with a spanner and giving torque to the nut with another spanner in order to avoid unexpected stress to the copper pipe, and then remove them. (Gas may come out at this time, but it is not abnormal.)
- Pay attention whether the flare nut pops out. (as the indoor unit is sometimes pressured.)
- 2. Make a flare on liquid pipe and gas pipe, and connect the refrigeration pipes on the indoor unit. **Bend radius of pipe must be 4D or larger. Once a pipe is bent, do not readjust the bending Do not twist a pipe or collapse to 2/3D or smaller.
 - Make sure to use flare nuts assembled on the unions. Usage of other flare nuts could cause refrigerant leakage.

 **Do a flare connection as follows:

 - Make sure to hold the nut on indoor unit pipe side using double spanner method as indicated when fastening / loosening flare nuts in order to prevent unintentional twisting of the copper pipe.

 • When fastening the flare nut, align the refrigeration pipe
 - with the center of flare nut, screw the nut for 3-4 times by hand and then tighten it by spanner with the specified torque mentioned in the table above



- Cover the flare connection part of the indoor unit with attached insulation material after a gas leakage inspection, and tighten both ends with attached straps.
- Make sure to insulate both gas pipes and liquid pipes completely.
 Incomplete insulation may cause dew condensation or water dropping.
- Use heat-resistant (120 °C or more) insulations on the gas side pipes.
 In case of using at high humidity condition, reinforce insulation of refrigerant pipes Surface of insulation may cause dew condition or water dropping, if insulations are not
- Refrigerant is charged in the outdoor unit.

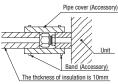
As for the additional refrigerant charge for the indoor unit and piping, refer to the installation manual attached to the outdoor unit.

reinfoced

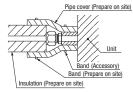
Refrigerating machine oil should not be applied to the threads of union or external surface of flare. It is because, even if the same tightening torque is applied, the oil is likely to decrease the slide friction force on the threads and increase, in turn, the axial component force so that it could crack the flare

Refrigerating machine oil may be applied to the internal surface of flare only

(The case of using thicness of insulation is 10mm)



<The case of using reinfoced insulation>



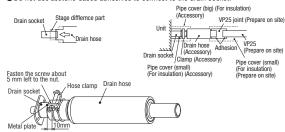
®Drain pipe

Caution

- Install the drain pipe according to the installation manual in order to drain properly. Imperfection in draining may cause flood indoors and wetting the household goods, etc.
- Do not put the drain pipe directly into the ditch where toxic gas such as sulfur, the other harmful and inflammable gas is generated. Toxic gas would flow into the room and it would cause serious damage to user's health and safety (some poisoning or deficiency of oxygen). In addition, it may cause corrosion of heat exchanger and bad smell.
- Connect the pipe securely to avoid water leakage from the joint.
- Insulate the pipe properly to avoid condensation drop.
- Check if the water can flow out properly from both the drain outlet on the indoor unit and the end of the drain pine after installation
- Make sure to make descending slope of greater than 1/100 and do not make up-down bend and/or trap in the midway. In addition, do not put air vent on the drain pipe. Check if water is drained out properly from the pipe during commissioning. Also, keep sufficient space for inspection and maintenance.

Work procedure

- 1. Make sure to insert the drain hose (the end mode of soft PVC) to the end of the step part of drain socket.
 - Attach the hose clamp to the drain hose around 10mm from the end, and fasten the screw about 5mm left to the nut.
 - Do not apply adhesives on this end.
 - Do not use acetone-based adhesives to connect to the drain socket.

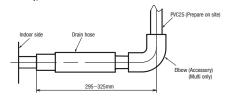


- Prepare a joint for connecting VP25 pipe, adhere and connect the joint to the drain hose (the end made of rigid PVC), and adhere and connect VP25 pipe (prepare on site). *As for drain pipe, apply VP25 made of rigid PVC which is on the market.
- Make sure that the adhesive will not get into the supplied drain hose.
- It may cause the flexible part broken after the adhesive is dried up and gets rigid.
- The flexible drain hose is intended to absorb a small difference at installation of the unit or drain pipes. Intentional bending, expanding may cause the flexible hose broken and water leakage.

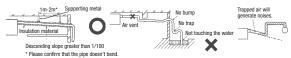


As for drain pipe, apply VP25 (OD32).

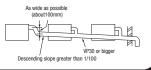
If apply PVC25 (OD25), connect the expanded connector to the drain hose, with adhesive (Multi unit only)



- 3. Make sure to make descending slope of greater than 1/100 and do not make up-down bend and/or trap in the midway.
 - Pay attention not to give stress on the pipe on the indoor unit side, and support and fix the pipe as close place to the unit as possible when connecting the drain pipe
 - Do not set up air vent.



When sharing a drain pipe for more than one unit, lay the main pipe 100mm below the drain outlet of the unit. In addition, select VP30 or bigger size for main drain pipe.

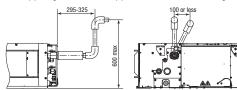


®Drain pipe (continued)

- 4. Insulate the drain pipe.
- Be sure to insulate the drain socket and rigid PVC pipe installed indoors otherwise it may cause dew condensation and water leakage
 - * After drainage test implementation, cover the drain socket part with pipe cover (small size), then use the pipe cover (big size) to cover the pipe cover (small size), clamps and part of the drain hose, and fix and wrap it with tapes to wrap and make joint part gapless.

Drain up

The position for drain pine outlet can be raised up to 600mm above the ceiling. Use elbows. for installation to avoid obstacles inside ceiling. If the horizontal drain pipe is too long before vertical pipe, the backflow of water will increase when the unit is stopped, and it may cause overflow of water from the drain pan on the indoor unit. In order to avoid overflow, keep the horizontal pipe length and offset of the pipe within the limit shown in the figure below

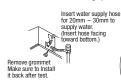


Otherwise, the construction point makes it same as drain pipe construction.

- Conduct a drain test after completion of the electrical work.
- 2. During the trail, make sure that drain flows properly through the piping and that no water leaks from connections
- 3. In case of a new building, conduct the test before it is furnished with the ceiling.
- 4. Be sure to conduct this test even when the unit is installed in the heating season.

Procedures

Supply about 2000 cc of water to the unit through the air outlet by using a feed water pump. 2. Check the drain while cooling operation.



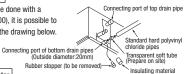


Drain situation can be checked with transparent socket.

If the electrical work has not been completed, connect a convex joint in the drain pipe connection to provide a water inlet. Then, check if water leaks from the piping system and that drain flows through the drain pipe normally.

Outline of bottom drain piping work

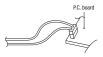
 If the bottom drain piping can be done with a descending gradient (1/50-1/100), it is possible to connect the pipes as shown in the drawing below.



Uncoupling the drain motor connector

 Uncouple the connector CnR for the drain motor as illustrated in the drawing on the right.

Note: If the unit is run with the connector coupled. drain water will be discharged from the upper drain pipe joint, causing a water leak

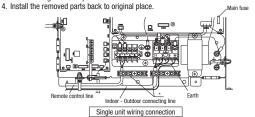


9 Wiring-out position and wiring connection

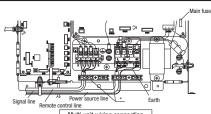
- Electrical installation work must be performed according to the installation manual by an electrical installation service provider qualified by a power provider of the country, and be executed according to the technical standards and other regulations applicable to electrical installation in the country.
- Be sure to use an exclusive circuit. Use specified cord, fasten the wiring to the terminal securely, and hold the cord securely in
- Do not put both power source line and signal line on the same route. It may cause miscommunication and malfunction.
- Be sure to do D type earth work.
 For the details of electrical wiring work, see attached instruction manual for electrical wiring work.
- Remove a lid of the control box (2 screws)
- Hold each wiring inside the unit and fasten them to terminal block securely.

Fix the wiring with clamps.

order not to apply unexpected stress on the terminal.



(9) Wiring-out position and wiring connection (continued)



Multi unit wiring connection

Please fix the wiring in the band not to move even if it pulls.

Model		Specification	Part No.	
FDU	FDU-F	Specification	Part No.	
45-90	650	T 5A L 250V	SSA564A149AH	
112-160	1100	T 6.3A L 250V	SSA564A149AJ	

10 External static pressure setting

Main fuse specification

ou can set External Static Pressure (E.S.P.) by method of MANUAL SETTING on remote control. Idoor unit will control fan-speed to keep rated air flow volume at each fan speed setting (Lo-P-Hi) You can set required E.S.P. by wired remote control that calculated with the set air flow rate and pressure loss of the duct connected.

- How to set E.S.P. by wired remote control
 1 Push "•" marked button(E.S.P. button).
- 2 Select indoor unit No. by using \$\Display\$ button.
- set E.S.P. by button. See detailed procedure in technical manual

You can not set E.S.P. by wireless remote control.

E.S.P. button

With E.S.P. setting, confirm that actual E.S.P. agrees with E.S.P. setting.
When E.S.P. setting is higher than actual E.S.P., the air flow rate becomes excessively higher.
This will cause water leakage if water splashes.
When E.S.P. setting is lower than actual E.S.P., the air flow rate becomes excessively lower and
the cooling or heating may become ineffective.
In order to reduce the risk above the factory E.S.P. setting is set within the range of 80 – 150 Pa
(E.S.P. setting No. 8 – 15). Be sure to use within the range of 80 – 150 Pa in actual operations. If
actual E.S.P. is lower than 80 Pa, it may cause water leakage.

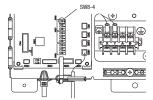
Setting No.	8	9	10	11	12	13	14	15	
E.S.P (Pa)	80	90	100	110	120	130	140	150	

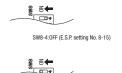
If 1-7 is selected for the setting No. on the remote control, the setting No. shows No. 8. If 16 - 20 is selected for the setting No. on the remote control, the setting No. shows No. 15. Factory default is No. 8

The Case of FDU-F

Setting No.	1	2	3	4	5	6	7	8	9	10	11	12
E.S.P. (Pa)	10	20	30	40	50	60	70	80	90	100	110	120

※ If 13-20 is selected for the setting No. on the remote control, the setting No. shows No. 12. Factory default is No. 8





SW8-4:0N (E.S.P. setting No. 1-19)

If SW8-4 is turned to "ON", E.S.P. setting range can be changed to 10-200 Pa (E.S.P. setting No. 1-19). This should not be used when actual E.S.P. cannot be confirmed, because the risk above

	-																		
Setting No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
E.S.P. (Pa)	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	200

※ If 20 is selected for the setting No. on the remote control, the setting No. shows No. 19.

(1)Check list after installation

Check the following items after all installation work completed.

Check if	Expected trouble	Check
The indoor and outdoor units are fixed securely?	Falling, vibration, noise	
Inspection for leakage is done?	Insufficient capacity	
Insulation work is properly done?	Water leakage	
Water is drained properly?	Water leakage	
Power source voltage is same as mentioned in the model name plate?	PCB burnt out, not working at all	
No mis-wiring or mis-connection of piping?	PCB burnt out, not working at all	
Earth wiring is connected properly?	Electric shock	
Cable size comply with specified size?	PCB burnt out, not working at all	
Any obstacle blocks air flow on air inlet and outlet?	Insufficient capacity	
Is setting of E.S.P finished?	Excessive air flow, water drop blow out	

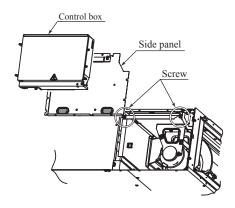
(b) Replacement procedure of the fan unit

Notes(1) The unit is a heavy item. It must be supported securely and handled with care not to drop when it is necessary to replace.

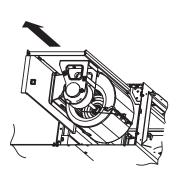
(2) For the maintenance space, refer to page 170.

Models FDU100VH, 125VH, 140VH

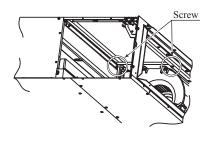
(i) Remove the control box and the side panel, and remove the screws marked in the circles (2 places) from the unit located at the near side.



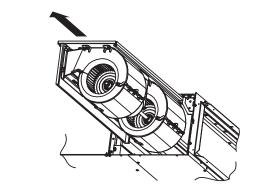
(ii) Take out the fan unit located at the near side in the arrow direction.



(iii) Remove the screws marked in the circles (2 places) from the fan unit located at the far side.



(iv) Take out the fan unit in the arrow direction.



PJG012D021

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(4) Duct connected-Low/Middle static pressure type (FDUM)

(a) Indoor unit

This manual is for the installation of an indoor unit. For electrical wiring work (Indoor), refer to page 194. For remote control installation, refer to page 198. For wireless kit installation, refer to page 365. For electrical wiring work (Outdoor) and refrigerant pipe work installation for outdoor unit, refer to page 210.

SAFETY PRECAUTIONS

- Read the "SAFETY PRECAUTIONS" carefully first of all and then strictly follow it during the installation work in order to protect yourself.
- The precautionary items mentioned below are distinguished into two levels. AWARNING and ACAUTION ACAUTION: Wrong installation might cause serious consequences depending on circumstances Both mentions the important items to protect your health and safety so strictly follow them by any means.
- ●The meanings of "Marks" used here are as shown on the right: Never do it under any circumstances.
- After completing the installation, do commissioning to confirm there are no abnormalities, and explain to the customers about "SAFETY PRECAUTIONS", correct operation method and maintenance method (air filter cleaning, operation method and temperature setting method) with user's manual of this unit. Ask your customers to keep this installation manual together with the user's manual. Also, ask them to hand over the user's manual to the new user when the owner is changed

MARNING

Installation should be performed by the specialist.

If you install the unit by yourself, it may lead to serious trouble such as water leakage, electric shock, fire, and injury due to overturn of the unit

Install the system correctly according to these installation manuals.

Improper installation may cause explosion, injury, water leakage, electric shock, and fire

Check the density refered by the foumula (accordance with ISO5149).

If the density exceeds the limit density, please consult the dealer and installate the ventilation system

•Use the genuine accessories and the specified parts for installation.

f parts unspecified by our company are used it could cause water leakage, electric shock, fire, and injury due to overturn of the unit.

Ventilate the working area well in case the refrigerant leaks during installation.

If the refrigerant contacts the fire, toxic gas is produced

In case of R32, the refrigerant could be ignited because of its flamn

Install the unit in a location that can hold heavy weight. Improper installation may cause the unit to fall leading to accidents

• Install the unit properly in order to be able to withstand strong winds such as typhoons, and earthquakes.

Improper installation may cause the unit to fall leading to accidents

Do not mix air in to the cooling cycle on installation or removal of the air-conditioner

If air is mixed in, the pressure in the cooling cycle will rise abnormally and may cause explosion and injuri

Be sure to have the electrical wiring work done by qualified electrical installer, and use exclusive circuit. Power source with insufficient capacity and improper work can cause electric shock and fire

•Use specified wire for electrical wiring, fasten the wiring to the terminal securely, and hold the cable securely in order not to apply unexpected stress on the terminal.

●Arrange the electrical wires in the control box properly to prevent them from rising. Fit the lid of the services

nproper fitting may cause abnormal heat and fire

s or hold could result in abnormal heat gener

Check for refrigerant gas leakage after installation is completed. If the refrigerant gas leaks into the house and comes in contact with a fan heater, a stove, or an oven, toxic gas is produce

Ouse the specified pipe, flare nut, and tools for R32 or R410A.

Using existing parts (R22) could cause the unit failure and serious accident due to explosion of the cooling cycle $\ensuremath{\bullet}$ Tighten the flare nut according to the specified method by with torque wrench.

If the flare nut were tightened with excess torque, it could cause burst and refrigerant leakage after a long perio

• Do not put the drainage pipe directly into drainage channels where poisonous gases such as sulfide gas car

Poisonous gases will flow into the room through drainage pipe and seriously affect the user's health and safety. This can also cause the corrosion of the indoor unit and a resultant unit failure or refrigerant leak

• Connect the pipes for refrigeration circuit securely in installation work before compressor is operated. or is operated when the service valve is open without connecting the pipe, it could cause explosion and injuries due to abnormal high pressure in the system.

• Stop the compressor before removing the pipe after shutting the service valve on pump down work. If the pipe is removed when the compressor is in operation with the service valve open, air would be mixed in the refrigeration circuit and it could cause explosion and injuries due to abnormal high pressure in the cooling cycle.

• Only use prescribed option parts. The installation must be carried out by the qualified installer.

If you install the system by yourself, it can cause serious trouble such as water leaks, electric shocks, fire

Do not repair by yourself. And consult with the dealer about repair Improper repair may cause water leakage, electric shock or fire

Consult the dealer or a specialist about removal of the air-conditioner. Improper installation may cause water leakage, electric shock or fire

● Turn off the power source during servicing or inspection work.

If the power is supplied during servicing or inspection work, it could cause electric shock and injury by the operating fan Do not run the unit when the panel or protection guard are taken off.

Touching the rotating equipment, hot surface, or high voltage section could cause an injury to be caught in the machine, to get rned, or electric shock.

Shut off the power before electrical wiring work.

It could cause electric shock, unit failure and improper running.

⚠ CAUTION

Perform earth wiring surely.

Do not connect the earth wiring to the gas pipe, water pipe, lightning rod and telephone earth wiring, Improper earth could cause unit failure and electric shock or fire due to a short circuit.

Earth leakage breaker must be installed.

If the earth leakage breaker is not installed, it could cause electric shocks or fire

 Use the circuit breaker of correct capacity. Circuit breaker should be the one that disconnect all Using the incorrect one could cause the system failure and fire

 Do not use any materials other than a fuse of correct capacity where a fuse should be used. Connecting the circuit by wire or copper wire could cause unit failure and fire.

• Do not install the indoor unit near the location where there is possibility of flammable gas leakage: If the gas leaks and gathers around the unit, it could cause fire.

Do not install and use the unit where corrosive gas (such as sulfurous acid gas etc.) or flammable gas (such

Secure a space for installation, inspection and maintenance specified in the manu

• Do not use the indoor unit at the place where water splashes such as laundry.

Do not use the indoor unit for a special purpose such as food storage, cooling for precision

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Do not put any valuables which will break down by getting wet under the air-conditioner.

It could cause the unit falling down and injury.

Install the drain pipe to drain the water surely according to the installation manual.

• Do not share the drain pipe for indoor unit and GHP (Gas Heat Pump system) outdoor unit.

 Be sure to perform air tightness test by pressurizing with nitrogen gas after completed refrigerant piping work If the density of refrigerant exceeds the limit in the event of refrigerant leakage in the small room, lack of oxygen can

and not to make air-bleeding

Pay extra attention, carrying the unit by hand.

Make sure to dispose of the packaging material.

The pipe during operation would become very hot or cold according to the operating condition, and it could

Do not clean up the air-conditioner with water.

It could cause fire or water leakage. In addition, the fan may start operation unexpectedly and it may cause injury.

OThis model is middle static ducted type air conditioning unit. Therefore, do not use this model for direct blow type air conditioning unit.

● Install correctly according to the installation manual. ● Confirm the following points: Ounit type/Power source specification OPipes/Wires/Small parts OAccessory items Accessory item For hanging For refrigerant pipe For refrigerant pipe For drain pipe For hanging Pipe cover (big) Pipe c

2 Selection of installation location for the indoor unit

- $\ensuremath{\textcircled{\scriptsize 1}}$ Select the suitable areas to install the unit under approval of the user.
- Areas where the indoor unit can deliver hot and cold wind sufficiently. Suggest to the user to use a circulator if the ceiling height is over 3m to avoid warm air being accumulated on the ceiling.
- · Areas where there is enough space to install and service.
- Areas where it can be drained properly. Areas where drain pipe descending slope can be taken.
- · Areas where there is no obstruction of air flow on both air return grille and air supply port.
- · Areas where fire alarm will not be accidentally activated by the air-conditioner.
- · Areas where the supply air does not short-circuit.
- · Areas where it is not influenced by draft air.
- · Areas not exposed to direct sunlight.
- Areas where dew point is lower than around 28°C and relative humidity is lower than 80%. This indoor unit is tested under the condition of JIS (Japan Industrial Standard) high humidity condition and confirmed there is no problem. However, there is some risk of condensation drop if the air-conditioner is operated under the severer condition than mentioned above. If there is a possibility to use it under such a condition, attach additional insulation of 10 to 20mm thick for entire surface of indoor unit, refrigeration pipe and drain pipe.
- Areas where TV and radio stays away more than 1m. (It could cause jamming and noise.)
- Areas where any items which will be damaged by getting wet are not placed such as food, table wares, server, or medical equipment under the unit.
- · Areas where there is no influence by the heat which cookware generates.
- Areas where not exposed to oil mist, powder and/or steam directly such as above fryer.
- Areas where lighting device such as fluorescent light or incandescent light doesn't affect the operation.

(A beam from lighting device sometimes affects the infrared receiver for the wireless remote control and the air conditioner might not work properly.)

② Check if the place where the air-conditioner is installed can hold the weight of the unit. If it is

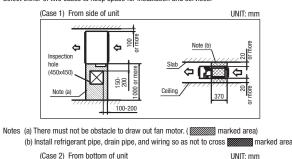
② Check if the place where the air-conditioner is installed can hold the weight of the unit. If it is not able to hold, reinforce the structure with boards and beams strong enough to hold it. If the strength is not enough, it could cause injury due to unit falling.

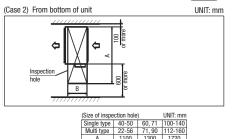
Space for installation and service

Make installation altitude over 2.5m.

(Indoor Unit)

Select either of two cases to keep space for installation and services.





3 Preparation before installation

• If suspension bolt becomes longer, do reinforcement of earthquake resistant.

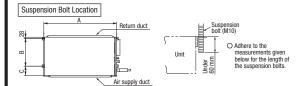
OFor grid ceiling

When the suspension bolt length is over 500mm, or the gap between the ceiling and roof is over 700mm, apply earthquake resistant brace to the bolt.

Oln case the unit is hanged directly from the slab and is installed on the ceiling plane which has enough strength.

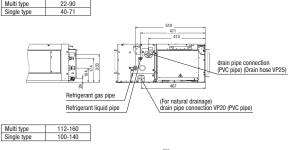
When suspension bolt length is over 1000mm, apply the earthquake resistant brace to the bolt.

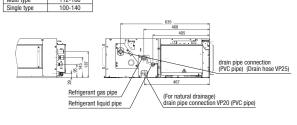
Prepare four (4) sets of suspension bolt, nut and spring washer (M10) on site.

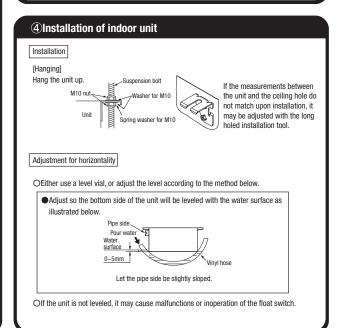


			UNIT: mm
Multi type	22-56	71, 90	112-160
Single type	40-50	60, 71	100-140
Α	786	986	1404
В	472	472	530
С	135	135	180

Pipe locations UNIT: mm







5 Duct Work

- 1) A corrugated board (for preventing sputtering) is attached to the main body of the air-conditione (on the outlet port). Do not remove it until connecting the duct.
- ●An air filter can be provided on the main body of the air-conditioner (on the inlet port). Remove it when connecting the duct on the inlet port

2 Blowout duct

 Use rectangular duct to connect with unit. Duct size for each unit is as shown below.

			UNIT: mm
Single type	40-50	60, 71	100-140
Multi type	22-56	71, 90	112-140
A	682	882	1202
В	172	172	172
В	•	A	

- Duct should be at their minimum length.
- •We recommend to use sound and heat insulated duct to prevent it from condensation.
- Connect duct to unit before ceiling attachment.

3 Inlet port

- When shipped the inlet port lies on the back.
- ●When connecting the duct to the inlet port, remove the air filter if it is fitted to the inlet port.
- •When placing the inlet port to carry out suction from the bottom side, use the following procedure to replace the suction duct joint and the bottom plate.



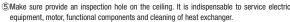
 Remove the screws which fasten the bottom plate and the duct joint on the inlet port side of the unit.

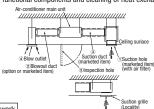


and duct joint.



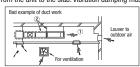
- Fit the duct join with a screw; fit the bottom plate
- Make sure to insulate the duct to prevent dewing on it.
- (4)Install the specific blowout duct in a location where the air will circulate to the entire room.
 - Conduct the installation of the specific blowout hole and the connection of the duct before attaching them to the ceiling.
- Insulate the area where the duct is secured by a band for dew condensation prevention.





Bad example of duct work

- (1) If a duct is not provided at the suction side but it is substituted with the space over the ceiling humidity in the space will increase by the influence of capacity of ventilation fan, strength of wind blowing against the out door air louver, weather (rainy day) and others.
- a)Moisture in air is likely to condense over the external plates of the unit and to drip on the ceiling. Unit should be operated under the conditions as listed in the above table and within the limitation of wind volume. When the building is a concrete structure, especially immediately after the construction, humidity tends to rise even if the space over the ceiling is not substituted in place of a duct. In such occasion, it is necessary to insulate the entire unit with glass wool (25mm). (Use a wire net or equivalent to hold the glass wool in place.)
- b)It may run out the allowable limit of unit operation (Example: When outdoor air temperature is 35°C DB, suction air temperature is 27°C WB) and it could result in such troubles as compressor overload. etc.
- c)There is a possibility that the blow air volume may exceed the allowable range of operation due to the capacity of ventilation fan or strength of wind blowing against external air louver so that drainage from be heat exchanger may fall to reach the drain pan but leak outside (Example: drip on to the ceiling) with consequential water leakage in the room.
- 2)If vibration damping is not conducted between the unit and the duct, and between the unit and the slab, vibration will be transmitted to the duct and vibration noise may occur. Also, vibration may be transmitted from the unit to the slab. Vibration damping must be performed.



5 Duct Work (continued)

Connecting the air intake/vent ducts

1)Fresh Air Intake

[for air intake duct only]

OUse the side fresh air intake hole, or supply through a part of the suction duct.

[for simultaneous air intake/vent] OIntake air through the suction duct (the side cannot be used)

②Air Vent OUse the side air vent hole. (always use together with the air intake)

take through the 分 <u>-</u>6 17 分 Air vent hole = 4

Olnsulate the duct to protect it from dew condensation

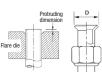
6 Refrigerant pipe

Caution

Blowout

- Be sure to use new pipes for the refrigerant pipes. Use the flare nut attached to the product. Regarding whether existing pipes can be reused or not, and the washing method, refer to the instruction manual of the outdoor unit, catalogue or technical data.
 - I) In case of reuse: Do not use old flare nut, but use the one attached to the unit.
 I) In case of reuse: Flare the end of pipe replaced partially for R32 or R410A.

 $\boxed{\underline{\triangle}\text{WARNING}} : \text{When flared joints are reused indoors, the flare part shall be re-fabricated. (only for R32)}$

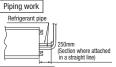


Pipe		Protruding dimer	sion for flare, mm		Flare nut		
diameter	Min. pipe wall thickness	Rigid (CI	utch type)	Flare O.D.	Flare nut tightening torqui N·m		
d mm	mm	For R32 For R410A	Conventional tool	mm			
6.35	0.8	0 - 0.5		8.9 - 9.1	14 - 18		
9.52	0.8			12.8 - 13.2	34 - 42		
12.7	0.8		0.7 - 1.3	16.2 - 16.6	49 - 61		
15.88	1			19.3 - 19.7	68 - 82		
19.05	1.2			23.6 - 24.0	100 - 120		

- Use phosphorus deoxidized copper alloy seamless pipe (C1220T) for refrigeration pipe installation. In addition, make sure there is no damage both inside and outside of the pipe, and no harmful substances such as sulfur, oxide, dust or a contaminant stuck on the pipes.

 Do not use any refrigerant other than R32 or R410A.
- Using other refrigerant except R32 or R410A (R22 etc.) may degrade inside refrigeration oil. And air getting into refrigeration circuit may cause over-pressure and resultant it may result in bursting, etc.

 Store the copper pipes indoors and seal the both end of them until they are brazed in order to avoid any dust, dirt or water getting into pipe. Otherwise it will cause degradation of refrigeration oil and compressor breakdown, etc.
- Use special tools for R32 or R410A refrigerant.



When conducting piping work, make sure to allow the pipes to be aligned in a straight line for at least 250 mm, as shown in the left illustration. (This is necessary for the drain pump

Work procedure

- 1. Remove the flare nut and blind flanges on the pipe of the indoor unit.
- Make sure to loosen the flare nut with holding the nut on pipe side with a spanner and giving torque to the
 nut with another spanner in order to avoid unexpected stress to the copper pipe, and then remove them.
 (Gas may come out at this time, but it is not abnormal.)
 Pay attention whether the flare nut pops out. (as the indoor unit is sometimes pressured.)
- Make a flare on liquid pipe and gas pipe, and connect the refrigeration pipes on the indoor unit. &Bend radius of pipe must be 4D or larger. Once a pipe is bent, do not readjust the bending
 - Do not twist a pipe or collapse to 2/3D or smaller.

 Make sure to use flare nuts assembled on the unions.
 Usage of other flare nuts could cause refrigerant
- *Do a flare connection as follows
- Make sure to hold the nut on indoor unit pipe side using double spanner method as indicated when fastening / loosening flare nuts in order to prevent unintentional twisting of the copper pipe.

 When fastening the flare nut, align the refrigeration pipe
- with the center of flare nut, screw the nut for 3-4 times by hand and then tighten it by spanner with the specified torque mentioned in the table above.
- Cover the flare connection part of the indoor unit with attached insulation material after a gas leakage inspection, and tighten both ends with attached straps.

 Make sure to insulate both gas pipes and liquid pipes completely

- **Incomplete insulation may cause dew condensation or water dropping.

 Use heat-resistant (120 °C or more) insulations on the gas side pipes.

 In case of using at high humidity condition, reinforce insulation of refrigerant pipes.

 Surface of insulation may cause dew condition or water dropping, if insulations are not

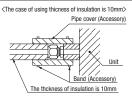
6Refrigerant pipe (continued)

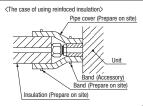
Refrigerant is charged in the outdoor unit.
 As for the additional refrigerant charge for the indoor unit and piping, refer to the installation manual attached to the outdoor unit.

Caution:

Refrigerating machine oil should not be applied to the threads of union or external surface of flare. It is because, even if the same tightening torque is applied, the oil is likely to decrease the slide friction force on the threads and increase, in turn, the axial component force so that it could crack the flare by the stress corrosion.

Refrigerating machine oil may be applied to the internal surface of flare only.





7 Drain pipe

Caution

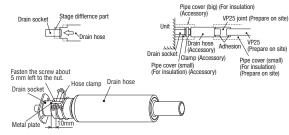
- Install the drain pipe according to the installation manual in order to drain properly.
 Imperfection in draining may cause flood indoors and wetting the household goods, etc.
- Do not put the drain pipe directly into the ditch where toxic gas such as sulfur, the other harmful and inflammable gas is generated. Toxic gas would flow into the room and it would cause serious damage to user's health and safety (some poisoning or deficiency of oxygen). In addition, it may cause corrosion of heat exchanger and bad smell.
- Connect the pipe securely to avoid water leakage from the joint.
- Insulate the pipe properly to avoid condensation drop.
- Check if the water can flow out properly from both the drain outlet on the indoor unit and the end
 of the drain pipe after installation.
- Make sure to make descending slope of greater than 1/100 and do not make up-down bend and/or trap in the midway. In addition, do not put air vent on the drain pipe. Check if water is drained out properly from the pipe during commissioning. Also, keep sufficient space for inspection and maintenance.

Work procedure

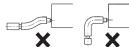
Make sure to insert the drain hose (the end mode of soft PVC) to the end of the step part
of drain socket.

Attach the hose clamp to the drain hose around 10mm from the end, and fasten the screw about 5mm left to the nut.

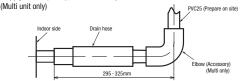
- Do not apply adhesives on this end.
- Do not use acetone-based adhesives to connect to the drain socket.



- Prepare a joint for connecting VP25 pipe, adhere and connect the joint to the drain hose (the end made of rigid PVC), and adhere and connect VP25 pipe (prepare on site).
 XAs for drain pipe, apply VP25 made of rigid PVC which is on the market.
 - Make sure that the adhesive will not get into the supplied drain hose.
 It may cause the flexible part broken after the adhesive is dried up and gets rigid.
 - The flexible drain hose is intended to absorb a small difference at installation of the unit or drain pipes. Intentional bending, expanding may cause the flexible hose broken and water leakage.

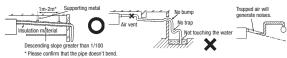


•As for drain pipe, apply VP25 (0D32).
If apply PVC25 (0D25), connect the expanded connector to the drain hose, with adhesive.

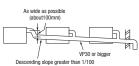


7Drain pipe (continued)

- Make sure to make descending slope of greater than 1/100 and do not make up-down bend and/or trap in the midway.
 - Pay attention not to give stress on the pipe on the indoor unit side, and support and fix the pipe as close place to the unit as possible when connecting the drain pipe.
 - Do not set up air vent.



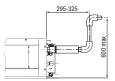
• When sharing a drain pipe for more than one unit, lay the main pipe 100mm below the drain outlet of the unit. In addition, select VP30 or bigger size for main drain pipe.

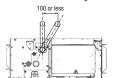


- 4. Insulate the drain pipe.
 - Be sure to insulate the drain socket and rigid PVC pipe installed indoors otherwise it may cause dew condensation and water leakage.
 - After drainage test implementation, cover the drain socket part with pipe cover (small size), then use the pipe cover (big size) to cover the pipe cover (small size), clamps and part of the drain hose, and fix and wrap it with tapes to wrap and make joint part gapless.

Drain up

• The position for drain pipe outlet can be raised up to 600mm above the ceiling. Use elbows for installation to avoid obstacles inside ceiling. If the horizontal drain pipe is too long before vertical pipe, the backflow of water will increase when the unit is stopped, and it may cause overflow of water from the drain pan on the indoor unit. In order to avoid overflow, keep the horizontal pipe length and offset of the pipe within the limit shown in the figure below.





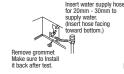
Otherwise, the construction point makes it same as drain pipe construction.

Drain test

- 1. Conduct a drain test after completion of the electrical work.
- 2. During the trail, make sure that drain flows properly through the piping and that no water leaks from connections.
- 3. In case of a new building, conduct the test before it is furnished with the ceiling.
- Be sure to conduct this test even when the unit is installed in the heating season.

Procedures

- Supply about 1000 cc of water to the unit through the air outlet by using a feed water pump.
- Check the drain while cooling operation.

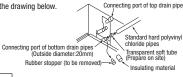




If the electrical work has not been completed, connect a convex joint in the drain pipe connection to provide a water inlet. Then, check if water leaks from the piping system and that drain flows through the drain pipe normally.

Outline of bottom drain piping work

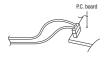
 If the bottom drain piping can be done with a descending gradient (1/50-1/100), it is possible to connect the pipes as shown in the drawing below.



Uncoupling the drain motor connector

 Uncouple the connector CnR for the drain motor as illustrated in the drawing on the right.

Note: If the unit is run with the connector coupled, of drain water will be discharged from the upper drain pipe joint, causing a water leak.



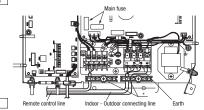
®Wiring-out position and wiring connection

Electrical installation work must be performed according to the installation manual by an
electrical installation service provider qualified by a power provider of the country, and be
executed according to the technical standards and other regulations applicable to electrical
installation in the country.

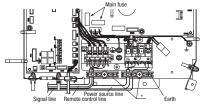
Be sure to use an exclusive circuit.

- Use specified cord, fasten the wiring to the terminal securely, and hold the cord securely in order not to apply unexpected stress on the terminal.
- Do not put both power source line and signal line on the same route. It may cause miscommunication and malfunction.
- Be sure to do D type earth work.
- For the details of electrical wiring work, see attached instruction manual for electrical wiring work.
- 1. Remove a lid of the control box (2 screws).
- 2. Hold each wiring inside the unit and fasten them to terminal block securely.
- 3. Fix the wiring with clamps.
- 4. Install the removed parts back to original place.

Single unit wiring connection



Multi unit wiring connection



* Please fix the wiring in the band not to move even if it p

Main fuse specification	Main	fuse	specification
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Model	Specification	Part No.				
22-56	T3.15A L250V	SSA564A149AF				
71-160	T5A L250V	SSA564A149AH				

You can set External Static Pressure (E.S.P.) by either method of MANUAL SETTING or AUTO-MATIC SETTING by remote control.

Indoor unit will control fan-speed to keep rated air flow volume at each fan speed setting (Lo-Uhi)

1. MANUAL SETTING

You can set required E.S.P. by wired remote control that calculated with the set air flow rate and pressure loss of the duct connected.

Select No.1-10 (10Pa-100Pa) from following table according to calculation result. Refer to technical manual for details of air flow characteristic.

Setting No.	1	2	3	4	5	6	7	8	9	10
External Static Pressure (Pa)	10	20	30	40	50	60	70	80	90	100

- When you set No.11-19 by remote control, unit will control fan-speed with setting of No.10 Factory default is at No.5.
- How to set E.S.P by wired remote control
 - ① Push "

 " marked button(E.S.P button).
 - $\ \ \, \ \ \, \ \ \, \ \ \,$ Select indoor unit No. by using $\ \, \mbox{\Large \clubsuit}$ button.
 - ③ Select setting No. by using **♦** button and set E.S.P. by button. See detailed procedure in technical manual.



You can not set E.S.P. by wireless remote control.



Caution

Be sure to set E.S.P. according to actual duct connected.

Wrong settings causes excessive air flow volume or water drop blown out.

2. AUTOMATIC SETTING

Indoor unit will recognize E.S.P. by itself automatically and select appropriate fan speed No.1-10.

9 External static pressure setting (continued)

- How to start automatic setting
 - ①, ② Same setting as MANUAL SETTING.
 - $\ensuremath{ \ \ }$ Select [AUT] by using $\ensuremath{ \diamondsuit \ }$ button and press $\ensuremath{ \ \ \ \ }$ button .
 - ② After setting E.S.P. at "AUT", operate unit in FAN mode with certain fan speed (Lo-Uhi).

Indoor unit fan will run automatically and recognize E.S.P. by itself.

The operation for automatic E.S.P. recognition will last about 6 minutes, and it will be stopped after recognition is completed.

Caution

- Be sure to execute AUTOMATIC SETTING by remote control AFTER ducting work is completed. When duct specification is changed after AUTOMATIC SETTING, be sure to execute AUTOMATIC SETTING again after power resetting and turning on again.
- · Be sure to execute AUTOMATIC SETTING before trial cooling operation.

 (See ELECTRICAL WIRING WORK INSTRUCTION about trial cooling operation)
- Before AUTOMATIC SETTING, be sure to check that return air filter in duct is installed and damper is opened.

Wrong procedure causes excessive air flow or water drop blown out.

Notice

- During operation for automatic recognition (the Auto Operation), fan rotates with certain speeds regardless of set fan speed by remote control.
- When duct is set with low static pressure (around 10-50Pa), even if indoor unit operate with higher air flow volume than rated one, but it is not abnormal.
- · When you changed operation mode or stop operation with ON/OFF button during Auto Operation, the Auto operation will be canceled.
- · In such case, be sure to execute AUTOMATIC SETTING again according to above procedure.

10 Check list after installation

Check the following items after all installation work completed

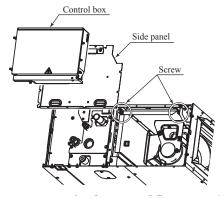
Check if	Expected trouble	Check
The indoor and outdoor units are fixed securely?	Falling, vibration, noise	
Inspection for leakage is done?	Insufficient capacity	
Insulation work is properly done?	Water leakage	
Water is drained properly?	Water leakage	
Power source voltage is same as mentioned in the model name plate?	PCB burnt out, not working at all	
No mis-wiring or mis-connection of piping?	PCB burnt out, not working at all	
Earth wiring is connected properly?	Electric shock	
Cable size comply with specified size?	PCB burnt out, not working at all	
Any obstacle blocks air flow on air inlet and outlet?	Insufficient capacity	
Is setting of E.S.P finished?	Excessive air flow, water drop blow out	

(b) Replacement procedure of the fan unit

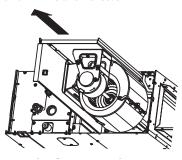
Notes(1) The unit is a heavy item. It must be supported securely and handled with care not to drop when it is necessary to replace. (2) For the maintenance space, refer to page 176.

(i) Model FDUM50VH

1) Remove the control box and the side panel, and remove the screws marked in the circles (2 places) in the figure.

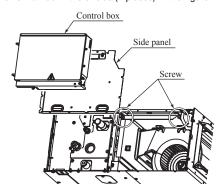


2) Take out the fan unit in the arrow direction.

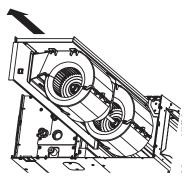


(ii) Models FDUM60VH, 71VH

1) Remove the control box and the side panel, and remove the screws marked in the circles (2 places) in the figure.

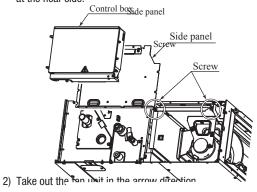


2) Take out the fan unit in the arrow direction.

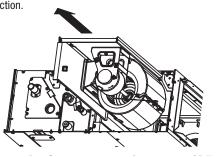


(iii) Models FDUM100VH, 125VH, 140VH

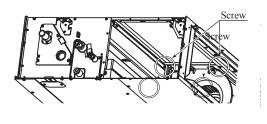
 Remove the control box and the side panel, and remove the screws marked in the circles (2 places) from the unit located at the near side.



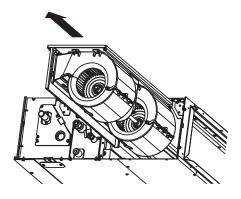
2) Take out the fan unit located at the near side in the arrow direction.



3) Remove the screws marked in the circles (2 places) from the fan unit located at the far side.



4) Take out the fan unit in the arrow direction.



PFA012D636/B

(5) Ceiling suspended type (FDE)

This manual is for the installation of an indoor unit. For electrical wiring work (Indoor), refer to page 194. For remote control installation, refer to page 198. For wireless kit installation, refer to page 373. For electrical wiring work (Outdoor) and refrigerant pipe work installation for outdoor unit, refer to page

SAFETY PRECAUTIONS

- Read the "SAFETY PRECAUTIONS" carefully first of all and then strictly follow it during the installation work in order to protect yourself
- The precautionary items mentioned below are distinguished into two levels.

 ☐ WARNING and ☐ CAUTION <u>AWARNING</u>: Wrong installation would cause serious consequences such as injuries or death. ACAUTION: Wrong installation might cause serious consequences depending on circumstances
- Both mentions the important items to protect your health and safety so strictly follow them by any means. The meanings of "Marks" used here are as shown as follows:
- Never do it under any circumstances.

 Always do it according to the instruction.

 After completing the installation, do commissioning to confirm there are no abnormalities, and explain to the
- customers about "SAFETY PRECAUTIONS", correct operation method and maintenance method (air filter cleaning, operation method and temperature setting method) with user's manual of this unit. Ask your customers to keep this installation manual together with the user's manual. Also, ask them to hand over the user's manual to the new user when the owner is changed.

△ WARNING

Installation should be performed by the specialist.

If you install the unit by yourself, it may lead to serious trouble such as water leakage, electric shock, fire, and injury due to overturn of the unit.

• Install the system correctly according to these installation manuals.

Improper installation may cause explosion, injury, water leakage, electric shock, and fire

• When installing in small rooms, take prevention measures not to exceed the density limit of refrigerant in the event of leakage, referred by the formula (accordance with ISO5149).

If the density of refrigerant exceeds the limit, please consult the dealer and install the ventilation system, otherwise lack of oxygen can occur, which can cause serious accidents.

• Use the genuine accessories and the specified parts for installation.

0 If parts unspecified by our company are used it could cause water leakage, electric shock, fire, and injury due to overturn of the unit.

Ventilate the working area well in case the refrigerant leaks during installation.

If the refrigerant contacts the fire, toxic gas is produced

In case of R32, the refrigerant could be ignited because of its flammability

●Install the unit in a location that can hold heavy weight. Improper installation may cause the unit to fall leading to accidents

• Install the unit properly in order to be able to withstand strong winds such as typhoons, and earthquakes.

Improper installation may cause the unit to fall leading to accidents

Do not mix air in to the cooling cycle on installation or removal of the air-conditioner. If air is mixed in, the pressure in the cooling cycle will rise abnormally and may cause explosion and injuries

• Be sure to have the electrical wiring work done by qualified electrical installer, and use exclusive circuit.

Power source with insufficient capacity and improper work can cause electric shock and fire

•Use specified wire for electrical wiring, fasten the wiring to the terminal securely, and hold the cable securely in order not to apply unexpected stress on the terminal.

Loose connections or hold could result in abnormal heat generation or fire.

• Arrange the electrical wires in the control box properly to prevent them from rising. Fit the lid of the services panel property. A

Improper fitting may cause abnormal heat and fire.

Check for refrigerant gas leakage after installation is completed If the refrigerant gas leaks into the house and comes in contact with a fan heater, a stove, or an oven, toxic gas is produc

●Use the specified pipe, flare nut, and tools for R32 or R410A.

Using existing parts (R22) could cause the unit failure and serious accident due to explosion of the cooling cycle

Tighten the flare nut according to the specified method by with torque wrench. If the flare nut were tightened with excess torque, it could cause burst and refrigerant leakage after a long period

● Do not put the drainage pipe directly into drainage channels where poisonous gases such as sulfide gas can occur. $Poisonous\ gases\ will\ flow\ into\ the\ room\ through\ drainage\ pipe\ and\ seriously\ affect\ the\ user's\ health\ and\ safety.\ This\ can\ also\ pipe\ and\ seriously\ affect\ the\ user's\ health\ and\ safety.\ This\ can\ also\ pipe\ and\ seriously\ affect\ the\ user's\ health\ and\ safety.\ This\ can\ also\ pipe\ and\ seriously\ affect\ the\ user's\ health\ and\ safety.\ This\ can\ also\ pipe\ and\ seriously\ affect\ the\ user's\ health\ and\ safety.\ This\ can\ also\ pipe\ and\ seriously\ affect\ the\ user's\ health\ and\ safety.\ This\ can\ also\ pipe\ and\ seriously\ affect\ the\ user's\ health\ and\ safety.\ This\ can\ also\ pipe\ and\ seriously\ affect\ the\ user's\ health\ and\ safety.\ This\ can\ also\ pipe\ and\ seriously\ affect\ the\ user's\ health\ and\ safety.\ This\ can\ also\ pipe\ and\ seriously\ affect\ the\ user's\ health\ and\ safety.\ This\ can\ also\ pipe\ and\ seriously\ affect\ the\ user's\ health\ and\ safety.\ This\ can\ also\ pipe\ and\ seriously\ affect\ the\ user's\ health\ and\ safety.\ This\ can\ also\ pipe\ and\ seriously\ affect\ the\ user's\ pipe\ and\ seriously\ affect\ the\ user's\ pipe\ and\ seriously\ affect\ the\ user's\ pipe\ and\ pipe\ a$

cause the corrosion of the indoor unit and a resultant unit failure or refrigerant leak Connect the pipes for refrigeration circuit securely in installation work before compressor is operated. If the compressor is operated when the service valve is open without connecting the pipe, it could cause explosion and injuries due

to abnormal high pressure in the system

Stop the compressor before removing the pipe after shutting the service valve on pump down work. If the pipe is removed when the compressor is in operation with the service valve open, air would be mixed in the refrigeration circuit

and it could cause explosion and injuries due to abnormal high pressure in the cooling cycle. •Only use prescribed option parts. The installation must be carried out by the qualified installer.

f you install the system by yourself, it can cause serious trouble such as water leaks, electric shocks, fire Do not repair by yourself. And consult with the dealer about repair

Improper repair may cause water leakage, electric shock or fire Consult the dealer or a specialist about removal of the air-conditioner. 0

Improper installation may cause water leakage, electric shock or fire. ● Turn off the power source during servicing or inspection work.

If the power is supplied during servicing or inspection work, it could cause electric shock and injury by the operating fan

Do not run the unit when the panel or protection guard are taken off.

Touching the rotating equipment, hot surface, or high voltage section could cause an injury to be caught in the machine, to get burned, or electric shock.

Shut off the power before electrical wiring work.

It could cause electric shock, unit failure and improper running

↑ CAUTION

Perform earth wiring surely.

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If the density of refrigerant exceeds the limit in the event of refrigerant leakage in the small room, lack of oxygen can occur, which can cause serious accidents.

 Do not touch the refrigerant piping with bare hands when in operation. The pipe during operation would become very hot or cold according to the operating condition, and it could cause a burn or fro

 Do not clean up the air-conditioner with water. It could cause electric shock.

Do not turn off the power source immediately after stopping the operation

Be sure to wait for more than 5 minutes. Otherwise it could cause water leakage or breakdowr

Do not control the operation with the circuit breaker.

t could cause fire or water leakage. In addition, the fan may start operation unexpectedly and it may cause injury

Do not connect the earth wiring to the gas pipe, water pipe, lightning rod and telephone earth wiring. Improper earth could cause unit failure, electric shock and fire due to a short circuit. Earth leakage breaker must be installed. Ø If the earth leakage breaker is not installed, it can cause fire and electric shocks. Use the circuit breaker of correct capacity. Circuit breaker should be the one that disconnect all poles under over current. Using the incorrect one could cause the system failure and fire Do not use any materials other than a fuse of correct capacity where a fuse should be used. Connecting the circuit by wire or copper wire could cause unit failure and fire. Do not install the indoor unit near the location where there is possibility of flammable gas leakage: If the gas leaks and gathers around the unit, it could cause fire. Do not install and use the unit where corrosive gas (such as sulfurous acid gas etc.) or flammable gas (such as thinner, petroleum etc.) may be generated or accumulated, or volatile flammable substances are handled.

It could cause the corrosion of heat exchanger, breakage of plastic parts etc. And inflammable gas could cause fire. Secure a space for installation, inspection and maintenance specified in the manual 0 nsufficient space can result in accident such as personal injury due to falling from the installation place Do not use the indoor unit at the place where water splashes such as laundry. ndoor unit is not waterproof. It could cause electric shock and fire Do not use the indoor unit for a special purpose such as food storage, cooling for precision instrument, preservation of animals, plants, and a work of art.
 It could cause the damage of the items. Do not install nor use the system near equipments which generate electromagnetic wave or high harmonics. Equipments like inverter equipment, private power generator, high-frequency medical equipment, or telecommunication equipment might influence the air-conditioner and cause a malfunction and breakdown. Or the air-conditioner might influence medical equipments or telecommunication equipments, and obstruct their medical activity or cause jamm Do not install the remote control at the direct sunlight. It could cause breakdown or deformation of the remote control Do not install the indoor unit at the place listed below Places where cosmetics or special sprays are Places where flammable gas could leak Places where carbon fiber, metal powder or any powder is floated. frequently used. Highly salted area such as beach. Place where the substances which affect the air-conditioner are generated such as sulfide gas, chloride gas, acid, alkali or ammonic atmospheres. Heavy snow area Places where the system is affected by Places exposed to oil mist or steam directly. smoke from a chimn Altitude over 1000m On vehicles and ships
Places where machinery which generates high harmonics is use Do not install the indoor unit in the locations listed below (Be sure to install the indoor unit according to the installation manual for each model because each indoor unit has Do not install the motion sensor at following places. It could cause detection error, incapacity Locations with any obstacles which can prevent inlet and outlet of detection, or characteristic degradation Locations where vibration can be amplified due to insufficient Place where vibration is applied to it for a long strenath of structure. period of time. Locations where the infrared receiver is exposed to the direct Place where static electricity or electronetic wave generates. sunlight or the strong light beam. (in case of the infrared Place where it is exposed to high temperature Locations where an equipment affected by high harmonics is or humidity for a long period of time placed. (TV set or radio receiver is placed within 5m) Dusty place or where the lens face could be Locations where drainage cannot run off safely. fouled or damaged. It can affect performance or function and etc.. Do not put any valuables which will break down by getting wet under the air-conditioner. on could drop when the relative humidity is higher than 80% or drain pipe is clogged, and it dam Do not use the base frame for the outdoor unit which is corroded or damaged after a long period of use. It could cause the unit falling down and injury. Pay attention not to damage the drain pan by weld sputter when brazing work is done near the unit If sputter entered into the unit during brazing work, it could cause damage (pinhole) of drain pan and leakage of water. To avoid damaging, keep the indoor unit packed or cover the indoor unit. Install the drain pipe to drain the water surely according to the installation manual. Ø Improper connection of the drain pipe may cause dropping water into room and damaging user's belonging • Do not share the drain pipe for indoor unit and GHP (Gas Heat Pump system) outdoor unit Toxic exhaust gas would flow into room and it might cause serious damage (some poisoning or deficiency of oxygen) to user's health and safety. Be sure to perform air tightness test by pressurizing with nitrogen gas after completed refrigerant piping work. For drain pipe installation, be sure to make descending slope of greater than 1/100, not to make traps, and not to make air-bleeding. Check if the drainage is correctly done during commissioning and ensure the space for inspection and mainte Ensure the insulation on the pipes for refrigeration circuit so as not to condense water. 0 Do not install the outdoor unit where is likely to be a nest for insects and small animals. ects and small animals could come into the electronic components and cause breakdown and fire. Instruct the user to keep the surro Pav extra attention, carrying the unit by hand. Carry the unit with 2 people if it is heavier than 20kg. Do not use the plastic straps but the grabbing place, moving the uni by hand. Use protective gloves in order to avoid injury by the aluminum fin. Make sure to dispose of the packaging material Leaving the materials may cause injury as metals like nail and woods are used in the package Do not operate the system without the air filter. It may cause the breakdown of the system due to clogging of the heat exchanger. Do not touch any button with wet hands.

1 Before installation Install correctly according to the installation manual •Confirm the following points: OUnit type/Power source specification OPipes/Wires/Small parts OAccessory items Accessory item For unit hanging <u></u> (0)Q (M)

②Selection of installation location for the indoor unit

- ① Select the suitable areas to install the unit under approval of the user
 - Areas where the indoor unit can deliver hot and cold wind sufficiently. Suggest to the user to use a circulator if the ceiling height is over 3m to avoid warm air being accumulated on the ceiling. In case of having the motion sensor, the installation height must be no higher than
 - 4 m. It could reduce the sensitivity of motion sensor, disabling the detection. Areas where there is enough space to install and service.

 - Areas where it can be drained properly. Areas where drain pipe descending slope can be taken.

 Areas where there is no obstruction of air flow on both air return grille and air supply port.

 - Areas where fire alarm will not be accidentally activated by the air-conditioner. Areas where the supply air does not short-circuit. Areas where it is not influenced by draft air.

 - Areas not exposed to direct sunlight.

 Areas where dew point is lower than around 28°C and relative humidity is lower than 80%. This indoor unit is tested under the condition of JIS (Japan Industrial Standard) high humidity condition and confirmed there is no problem. However, there is some risk of condensation drop if the air-conditioner is operated under the severer condition than
 - mentioned above.

 If there is a possibility to use it under such a condition, attach additional insulation of 10 to 20mm thick for entire surface of indoor unit, refrigeration pipe and drain pipe.

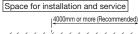
 Areas where TV and radio stays away more than 1m. (It could cause jamming and noise.)
 - Areas where any items which will be damaged by getting wet are not placed

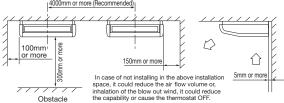
 - such as food, table wares, server, or medical equipment under the unit.

 Areas where there is no influence by the heat which cookware generates.

 Areas where not exposed to oil mist, powder and/or steam directly such as above fryer.

 Areas where lighting device such as fluorescent light or incandescent light
 - doesn't affect the operation. A beam from lighting device sometimes affects the infrared receiver for the wireless remote control and the air conditioner might not work properly.)
- (2) Check if the place where the air-conditioner is installed can hold the weight of the unit. If it is not able to hold, reinforce the structure with boards and beams strong enough.
- to hold it. If the strength is not enough, it could cause injury due to unit falling If there are 2 units of wireless type, keep them away for more than 6m to avoid malfunction due to cross communication.
- When plural indoor units are installed nearby, it is recommended to separate each other more than 4m.

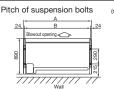


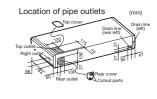


③Preparation before installation

- •If suspension bolt becomes longer, do reinforcement of earthquake resistant. O For grid ceiling
 - When suspension bolt length is over 500mm, or the gap between the ceiling and roof is over 700mm, apply earthquake resistant brace to the bolt.
- O In case the unit is hanged directly from the slab and is installed on the ceiling plane which has enough strength.
- When suspension bolt length is over 1000mm, apply the earthquake resistant brace to the bolt.
- Prepare four (4) sets of suspension bolt, nut and spring washer (M10) on site.

Pitch of suspension bolts and pipe position





③Preparation before installation (continued)

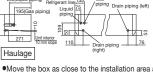
			(mm)
Series	type	Α	В
Single split (PAC)	40 to 50type	1070	1022
	60 to 71type	1320	1272
	100 to 140type	1620	1572
	36 to 56type	1070	1022
VRF (KX) series	71type	1320	1272
	112 to 140type	1620	1572

*Pipes can be taken out in 3 directions (rear, right or

- Cut out holes using nippers, etc.
 Cut out holes to take out pipes along the cutoff line on the rear cover.
 Cut out the top face cover aligning to the piping position

- position. When taking pipe out to right-hand side, cut out a hole along the groove at the inside of side panel. After installing pipes and wires, seal clearances around pipes and wires with putty, etc. to shut off dust

Make sure to install the covers at rear and top in order to protect the inside of unit from intrusion of dust or protect wires from damages by sharp edges. When taking then out to the right-hand side, remove burrs or sharp edge: from the cutout.



- •Move the box as close to the installation area as possible packed. •If it must be unpacked, wrap the unit with a nylon sling,
- and be careful not to damage the unit. *Do not hold fragile plastic parts, such as the side panel,
- •If you need to lay the unit on a floor after unpacking, always put it with the intake grille facing upward.

Preparation before instalation

Pipe position

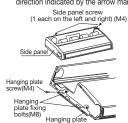
1. Remove the air return grille. Slide stoppers (4 places) of the catches. then pull out the pins (4 or 6 places).



Remove the hanging plate Remove the screw, and then loosen the fixing bolts.



2. Remove the side panel. Remove the screw and detach the side panel by sliding it toward the direction indicated by the arrow mark.



(4) Installation of indoor unit

Unscrew 8-12mm

Hanging plate

⚠ WARNING

Completely seal the hole in the wall with putty. If not sealed properly, dust, insects, small animals, and highly humid air may enter the room from outside, which could result in fire or other hazarde.

⚠ CAUTION

Completely seal the hole in the wall with putty. If not sealed properly, furniture and other fixtures may be damaged by water leakage or condensation.



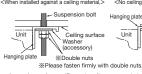
Ceiling

Sel

Work procedure

- Select the suspension bolt locations and the pipe hole location. (1) Use enclosed paper pattern as a reference, and drill the holes for the suspension bolts and pipe. Decide the locations based on direct measurements
- (2) Once the locations are properly placed, the paper pattern can be removed.
- 2. Install the suspension bolts in place.
- 3. Fix with 4 suspension bolts, which can endure load of 500N.
- Check the measurements given at the right figure for the length of the suspension bolts
- 5. Fasten the hanging plate onto the suspension bolts.







Install the unit to the hanging plate. (See the figure at right.)

- (1) Slide the unit in from front side to get it hanged on the hanging plate with the bolts. (2) Fasten the four fixing bolts (M8: 2
- each on the left and right sides) firmly. (3) Fasten the two screws (M4: 1 each on
- the left and right sides).

⚠WARNINIG: Hang a side panel on from the panel side to the rear side and then fasten it securely onto the indoor unit with screws

*To ensure smooth drain flow, install the unit with a descending slope toward the drain outlet.

Hanging plate

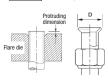
⚠ CAUTION: Do not give the reversed slope, which may cause water leaks.

⑤ Refrigerant pipe

Caution

- Be sure to use new pipes for the refrigerant pipes. Use the flare nut attached to the product.Regarding whether existing pipes can be reused or not, and the washing method, refer to the instruction manual of the Regarding whether existing pipes can be outdoor unit, catalogue or technical data.
 - 1) In case of reuse: Do not use old flare nut, but use the one attached to the unit.
 - 2) In case of reuse: Flare the end of pipe replaced partially for R32 or R410A.

MARNING : When flared joints are reused indoors, the flare part shall be re-fabricated. (only for R32)



Pipe		Protruding dimension for flare, mm						
diameter	Min. pipe wall thickness	Rigid (Cl	utch type)	Flare O.D. D	Flare nut tightening torque			
d mm	mm	For R32 For R410A	Conventional tool	mm	N-m			
6.35	0.8			8.9 - 9.1	14 - 18			
9.52	0.8]			12.8 - 13.2	34 - 42
12.7	0.8	0 - 0.5	0.7 - 1.3	16.2 - 16.6	49 - 61			
15.88	1				19.3 - 19.7	68 - 82		
19.05	1.2			23.6 - 24.0	100 - 120			

- Use phosphorus deoxidized copper alloy seamless pipe (C1220T) for refrigeration pipe installation. In addition, make sure there is no damage both inside and outside of the pipe, and no harmful substances such as sulfur, oxide, dust or a contaminant stuck on the pipes
- ●Do not use any refrigerant other than R32 or R410A.

 Using other refrigerant except R32 or R410A (R22 etc.) may degrade inside refrigeration oil. And air getting into refrigeration circuit may cause over-pressure and resultant it may result in bursting, etc.

 Store the copper pipes indoors and seal the both end of them until they are brazed in order to avoid any dust, dirt or
- water getting into pipe. Otherwise it will cause degradation of refrigeration oil and compressor breakdown, etc
- Use special tools for R32 or R410A refrigerant.

Work procedure

- Remove the flare nut and blind flanges on the pipe of the indoor unit.
 Make sure to loosen the flare nut with holding the nut on pipe side with a spanner and giving torque to the nut with another spanner in order to avoid unexpected stress to the copper pipe, and then remove them. (Gas may come out at this time, but it is not abnormal.)
- Pay attention whether the flare nut pops out, (as the indoor unit is sometimes pressured.) Make a flare on liquid pipe and gas pipe, and connect the refrigeration pipes on the indoor unit.

 When pulling out pipes backward or upward, install them passing through the attached

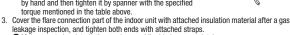
- cover together with the electrical cabling.

 Seal the gap with putty, or other, to protect from dust, etc.

 Bend radius of pipe must be 4D or larger. Once a pipe is bent, do not readjust the bending.
- Do not twist a pipe or collapse to 2/3D or smaller.

 Make sure to use flare nuts assembled on the unions.
 Usage of other flare nuts could cause refrigerant leakage.
- ★ Do a flare connection as follows:
 Make sure to hold the nut on indoor unit pipe side using double spanner method as indicated when fastening /
- outpute spatial method as mulcated when asterling / loosening flare nuts in order to prevent unintentional twisting of the copper pipe.

 When fastening the flare nut, align the refrigeration pipe with the center of flare nut, screw the nut for 3-4 times by hand and then tighten it by spanner with the specified torque mentioned in the table above.



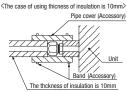
- Make sure to insulate both gas pipes and liquid pipes completely.

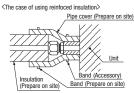
 - Make sure to insulate born gas pipes and liquid pipes completely.
 Incomplete insulation may cause dew condensation or water dropping.
 Use heat-resistant (120 °C or more) insulations on the gas side pipes.
 In case of using at high humidity condition, reinforce insulation of refrigerant pipes.
 Surface of insulation may cause dew condition or water dropping, if insulations are not reinfoced.
- Refrigerant is charged in the outdoor unit. As for the additional refrigerant charge for the indoor unit and piping, refer to the installation

Refrigerating machine oil should not be applied to the threads of union or external surface of flare. It is because, even if the same tightening torque is applied, the oil is likely to decrease the slide friction force on the threads and increase, in turn, the axial component force so that it could crack the flare

by the stress corrosion.

Refrigerating machine oil may be applied to the internal surface of flare only.

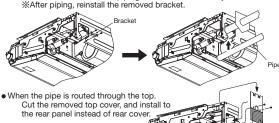




The pipe can be connected from three different directions. (back, reight, top)

When the pipe is routed through the back

If the bracket is removed, piping work will become easy *After piping, reinstall the removed bracket.



6 Drain pipe

The drain pipes may pull out either from back, right or left side.

- Install the drain pipe according to the installation manual in order to drain properly. Imperfection in draining may cause flood indoors and wetting the household goods, etc.
- Do not put the drain pipe directly into the ditch where toxic gas such as sulfur, the other harmful andinflammable gas is generated. Toxic gas would flow into the room and it would cause serious damage to user's health and safety (some poisoning or deficiency of oxygen). In addition, it may cause corrosion of heat exchanger and bad smell.
- Connect the pipe securely to avoid water leakage from the joint. Insulate the pipe properly to avoid condensation drop.

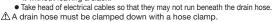
- Check if the water can flow out properly from both the drain outlet on the indoor unit and the end of the drain pipe after installation.

 Make sure to make descending slope of greater than 1/100 and do not make up-down bend and/or trap in the midway. In addition, do not put air vent on the drain pipe. Check if water is drained out properly from the pipe during commissioning. Also, keep sufficient space for inspection and maintenance

Work procedure

- 1. Insert drain hose completely to the base. and tighten the drain hose clamp securely. (adhesive must not be used.)
 - *When plumbing on the left side, move the rubber plug and the cylindrical insulating materials by the pipe connecting hole on the left side of the unit to the right side
- ⚠ Beware of a possible outflow of water that may
- occur upon removal of a drain plug.

 2. Fix the drain hose at the lowest point with a hose clamp supplied as an accessory. **Give a drain hose a gradient of 10mm as
 - illustrated in the right drawing by laying it without leaving a slack.



- There is a possibility that drain water overflows. Connect VP20(prepare on site) to drain hose. (Adhesive must not be used.) W Use commercially available rigid PVC general pipe VP20 for drain pipe.
- Do not to make the up-down bending and trap in the mid-way while assum
 - ing that the drain pipes is downhill. (more than 1/100)

 Never set up air vent.
 - Insulate the drain pipe.
 - Insulate the drain hose clamp with the heat insulation supplied as accessories.
 - When the unit is installed in a humid place, consider precautions against dew condensation such as heat insulation for the drain pipe.

Drain test

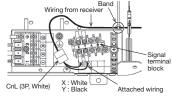
- After installation of drain pipe, make sure that drain system work in good condition and no water leakage from joint and drain pan.
- Do drain test even if installation of heating season.

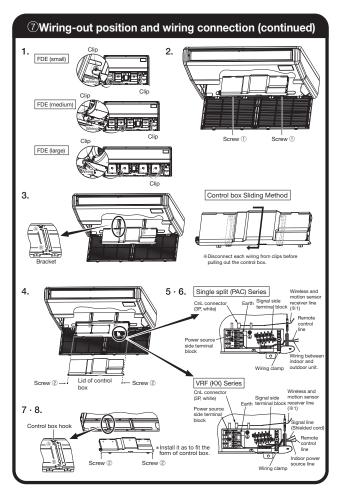
Wiring-out position and wiring connection

- Electrical installation work must be performed according to the installation manual by an electrical installation service provider qualified by a power provider of the country, and be executed according to the technical stan-dards and other regulations applicable to electrical installation in the country. Be sure to use an exclusive circuit.
- Use specified cord, fasten the wiring to the terminal securely, and hold the cord securely in order not to apply unexpected stress on the terminal.
- Do not put both power source line and signal line on the same route. It may cause miscommunication and malfunction.
- Be sure to do D type earth work.
- For the details of electrical wiring work, see attached instruction manual for electrical wiring work.
- Remove wiring from clips.
- Remove the control box (Screw ①, 2pcs).
 Pull out the control box by sliding along the groove on the bracket
- (Direction $\mathbb{A} \to \mathbb{B}$). Remove the lid of control box (Screw \mathbb{Q} , 2pcs)
- Hold each wiring inside the unit and connect to the terminal block surely.
- Fix the wiring by clamp.
 Install the lid of control box (Screw ②, 2pcs).
- Return the control box to the original place by sliding along the groove on the bracket (Direction $\widehat{\mathbb{B}} \rightarrow \widehat{\mathbb{A}}$). Install the removed parts at their original places.
- **1 Wiring for the signal receiving section of wireless kit (Option) and motion sensor kit (Option) are connected at the time of shipping from the factory. It is not necessary to disconnect these wiring when wired remote control is connected. When the wired/wireless kits are used together, it becomes necessary to set the slaves and remote control. For the methods of installing the wireless kit and the motion sensor kit, refer to the attached installation manuals.

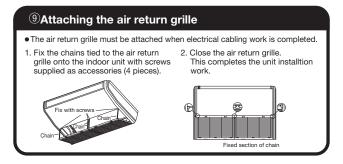
NOTICE

When installing the Superlink adapter, remove the band fixed the wiring from receiver.





Becontrol mode switching **The control content of indoor units can be switched in following way. (is the default setting) **Switch No. | Control Content | **Sw8-4 | ON | Indoor unit silent mode | **OFF | Normal operation**



10Check list after installation • Check the following items after all installation work completed. Check if Expected trouble The indoor and outdoor units are fixed securely? Falling, vibration, noise Inspection for leakage is done? Insufficient capacity Insulation work is properly done? Water leakage Water is drained properly? Water leakage Power source voltage is same as mentioned in the model name plate? PCB burnt out, not working at all There is mis-wiring or mis-connection of piping? PCB burnt out, not working at all Earth wiring is connected properly? Electric shock Cable size comply with specified size? PCB burnt out, not working at all Any obstacle blocks air flow on air inlet and outlet? Insufficient capacity

(6) Wall mounted type (SRK)

(a) Models SRK50, 60ZSX-W

RLF012A202B

Model SRK20,25,35,50,60ZSX R32/R410A REFRIGERANT USED

- This installation manual deals with an indoor unit installation only. For an outdoor unit installation, refer to page 210.
- This unit is designed for R32 or R410A. See a label on the outdoor unit to check refrigerant information.

SAFETY PRECAUTIONS

- Before installation, read the "SAFETY PRECAUTIONS" carefully and strictly follow it during the installation work in order to protect yourself.
 The precautionary items mentioned below are distinguished into two levels, [AWARNING] and [ACAUTION].
 Be sure to confirm no operation problem on the equipment after completing the installation. If unusual noise can be heard during the test run, consult the dealer.
 Be sure to explain the operating methods as well as the maintenance methods of this equipment to the
- ⚠ WARNING Indicates a potentially hazardous situation which, if not avoided, can result in serious consequences such as death or severe injury.
 ⚠ CAUTION Indicates a potentially hazardous situation which, if not avoided, can result in personal injury or property damage.
 Both mention the important items to protect your health and safety. Therefore, strictly follow them by any means.

⚠ WARNING

Be sure to use only for residential purpose.

If this unit is installed in inferior environment such as machine shop, vehicle (like ship), warehouse, etc., it can malfunction.

etc., it can manufactor.

Installation must be carried out by the qualified installer completely in accordance with the installation manual.

Installation by non qualified person or incorrect installation can cause serious troubles such as water leak, electric shock, fire and personal injury.

Be sure to wear protective goggles and gloves while performing installation work.

Improper safety measures can result in personal injury.

Use the original accessories and the specified components for the installation.

Using parts other than those prescribed may cause water leak, electric shock, fire and personal injury.

Do not install the unit near the location where leakage of flammable gases can occur. If leaked gases accumulate around the unit, it can cause fire resulting in property damage and personal injury.

when installing the unit in small rooms, make sure that refrigerant density does not exceed the limit (Reference: ISOS149) in the event of leakage. If refrigerant density exceeds the limit, consult the dealer and install the ventilation system. Otherwise lack of oxygen can occur resulting in serious accident.

Install the unit in a location where unit will remain stable, horizontal and free

of any vibration transmission.

Unsuitable installation location can cause the unit to fall resulting in material damage and personal injury.

Do not run the unit with removed panels or protections.

Touching rotating equipments, hot surfaces or high voltage parts can cause personal injury due to entrapment, burn or electric shock.

entrapment, burn of electric Snock.

This unit is designed specifically for R32 or R410A.

Using any other refrigerant can cause unit failure and personal injury.

Do not vent R32 or R410A into atmosphere.

R32 is a fluorinated greenhouse gas with a Global Warming Potential(GWP)=675.

R410A is a fluorinated greenhouse gas with a Global Warming Potential(GWP)=2088.

Make sure that no air enters the refrigerant circuit when the unit is installed and reproved.

wake sure that no air enters the refrigerant circuit when the unit is installed and removed.

If air enters the refrigerant circuit, the pressure in the refrigerant circuit will become too high, which can cause burst and personal injury.

Be sure to use the prescribed pipes, flare nuts and tools for R32 or R410A.
Using existing parts (for R22 or R407C) can cause refrigerant circuit burst resulting in unit failure and personal injury.

Be sure to connect both liquid and gas connecting pipes properly before op-

Be sure to commerce both induited and gas commercing pipes properly.

Do not open the liquid and gas service valves before completing piping work, and evacuation.

If the compressor is operated when connecting pipes are not connected and service valves are open, air can be sucked into the refrigerant circuit which can cause anomalous high pressure resulting in

burst or personal injury.

Be sure to tighten the flare nuts to specified torque using the torque wrench.

Tightening flare nuts with excess torque can cause burst and refrigerant leakage after a long period.

During pump down work, be sure to stop the compressor before closing service valves and removing connecting pipes.
If the connecting pipes are removed when the compressor is in operation and service valves are open, air can be sucked into the refrigerant circuit which can cause anomalous high pressure resulting.

ing in burst or personal injury.

In the event of refrigerant leakage during installation, be sure to ventilate the working area properly.

If the refrigerant comes into contact with naked flames, poisonous gases will be produced.

The refrigerant comes into contact with naked flames, poisonous gases will be produced.

Electrical work must be carried out by the qualified electrician, strictly in ac-cordance with national or regional electricity regulations. Incorrect installation can cause electric shock, fire or personal injury.

Make sure that earth leakage breaker and circuit breaker of appropriate ca-

pacities are installed.

Circuit breaker should be able to disconnect all poles under over current. Absence of appropriate breakers can cause electric shock, personal injury or property damage.

Be sure to switch off the power source in the event of installation, mainte-

nance or service.

If the power source is not switched off, there is a risk of electric shock, unit failure or personal injury.

Be sure to tighten the cables securely in terminal block and relieve the cables properly to prevent overloading the terminal blocks.

Loose connections or cable mountings can cause anomalous heat production or fire.

Do not process, splice or modify the power cable, or share the socket with

other power plugs.

Improper power cable or power plug can cause fire or electric shock due to poor connection, insufficient insulation or over-current.

Do not perform any change in protective device or its setup condition yourself.

Changing protective device specifications can cause electric shock, fire or burst.

Be sure to clamp the cables properly so that they do not touch any internal component of the unit.
If cables touch any internal component, it can cause overheating and fire.

Be sure to install service cover properly.

Improper installation can cause electric shock or fire due to intrusion of dust or water.

Improper installation can cause electric shock or fire due to intrusion of outs or water.

Be sure to use the prescribed power and connecting cables for electrical work. Using improper cables can cause electric leak or fire.

This appliance must be connected to main power source by means of a circuit breaker or switch with a contact separation of at least 3mm. Improper electrical work can cause unit failure or personal injury.

When plugging this unit, a plug conforming to the standard IEC60884-1 must be used.

Using improper plug can cause electric shock or fire.

Be sure to connect the power source cable with power source properly.

Improper connection can cause intrusion of dust or water resulting in electric shock or fire.

⚠ CAUTION

Take care when carrying the unit by hand.
If the unit weight is more than 20kg, it must be carried by two or more persons.
Do not carry the unit by the plastic straps. Always use the carry handle.
Do not install the outdoor unit in a location where insects and small animals

can inhabit. Insects and small animals can enter the electrical parts and cause damage resulting in fire or per-sonal injury. Instruct the user to keep the surroundings clean.

If the outdoor unit is installed at height, make sure that there is enough space for installation, maintenance and service.

Insufficient space can result in personal injury due to falling from the height.

To not install the unit near the location where neighbours are bothered by noise or air generating from the unit.

It can affect surrounding environment and cause a claim.

Do not install in the locations where unit is directly exposed to corrosive gases (like sulphide gas, chloride gas), sea breeze or salty atmosphere.

It can cause performance degradation, corrosion and damage of component bispose of all packing materials properly. Packing materials contain nails and wood which can cause personal injury. Keep the polybag away from children to avoid the risk of suffocation.

Do not put anything on the outdoor unit.

Only the first property damage or responsibility. It can cause corrosion of heat exchanger and damage to plastic parts

Do not install the unit close to the equipments that generate electromagnetic

No not install the aluminum fin of the outdoor unit.

Aluminium fin temperature is high during heating operation. Touching fin can cause burn

Equipment such as inverters, standby generators, medical high frequency equipments and telecommunication equipments can affect the system, and cause malfunctions and breakdowns.

The system can also affect medical equipment and telecommunication equipment, and obstruct its

function or cause jamming

- Do not install the unit in the locations where:
- There are heat sources nearby.
- Unit is directly exposed to rain or sunlight.

 There is any obstacle which can prevent smooth air circulation from inlet and outlet side of the unit.

 Unit is directly exposed to oil mist and steam such as kitchen.

 Chemical substances like ammonia (organic fertilizer), calcium chloride (snow melting agent) and

Greening Substances like ammonia (organic tertilizer), calcium chloride (snow melting agent) and acid (sulfurous acid etc.), which can harm the unit, will generate or accumulate.
 Drain water can not be discharged properly.
 TV set or radio receiver is placed within 1m.
 Height above sea level is more than 1000m.
It can cause performance degradation, corrosion and damage of components, unit malfunction and fire.

• Do not put anything on the outdoor unit.

Object may fall causing property damage or personal injury

Do not touch any refrigerant pipe with your hands when the system is in operation. During operation the refrigerant pipes become extremely hot or extremely cold depending on the operating condition. Touching pipes can cause personal injury like burn (hot/cold). Install isolator or disconnect switch on the power source wiring in accordance with the local codes and regulations.

The isolator should be locked in OFF state in accordance with EN60204-1.

1. ACCESSORIES AND TOOLS

	Standard	accessor	ies (Su	ppli	ed with indoor unit)		
(1)	Installation board	#1 mi ! #	1 pc.	(5)	Wood screws (for remote control holder φ3.5×16mm)	8	2 pcs
(2)	Wireless remote control		1 pc.	(6)	Batteries [R03 (AAA, Micro) 1.5V]	OBD)	2 pcs
(3)	Remote control holder		1 pc.	(7)	Air-cleaning filters		2 pcs
(4)	Tapping screws (for installation board φ4×25mm)	O _{le}	5 pcs.	(8)	Insulation (#486 50 × 100 t3)		1 pc

	Locally procured parts		
(a)	Sleeve (1 pc.)		
(b)	Sealing plate (1 pc.)		
(c)	Inclination plate (1 pc.)		
(d)	Putty		
(e)	Connecting cable		
(f)	Drain hose (extension hose)		
(g)	Piping cover (for insulation of connection piping)		
(h)	Clamp and screw (for finishing work)		
(i)	Electrical tape		

Tools for installation work		
Plus headed driver	Pipe cutter	
Knife	Hole core drill (65mm in diameter	
Saw	Wrench key (Hexagon) [4mm]	
Tape measure	Flaring tool set*	
Torque wrench	Gas leak detector*	
(14.0-62.0N·m (1.4-6.2kgf·m))	Pipe bender	
Plier	Flare adjustment gauge	
* Desig	ned specifically for R32 or R410	

2. SELECTING INSTALLATION LOCATION

After getting customer's approval, select installation location according to following guidelines.

1. Indoor unit

- Where there is no obstruction to the airflow and where the cooled and heated air can be evenly distributed.

- evenly distributed.

 A solid place where the unit or the wall will not vibrate.

 A place where there will be enough space for servicing.

 (Where space mentioned on the right side can be secured.)

 Where it is easy to conduct wiring and piping work.

 A place where unit is not directly exposed to sunlight or street light.

 A place where it can be easily drained.

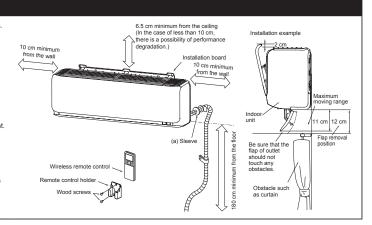
 A place separated at least 1m away from the television or the radio.

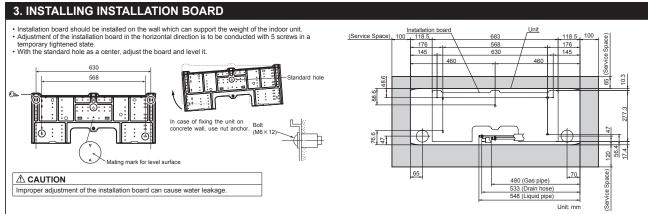
 (To prevent interference to images and sounds.)

- (10 prevent intererence to images and sounds.)
 A place where this unit is not affected by the high frequency equipment or electric equipment.
 Avoid installing this unit in place where there is much oil mist.
 A place where there is no electric equipment or household.
 Install the indoor unit on the wall where the height from the floor to the bottom of the unit is more than 180 cm.

2. Wireless remote control

- A place where the air-conditioner can receive the signal surely during operating the wireless remote control.
 A place where it is not affected by the TV, radio etc.
 Do not place where it is exposed to direct sunlight or near heat devices such as a stove.







When drilling the wall that contains a metal lath, wire lath or metal plate, be sure to use sealing plate, sleeve and inclination plate (Locally procured parts).





Thickness of the wall + 1.5cm

(2) Cut sleeve to adjust to wall thickness. In case of rear piping draw out, cut off the lower and the right side portions of the sleeve collar

Cut



(3) Fix sealing plate, sleeve and inclination plate.





(4) After piping work, seal the hole in the wall with putty.

⚠ WARNING

Completely seal the hole in the wall with putty. If not sealed properly, dust, insects, small animals, and highly humid air may enter the room from out-side, which could result in fire or other hazards.

⚠ CAUTION

Completely seal the hole in the wall with putty If not sealed properly, furniture and other fixtures may be damaged by water leakage or condensation.

5. ELECTRICAL WIRING WORK

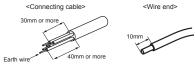
- Before installation, make sure that the power source complies with the air-conditioner's power specification Carry out electrical wiring work according to following guidelines.

1. Preparing cable

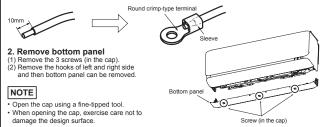
(1) Selecting cable
Select the connecting cable in accordance with the specifications mentioned below.
4-core* 1.5mm² conformed with 60245 IEC57
* 1 Earth wire is included (Yellow/Green).

(2) Arrange each wire length as shown below.

Make sure that each wire is stripped 10mm from the end.



(3) Attach round crimp-type terminal to each wire as shown in the below.
Select the size of round crimp-type terminal after considering the specifications of terminal block and wire diameter.

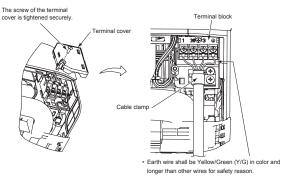


3. Connecting cable

- (2) Remove the cable clamp.
 (3) Connect the connecting wires to the terminal block.
 (4) Fix the connecting cable by cable clamp.
 (5) Fix the terminal cover.

NOTE

Take care not to confuse the terminal numbers for indoor and outdoor connections.

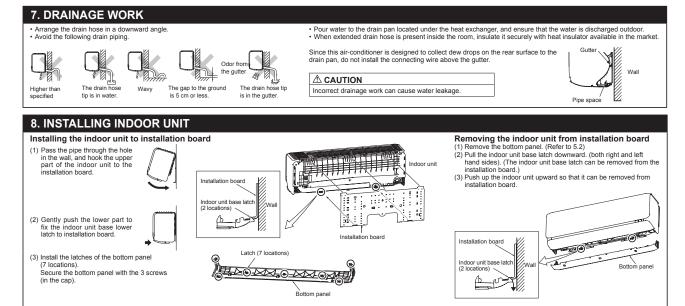


⚠ WARNING

Incorrect wiring connection can cause malfunction or fire.

6. FORMING PIPING AND DRAIN HOSE 1. Forming piping Piping is possible in the right, rear, downward, left, left rear or left downward direction Taping of the exterior Tape only the portion that goes through the wall. Always tape the wiring Forming of pipings • Hold the bottom of the NOTE piping and fix direction before stretching it Sufficient care must be taken not to damage the panels when connecting pipes. and shaping it. with the piping. 2. Drain change procedures Remove the screw and drain nose. Remove the drain cap by hand or pilers. Insert the drain cap which was removed at procedure (2) securely using a hexagonal wrench etc. Install the drain hose and screw securely. Left dov (1) (2) Left hand side piping Right hand side piping Piping in the left rear direction Piping in the right rear direction **⚠** CAUTION

Piping in the right di



9. CONNECTING PIPING WORK

1. Preparation of connecting pipe

Piping in the left direction

1.1. Selecting connecting pipe
Select connecting pipe according to the following table

	Model SRK20/25/35	Model SRK50/60		
Gas pipe	φ9.52	φ 12.7		
Liquid pipe	φ6.35	φ6.35		

- Pipe wall thickness must be greater than or equal to 0.8 mm.
 Pipe material must be O-type (Phosphorus deoxidized seamless copper pipe ICS 23.040.15, ICS 77.150.30)
 Pipe material must be O-type (Phosphorus deoxidized seamless copper pipe ICS 23.040.15, ICS 77.150.30)
 Pipe wall thickness must be greater than or equal to 0.8 mm.

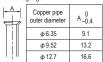
1.2. Cutting connecting pipe

- (1) Cut the connecting pipe to the required length with pipe cutter.
 (2) Hold the pipe downward and remove the burrs. Make sure that no foreign material enters the pipe.
 (3) Cover the connecting pipe ends with the tape.

2. Piping work

2.1. Flaring pipe

2.1. Flaring pipe
(1) Take out flare nuts from the service valves of indoor unit and engage them onto connecting pipes.
(2) Flare the pipes according to table and figure shown below.
Flare dimensions for R32 are different from those for conventional refrigerant.
Although it is recommended to use the flaring tools designed specifically for R32 or R410A, conventional flaring tools can also be used by adjusting the measurement of protrusion B with a flare adjustment gauge.

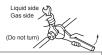




	Copper pipe	Rigid (clutch) type			
	outer diameter	R32 or R410A	Conventional		
	φ 6.35				
	φ9.52	0-0.5	1.0-1.5		
	φ 12.7				

2.2 Connecting pipes
(1) Connect pipes on both liquid and gas sides.
(2) Tighten nuts to specified torque shown in the table below

Service valve size (mm)	Tightening torque (N·m)
φ 6.35 (1/4")	14-18
φ 9.52 (3/8")	34-42
φ 12.7 (1/2")	49-61



⚠ CAUTION

Do not apply refrigerating machine oil to the flared surface. It can cause refrigerant leakage.
 Do not apply excess torque to the flared nuts. The flared nuts may crack resulting in refrigerant

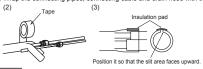
- Heating and condensation prevention
 Dress the connecting pipes (both liquid and gas pipes) with insulation to prevent it from heating and Use the heat insulating material which can withstand 120°C or higher temperature. Make sure that insu-
- Use the heat insulating material which can withstand 120°C or higher temperature. Make sure that insulation is wrapped tightly around the pipes and no gap is left between them.

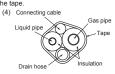
 (2) Wrap the refrigerant pipings of indoor unit with indoor unit heat insulation using tape.

 (3) Cover the flare-connected joints (indoor side) with the indoor unit heat insulation and wrap it with an insulation gad (standard accessory provided with indoor unit).

 (4) Wrap the connecting pipes, connecting cable and drain hose with the tape.

Incorrect installation of drain hose and cap can cause water leakage





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Pipe assembly

NOTE

Locations where relative humidity exceeds 70%, both liquid and gas pipes need to be dressed with 20mm or thicker heat insulation materials.

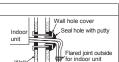
⚠ CAUTION

- Improper insulation can cause condensate(water) formation during cooling operation. Condensate can leak or drip causing damage to household property. Poor heat insulating capacity can cause pipe outer surface to reach high temperature during heating operation. It can cause cable deterioration and personal injury.

- (1) Make sure that the exterior portion of connecting pipes, connecting cable and drain hose is wrapped properly with tape. Shape the connecting pipes to match with the contours of the pipe assembly route.

 (2) Fix the pipe assembly with the wall using clamps and screws. Pipe assembly should be anchored every 1.5m or less to isolate the vibration.

 (3) Install the service cover securely. Water may enter the unit if service cover is not installed properly, resulting in unit malfunction and failure.



⚠ WARNING (only for R32)

- To avoid the risk of fire or explosion, the flared connection must/shall be installed outdoors.
- Reusable mechanical connectors and flared joints are not
- allowed indoors.

⚠ CAUTION

Make sure that the connecting pipes do not touch the components within the unit. If pipes touch the internal components, it may generate abnormal sounds and/or vibrations.

10. HOW TO OPEN, CLOSE, REMOVE AND INSTALL THE AIR INLET PANEL

1. Open
Pull the air inlet panel at both ends of lower part and release latches, then pull up the panel until

you feel resistance. (The panel stops at approx. 60° open position)

2. Close
Hold the panel at both ends of lower part, lower it downward slowly, then push it slightly until the latch works.

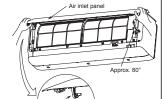
3. Removing
Open the panel by 80° (as shown in the right illustration) and then pull it forward.

4. Installing

Insert the panel arm into the slot on the front panel from the position shown in right illustration, hold the panel at both ends of lower part, lower it downward slowly, then push it slightly until the latch works.

NOTE

• When carrying out maintenance, handle the air inlet panel with care.



13. INSTALLING TWO AIR-CONDITIONERS IN THE SAME ROOM

In case two air-conditioners are installed in the same room, apply this setting so that one unit can be operated with only one wireless remote control.

Setting one wireless remote control (1) Slide and take out the cover and batt

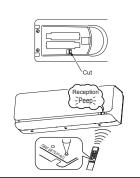
- (2) Cut the switching line next to the battery with wire cutters
- (3) Set the batteries and cover again.

Setting one indoor unit

- (1) Turn off the power source and turn it on after 1 minute.
- minute.
 (2) Send the signal by pressing the ACL switch on the wireless remote control that was set according to the procedure described on the above side.
 (3) Check that the reception buzzer sound "Peep" is emitted from the indoor unit. Since the signal is sent about 6 seconds after the ACL switch is pressed, point the wireless remote control to the indoor unit for a while.



If no reception buzzer is emitted, restart the setting from the beginning.

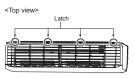


11. HOW TO REMOVE AND INSTALL THE SIDE AND FRONT PANEL

1. Side panel (R/L)

- 1.1. Removing
 (1) Remove the 2 screws
- (1) Remove the 2 screws.
 (2) Remove the 3 latches and then side panel can be removed.
 1.2. Installing
 (1) Cover the unit with the side panel and fix 3

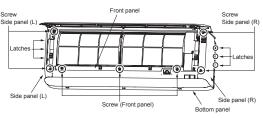
- (2) Secure the side panel with the 2 screws



2. Front panel

- 2. From panel
 2. 1. Removing
 (1) Remove the side panel (R/L), the air inlet panel, the air filters and the bottom panel.
 (2) Remove the 3 screws.
 (3) Remove the 4 upper latches and then front panel can be removed.

- 2.2. Installing(1) Cover the unit with the front panel and fix 4 upper latches.
- (2) Secure the front panel with the 3 screws.
 (3) Install the bottom panel, the side panel
 (R/L), the air inlet panel and the air filters.



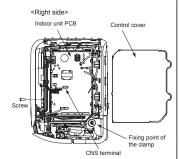
14. TERMINAL CONNECTION FOR AN INTERFACE

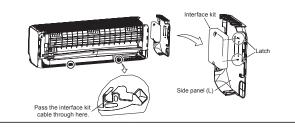
To install wired remote control, superlink etc., interface kit is needed.

- (1) Remove the air inlet panel, bottom panel and side panel (R).(2) Remove the control cover. (Remove the
- screw.)
 (3) There is a terminal (respectively marked with CNS) for the indoor control board. While connecting an interface, connect to the respective terminal securely with the connection harness supplied with an option "Interface kit SC-BIKN2-E and fasten

the connection harness onto the indoor control box with the clamp and screw supplied with the kit.
(4) Hook to fix the interface kit to the 2

latches on side panel (L). For more details, refer to the user's manual of "Interface kit SC-BIKN2-E"





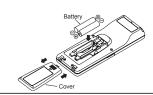
12. INSTALLING WIRELESS REMOTE CONTROL

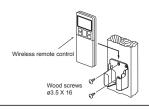
Mount the batteries

- (1) Slide and take out the cover of backside.
 (2) Mount the batteries [R03 (AAA, Micro),
 ×2 pieces] in the body properly.
 (Fit he poles with the indication marks + & -)
 (3) Set the cover again.

NOTE

- Do not use new and old batteries together.
 In case the unit is not operated for a long time take out the batteries





Installing remote control holder
(1) Select the place where the unit can receive

(2) Fix the holder to pillar or wall with wood

15. PUMP DOWN WORK

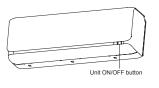
For the environmental protection, be sure to pump down when relocating or disposing of the unit. Pump down is the method of recovering refrigerant from the indoor unit to the outdoor unit before the connecting pipes are removed from the unit. When pump down is carried out, forced cooling operation is needed.

Forced cooling operation

- (1) Turn off the power source and turn it on again after 1 minute. The air inlet panel
- and flap open and close.

 (2) After the air inlet panel closes, press the ON/OFF button continuously for at least 5 seconds. Then operation will start.

For the detail of pump down, refer to the installation manual of outdoor unit.



16. INSTALLATION CHECK AND TEST RUN

After finishing the installation work, check the following points again before turning on the power. Conduct a test run and ensure that the unit operates properly. At the same time, explain to the customer how to use the unit and how to take care of the unit following the user's manual.

Before test run

before test run, check following points.				
Power source voltage complies with the rated voltage of air-conditioner.				
Earth leakage breaker and circuit breaker are installed.				
Power cable and connecting cable are securely fixed to the terminal block.				
Both liquid and gas service valves are fully open.				
No gas leaks from the joints of the service valves.				
Indoor and outdoor side pipe joints have been insulated.				
Hole on the wall is completely sealed with putty.				
Drain hose and cap are installed properly.				
Screw of the terminal cover is tightened securely.				

Test run

Check following points during test run.

Indoor unit receives signal of wireless remote control.	
Air-conditioning operation is normal.	
There is no abnormal noise.	
Water drains out smoothly.	
Display of wireless remote control is normal.	

artor toot run	
Explain the operating and maintenance methods to the user according to the user's manual.	
Keep this installation manual together with user's manual.	

During restart or change in operation mode, the unit will not start operating for approximately 3 minutes. This is to protect the unit and it is not malfunction.

RLD012A018 🛕

(b) Model SRK100ZR-W

Model SRK63,71,80,100ZR R32/R410A REFRIGERANT USED

- This installation manual deals with an indoor unit installation only. For an outdoor unit installation, refer to page 210.
- This unit is designed for R32 or R410A. See a label on the outdoor unit to check refrigerant information

SAFETY PRECAUTIONS

- tion work in order to protect yourself.

 The precautionary items mentioned below are distinguished into two levels, AWARNING and ACAUTION indicates a potentially hazardous situation which, if not avoided, can result in personal injury or property damage.

 Both mention the important items to protect your health and safety. Therefore, strictly follow them by any means.

MARNING MARNING

- Be sure to use only for residential purpose.

 If this unit is installed in inferior environment such as machine shop, vehicle (like ship), warehouse, it can malfunction
- Installation must be carried out by the qualified installer completely in accordance with the installation manual

- dance with the installation manual.
 Installation by non qualified person or incorrect installation can cause serious troubles such as water leak, electric shock, fire and personal injury.

 Be sure to wear protective goggles and gloves while performing installation work. Improper safety measures can result in personal injury.

 Use the original accessories and the specified components for the installation. Using parts other than those prescribed may cause water leak, electric shock, fire and personal injury.

 Do not install the unit near the location where leakage of flammable gases can occur. If leaked gases accumulate around the unit, it can cause fire resulting in property damage and personal injury.
- When installing the unit in small rooms, make sure that refrigerant density does not exceed the limit (Reference: ISO5149) in the event of leakage.

 If refrigerant density exceeds the limit, consult the dealer and install the ventilation system.
- If refrigerant density exceeds the limit, consult the dealer and install the ventilation system. Otherwise lack of oxygen can occur resulting in serious accident.

 Install the unit in a location where unit will remain stable, horizontal and free of any vibration transmission.

 Unsultable installation location can cause the unit to fall resulting in material damage and personal injury.

 Do not run the unit with removed panels or protections.

 Touching rotating equipments, hot surfaces or high voltage parts can cause personal injury due to entrapment, burn or electric shock.

 This unit is designed specifically for R32 or R410A.

 Using any other refrigerant can cause unit failure and personal injury.

 Do not vent R32 or R410A into atmosphere.

 R32 is a fluorinated greenhouse gas with a Global Warming Potential(GWP)=675.

 R410A is a fluorinated greenhouse gas with a Global Warming Potential(GWP)=2088.

 Make sure that no air enters the refrigerant circuit when the unit is installed and removed.

- Make sure that no air enters the retrigerant circuit when the unit is installed and removed.

 If air enters the refrigerant circuit, the pressure in the refrigerant circuit will become too high, which can cause burst and personal injury.

 Be sure to use the prescribed pipes, flare nuts and tools for R32 or R410A.

 Using existing parts (for R22 or R407C) can cause refrigerant circuit burst resulting in unit failure and personal injury.

 Be sure to connect both liquid and gas connecting pipes properly before operating the compressor.

Be sure to connect both induit and gas connecting pipes properly erating the compressor.

Do not open the liquid and gas operation valves before completing piping work, and evacuation.

If the compressor is operated when connecting pipes are not connected and operation valves are open, air can be sucked into the refrigerant circuit which can cause anomalous high pressure result-

open, all can be sourced into the fellingorist contact which can cause a source and injury.

Be sure to tighten the flare nuts to specified torque using the torque wrench. Tightening flare nuts with excess torque can cause burst and refrigerant leakage after a long period.

During pump down work, be sure to stop the compressor before closing operation valves and removing connecting pipes. If the connecting pipes are removed when the compressor is in operation and operation valves are open, air can be sucked into the refrigerant circuit which can cause anomalous high pressure resulting in burst or personal injury.

- ing in burst or personal injury.

 In the event of refrigerant leakage during installation, be sure to ventilate the working area properly.

 If the refrigerant comes into contact with naked flames, poisonous gases will be produced.

 Electrical work must be carried out by the qualified electrician, strictly in accordance with national or regional electricity regulations.

 Incorrect installation can cause electric shock, fire or personal injury.

 Make sure that earth leakage breaker and circuit breaker of appropriate capacities are installed.

 Circuit breaker should be able to disconnect all poles under over current. Absence of appropriate breakers can cause electric shock, personal injury or property damage.

 Be sure to switch off the power source in the event of installation, maintenance or service.

 If the power source is not switched off, there is a risk of electric shock, unit failure or personal injury.

 Be sure to tighten the cables securely in terminal block and relieve the ca-

- Be sure to tighten the cables securely in terminal block and relieve the ca-bles properly to prevent overloading the terminal blocks.

 Loose connections or cable mountings can cause anomalous heat production or fire.
- Do not process, splice or modify the power cable, or share the socket with other power plugs.

 Improper power cable or power plug can cause fire or electric shock due to poor connection, insuf-

ficient insulation or over-o

- Do not perform any change in protective device or its setup condition yourself.
 Changing protective device specifications can cause electric shock, fire or burst.
 Be sure to clamp the cables properly so that they do not touch any internal
- component of the unit.
 If cables touch any internal component, it can cause overheating and fire.
 Be sure to install service cover properly.
 Improper installation can cause electric shock or fre due to intrusion of dust or water

- Be sure to use the prescribed power and connecting cables for electrical work. Using improper cables can cause electric leak or fire.

 This appliance must be connected to main power source by means of a circuit breaker or switch with a contact separation of at least 3mm. Improper electrical work can cause unit failure or personal injur-
- When plugging this unit, a plug conforming to the standard IEC60884-1 must be

 - Using improper plug can cause electric shock or fre.

 Be sure to connect the power source cable with power source properly.

 Improper connection can cause intrusion of dust or water resulting in electric shock or fire.

⚠ CAUTION

- Take care when carrying the unit by hand.
 If the unit weight is more than 20kg, it must be carried by two or more persons.
 Do not carry the unit by the plastic straps. Always use the carry handle.
 Do not install the outdoor unit in a location where insects and small animals
- can inhabit.
 Insects and small animals can enter the electrical parts and cause damage resulting in fre or per-
- Insects and small animals can enter the electrical parts and cause damage resulting in fre or personal injury. Instruct the user to keep the surroundings clean.

 If the outdoor unit is installed at height, make sure that there is enough space for installation, maintenance and service.

 Insufficient space can result in personal injury due to falling from the height.

 Do not install the unit near the location where neighbours are bothered by noise or air generating from the unit.

 It can affect surrounding environment and cause a claim.

 Do not install in the locations where unit is directly exposed to corrosive gases (like sulphide gas, chloride gas), sea breeze or salty atmosphere.

 It can cause corrosion of heat exchanger and damage to plastic parts.

 Do not install the unit close to the equipments that generate electromagnetic waves and/or high-harmonic waves.

The system can also affect medical equipment and telecommunication equipment, and obstruct its function or cause jamming.

- waves and/or high-harmonic waves.

 Equipment such as inverters, standby generators, medical high frequency equipments and telement equipments can affect the system, and cause malfunctions and breakdowns.

- Do not install the unit in the locations where:

- Do not install the unit in the locations where:

 There are heat sources nearby.

 Unit is directly exposed to rain or sunlight.

 There is any obstacle which can prevent smooth air circulation from inlet and outlet side of the unit.

 Unit is directly exposed to oil mist and steam such as kitchen.

 Chemical substances like ammonia (organic fertilizer), calcium chloride (snow melting agent) and acid (sulfurous acid etc.), which can harm the unit, will generate or accumulate.

 Drain water can not be discharged properly.

 Ty set or radio preciver is placed within 1 m.

- TV set or radio receiver is placed within 1m.
 Height above sea level is more than 1000m.
 It can cause performance degradation, corrosion and damage of components, unit malfunction and fire.
- Dispose of all packing materials properly.

 Packing materials contain nails and wood which can cause personal injury.

Keep the polybag away from children to avoid the risk of suffocation.

- **Do not put anything on the outdoor unit.**Object may fall causing property damage or personal injury.

- Object may fall causing property damage or personal injury.

 Do not touch the aluminum fin of the outdoor unit.

 Aluminium fin temperature is high during heating operation. Touching fin can cause burn.

 Do not touch any refrigerant pipe with your hands when the system is in operation. During operation the refrigerant pipes become extremely hot or extremely cold depending on the operating condition. Touching pipes can cause personal injury like burn (hot/cold).

 Install isolator or disconnect switch on the power source wiring in accordance with the local codes and regulations.

 The isolator should be locked in OFF state in accordance with EN60204-1.

1. ACCESSORIES AND TOOLS

Standard accessories (supplied with indoor unit) 2 pcs 1 pc. (6) Batteries [R03 (AAA, Micro) 1.5V] (1) Installation board (7) Air-cleaning filters 1 pc. 2 pcs (2) Wireless remote control (3) Remote control holder 1 pc. (8) Filter holders 2 pcs Tapping screws
(for installation board ø4 X 25mm) (9) Insulation (#486 50 X 100 t3) _____ 1 pc 10 pcs (5) Wood screws (for remote control holder ø3.5 X 16mm) 2 pcs

$\overline{}$	Locally procured parts
(a)	Sleeve (1 pc.)
(b)	Sealing plate (1 pc.)
(c)	Inclination plate (1 pc.)
(d)	Putty
(e)	Connecting cable
(f)	Drain hose (extension hose)
(g)	Piping cover (for insulation of connection piping)
(h)	Clamp and screw (for finishing work)
(i)	Electrical tape

Tools for	installation Work
Plus headed driver	Hole core drill (65mm in diameter
Knife	Wrench key (Hexagon) [4mm]
Saw	Flaring tool set*
Tape measure	Gas leak detector*
Torque wrench (14.0-82.0N·m (1.4-8.2kgf·m))	Pipe bender
Plier	Gauge for projection adjustment
Pipe cutter	(Used when flare is made by us ing conventional flare tool)
* Design	ned specifically for R32 or R410

2. SELECTING INSTALLATION LOCATION

After getting customer's approval, select installation location according to following guidelines.

- Indoor unit
 Where there is no obstruction to the airflow and where the cooled and heated air can be evenly distributed.
 A colid place where the unit or the unit
- distributed.

 A solid place where the unit or the wall will not vibrate.

 A place where there will be enough space for servicing. (Where space mentioned on the right side can be secured.)

 Where it is easy to conduct wiring and piping work.

 A place where unit is not directly exposed to sunlight or street light.

 A place where it can be easily drained.

 A place separated at least 1m away from the television or the radio. (To prevent interference to impace and spunds.)

- ages and sounds.)

 A place where this unit is not affected by the high frequency equipment or electric equipment.

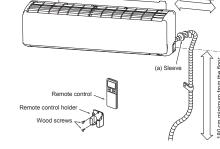
 Avoid installing this unit in place where there is much oil mist.

 A place where there is no electric equipment or household.

 Install the indoor unit on the wall where the height from the floor to the bottom of the unit is more than

2. Remote control

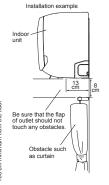
- A place where the air-conditioner can receive the signal surely during operating the remote control.
 A place where it is not affected by the TV, radio etc.
 Do not place where it is exposed to direct sunlight or near heat devices such as a stove.



5 cm minimum from the wall

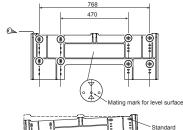
10 cm minimum from the ceiling

Installation board 15 cm minimum from the wall



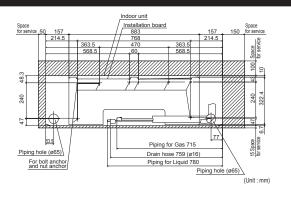
3. INSTALLING INSTALLATION BOARD

- Installation board should be installed on the wall which can support the weight of the indoor unit.
 Adjustment of the installation board in the horizontal direction is to be conducted with 8 screws in a
- temporary tightened state.
 With the standard hole as a center, adjust the board and level it.









⚠ CAUTION

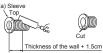
Improper adjustment of the installation board can cause water leakage

4. DRILLING HOLE AND FIXTURE OF SLEEVE

When drilling the wall that contains a metal lath, wire lath or metal plate, be sure to use sealing plate, sleeve and inclination plate (Locally procured parts)



Indoor side Outdoor side (1) Drill a hole with hole core drill.

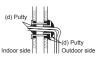


(2) Cut sleeve to adjust to wall thickness. In case of rear piping draw out, cut off the lower and the right side portions of the sleeve collar.



Indoor side Outdoor side (3) Fix sealing plate, sleeve and inclination plate





(4) After piping work seal the hole in the wall with putty.

⚠ WARNING

Completely seal the hole in the wall with putty. If not sealed properly, dust, insects, small animals, and highly humid air may enter the room from outside, which could result in fire or other hazards.

⚠ CAUTION

Completely seal the hole in the wall with putty. If not sealed properly, furniture and other fixtures may be damaged by water leakage or condensation.

5. ELECTRICAL WIRING WORK

- Before installation, make sure that the power source complies with the air-conditioner's power speci-
- ncarron.

 Carry out electrical wiring work according to following guidelines.

1. Preparing cable

(1) Selecting cable

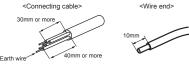
- Select the connecting cable in accordance with the specifications mentioned below.

 4-core* 1.5mm² conformed with 60245 IEC57

 * 1 Earth wire is included (Yellow/Green).

(2) Arrange each wire length as shown below.

Make sure that each wire is stripped 10mm from the end.



(3) Attach round crimp-type terminal to each wire as shown in the below. Select the size of round crimp-type terminal after considering the specifications of terminal block and wire diameter.

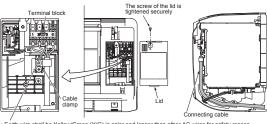


2. Connecting cable

- 2. Connecting cable
 (1) Open the air inlet panel.
 (2) Remove the lid.
 (3) Remove the cable clamp.
 (4) Connect the connecting wires to the terminal block.
 (5) Fix the connecting cable by cable clamp.
 (6) Fix the lid.
- (7) Close the air inlet panel

NOTE

Take care not to confuse the terminal numbers for indoor and outdoor connections.



Earth wire shall be Yellow/Green (Y/G) in color and longer than other AC wires for safety reason

⚠ WARNING

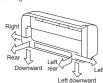
Incorrect wiring connection can cause malfunction or fire

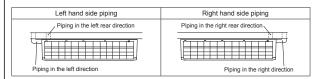
6. FORMING PIPING AND DRAIN HOSE

1. Forming pipingPiping is possible in the right, rear, downward, left, left rear or left downward direction

NOTE

Sufficient care must be taken not to damage the panels when connecting pipes.





Forming of pipings.

Hold the bottom of the piping and fix direction before stretching it and shaping it.

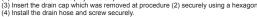


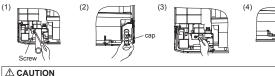
- Taping of the exterior
 Tape only the portion that goes through the wall.
 Always tape the wiring with the piping.



2. Drain change procedures

- Remove the screw and drain hose.
 Remove the drain cap by hand or pliers.
- Insert the drain cap which was removed at procedure (2) securely using a hexagonal wrench etc.





7. DRAINAGE WORK

Arrange the drain hose in a downward angle. Avoid the following drain piping.











Pour water to the drain pan located under the heat exchanger, and ensure that the water is discharged outdoor.
 When extended drain hose is present inside the room, insulate it securely with heat insulator available in the market.

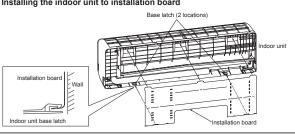
Incorrect installation of drain hose and cap can cause water leakage

Since this air-conditioner is designed to collect dew drops on the rear surface to the drain pan, do not install the connecting wire above the gutter.





8. INSTALLING INDOOR UNIT Installing the indoor unit to installation board



(1) Pass the pipe through the hole in the wall, and hook the upper part of the indoor unit to the installation board.

Incorrect drainage work can cause water leakage

⚠ CAUTION



(1) Dress the connecting pipes (both liquid and gas pipes) with insulation to prevent it from heating and Use the heat insulating material which can withstand 120°C or higher temperature. Make sure that insulation is wrapped tightly around the pipes and no gap is left between them.

(2) Wrap the refrigerant pipings of indoor unit with indoor unit heat insulation using tape.

(3) Cover the flare-connected joints (indoor side) with the indoor unit heat insulation and wrap it with an in-

Position it so that the slit area faces upward.

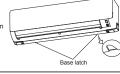
(2) Gently push the lower part to fix the indoor unit base lower latch to installation board.



Removing the indoor unit from installation board

- (1) Push up at the marked portion of the indoor unit base latch, and slightly pull it toward you (both right and left hand sides). (The indoor unit base latch can be removed from the installation
- (2) Push up the indoor unit upward so that it can be removed from

3. Heating and condensation prevention



Connecting cable

Liquid pipe

Gas pipe

Ø O

9. CONNECTING PIPING WORK

1. Preparation of connecting pipe

1.1. Selecting connecting pipe
Select connecting pipe according to the following table.

	Model SRK63	Model SRK71/80	Model SRK100
Gas pipe	φ12.7	φ 15.88	φ15.88
Liquid pipe	φ6.35	φ6.35	φ9.52
Pin 11 1 1 1 1 1 1 1			

- Pipe wall thickness must be greater than or equal to 0.8 mm (ø15.88:1.0mm)
- Pipe material must be O-type (Phosphorus deoxidized seamless copper pipe ICS 23.040.15, ICS 77.150.30).

1.2. Cutting connecting pipe

- Cut the connecting pipe to the required length with pipe cutter.
 Hold the pipe downward and remove the burrs. Make sure that no foreign material enters the pipe.
 Cover the connecting pipe ends with the tape.

2. Piping work

2.1. Flaring pipe

2.1. Haring pipe (1) Take out flare nuts from the operation valves of indoor unit and engage them onto connecting pipes. (2) Flare the pipes according to table and figure shown below. Flare dimensions for R32 are different from those for conventional refrigerant. Although it is recommended to use the fairing tools designed specifically for R32 or R410A, conventional flaring tools can also be used by adjusting the dimension B with a flare adjustment gauge.

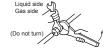
	Copper pipe outer diameter	А
−li∥	φ 6.35	9.1
	φ 9.52	13.2
	φ 12.7	16.6
1 (11	φ 15.88	19.7



	Copper pipe	B [Rigid (cl	utch) type]
	outer diameter	R32 or R410A	Conventional
1	Φ6.35		
9	φ9.52	0-0.5	1.0-1.5
	φ12.7	0-0.5	1.0-1.5
	φ15.88		

2.2 Connecting pipes
(1) Connect pipes on both liquid and gas sides.
(2) Tighten nuts to specified torque shown in the table below

Operation valve size (mm) Tightening torque (N·m) φ6.35 (1/4") φ9.52 (3/8") φ 12.7 (1/2") φ 15.88 (5/8") 49-61



⚠ CAUTION

- Do not apply refrigerating machine oil to the flared surface. It can cause refrigerant leakage.
 Do not apply excess torque to the flared nuts. The flared nuts may crack resulting in refrigerant
- leakage.

Improper insulation can leak or often sate(water) infiniation until gooding operation. Condensate can leak or drip causing damage to household property. Poor heat insulating capacity can cause pipe outer surface to reach high temperature during heating operation. It can cause cable deterioration and personal injury.

(2)

NOTE

⚠ CAUTION

4. Finishing work 4. Final Initial Work
4. Final Initial Work
(1) Make sure that the exterior portion of connecting pipes, connecting cable and drain hose is wrapped properly with tape. Shape the connecting pipes to match with the contours of the pipe assembly route.
(2) Fix the pipe assembly with the wall using clamps and screws. Pipe assembly should be anchored every 1.5m or less to isolate the vibration.
(3) Install the service cover securely. Water may enter the unit if service cover is not installed properly, resulting in unit malfunction and failure.

Improper insulation can cause condensate(water) formation during cooling operation.

sulation pad (standard accessory provided with indoor unit).

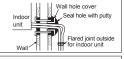
(4) Wrap the connecting pipes, connecting cable and drain hose with the tape

(3)



⚠ WARNING (only for R32)

- To avoid the risk of fire or explosion, the flared connection must/shall be installed outdoors.
- Reusable mechanical connectors and flared joints are not allowed indoors



Make sure that the connecting pipes do not touch the components within the unit. If pipes touch the internal components, it may generate abnormal sounds and/or vibrations.

10. HOW TO OPEN, CLOSE, REMOVE AND INSTALL THE AIR INLET PANEL

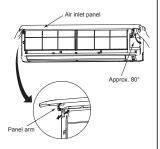
Pull the air inlet panel at both ends of lower part and release latches, then pull up the panel until you feel resistance. (The panel stops at approx. 60° open position)

2. Close

Hold the panel at both ends of lower part, lower it downward slowly, then push it slightly until the latch works.

3. Removing
Open the panel by 80° (as shown in the right illustration) and then pull it forward.

4. Installing
Seert the panel arm into the slot on the front 4. Installing Insert the panel arm into the slot on the front panel from the position shown in right illustra-tion, hold the panel at both ends of lower part, lower it downward slowly, then push it slightly until the latch works.



Installing remote control holder

 Select the place where the unit can receive signals. (2) Fix the holder to pillar or wall with wood

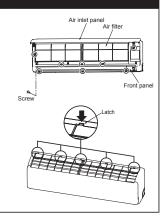
11. HOW TO REMOVE AND INSTALL FRONT PANEL

1. Removing

- (1) Remove the air inlet panel and the air filters.
 (2) Remove the 8 screws.
 (3) Remove the 5 upper latches and then front panel can be removed.

- panel can be removed.

 2. Installing
 (1) Cover the unit with the front panel and fix 5 upper latches.
 (2) Secure the front panel with the 8 screws.
 (3) Install the air inlet panel and the air filters.



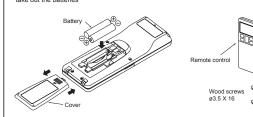
12. INSTALLING REMOTE CONTROL

Mount the batteries

- (1) Slide and take out the cover of backside.
 (2) Mount the batteries [R03 (AAA, Micro), ×2 pieces] in the body properly.
 (Fit he poles with the indication marks + & -)
- (3) Set the cover again.

NOTE

- Do not use new and old batteries together.
 In case the unit is not operated for a long time, take out the batteries

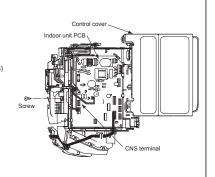


13. TERMINAL CONNECTION FOR AN INTERFACE

- (1) Remove the air inlet panel and
- front panel.
 (2) Remove the control cover.
 (Remove the screw.)
 (3) There is a terminal
 (respectively marked with CNS)
 for the indeper extent hourd. for the indoor control board. While connecting an interface, connect to the respective terminal securely with the connection harness supplied with an optional "Interface connection kit SC-BIKN2-E" and fasten the

connection harness onto the indoor control box with the clamp and screw supplied with

For more details, refer to the user's manual of "Interface connection kit SC-BIKN2-E"



14. INSTALLING TWO AIR-CONDITIONERS IN THE SAME ROOM

In case two air-conditioners are installed in the same room, apply this setting so that one unit can be operated with only one remote control.

- Setting one remote control
 (1) Slide and take out the cover and batteries.
 (2) Cut the switching line next to the battery
- with wire cutters.
 (3) Set the batteries and cover again.



- Setting one indoor unit

 (1) Turn off the power source and turn it on after 1 minute.

 (2) Send the signal by pressing the ACL switch on the remote control that was set according to the procedure described on the left side.

 (3) Check that the reception buzzer sound "peep" is emitted from the indoor unit. Since the signal is sent about 6 seconds after the ACL switch is pressed, point the remote control to the indoor unit for a while.

If no reception buzzer is emitted, restart the setting from the beginning.





15. PUMP DOWN WORK

For the environmental protection, be sure to pump down when relocating or disposing of the unit. Pump down is the method of recovering refrigerant from the indoor unit to the outdoor unit before the connecting pipes are removed from the unit. When pump down is carried out, forced cooling operation is needed.

Forced cooling operation

- (1) Turn off the power source and turn it on again after 1 miniute.
 (2) Press the ON/OFF button continuously for at
- least 5 seconds. Then operation will start

For the detail of pump down, refer to the installation manual of outdoor unit.



16. INSTALLATION CHECK AND TEST RUN

After finishing the installation work, check the following points again before turning on the power. Conduct a test run and ensure that the unit operates properly. At the same time, explain to the customer how to use the unit and how to take care of the unit following the user's manual.

Before test run Before test run, check following points.

Power source voltage complies with the rated voltage of air-conditioner.	
Earth leakage breaker and circuit breaker are installed.	
Power cable and connecting cable are securely fixed to the terminal block.	
Both liquid and gas operation valves are fully open.	
No gas leaks from the joints of the operation valves.	
Indoor and outdoor side pipe joints have been insulated.	
Hole on the wall is completely sealed with putty.	
Drain hose and cap are installed properly.	
Screw of the lid is tightened securely.	

Test run
Check following points during test run.

Indoor unit receives signal of remote control.	
Air-conditioning operation is normal.	
There is no abnormal noise.	
Water drains out smoothly.	
Display of remote control is normal.	

Alter test rull	
Explain the operating and maintenance methods to the user according to the user's manual.	
Keep this installation manual together with user's manual	

NOTE

During restart or change in operation mode, the unit will not start operating for approximately 3 minutes. This is to protect the unit and it is not malfunction.

(7) Effective range of cool/hot wind (Reference)

(a) FDT series

Guideline for ceiling height

Fan speed setting		Mo	odel	
ran speed setting	FDT50VH, 60VH	FDT71VH	FDT100VH	FDT125VH, 140VH
Hi	2.7m	3.0m	3.2m	3.6m
P-Hi	3.5m	3.8m	4.3m	4.5m

Notes (1) If the ceiling height is over 3m, please consider to add circulators.

This table shows reference values in case of four outlet.

If you shut some outlets, they are different.

Fan speed setting can be changed by using a wired remote control.

(b) FDE series

Model	Effective range
FDE50VH	7.5m
FDE60VH, 71VH	8.0m
FDE100VH, 125VH, 140VH	9.0m

[Conditions] 1. Height of unit: 2.4 - 3.0 (m) above floor level

2. Fan speed: Hi

3. Location: Free space without obstacles

4. The effective range means the horizontal distance for wind to reach the floor.

5. Wind speed at the effective range: 0.5 m/s

1.10.2 Electric wiring work installation

PSC012D117 A

Electrical wiring work must be performed by an electrician qualified by a local power provider according to the electrical installation technical standards and interior wiring regulations applicable to the installation site.

- Read the "SAFETY PRECAUTIONS" carefully first of all and then strictly follow it during the installation work in order to protect yourself.
- The precautionary items mentioned below are distinguished into two levels, AWARNING and ACAUTION .

AWARNING: Wrong installation would cause serious consequences such as injuries or death. ACAUTION: Wrong installation might cause serious consequences depending on circumstances. Both mentions the important items to protect your health and safety so strictly follow them by any means.

- The meanings of "Marks" used here are as shown on the right: Never do it under any circumstances. Always do it according to the instruction.
- Accord with following items. Otherwise, there will be the risks of electric shock and fire caused by overheating or short-circuit.

∆WARNING

- Be sure to have the electric wiring work done by qualified electrical installer, and use exclusive circuit.
 - Power source with insufficient capacity and improper work can cause electric shock and fire
- Use specified wire for electrical wiring, fasten the wiring to the terminal securely, and hold the cable securely in order not to apply unexpected stress on the terminal. Loose connections or hold could result in abnormal heat generation or fire.
- ●Arrange the electrical wires in the control box properly to prevent them from rising. Fit the lid of the services panel property. Improper fitting may cause abnormal heat and fire.
- Ouse the genuine option parts. And installation should be performed by a specialist.
- If you install the unit by yourself, it could cause water leakage, electric shock and fire.

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- ◆Do not repair by yourself. And consult with the dealer about repair. Improper repair may cause water leakage, electric shock or fire.
- Consult the dealer or a specialist about removal of the air-conditioner. Improper installation may cause water leakage, electric shock or fire.
- ●Turn off the power source during servicing or inspection work. If the power is supplied during servicing or inspection work, it could cause electric shock and injury by the operating fan.
- Shut off the power before electrical wiring work. It could cause electric shock, unit failure and improper running.

Perform earth wiring surely.

contact, smoke and fire.

Do not connect the earth wiring to the gas pipe, water pipe, lightning rod and telephone earth wiring. Improper earth could cause unit failure and electric shock due to a short-circuit. 4

- Earth leakage breaker must be installed
- If the earth leakage breaker is not installed, it can cause electric shocks.
- Make sure to install earth leakage breaker on power source line. (countermeasure thing to high harmonics.)
- Absence of breaker could cause electric shock Use the circuit breaker of correct capacity. Circuit breaker should be the one that disconnect all poles under over current.
 Using the incorrect one could cause the system failure and fire
- Do not use any materials other than a fuse of correct capacity where a fuse should be used.
- Connecting the circuit by wire or copper wire could cause unit failure and fire
- Use power source line of correct capacity.
 Using incorrect capacity one could cause electric leak, abnormal heat generation and fire. Do not mingle solid cord and stranded cord on power source and signal side
- In addition, do not mingle difference capacity solid or stranded cord. in audition, up not milligle difference capacity solid or stranded cord.

 Inappropriate cord setting could cause loosing screw on terminal block, bad electrical contact smoke and fire.
- Do not turn off the power source immediately after stopping the operation.

 Be sure to wait for more than 5 minutes. Otherwise it could cause water leakage or
- Do not control the operation with the circuit breaker. It could cause fire or water leakage. In addition, the fan may start operation unexpectedly and it may cause injury.

Control mode switching The control content of indoor units can be switched in following way. (is the default setting) Control Content Indoor unit address (0-Fh) Master/Slave Switching (plural /Slave unit Setting) SW5-2 Model capacity setting SW6-1~4 ON Operation check. Drain motor test run SW7 - 1 0FF Normal operation

① Electrical wiring connection

- Electrical wiring work must be performed by an electlician an qualified by a local power provider. These wiring specifications are determined on the assumption that the following instructions are observed:
- instructions are observed:

 "Do not use orost other than copper ones.

 Do not use any source line lighter than one specified in parentheses for each type below.

 -traided cord (code designation 60245 IEC 51), if allowed in the relevant part 2;

 -ordinary though rubber sheathed cord (code designation 60245 IEC 53);

 -lat twin tinsel cord (code designation 60227 IEC 41);

 -ordinary polying (chindre) sheathed cord (code designation 60227 IEC 53);

 2) Connect the power source to the outdoor unit.

 3) Pay extra attention so as not to confuse signal line and power source line connection, become at the confuse signal line and power source line connection, become at the confuse signal line and power source line connection, become at the confuse signal line and power source line connection, become at the confuse signal line and power source line connection, become at the confuse signal line and power source line connection, become at the confuse signal line and power source line connection, because the confuse signal line and power source line connection, because the confuse signal line and power source line connection, because the confuse signal line and power source line connection, because the confuse signal line and power source line connection, because the confuse signal line and power source line connection, because the confuse signal line and power source line connection, because the confuse signal line and power source line connection, because the confuse signal line and power source line connection, and the confuse signal line and power source line connection and line signal line and power source line connection and line signal line and lin
- burn all the boards at once.

 Connect ground wires before connecting wires between the indoor and outdoor units and between indoor units. The ground wires need to be longer than the wires between the indoor and outdoor units, and protected from undue stress.

 Do not turn on the power source before completing the work, Round crimp terminal

 The ground wires must be connected by the Class D grounding connection.

 Use the round crimp terminals for connections to the terminal block.

 Use dedicated branch circuits, avoiding combination with other devices. Otherwise, it could trip the power source breaker, resulting in secondary accidents.

 Install the overcurrent and earth leakage breakers (sensitivity current: 30 mA) specified to respective models.

- respective models.
- Do not connect indoor and outdoor signal cables to extension cables on the way. If the joint is wetted with intruding water, it could cause a ground insulation failure or poor connection, resulting in communication errors. (If it is inevitable to connect cables on the way, make sure to prevent the water intrusion completely.)
- When running wires (wires for power source, remote controller, connecting between indoor and outdoor units, or other) behind the ceiling, protect them using copper or other pipes
- arrio outdoor units, or other; or entitle tree terming, protect treint using copper or other pipes against assault by rat, or other.

 It is up to 3.5 mm² the size of power supply cables connected to indoor units. When using cables of 5.5 mm² or larger, provide a dedicated pull box for branching connection to indoor units.

 If signal and power source cables are connected mistakenly, it could burn down all PCBs.

 If signal power source cables are connected mistakenly, it could burn down all PCBs.

 If the remote control fails to detect the unit No. (address) at 15 minutes after turning the power on, check and repair all signal cables for resconnections.
- (2) If the refinite cumulus as a users are unit and connect connectors Chik (yellow) and Chik1 (white) to Chik2 (black).

 3) Cut the jumper wire J105L1 of burnt PCB, and reconnect connectors Chik (yellow) and Chik1 (white) to Chik2 (black).

 At the outside of indoor and outdoor units, take care to avoid direct contacts between remote control and power source cables.
- In no event connect the power source of 220/240/380/415 V to the remote control terminal block. It could cause failures.
- © Connections of Wiring between units, ground wire and remote control cable

 ① When connecting wires between units, ground wire or remote control wire, connect them according to the number of terminals on the power source terminal block or signal terminal block in the control box. Connect the ground wire to the ground terminal
- on the power source terminal olock or signal terminal olock in the control ox. Connect the ground were to the ground terminal on the power source terminal block.

 2 Make sure to install an earth leakage breaker for the power source. Select a breaker for inverter circuit.

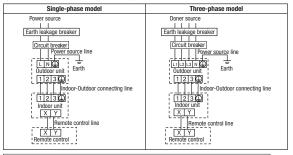
 3 When the earth leakage breaker is exclusive for the earth leakage protection, it is necessary to connect also an isolating switch (Switch + Class B fuse) or wiring circuit breaker in series to the earth leakage breaker.

 4 Install the isolating switch close to the unit.

 Connect wires securing by tightening screws firmly. Confirm also no connector or wire (from terminal) in disconnected it, it sho canterla low.
- terminal) is disconnected in the control box.
- When installing an auxiliary electric heater, consult the electric heater manual or technical data.

Cable connection for single unit installation

- ①As for connecting method of power source, select from following connecting patterns. In principle, do not directly connect power souce line to inside unit.
- ※ As for exceptional connecting method of power source, discuss with the power provider of the country with referring to technical documents, and follow its instruction.
- 2 For cable size and circuit breaker selection, refer to the outdoor unit installation manual.



Cable connection for a V multi configuration installation

- ①Connect the same pairs number of terminal block "①, ②, and ③"and " \bigotimes and \bigotimes " between master and slave indoor units.

 ②Do the same address setting of all inside units belong to same refrigerant system by rotary
- unit's numbers are displayed on the remote control unit by pressing the \blacktriangle or \blacktriangledown button.

Power source	Method of setting Master/Slave of indoor unit						
Earth leakage breaker	(Factory s	etting: "Ma	aster")				
Circuit breaker	Indoo	r Unit	Master	Slave 1	Slave 2	Slave 3	
	PCB	SW5-1	0FF	0FF	ON	ON	
L N D Earth	switch	SW5-2	0FF	ON	0FF	ON	
Outdoor unit	Twin ty	pe_	Triple ty	/pe	Double	twin type	
1 1 1 2 1 2 1	230	Earth	1230	Earl		100	그 Earth
Indoor unit Master Indo	or unit Slav	e 1	Indoor unit	Slave 2	Indoor u	init Slave 3	
	7/	i			الم	41	
X Y Remote or	ontrol line (no	polarity)					
Remote control							

② Remote control, wiring and functions

- Do not install it on the following places
- ①Places exposed to direct sunlight
- 2 Places near heat devices
- (3)High humidity places
- 4)Hot surface or cold surface enough to generate condensation
- ⑤Places exposed to oil mist or steam directly.

Installation and wiring of remote control

1) Install remote control referring to the attached installation manual.

②Wiring of remote control should use 0.3mm² ×2 core wires or cables.

The insulation thickness is 1mm or more. (on-site configuration)

(3) Maximum prolongation of remote control wiring is 600 m.

If the prolongation is over 100m, change to the size below

But, wiring in the remote control case should be under 0.5mm^2 . Change the wire size outside of the case according to wire connecting. Waterproof treatment is necessary at the wire connecting section. Be careful about contact failure.

$\begin{array}{llllllllllllllllllllllllllllllllllll$	100 - 200m	0.5 mm $^2 \times 2$ cores
	Under 300m	0.75mm ² × 2 cores
Under 600m 2.0mm ² × 2 core	Under 400m	1.25mm ² × 2 cores
	Under 600m	$2.0 \text{mm}^2 \times 2 \text{ cores}$

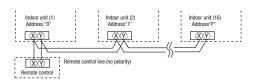
- Avoid using multi-core cables to prevent malfunction.
- ⑤Keep remote control line away from earth (frame or any metal of building).
- ⑥Make sure to connect remote control line to the remote control and terminal block of indoor unit. (No polarity)

Control plural indoor units by a single remote control

①A remote control can control plural indoor units (Up to 16).

In above setting, all plural indoor units will operate under same mode and temperature setting. 2Connect all indoor units with 2 core remote control line.

3 Set unique remote control communication address from "0" to "F" to each inside unit by the rotary switch SW2 on the indoor unit's PCB.



Master/ slave setting when more than one remote control unit are used

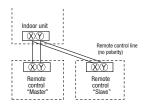
A maximum of two remote control units can be connected to one indoor unit (or one group of indoor units.)

The air-conditioner operation follows the last operation of the remote control regardless of the master/slave setting of it.

Acceptable combination is "two (2) wired remote controls", "one (1) wired remote control and one (1) wireless kit" or "two (2) wireless kits".

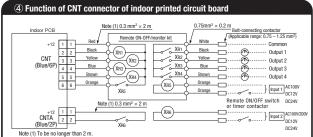
Set one to "Master" and the other to "Slave".

Note:The setting "Remote control unit sensor enabled" is only selectable with the master remote control unit in the position where you want to check room temperature.



Vo.	Item	Operation from the eco touch remote control (RC-EX series)	Operation from the standard remote control (RC-E series)
1	Check the number of units connected in the multi remote control system.	[Menu] ⇒ [Service setting] ⇒ [Service & Maintenance] ⇒ [Service password] ⇒ [IU address]	 Press the AIR CON NO button to display the IIJ address. Press the A or ▼ button and check addresses of connected indoor units one by one.
connected properly Service & Maintenance ⇒ in the remote Service password ⇒ Check run mode Control system.		[Service & Maintenance] ⇒ [Service password] ⇒	① Press the AIR CON NO button to display the IU address. ② Press the Ao or Dutton and select one of IU addresses. ③ Press the ④ (MODE) button. The unit starts to blow air.
3	Setting main/sub remote controls	[Menu] ⇒ [Service setting] ⇒ [R/C function settings] ⇒ [Service password] ⇒ [Main/Sub of R/C]	Set SW1 to "Sub" for the sub remote contro unit.
4	Checking operation data	[Menu] ⇒ [Service setting] ⇒ [Service & Maiintenance] ⇒ [Service password] ⇒ [Operation data]	Press the ☐ECX button. ⇒ "IFERIATA v" is displayed. ⇒ Press the ☐ (SET) button ⇒ "INFILIAMEN' is displayed. ⇒ Select one of addresses for connected indoor units by pressing the [ar or] button. ⇒ Press the [ar or] button. ⇒ Press the [ar or] button. ⇒ Press the [ar or] button. ⇒ Pressing the [ar or] button.
5	display [Service & Maintenance] ⇒ [Service password] ⇒ [Error display]		Press the (CHECK) button. ⇒ "DFFR DATA displayed. ⇒ Press the ▼ button. ⇒ "EMR DATA A " is displayed. ⇒ Press the (○ (SET) button. ⇒ "MATA DATA" is displayed. ⇒ Data is displayed.
Gooling test run from remote control Service setting ⇒ Installation settings ⇒ Installation			
7	Trial operation of drain pump from remote control	$\begin{split} & [Menu] \Rightarrow [Service \ setting] \Rightarrow \\ & [Installation \ settings] \Rightarrow \\ & [Service \ password] \Rightarrow [Test \ run] \Rightarrow \\ & [Drain \ pump \ test \ run] \Rightarrow [Run] \end{split}$	① Start the system by pressing the (DOWOPE) button. The display will chang to "#ETER RN ▼". ② Press the ▼ button once to display "ORNINUM" ÷ ". ③ Pressing the □ (SET) button starts the drain pump operation. The display will show "+SCI 10 STP".

The menu configuration may vary depending on models of the remote control. If the model of your remote control is different, refer to the installation manual attached to the remote control.



- ■XR1-4 are DC 12 V relays. (Equivalent to Omron's LY2F)
- \bullet XR5 is a DC 12 V, 24 V or 100 V, 200 V relay. (Equivalent to Omron's MY2F)
- Maker and model of CnT connector (Site side)

Connector : Molex 5264-06 Terminal : Molex 5263T

● CnTA connector is used on FDT, or other. < Check with the specifications. > (Site side) Maker and model Connector: J.S.T. Mfg. XAP02V-1-E

Terminal : J.S.T. Mfg. SXA-01T-P0.6

Output 1 − 4 and input1/2 can be selected/set as required from following items. ctory default is set as shown below

RUN output	8 Fan ON output 3
② Heating output	Defrost/oil return output
3 Compressor ON output	Ventilation output
Inspection (error) output	Heater output
Cooling output	12 Free cleaning output
6 Fan ON output 1	Indoor overload error output
7 Fan ON output 2	
nput ① RUN/STOP	Setting temp. shift
RUN permit prohibition	6 Compulsory thermostat OFF
3 Emergency stop	Temporary stop
	7 Temporary stop 8 Silent mode
3 Emergency stop 4 Cooling/Heating	
Emergency stop Cooling/Heating Cort-2 Output 1 RUN output	Silent mode CnT-5 Output 4 Inspection (error) output
Emergency stop Cooling/Heating Factory default setting	Silent mode

⑤ Operation and setting from remote control A : Refer to the instruction manual for RC-EX series ○ : Nearly same function setting and operations are possible. *1: Remote controls before RC-EX1A don't have this function. B: Refer to the installation manual for RC-EX series *2: Remote controls before RC-EX3 don't have this function. △ : Similar function setting and opperations are possible. C : Loading a utility software vie Internet Setting & display iten Description RC-EX3A RC-E5 .Remote Control network 1 Control plural indoor units by a single remote control A remote control can control plural indoor units up to 16 (in one group of remote control network). An address is set to each indoor unit. 2 Main/sub setting of remote controls A pair of remote controls (including option wireless remote control) can be connected within the remote control В network. Set one to "Main" and the other to "Sub" 2.TOP scrren, Switch manipulation "Control","State", or "Details" can be selected. (3-8) "Cooling","Heating","Fan","Dry" or "Auto" can be set. 1 Menu 2 Operation mode 3 Set temp. 4 Air flow direction "Set temperature" can be set by 0.5°C interval. Α "Air flow direction" [Individual flap control] can be set. Select Enable or Disable for the "3D AUTO" (in case of FDK). *1 Α 5 Fan speed 'Fan speed" can be set. 6 Timer setting 7 ON/OFF "Timer operation" can be set. "On/Off operation of the system" can be done. 8 F1 SW 9 F2 SW The system operates and is controlled according to the function specified to the F1 switch. The system operates and is controlled according to the function specified to the F2 switch 10 Select the language Select the language to display on the remote control Α Select from English, German, French, Spanish, Italian, Dutch, Turkish, Portuguese, Russian, Polish, Japanese and Chinese. 3.Useful functions 1 Individual flap control The moving range (the positions of upper limit and lower limit) of the flap for individual flap can be set. Α \triangle Set also the left and right limit positions for FDK. *1 2 Anti draft settingYou can set Enable or Disable for anti draft motion performed at each blow outlet in each operation mode Α When the panel with the anti-draft function is assembled. ${\tt ON/OFF\ setting\} You\ can\ set\ {\tt ON/OFF\ (operation/stop)\ of\ anti}\ draft\ function\ for\ the\ enabled\ blow\ outlet\ set\ in\ Details.$ The period of time to start operation after stopping can be set. 3 Timer settings Set On timer by hour The period of set time can be set within range of 1hour-12houres (1hr interval) The operation mode, set temp-and fan speed at starting operation can be set. Α \triangle Set Off timer by hour The period of time to stop operation after starting can be set Α Δ The period of set time can be set within range of 1hour-12houres (1hr interval) Set On timer by clock The clock time to start operation can be set. The set clock time can be set by 5-minutes intervals. [Once (one time only)] or [Everyday] operation can be switched. The operation mode, set temp. and fan speed at starting operation can be set. Α The clock time to stop operation can be set. The set clock time can be set by 5-minute intervals. [Once (one time only)] or [Everyday] operation can be switched Set Off timer by clock Α \triangle tatus of timer settings can be seen. Confirmation of timer settings Set the operation mode, setting temperature, air flow capacity and air flow direction for the choice setting operations 4 Favorite setting Α Set them for the Favorite set 1 and the Favorite set 2 respectively. On timer and Off timer on weekly basis can be set. 8-operation patterns per day can be set at a maximum. [Administrator password] Weekly timer orberation factories per day can be set at a maximum. The setting clock time can be set by 5-minute intervals. Holiday setting is available. The operation mode, set temp. and fan speed at starting operation can be set. Α When leaving home for a long period like a vaction leave, the unit can be operated to maintain the room temperature not to be hotter in summer or not to be colder in winter. The judgment to switch the operation mode (Cooring ⇔ Heating) is done by the both factors of the set temp. and outdoor air temp. The set temp. and fan speed can be set. 6 Home leave mode Administrator password1 On/Off operation of the external ventilator can be done. It is necessary to set from [Menu] ⇒ [Service setting] ⇒ [R/C function settings] ⇒ [Ventilation setting]. If the "Independent" is selected for the ventilation setting, the ventilator can be operated or stopped. 7 External Ventilation When the ventilator is combined. Α Select the language to display on the remote control. Select from English, German, French, Spanish, Italian, Dutch, Turkish, Portuguese, Russian, Polish, Japanese and Chinese. *1 8 Select the language Α 9 Silent mode control The period of time to operate the unit by prioritizing the quietness can be set Start and end can be set for the silent mode Α Administrator password 4.Energy-saving setting To prevent the timer from keeping ON, set hours to stop operation automatically with this timer. 1 Sleep timer \triangle The selectable range of setting time is from 30 to 240 minutes. (10-minute intervals) When setting is "Enable", this timer will activate whenever the ON timer is set. Α Power consumption can be reduced by restructing the maximum capacity. Set the [Start time], the [End time] and the capacity limit % (Peak-cut %). 4-operation patterns per day can be set at maximum. The setting time can be changed by 5-minute intervals. The selectable range of capacity limit % (Peak-cut %) is from 0% to 40-80% (20% interval). 2 Peak-cut timer Α Holiday setting is available. After the elapse of the set time period, the current set temp. will be set back to the [Set back time.] * The setting can be done in cooling and heating mode respectively. * Selectable range of the set time is from 20 min. to 120 min. (10 min. interval). * Set the [Set back temp.] by 1°C interval. 3 Automatic temp set back When the motion sensor is used, it is necessary to set Enable or Disable for the "Power control" and the "Auto-off". 4 Motion sensor control Α When the panel with the motion sensor is assembled The filter sign can be reset 1 Filter sign reset Filter sign reset Setting next cleaning date The next cleaning date can be set 6.User setting The current date and time can be set or revised. If a power failure continues no longer than 80 hours, the clock continues to tick by the built-in power source. 1 Internal settings Clock setting Α Date and time display [Display] or [Hide] the date and/or time can be set, and [12H] or [24H] display can be set. When select [Enable], the +1hour adjustment of current time can be set. When select [Disable], the [Summer time] adjustment can be reset Summer time Contrast The contrast of LCD can be adjusted higher or lower. Switching on/off a light can be set and period of the lighting time can be set within the range of 5sec-90 sec (5sec interval) Backlight It can set with or without [Control sound (beep sound)] at touch panel. Control sound Operation lamp luminance This is used to adjust the luminance of operation lamp. Α Permission/Prohibition setting of operation can be set. [On/Off] [Change set temp] [Change operation mode] [Change flap direction] [Change fan speed] [High power operation] [Energy-saving operation] [Timer] Request for administrator can be set. 2 Administrator settings ermission/Prohibition setting Administrator password [Individual flap control] [Weekly timer] [Select the language] [Anti draft setting] *1 The period of time to operate the outdoor unit by prioritizing the quiteness can be set. The [Start time] and the [End time] for operating outdoor unit in silent mode can be set. Outdoor unit silent mode time Α The period of the operation time can be set once aday by 5-minute interals. The upper/lower limit of temp. setting range can be set. The limitation of indoor temp. setting range can be set for each operation mode in cooling and heating. Setting temp, range Α \triangle

ting & display item		Description	RC-EX3A	RC-
Administrator settings	Temp increment setting	The temp increment setting can be changed by 0.5°C or 1.0°C.	A	
1	Set temp display	Ways of displaying setting temperatures can be selected.	A	
[Administrator password]	R/C display setting	Register [Room name] [Name of I/U]		
		Display [Indoor temp display] or not. Display [Error code display] or not.	Α	_
		Display [Error code display] or not. Display [Heating stand-by display] [Defrost operation display] [Auto cooling/heating display] [Display temp of R/C, Room, Outdoor] or not		
	Change administrator password	The administrator password can be changed. (Default setting is "0000")	Α	
		The administrator password can be reset.	В	
	F1/F2 function setting *1	Functions can be set for F1 and F2. Selectable functions: [Anti draft ON/OFF] *2		
		[High power operation], [Energy-saving operation], [Silent mode cont.], [Home leave mode], [Favorite set 1], [Favorite set 2] and [Filter sign reset].	Α	
ervice setting		[i avonte set 2] and [i nee sign reset].		\vdash
Installer settings	Installation date	The [Installation date] can be registed.		
[Service password]		When registering the [Instaration date], the [Next service date] is displayed automatically.	В	
[Service password]	0	(For changing the [Next service date], please refer the item of [Service & Maintenance])		
	Company information	The [Company information] can be registed and can be displayed on the R/C. • The [Company] can be registered within 26 characters.	В	
		• The [Phone No.] can be registed within 13 digits.	ь	
	Test run	On/Off operation of the test run can be done.		
	Cooling test run	The [Cooling test run] can be done at 5°C of set temp. for 30 minutes.	В	
	Drain pump test run	Only drain pump can be operated.		
	Staric pressure adjustment	In case of combination with only the ducted indoor unit which has a function of static pressure adjustment, the static pressure is adjustable. • It can be set for each indoor unit individually.	В	
	Change auto-address	The set address of each indoor unit decided by auto-address setting method can be changed to any other address. (For		\vdash
		multiple KX units only)	В	
	Address setting of	Main indoor unit address can be set.	_	
	main IU	 Only the Main indoor unit can change operation mode and the Sub indoor units dominated by the Main indoor shall follow. The Main indoor unit can domain 10 indoor units at a maximum. 	В	4
	IU back-up function	When a pair of indoor units (2 groups) is connected to one unit of remote control, it can be set Enable or Disable for the	_	
	Suon up fullotion	[IU rotation], [IU capacity back-up] and [IU fault back-up]	В	L
	Motion sensor setting *1	Set Enable or Disable for the infrared sensor detectors of indoor units connected to the remote control.		
	When the panel with the motion	If Disable is selected, it cannot be control the motion sensor control for the energy-saving setting.	В	
R/C function setting	sensor is assembled. Main/Sub R/C	The R/C setting of [Main/Sub] can be changed.	В	
In/o fullclion setting	Return air temp	When two or more indoor units are connected to one unit of remote control, suction sensors, which are used for the	ь	
[Service password]	netum an temp	judgement by thermostat, can be selected.	В	
		• It can be selected from [Individual], [Master IU] and [Average temp].		
	R/C sensor	It can be set the mode to switch to the remote control sensor. It can be selected from cooling and heating.	В	
	R/C sensor adjustment	The offset value of [R/C sensor] sensing temp, can be set respectively in heating and cooling.	В	
	Operation mode °C / °F	Enable or Disable can be set for each operation mode. Set the unit for setting temperatures.	В	
	671	• °C or °F can be selected.	В	
	Fan speed	Fan speeds can be selected.	В	(
	External input	When two or more indoor units are connected to one unit of remote control, the range to apply CNT inputs can be set.	В	(
	Upper/lower flap control	[Stop at fixed position] or [Stop at any position] can be selected for the upper and lower louvers.	В	(
	Left/right flap control *1 Ventilation setting	[Fixed position stop] or [Stop at any position] can be selected for the right and left louvers. Combination control for ventilator can be set.	B B	
	Auto-restart	The operation control method after recovery of power failure happened during operation can be set.	В	
	Auto temp setting	[Enable] or [Disable] of [Auto temp setting] can be selected.	В	
	Auto fan speed	[Enable] or [Disable] of [Auto fan speed] can be selected.	В	
IU settings	Fan speed setting	The fan speed for indoor units can be set.	В	(
	Filter sign	The setting of filter sign display timer can be done from following patterns.	В	
[Service password]	External input 1	The connect of control by external input 1 can be changed.	В	
	External input 1 signal External input 2	The type of external input 1 signal can be changed. The connect of control by external input 2 can be changed.	B B	
	External input 2 signal	The type of external input 2 signal can be changed.	В	
		The judgement temp. of heating themo-off can be adjusted within the range from 0 to +3°C (1°C interval)	В	
	Return temperature adjustment	The sensing temp. of return air temp. sensor built in the indoor unit can be adjusted within the range of $\pm 2^{\circ}$ C.	В	
		Fan control, when the cooling thermostat is turned OFF, can be changed.	В	(
		Fan control, when the heating thermostat is turned OFF, can be changed.	В	(
	Anti-frost temp	Judgment temperature for the anti-frost control during cooling can be changed. When the anti-frost control of indoor unit in cooling is activated, the fan speed can be changed.	B B	
	Anti-frost control Drain pump operation	When the anti-frost control of indoor unit in cooling is activated, the fan speed can be changed. In any operation mode in addition to cooling and dry mode, the setting of drain pump operation can be done.	В	
		The time period residual fan operation after stopping or thermo-off in cooling mode can be set.	В	
	Keep fan operating after heating is stopped	The time period residual fan operation after stopping or thermo-off in heating mode can be set.	В	
	Intermittent fan operation in heating	The fan operation rule following the residual fan operation after stopping or themo-off in heating mode can be set.	В	(
	Fan circulator operation	In case that the fan is operated as the circulator, the fan control rule can be set.	В	
	Control pressure adjust	When only the OA processing units are operated, control pressure value can be changed. The [Auto rule selection] for switching the operation mode automatically can be selected from 3 patterns.	B B	
	Auto operation mode Thermo. rule setting	The [Auto rule selection] for switching the operation mode automatically can be selected from 3 patterns. When selecting [Outdoor air temp. control], the judgment temp can be offset by outdoor temp	B	\vdash
	Auto fan speed control	Auto switching range for the auto fan speed control can be set.	В	
	IU overload alarm	If the difference between the setting temperature and the suction temperature becomes larger than the temperature difference set for	В	
		the overload alarm, at 30 minutes after the start of operation, the overload alarm signal is transmitted from the external output (CNT-5).		
		Functions assigned to the external outputs 1 to 4 can be changed.	В	
Service & Maintenance	IU address	Max 16 indoor units can be connected to one remote control, and all address No. of the connected indoor units can be displayed. • The indoor unit conforming to the address No. can be identified by selecting the address No. and tapping [Check] to operate the	В	
[Service password]		indoor fan.	ь	`
	Next service date	The [Next service date] can be registered.	A B	(
	O continue data	• The [Next service date] and [Company information] is displayed on the message screen.		
	Operation data	The [Operation data] for indoor unit and outdoor unit can be displayed.	В	
	Error display Error history	The error history can be displayed.		
	Display anomaly data	The operation data just before the latest error stop can be displayed.	В	_
	Erase anomaly data	Anomaly operation data can be erased.	b	ا ا
	Reset periodical check	The timer for the periodical check can be reset.		
	Saving IU settings	The I/U settings memorized in the indoor PCB connected to the remote control can be saved in the memory of the remote control.	В	
	Special settings	[Erase IU address] [CPU reset] [Restore of default setting] [Touch panel calibration]	В	
	Indoor unit capacity display *1	Address No. and capacities of indoor units connected to the remote control are displayed.	В	
ontact company spection		Shows registered [Contact company] and [Contact phone].		
apootiuii			Α	
Confirmation of Inspection		This is displayed when any error occurs.		

1.10.3 Installation of wired remote control (Option parts) (1) Model RC-EX3A

1) Safety precautions

●Please read this manual carefully before starting installation work to install the unit properly. Every one of the followings is important information to be observed strictly.

∕ •\WARNING	Failure to follow these instructions properly may result in serious
consequences such as death, severe injury, etc.	
⚠ CAUTION	Failure to follow these instructions properly may cause injury or property
Z:SCAUTION	damage.

It could have serious consequences depending on the circumstances.

The following pictograms are used in the text.

Never do.	Always follow the instructions given.

Keep this manual at a safe place where you can consult with whenever necessary. Show this manual to installers when moving or repairing the unit. When the ownership of the unit is transferred, this manual should be given to a new owner.

MARNING

- Consult your dealer or a professional contractor to install the unit.

 Improper installation made on your own may cause electric shocks, fire or dropping of the unit.
- Installation work should be performed properly according to this installation manual.

Improper installation work may result in electric shocks, fire or break-down.

- Be sure to use accessories and specified parts for installation work.

 Use of unspecified parts may result in drop, fire or electric shocks.
- Install the unit properly to a place with sufficient strength to hold the weight.

If the place is not strong enough, the unit may drop and cause injury.

Be sure to have the electrical wiring work done by qualified electrical installer, and use exclusive circuit.

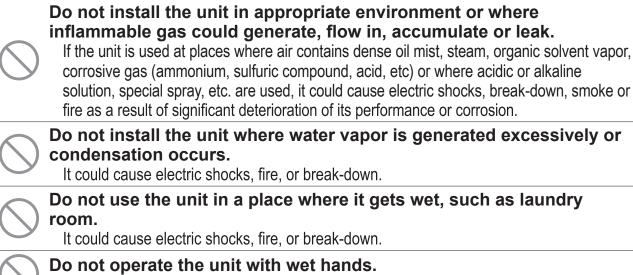
Power source with insufficient and improper work can cause electric shock and fire.

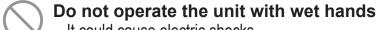
- Shut OFF the main power source before starting electrical work. Otherwise, it could result in electric shocks, break-down or malfunction.
- Do not modify the unit.

 It could cause electric shocks, fire, or break-down.
 - Be sure to turn OFF the power circuit breaker before repairing/ inspecting the unit.

Repairing/inspecting the unit with the power circuit breaker turned ON could cause electric shocks or injury.

↑ WARNING





It could cause electric shocks.

Do not wash the unit with water. It could cause electric shocks, fire, or break-down.

Use the specified cables for wiring, and connect them securely with care to protect electronic parts from external forces.

Improper connections or fixing could cause heat generation, fire, etc.

Seal the inlet hole for remote control cable with putty.

If dew, water, insect, etc. enters through the hole, it could cause electric shocks, fire or break-down.

If dew or water enters the unit, it may cause screen display anomalies.

When installing the unit at a hospital, telecommunication facility, etc., take measures to suppress electric noises.

It could cause malfunction or break-down due to hazardous effects on the inverter, private power generator, high frequency medical equipment, radio communication equipment, etc.

The influences transmitted from the remote control to medical or communication. equipment could disrupt medical activities, video broadcasting or cause noise interference.

Do not leave the remote control with its upper case removed. If dew, water, insect, etc. enters through the hole, it could cause electric shocks, fire or break-down.

ACAUTION

Do not install the remote control at following places.

- (1) It could cause break-down or deformation of remote control.
 - Where it is exposed to direct sunlight
 - Where the ambient temperature becomes 0 °C or below, or 40 °C or above
 - Where the surface is not flat
 - · Where the strength of installation area is insufficient
- (2) Moisture may be attached to internal parts of the remote control, resulting in a display failure.
 - Place with high humidity where condensation occurs on the remote control
 - · Where the remote control gets wet
- (3) Accurate room temperature may not be detected using the temperature sensor of the remote control.
 - · Where the average room temperature cannot be detected
 - Place near the equipment to generate heat
 - Place affected by outside air in opening/closing the door
 - Place exposed to direct sunlight or wind from air-conditioner
 - Where the difference between wall and room temperature is large

To connect to a personal computer via USB, use the dedicated software.

Do not connect other USB devices and the remote control at the same time.

It could cause malfunction or break-down of the remote control/personal computer.

2) Accessories & Prepare on site

Following parts are provided.

Accessories R/C main unit, wood screw (ø3.5 x 16) 2 pcs., Quick reference

Following parts are arranged at site. Prepare them according to the respective installation procedures.

Item name	Q'ty	Remark
Switch box For 1 piece or 2 pieces (JIS C 8340 or equivalent)	1	
Thin wall steel pipe for electric appliance directly on a wall. (JIS C 8305 or equivalent)	As required	These are not required when installing directly on a wall.
Lock nut, bushing (JIS C 8330 or equivalent)	As required	
Lacing (JIS C 8425 or equivalent)	As required	Necessary to run R/C cable on the wall.
Putty	Suitably	For sealing gaps
Molly anchor	As required	
R/C cable (0.3 mm ² x 2 pcs.)	As required	See right table when longer than 100 m

When the cable length is longer than 100 m, the max size for wires used in the R/C case is 0.5 mm². Connect them to wires of larger size near the outside of R/C. When wires are connected, take measures to prevent water, etc. from entering inside.

≦ 200 m	0.5 mm ² x 2 cores
≦ 300m	0.75 mm ² x 2 cores
≦ 400m	1.25 mm ² x 2 cores
≦ 600m	2.0 mm ² x 2 cores

3) Installation place

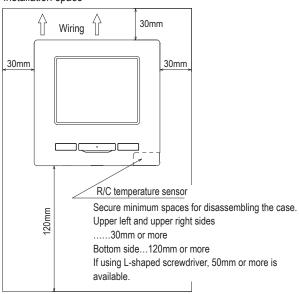
Secure the installation space shown in the figure.

For the installation method, "embedding wiring" or "exposing wiring" can be selected.

For the wiring direction, "Backward", "Upper center" or "Upper left" can be selected.

Determine the installation place in consideration of the installation method and wiring direction.

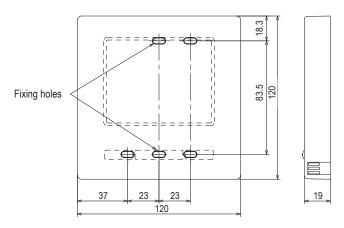
Installation space



4) Installation procedure

Perform installation and wiring work for the remote control according to the following procedure.

Dimensions (Viewed from front)



To disassemble the R/C case into the upper and lower pieces after assembling them once

 \cdot Insert the tip of flat head screwdriver or the like in the recess at the lower part of R/C and twist it lightly to remove. It is recommended that the tip of the screwdriver be wrapped with tape to avoid damaging the case.

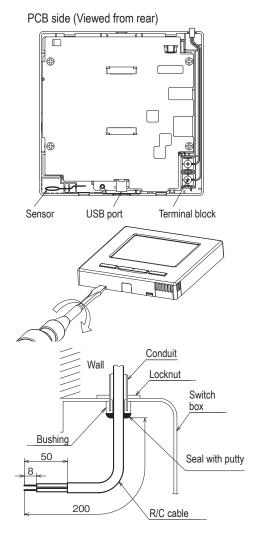
Take care to protect the removed upper case from moisture or dust.

In case of embedding wiring

(When the wiring is retrieved "Backward")

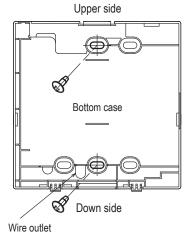
1) Embed the switch box and the R/C wires beforehand.

Seal the inlet hole for the R/C wiring with putty.

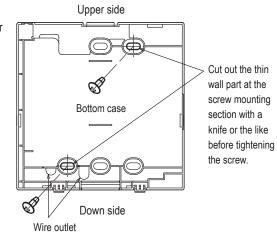


② When wires are passed through the bottom case, fix the bottom case at 2 places on the switch box.

Switch box for 1 pcs.



Switch box for 2 pcs.

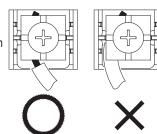


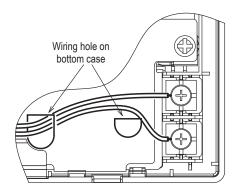
- ③ Connect wires from X and Y terminals of R/C to X and Y terminals of indoor unit. R/C wires (X, Y) have no polarity. Fix wires such that the wires will run around the terminal screws on the top case of R/C.
- 4 Install the upper case with care not to pinch wires of R/C.

Cautions for wire connection

Use wires of no larger than 0.5 mm² for wiring running through the remote control case. Take care not to pinch the sheath.

Tighten by hand $(0.7\ N\cdot m\ or\ less)$ the wire connection. If the wire is connected using an electric driver, it may cause failure or deformation.





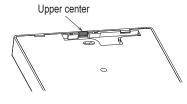
In case of exposing wiring

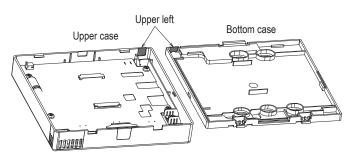
(When the wiring is taken out from the "upper center" or "upper left" of R/C)

1) Cut out the thin wall sections on the cases for the size of wire.

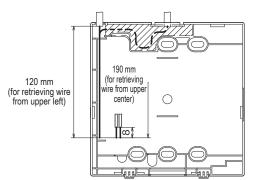
When taking the wiring out from the upper center, open a hole before separating the upper and bottom cases. This will reduce risk of damaging the PCB and facilitate subsequent work.

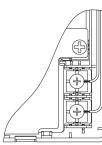
When taking the wiring out from the upper left, take care not to damage the PCB and not to leave any chips of cut thin wall inside.





- ② Fix the bottom R/C case on a flat surface with two wood screws.
- ③ In case of the upper center, pass the wiring behind the bottom case. (Hatched section)
- (4) Connect wires from X and Y terminals of R/C to X and Y terminals of indoor unit. R/C wires (X, Y) have no polarity. Fix wires such that the wires will run around the terminal screws on the top case of R/C.
- ⑤ Install the top case with care not to pinch wires of R/C.
- 6 Seal the area cut in 1 with putty.



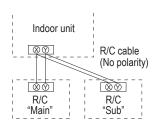


5) Main/Sub setting when more than one remote control are used

Up to two units of R/C can be used at the maximum for 1 indoor unit or 1 group.

One is main R/C and the other is sub R/C.

Operating range is different depending on the main or sub R/C.



R/C operation	Main	Sub		
Run/Stop, Change set temp., Change flap direction, Auto swing, Change fan speed operations				0
High power of	peration, En	ergy-saving operation	0	0
Silent mode of	control		0	×
Useful	Individual f	ap control	0	×
functions	Anti draft se	etting	0	×
	Timer		0	0
	Favorite se	tting	0	0
	Weekly tim	er	0	×
	Home leave	e mode	0	×
	External ve	ntilation	0	0
	Select the I	anguage	0	0
Silent mode control				×
Energy-saving setting				×
Filter	Filter sign reset		0	0
User setting	Initial settin	gs	0	0
		Permission/ Prohibition setting	0	×
		Outdoor unit silent mode timer	0	×
		Setting temp. range	0	×
		Temp increment setting		×
		Set temp. display	0	0
	R/C display setting		0	0
		Change administrator password	0	0
		F1/F2 function setting	0	0

○ : operable ×: not operable					
R/C operation	Main	Sub			
Service	Installation	Installati	0	×	
setting	settings	Compan	y information	0	0
		Test run		0	×
		Static pr	essure adjustment	0	×
		Change	auto-address	0	×
		Address	setting of main IU	0	×
		IU back-	up function	0	×
		Motion s	ensor setting	0	×
	R/C function	Main/Su	b of R/C	0	0
	settings	Return a	nir temp.	0	×
		R/C sen	sor	0	×
		R/C sen	sor adjustment	0	×
		Operation	n mode	0	×
		°C / °F		0	×
		Fan spe	ed	0	×
		External	0	×	
		Upper/lo	0	×	
		Left/right flap control		0	×
		Ventilation	on setting	0	×
		Auto-res	0	×	
		Auto ten	0	×	
		Auto fan	0	×	
	IU settings		0	×	
	Service &	IU address		0	0
	Maintenance	Next ser	0	×	
		Operation	0	×	
		Error	Error history	0	0
		display	Display/erase anomaly data	0	×
			Reset periodical check	0	0
		Saving I	0	×	
		Special	Erase IU address	0	×
		settings	CPU reset	0	0
			Restore of default setting	0	×
			Touch panel calibration	0	0
		Indoor u	0	×	

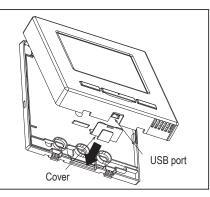
Advice: Connection to personal computer

It can be set from a personal computer via the USB port (mini-B). Connect after removing the cover for USB port of upper case.

Replace the cover after use.

Special software is necessary for the connection.

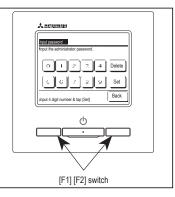
For details, view the web site.



Advice: Initializing of password

Administrator password (for daily setting items) and service password (for installation, test run and maintenance) are used.

- The administrator password at factory default is "0000". This setting can be changed (Refer to User's Manual).
 - If the administrator password is forgotten, it can be initialized by holding down the [F1] and [F2] switches together for five seconds on the administrator password input screen.
- Service password is "9999", which cannot be changed.
 When the administrator password is input, the service password is also accepted.



Advice

When connecting two or more FDT/FDTC to one R/C, unify the panel type either to a panel with anti draft function or a standard panel.

(2) Model RC-E5



Read together with indoor unit's installation manual.

⚠WARNING

Fasten the wiring to the terminal securely and hold the cable securely so as not to apply unexpected stress on the terminal.

Loose connection or hold will cause abnormal heat generation or fire.

Make sure the power source is turned off when electric wiring work. Otherwise, electric shock, malfunction and improper running may occur.



ACAUTION

- Do not install the remote control at the following places in order to avoid malfunction.
 - (1) Places exposed to direct sunlight
- (4) Hot surface or cold surface enough to generate condensation
- (2) Places near heat devices
- (5) Places exposed to oil mist or steam directly
- (3) High humidity places
- (6) Uneven surface



Do not leave the remote control without the upper case.

In case the upper cace needs to be detached, protect the remote control with a packaging box or bag in order to keep it away from water and dust.

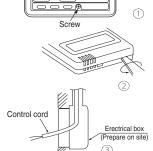


Accessories Remote control, wood screw (ϕ 3.5x16) 2 pieces Prepare on site Remote control cord (2 cores) the insulated thickness in 1mm or more.

[In case of embedding cord] Erectrical box, M4 screw (2 pieces)
[In case of exposing cord] Cord clamp (if needed)

Installation procedure

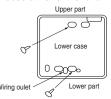
- Open the cover of remote control, and remove the screw under the buttons without fail.
- ② Remove the upper case of remote control. Insert a flat-blade screwdriver into the dented part of the upper part of the remote control, and wrench slightly.

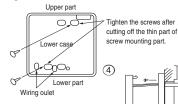


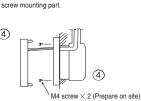
[In case of embedding cord]

3 Embed the erectrical box and remote control cord beforehand.

Prepare two M4 screws (recommended length is 12-16mm) on site, and install the lower case to erectrical box. Choose either of the following two positions in fixing it with screws.



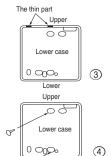




- Connect the remote control cord to the terminal block. Connect the terminal of remote control (X,Y) with the terminal of indoor unit (X,Y). (X and Y are no polarity)
- Install the upper case as before so as not to catch up the remote control cord, and tighten with the screws.

[In case of exposing cord]

- ③ You can pull out the remote control cord from left upper part or center upper part. Cut off the upper thin part of remote control lower case with a nipper or knife, and grind burrs with a file etc.
- (4) Install the lower case to the flat wall with attached two wooden screws.

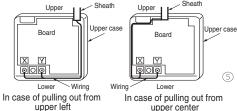


Lower

5 Connect the remote control cord to the terminal block.

Connect the terminal of remote control (X,Y) with the terminal of indoor unit (X,Y). (X and Y are no polarity)

Wiring route is as shown in the right diagram depending on the pulling out direction.



The wiring inside the remote control case should be within 0.3mm² (recommended) to 0.5mm². The sheath should be peeled off inside the remote control case.

The peeling-off length of each wire is as below.

Pulling out from upper left	Pulling out from upper center
X wiring : 215mm	X wiring : 170mm
Y wiring: 195mm	Y wiring: 190mm



- Install the upper case as before so as not to catch up the remote control cord, and tighten with the screws.
- In case of exposing cord, fix the cord on the wall with cord clamp so as not to slack.

Installation and wiring of remote control

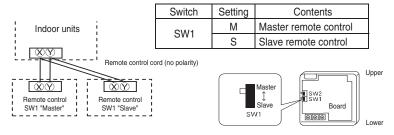
- ① Wiring of remote control should use 0.3mm² × 2 cores wires or cables. (on-site configuration)
- 2 Maximum prolongation of remote control wiring is 600 m.

If the prolongation is over 100m, change to the size below.

But, wiring in the remote control case should be under 0.5mm². Change the wire size outside of the case according to wire connecting. Waterproof treatment is necessary at the wire connecting section. Be careful about contact failure.

Master/ slave setting when more than one remote controls are used

A maximum of two remote controls can be connected to one indoor unit (or one group of indoor units.)



Set SW1 to "Slave" for the slave remote control. It was factory set to "Master" for shipment.

Note: The setting "Remote control sensor enabled" is only selectable with the master remote control in the position where you want to check room temperature.

The air-conditioner operation follows the last operation of the remote control regardless of the master/ slave setting of it.

The indication when power source is supplied

When power source is turned on, the following is displayed on the remote control until the communication between the remote control and indoor unit settled.

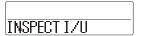
At the same time, a mark or a number will be displayed for two seconds first.

This is the software's administration number of the remote control, not an error cord.



When remote control cannot communicate with the indoor unit for half an hour, the below indication will appear

Check wiring of the indoor unit and the outdoor unit etc.



The range of temperature setting

When shipped, the range of set temperature differs depending on the operation mode as below.

Heating: 16-30°C (55-86°F)

Except heating (cooling, fan, dry, automatic): 18-30°C (62-86°F)

●Upper limit and lower limit of set temperature can be changed with remote control.

Upper limit setting: valid during heating operation. Possible to set in the range of 20 to 30°C (68 to 86°F). Lower limit setting: valid except heating (automatic, cooling, fan, dry) Possible to set in the range of 18 to 26°C (62 to 79°F).

When you set upper and lower limit by this function, control as below.

1. When ② TEMP RANGE SET, remote control function of function setting mode is "INDN CHANGE" (factory setting), [If upper limit value is set]

During heating, you cannot set the value exceeding the upper limit.

[If lower limit value is set]

During operation mode except heating, you cannot set the value below the lower limit.

2. When ② TEMP RANGE SET, remote control function of function setting mode is "NO INDN CHANGE" [If upper limit value is set]

During heating, even if the value exceeding the upper limit is set, upper limit value will be sent to the indoor unit. But, the indication is the same as the temperature set.

[If lower limit value is set]

During except heating, even if the value lower than the lower limit is set, lower limit value will be sent to the indoor unit. But, the indication is the same as the temperature set.

●How to set upper and lower limit value

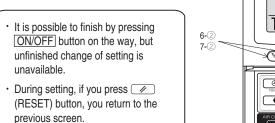
1. Stop the air-conditioner, and press (SET) and (MODE) button at the same time for over three seconds .

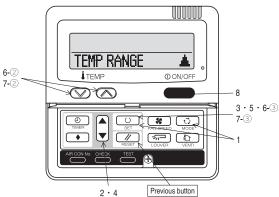
The indication changes to "FUNCTION SET ▼".

- 2. Press ▼ button once, and change to the "TEMP RANGE ▲ " indication.
- 3. Press (SET) button, and enter the temperature range setting mode.
- 4. Select "UPPER LIMIT \blacktriangledown " or "LOWER LIMIT \blacktriangle " by using $\boxed{\blacktriangle}$ $\boxed{\blacktriangledown}$ button.
- 5. Press (SET) button to fix.
- 6. When "UPPER LIMIT ▼" is selected (valid during heating)
 - ① Indication: " $\bigcirc \lor \land$ SET UP" \rightarrow "UPPER 30°C \lor "
 - ② Select the upper limit value with temperature setting button ☑ ⚠. Indication example: "UPPER 26°C ∨ ∧" (blinking)
 - ③ Press ◯ (SET) button to fix. Indication example: "UPPER 26°C" (Displayed for two seconds)

 After the fixed upper limit value displayed for two seconds, the indication will return to "UPPER LIMIT ▼".
- 7. When "LOWER LIMIT ▲" is selected (valid during cooling, dry, fan, automatic)
 - ① Indication: " \bigcirc $\lor \land$ SET UP" \rightarrow "LOWER 18°C \land "
 - ② Select the lower limit value with temperature setting button $\boxed{\lor}$ $\boxed{\land}$. Indication example: "LOWER 24°C \lor \land " (blinking)
 - ③ Press ◯ (SET) button to fix. Indication for example: "LOWER 24°C" (Displayed for two seconds)

 After the fixed lower limit value displayed for two seconds, the indication will return to "LOWER LIMIT ▼".
- 8. Press ON/OFF button to finish.





The functional setting

The initial nation setting for typical using is performed automatically by the indoor unit connected, when remote control and indoor unit are connected.

As long as they are used in a typical manner, there will be no need to change the initial settings.

If you would like to change the initial setting marked "C", set your desired setting as for the selected item. The procedure of functional setting is shown as the following diagram.

[Flow of function setting] Record and keep the setting Consult the technical data etc. for each control details It is possible to finish above setting on the way, and unfinished change of setting is unavailable.

"O": Initial settings

"%": Automatic criterion Stop air-conditioner and press

Stop air-conditioner and press

(MODE) buttons at the same time for over three seconds

Note 1: The initial setting marked "%" is decided by connected indoor and outdoor unit, and is automatically defined as following table. | International Content of the Conte Note 1: The initial s Function No. Remote control function02 Remote control function06 Remote control function07 Remote control function13 ndoor and outdoor unit, and is automatically defined as f Model
"Auto-RIN" mode selectable indoor unit. Indoor unit without "Auto-RIN" mode Indoor unit without "Auto-RIN" mode Indoor unit with two or three step of air flow setting Indoor unit with automatically swing lower Indoor unit without automatically swing lower Indoor unit with three step of air flow setting Indoor unit with three step of air flow setting Indoor unit with two step of air flow setting Indoor unit with two step of air flow setting Item AUTO RUN SET Indoor unit with only one of air flow setting

		FUNCTION SET ▼		No. ore lealersted or to the		Note2: Fan setting of "HI	CH SDEED!
N = /Pomoto control f	notion)	Andre		No. are indicated only wh	BII		Indoor unit air flow setting
(Remote control fun	iction)	(indoor unit tu	nction) I/U FUNCTION ▲ plural indoo	Function		Fan tap	रेता - रेता
Function			[1/1000 A]	102 FAN SPEED SET	setting		UH-Hi-Me-lo Hi-Me-lo Hi-lo Hi-M
101 P300 ESP SET	setting		1/0001 ≠	OZ ITHI GI ELD GET	STANDARD *	FAN STANDARD	UH - Hi - Me - Lo Hi - M
	ADDEST WALD	 Validate setting of ESP:External Static Pres 			HIGH SPEED 1 *	SET HIGH	UH - UH - Hi - Me UH - Hi - Me UH - H
Luizo puntorz	ESP INVALID	Invalidate setting of ESP	I/U003 ¢ I/U004 ¢	Iru ven orou orv	HIGH SPEED 2	SPEED1, 2	
02 AUTO RUN SET	AUTO RUN ON		1/0004 ≑	03 FILTER SIGN SET	INDICATION OFF	Initial function setting of	some indoor unit is "HIGH SPEED".
	AUTO RUN OFF	Automatical operation is impossible			TYPE 1	The filter sign is indicated a	fter running for 180 hours.
03 M⊠ TEMP SW		Tatoriation operation is impossible	To set other indoor unit, press		TYPE 2	The filter sign is indicated a	fter running for 600 hours.
	⊕⊠⊠ VALID	<u> </u>	AIR CON No. button, which		TYPE 3 TYPE 4	The filter sign is indicated a	
04 ISE MODE SW	S⊠⊠ INVALID	Temperature setting button is not working			Tift 4	The filter sign is indicated a compulsion after 24 hours.	fter running for 1000 hours, then the indoor unit will be stopped by
04 LSEI HODE SW	िक्त VALID	10 	allows you to go back to the indoor unit selection screen	04 I≾⊒ POSITION		If you change the indoor fur	"HOLLISON TO A POP soites
	응답 VALID 응답 INVALID	Mode button is not working	(for example: I/U 000 ▲).			you change the indoor full	e control function "14 > POSITION" accordingly.
05 ON/OFF SW			(for example, i/O 000 🛋).		4POSITION STOP O	You can select the louver st	op position in the four.
	⊕⊕ VALID	 		05 EXTERNAL INPUT	FREE STOP	The louver can stop at any	position.
06 ME FAN SPEED SW	⊕⊕ INVALID	On/Off button is not working		05 TEXTERNAL INPUT	ILEVEL INPUT O		
OR LESS HIN OF ECO OW!	&⊠ VALID	T×			PULSE INPUT		
	⊕⊠ INVALID	Fan speed button is not working		06 PERSONNESSON/PROBLETON			
07 🖾 LOUVER SW					INVALID O		
	&EZI VALID	<u> </u>		AZ Trurnoruou eros	VALID	Permission/prohibition contr	ol of operation will be valid.
08 @ TIMER SW	© INVALID	Louver button is not working		07 EMERGENCY STOP	INVALID O		
NO TOST LIBER OF	ල් VALID	10			VALID	With the VRF series it is	ed to stop all indoor units connected with the same outdoor unit imme
	⊕© VALID ⊕© INVALID	Timer button is not working				When stop signal is innuted	from remote on-off terminal "CNT-6", all indoor units are stopped imn
09 SENSOR SET							
	SENSOR OFF	Remote thermistor is not working.					
	■ SENSOR ON ■ SENSOR +3.0%	Remote thermistor is working. Remote thermistor is working, and to be set for pro-	ducing 12 0°C increases in temporature		0FFSET +3.0% 0FFSET +2.0%	To be reset for producing +	3.0°C increase in temperature during heating. 2.0°C increase in temperature during heating.
	SENSOR +2.0%	Remote thermistor is working, and to be set for pro-	ducing +3.0 C increase in temperature.	OR I № SP OFFSET	0FFSET +1,0%		2.0 C increase in temperature during heating. 1.0°C increase in temperature during heating.
	■SENSOR +1.0℃	Remote thermistor is working, and to be set for pro-	ducing +1.0°C increase in temperature.	OB [A OF OFF OFF	NO OFFSET O	To be resection producing +	1.0 G increase in temperature during heating.
	■SENSOR - 1.0 b	Remote thermistor is working, and to be set for pro-	ducing -1.0°C increase in temperature.				
	■SENSOR -2.0%	Remote thermistor is working, and to be set for pro-	ducing -2.0°C increase in temperature.		OFFSET +2.0℃	To be reset producing +2.0	C increase in return air temperature of indoor unit.
46 LAUTO DESTADT	SENSOR -3.0%	Remote thermistor is working, and to be set for pro-	Jucing -3.0°C increase in temperature.	09 RETURN AIR TEMP	0FFSET +1.5%	To be reset producing +1.5	C increase in return air temperature of indoor unit.
10 AUTO RESTART	I TMUALTO	10		US INCIDENTALISTED	OFFSET + 1.0%	To be reset producing +1.0	C increase in return air temperature of indoor unit.
	INVALID VALID	-			OFFSET - 1.0%	To be recet producing -1.0°	C increase in return air temperature of indoor unit.
11 VENT LINK SET					OFFSET - 1.5%		C increase in return air temperature of indoor unit.
	NO VENT				OFFSET -2.05	To be reset producing -2.0°	C increase in return air temperature of indoor unit.
		In case of Single split series, by connecting indoor printed circuit board (in case of VRF)	ventilation device to CNT of the	10 X FAN CONTROL	Transcription I o		OFF to and the law and
	VENT LINK	indoor printed circuit board (in case of VHF)	series, by connecting it to CND of the		LOW FAN SPEED	When heating thermostat is When heating thermostat is	OFF, fan speed is low speed. OFF, fan speed is set speed.
		operation of indoor unit.	i verillation device is linked with the		SET FAN SPEED	when healing theiliostat is	Or i , iair speed is set speed.
		In case of Single split series, by connecting ventilat	ion device to CNT of the indoor printed		INTERMITTENCE	When heating thermostat is	OFF, fan speed is operated intermittently.
	NO VENT LINK	circuit board (in case of VRF series, by connecting			FAN OFF	When heating thermostat is	OFF, the fan is stopped.
12 TEMP RANGE SET		board), you can operate /stop the ventilation device	independently by (VENT) button.			When the remote thermistor	r is working, "FAN OFF" is set automatically. In the indoor unit's thermistor is working.
12 TENE KHNOC SET	1	If you change the range of set temperature,	the indication of out townsons			DO HOUSEL I AIN OIT WHEN	The moon drike thermator is working.
	INDN CHANGE	of set temperature, will vary following the control.	the indication of set temperature	11 FROST PREVENTION TEMP		Change of indoor heat exch	anger temperature to start frost prevention control.
	NO INDN CHANGE	If you change the range of set temperature,	the indication of set temperature		TEMP HIGH		<u> </u>
		will not vary following the control, and keep	the set temperature.		TEMP LOW		
13 I/UFAN	Tur was to	- un de la					
1	HI-MID-LO HI-LO	Air flow of fan becomes the three speed of Air flow of fan becomes the two speed of Air flow of fan becomes the two speed of	.m - 《46] - 《41] 이 《46] - 《46	12 Designation control	TEAN CONTROL ON LO	Working only with the Single To control frost prevention,	
1	HI-MID	Air flow of fan becomes the two speed of &.			FAN CONTROL OF	ro control trost prevention,	the mooor ran rap IS FBISEO.
	1 FAN SPEED	Air flow of fan is fixed at one speed.		13 DRAIN PUMPLINK		1	
			4		20 0	Drain pump is run during co	oling and dry.
14 S→POSITION	1	If you change the remote control function "1- you must change the indoor function "04 55	+ >= rual HUN ",		\$ ∆ AND ×	Drain pump is run during co	oling, dry and heating.
	4POSITION STOP	you must change the indoor function "04" > You can select the louver stop position in the			SOAND∺AND≅ SOAND≅	Drain pump is run during co Drain pump is run during co	oing, ary, neating and fan.
1	FREE STOP	The louver can stop at any position.	7 IUUI.	14 S FAN REMAINING	PACHED AT	orani punip is run duning co	oning, ory and rain.
15 MODEL TYPE					NO REMAINING	After cooling is stopped is C	PFF, the fan does not perform extra operation.
	HEAT PUMP	*			0.5 HOUR	After cooling is stopped is C	OFF, the fan perform extra operation for half an hour.
La Introdui compos1	COOLING ONLY	*			1 HOUR		PFF, the fan perform extra operation for an hour.
16 EXTERNAL CONTROL SET	1	If you input cional into CaT of the is decree	inted aimuit board from automal 45 -	15 * FAN REMAINING	6 HOUR	Atter cooling is stopped is C	PFF, the fan perform extra operation for six hours.
	INDIVIDUAL	If you input signal into CnT of the indoor pri	according to the input from external	19 1 % LIBS BETTER BETTER 100	NO REMAINING	After heating is stonged or i	neating thermostat is OFF, the fan does not perform extra operation.
	FOR ALL UNITS	If you input into CNT of the indoor printed circui	t board from external, all units which	1	0.5 HOUR	After heating is stopped or i	neating thermostat is OFF, the fan perform extra operation for half an h
		connect to the same remote control are operate	ed according to the input from external.		2 HOUR	After heating is stopped or h	neating thermostat is OFF, the fan perform extra operation for two hour
17 ROOM TEMP IMDICATION SET	I tum rou trou orr	·		to be our property	6 HOUR	After heating is stopped or h	neating thermostat is OFF, the fan perform extra operation for six hour
	INDICATION OFF INDICATION ON	In normal working indication, indoor unit temp	porature is indicated instead of air flow	16 × FAN INTERMITTENCE	NO REMAINING O		
1	THIN TO WILLIAM THE	(Only the master remote control can be ind				During heating is stopped o	r heating thermostat is OFF, the fan perform intermittent operation for
18 X/C9-INDICATION		Comity the master remote control can be ind	natou.j	1	zominOFF sminON	with low fan speed after twe	inty minutes' OFF.
	INDICATION ON				smin(FF smin(N)	During heating is stopped o	r heating thermostat is OFF, the fan perform intermittent operation for
	INDICATION OFF	Heating preparation indication should not b	e indicated.		Second Follows	with low fan speed after five	minutes' OFF.
and the second				17 PRESSURE CONTROL	Texaman I w		
19 ℃/°F SET	15	Temperature indication is by degree C.			STANDARD ** TYPE1 **	Connected "OA Proceeding	type indoor unit, and is automatically defined.
19 6/F SEI	-						
19 6/FSEI	*F	Temperature indication is by degree F.			HITCH #	Connected OAT locessing	type illuoti tillit, alla is automatically delilled.
19 5/F SEI	F		ON/OFF button		inirei *	Connected OAT locessing	type moon and, and is automatically defined.

How to set function

Stop air-conditioner and press (SET) (MODE) buttons at the same time for over three seconds, and the "FUNCTION SET ▼" will be displayed.

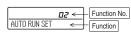


- 2. Press (SET) button.
- Make sure which do you want to set, "■ FUNCTION ▼" (remote control function) or "I/U FUNCTION ▲" (indoor unit function)
- 4. Press ▲ or ▼ button. Selecct "■ FUNCTION ▼" (remote control function) or "I/U FUNCTION A" (indoor unit function).

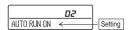


5. Press O (SET) button.

- 6. [On the occasion of remote control function selection]
 - ① "DATA LOADING" (Indication with blinking) Display is changed to "01 ₺♥₺ ESP SET".
 - ② Press ▲ or ▼ button. "No. and function" are indicated by turns on the remote control function table, then you can select from them. (For example)



③ Press (SET) button. The current setting of selected function is indicated. (for example) "AUTO RUN ON" \leftarrow If "02 AUTO RUN SET" is selected



④ Press ▲ or ▼ button. Select the setting.



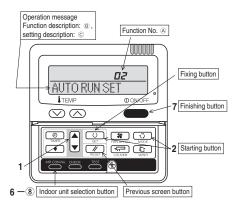
⑤ Press ◯ (SET)

"SET COMPLETE" will be indicated, and the setting will be completed.

Then after "No. and function" indication returns, Set as the same procedure if you want to set continuously ,and if to finish, go to 7.



7. Press ON/OFF button. Setting is finished.



[On the occasion of indoor unit function selection]

① "DATA LOADING" (Blinking for 2 to 23 seconds to read the data) Indication is changed to "02 FAN SPEED SET". Go to ②.

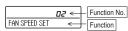
[Note]

(1) If plural indoor units are connected to a remote control, the indication is "I/U 000" (blinking) ← The lowest number of the indoor unit connected is indicated.

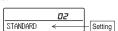


- (2) Press ▲ or ▼ button. Select the number of the indoor unit you are to set If you select "ALL UNIT ▼", you can set the same setting with
- (3) Press (SET) button.
- ② Press ▲ or ▼ button.

"No. and function" are indicated by turns on the indoor unit function table, then you can select from them. (For example)



③ Press O (SET) button.
The current setting of selected function is indicated. (For example) "STANDARD" ← If "02 FAN SPEED SET" is



- ④ Press ▲ or ▼ button. Select the setting
- S Press (SET) button.
 "SET COMPLETE" will be indicated, and the setting will be

Then after "No. and function" indication returns, set as the same procedure if you want to set continuously , and if to finish, go to 7.



When plural indoor units are connected to a remote control, press the AIR CON No. button, which allows you to go back to the indoor unit selection screen. (example "I/U 000 \(\bigsize \)")

- It is possible to finish by pressing ON/OFF button on the way, but unfinished change of setting is
- During setting, if you press (//)(RESET) button, you return to the previous screen.
- Setting is memorized in the control and it is saved independently of power failure.

[How to check the current setting]

When you select from "No. and funcion" and press set button by the previous operation, the "Setting" displayed first is the current

(But, if you select "ALL UNIT ▼ ", the setting of the lowest number indoor unit is displayed.)

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1.10.4 Installation of outdoor unit Models FDC100-140VNX-W, 100-140VSX-W

This installation manual deals with outdoor units and general installation specifications only. For indoor units, refer to the respective installation manuals supplied with the units When install the unit, be sure to check whether the selection of installation place, power source specifications, usage limitation (piping length, height differences between indoor and outdoor units, power source voltage and etc.) and installation spaces

Inverter driven split PAC 100, 125, 140 VNX-W 100, 125, 140 VSX-W Designed for R32 refrigerant

SAFETY PRECAUTIONS

- We recommend you to read this "SAFETY PRECAUTIONS" carefully before the installation work in order to gain full advantage of the functions of the unit and to avoid malfunction due to mishandling.
- avoid malfunction due to mishandling.

 The precaturions described below are divided into WARNING and CAUTION. The matters with possibilities leading to serious consequences such as death or serious personal injury due to erroneous handling are listed in the WARNING and the matters with possibilities leading to personal injury or damage of the unit due to erroneous handling including probability leading to serious consequences in some cases are listed in CAUTION. These are very important precautions for safety. Be sure to observe all of them without fail.

 The meaning of "Marks" used here are as shown below.

Never do it under any circumstance. Always do it according to the instruction



- For 3 phase power source outdoor unit, EN61000-3-2 is not applicable if consent by the utility company or nortification to the utility company is given before usage.

 3 phase power source unit, both indoor and outdoor, is suitable for installation in a commercial and light industrial environment. If installed as a house-hold appliance it could cause electromagnetic interference.

 In case of 125WNX and 140WNX, equipment complying with IEC 61000-3-12.

 Be sure to confirm no anomaly on the equipment by commissioning after completed installation and explain the operating methods as well as the maintenance methods of this equipment to the user according to the owner's manual.

 Keep the installation manual together with owner's manual at a place where any user can read at any time. Moreover if necessary, ask to hand them to a new user

(Check before installation work)

- Model name and power source
- Refrigerant piping length
- Piping, wiring and miscellaneous small parts
- Indoor unit installation manual

	<u>^</u>	WAR	RNING
0	 Installation must be carried out by the qualified installer. If you install the system by yourself, it may cause serious trouble such as water leaks, electric shocks, fire and personal injury, as a result of a system matinuction. 	0	Tighten the flare nut by using double spanners and torque wrench according to prescribed method. Be sure not to tighten the flare nut too much. The part by tightening with excess torque can cause burst or refrigerant leaks which may result in lack of downer.
	 Install the system in full accordance with the instruction manual. Incorrect installation may cause bursts, personal injury, water leaks, electric shocks and fire. 		Do not open the service valves for liquid line and gas line until completed refrigerant piping work, air tightness test
	• Use the original accessories and the specified components for installation. If parts other than those prescribed by us are used, it may cause fall of the unit, water leaks, electric shocks, fire, retrigerant leak, substandard performance, control failure and personal injury.		and evacuation. If the compressor is operated in state of opening service valves before completed connection of refrigerant piping work, you may incur frost bite or injury from an abrupt refrigerant outflow and air can be sucked into refrigerant circuit, which can cause burst or cervonal injury due to anomabusity high oressure in the refrigerant.
	• When installing in small rooms, take prevention measures not to exceed the density limit of refrigerant in the event of leakage accordance with ISO5149. Consult the expert about prevention measures. If the density of refrigerant exceeds the limit in the event of leakage, lack of oxygen can occur, which		Only use prescribed option parts. The installation must be carried out by the qualified installer. If you install the system by yourself, it can cause serious trouble such as water leaks, electric shocks, fire.
	can cause serious accidents. Ventilate the working area well in the event of refrigerant leakage during installation. If the refrigerant comes into contact with naked flames, poisonous gas is produced.		Do not perform any change of protective device itself or its setup condition The forced operation by short-circuiting protective device of pressure switch and temperature controller or the use of non specified component can cause fire or burst.
	After completed installation, check that no refrigerant leaks from the system. If refrigerant leaks into the room and comes into contact with an oven or other hot surface, poisonous gas is produced.		Be sure to switch off the power source in the event of installation, inspection or servicing. If the power source is not shut off, there is a risk of electric shocks, unit failure or personal injury due to the unexpected start of fan.
	• Hang up the unit at the specified points with ropes which can support the weight in lifting for portage. And to avoid joiling out of alignment, be sure to hang up the unit at 4-point support.		Consult the dealer or an expert regarding removal of the unit. Incorrect installation can cause water leaks, electric shocks or fire.
	An improper manner of portage such as 3-pionit support can cause death or serious personal injury due to falling of the unit — Install the unit in a location with good support. Unsuitable installation locations can cause the unit to fall and cause material damage and personal injury.		Stop the compressor before closing valve and disconnecting refrigerant pipes in case of pump down operation. If disconnecting refrigerant pipes in state of opening service valves before compressor stopping, you may incur frost bite or injury from an abrupt refrigerant outflow and air can be sucked, which can cause burst or personal injury due to anomalously high pressure in the refrieerant circuit
	he unit is stable when installed, so that it can withstand earthquakes and strong winds. e installation locations can cause the unit to fall and cause material damage and personal injury.		Be sure to wear protective goggles and gloves while at work.
	• The electrical installation must be carried out by the qualified electrician in accordance with "the norm for electrical work" and "national wiring regulation", and the system must be connected to the dedicated circuit. Power source with insufficient capacity and incorrect function done by improper work can cause electric shocks and fire.		This unit is designed specifically for R32. Using any other refrigerant can cause unit failure and personal injury.
	Power source with insumment capacity and incorrect unicoun come by improper work can cause electric snocks and line; Be sure to shut off the power before startling electrical work. Failure to shut off the power can cause electric shocks, unit failure or incorrect function of equipment.	\bigcirc	Ensure that no air enters in the refrigerant circuit when the unit is installed and removed. If air enters in the refrigerant circuit, the pressure in the refrigerant circuit becomes too high, which can cause burst and personal injury.
	 Be sure to use the cables conformed to safety standard and cable ampacity for power distribution work. Unconformable cables can cause electric leak, anomalous heat production or fire. 		Do not run the unit with removed panels or protections Touching rotating equipments, hot surfaces or high voltage parts can cause personal injury due to entrapment, burn or electric
	• Use the prescribed cables for electrical connection, tighten the cables securely in terminal block and relieve the cables correctly to prevent overloading the terminal blocks. Loses connections or cable mountings can cause anomalous heat production or fire.		shocks. Be sure to fix up the service panels. Incorrect fixing can cause electric shocks or fire due to intrusion of dust or water.
	 Arrange the wiring in the control box so that it cannot be pushed up further into the box. Install the service panel correctly. Incorrect installation may result in overheating and fire. 		Do not perform any repairs or modifications by yourself. Consult the dealer if the unit requires repair. If you repair or modify the unit, it can cause water leaks, electric shocks or fire.
	Do not perform brazing work in the airtight room It can cause lack of oxygen.		Do not process or splice the power cord, or share the socket with other power plugs. This may cause fire or electric shock due to defecting contact, defecting insulation and over-current etc.
	Use the prescribed pipes, flare nuts and tools for R32 and R410A. Using existing parts (for R22 or R407c) can cause the unit failure and serious accidents due to burst of the refrigerant circuit.		Do not bundle or wind or process the power cord. Do not deform the power cord by treading it. This may cause fire or heating.

CAUTION ⚠ • Carry out the electrical work for ground lead with care Do not connect the ground lead b the gas line, water line, lightning conductor or telephone line's ground lead. Incorrect grounding can case unit faults such as electric shocks due is brief-tructinity. Prive connect the grounding whe bb a gas pipe because if gas leaks, I could cause explosion or ignifion. • Use the circuit breaker for all pole with correct capacity. Using the incorrect circuit breaker, it can cause the unit malfunction and fire. 0 Dispose of any packing materials correctly. Any remaining packing materials can cause personal injury as it contains nails and wood. And to avoid danger of suffocation, be sure to keep the plastic wrapper away from chiteria and to dispose after tear it up. wrapper away from children and to dispose after lear it up. P pay attention not to damage the drain pan by weld spatter when welding work is done near the indoor unit. I well spatter enter the indoor unit cause per hole in drain pan and result in water ledgage. To preent such damage, keep the indoor unit in by poking or over it. Ble sure to insidate the refrigerant pipes so as not to condesse the ambient air moisture on them. Insufficient insulation can cause condensation, which can lead to moisture demange or the ceiling, floor, furniture and any other valuables. Be sure to perform air lightness test by pressurizing with nitrogen gas after completed refrigerant piping work. If the density of refrigerant exceeds the limit in the event of refrigerant testage in the small room, lack of oxygen can occur, which can cause serious accidents. P erform installation work properly according to this installation manual, improper installation can cause shormal vibrations or increased noise generation. After maintegenson, all widens within the event the first and the standards and the standards and the standards are standards. • After maintenance, all wiring, wiring ties and the like, should be returned to their original state and wiring route, and the necessary clearance from all metal parts should be secured. all metal parts should be secured. Earth loadage breaker must be installed if he earth loadage breaker is not installed, it can cause fire or electric shocks. Do not use any materials other than a tisse with the cornect rating in the location where fuses are to be used. Connecting the circuit with copper wire or other metal thread can cause unit failure and rine. Do not install the unit near the location where loakage of combustible gases can occur. It leaded gases accumidate around the unit, it can cause guit that the can be considered and the unit of the unit that the unit where corneave gas (such as sulfurous acid gas etc.) or combustible gase (such as thinner and petroleum gases) can accumidate or collect, or where voltate combustible substances are handled. Corneave gas can cause corneaion of heat exchange; treatage of plastic parts and etc. And combustible gas can cause fire. Secure a space for installation, inspection and maintenance specified in the manual. Institutionst space can result in accident such as personal injury due to failing from the inclassificant place. When the worker work its installation are or a high place, provide personance and fences and handralis around the outdoor unit. When the outdoor will is featured on the processor in pay one to limit in tendencial proce. When the outdoor will is featured on any or a high place, provide premarest laders and mandrals along the access route and fences and handrals around the outdoor unit. I safely facilities are not provided, it can cause personal injury due to falling from the installation pay. Do not install not use the system does to the equipment at a generate selection angular fields or high frequency parameters. Equipment such as invertex, standay generators, medical high frequency equipments and telecommunication equipments can affect the system, and cause ent and tele unication equipment, and obstruct its function or cause jamming. Do not install the outdoor unit in a location where insects and small animals can inhabit. Insects and small animals can enter the electric parts and cause damage or fire. Instruct the user to keep the surroundings clean.

Do not use the base flame for outdoor unit which is corroded or damaged due to long periods of operation. Using an old and damage base flame can cause the unit falling down and cause personal injury.

toring an out and canager caser name tear traces or but name gooder and catase personal injury.

Do not install the unit in the locations listed below

-locations where carbon fiber, metal powder or any powder is floating.

-locations where any substances that can affect the unit such as sulphide gas, chloride gas, acid and alkaline can occur.

-lichicities and ships.

- Locations where any substances that can affect the unit such as sulphide gas, chloride gas, acid and alkaline can vehicles and ships.

- Locations where cosmelic or special garges are other used.

- Locations where cosmelic or special garges are other used.

- Locations where any machines which generate high frequency harmonics are used.

- Locations where any machines which generate high frequency harmonics are used.

- Locations with early smov (if installed, be sure to provide base flame and snow hood mentioned in the manual)

- Locations with the unit is exposed to of inminey smoke

- Locations with ammonic atmospheres (e.g. organic fertilizer)

- Locations with ammonic atmospheres (e.g. organic fertilizer)

- Locations with ammonic atmospheres (e.g. organic fertilizer)

- Locations where the attribution from other heat source can affect the unit

- Locations with any obstacles which can prevent inlet and outlet air of the unit

- Locations where stort circuit of air can occur (in case of mutiplie units installation)

- Locations where stort circuit of air can occur (in case of mutiplie units installation)

- Locations where stort circuit of air can occur (in case of mutiplie units installation)

- Locations where stort circuit of air can occur (in case of mutiplie units installation)

- Locations where stort circuit of air can occur (in case of mutiplie units installation)

- Locations where short circuit of air can occur (in case of mutiplie units installation)

- Locations where short circuit of air can occur (in case of mutiplie units installation)

It can case remarkable decrease in performance, corrosion and damage of components, malllanction and fire.

9 On real install the outdoor will in the locations listed below.

1-accitions where discharged hot air or opening sound of the outdoor unit can bother neighborhood.

1-accitions where discharged hot air or opening sound of the outdoor unit can bother neighborhood.

1-accitions where what on an opening of the amount of the outdoor where the outdoor out and and exale where the outdoor out of the outdoor out of the outdoor out of the outdoor out of the control on the outdoor out of the outdoor o

Do not touch any buttons with wet hands it can cause electric shocks

Do not touch any refrigerant pipes with your hands when the system is in operation.
During operation the refrigerant pipes become extremely hot or extremely cold depending the operating condition, and it can cause burn injury or frost injury.

Do not clean up the unit with water
It can cause electric shocks

Do not operate the outdoor unit with any article placed on it.
You may incur property damage or personal injure from a fall of the article.

Do not touch the suction or aluminum fin on the outdoor unit

Notabilia as a unit designed for R32

- Do not use any refrigerant other than R32. R32 will rise to pressure about 1.6 times higher than that of a conventional refrigerant (R22 or R407C).
- On out use any reimperant other man As2. As2 will rise to pressure about 1.0 times higher than that of a conventional reingerant (R22 of H4076).
 A cylinder containing R32 has a light blue indication mark on the top.
 A unit designed for R32 has adopted a different size indoor unit operation valve charge port and a different size check joint provided in the unit to prevent the charging of a wrong refrigerant by mistake. The processed dimension of the flared part of a refrigerant pipe and a flare nult's parallel side measurement have also been altered to raise strength against pressure. Accordingly, you are required to arrange dedicated R32 tools listed in the table on the right before installing or servicing this unit.

 All indoor units must be models designed exclusively for R32. Check connectable indoor unit models in a catalog, etc. (A wrong indoor unit, if connected into the system, will impair proper system operation)

Dedicated R32 and R410A tools
Gauge manifold
Charge hose
Electronic scale for refrigerant charging
Torque wrench
Flare tool
Protrusion control copper pipe gauge
Vacuum pump adapter
Gas leak detector

1. HAULAGE AND INSTALLATION (Take particular care in carrying in or moving the unit, and always perform such an operation with two or more persons.)

ACAUTION When a unit is hoisted with slings for haulage, take into consideration the offset of its gravity center position.

If not properly balanced, the unit can be thrown off-balance and fall.

1) Delivery

Deliver the unit as close as possible to the installation site before removing it from the packaging.
 When some compelling reason necessitates the unpacking of the unit before it is carried in, use nylon slings or protective wood pleces so as not to damage the unit by ropes lifting it.

3) Selection of installation location for the outdoor unit

- Selection of installation location for the outdoor unit

 Be sure to select a suitable installation place in consideration of following conditions.

 A place where it is horizontal, stable and can endure the unit weight and will not allow vibration transmittance of the unit.

 A place where the can be free from possibility of bothering neighbors due to noise or exhaust air from the unit.

 A place where the unit is not exposed to displashes,

 a place where the unit is not exposed to displashes,

 A place where the unit will not be affected by the displashed to the displace where the unit will not be affected by the displashed to the displa

4) Caution about selection of installation location

- (1) If the unit is installed in the area where the snow will accumulate, following measures are required. The bottom plate of unit and intake, outlet may be blocked by snow.

 Install the unit on the base so that the bottom is higher than snow cover surface.

 Regarding outline of a snow









- Since drain water generated by defrost control may freeze, following measures are required.

 Don't execute drain piping work by using a drain elbow and drain grommets (option parts). [Refer to DRAIN PIPING WORK.]

 Recommend setting Defrost Control (SW3-1) and Sonow Guard Fan Control (SW3-2). [Refer to Setting SW3-1, SW3-2.]

 Attach heater on a base plate on site. if there is possibility to freeze drain water. In case that the product has a corrective drainage system, the drainage paths which heat.

 In case that the product has a corrective drainage system, the drainage paths with heat.
- (2) If the unit can be affected by strong wind, following measures are required.

 Strong wind can cause damage of fan (fan motor), or can cause performance degradation, or can trigger anomalous stop of the unit due to rising of high pressure.

 1.install the outlet air blow side of the unit to face a wall of building, or unit to face a wall of building, or provide a fence or a windbreak screen.

 2.Install the outlet air blow side of the unit in a position prependicular to the direction of wind.

 1. The unit should be installed on the stable and level foundation in the foundation is not level, the direction of wind.



3.Install the unit under eaves or providen the roof on site



2) Portage

● The right hand side of the unit as viewed from the front (diffuser side) is heavier. A person carrying the right hand side must take heed of this fact. A person carrying the left hand side must hold with his right hand the handle provided on the front panel of the unit and with his left hand the corner column section.



5) Installation space

- IIIStatilation:
 Space

 Walls surrounding the unit in the four sides are not acceptable.
 There must be a 1-meter or larger space in the above.

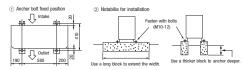
 Where a danger of short-circuiting exists, install guide louvers.
 When more than one unit are installed, provide sufficient intake space consciously so that short-circuiting may not occur.

 Where pilling snow can bury the outdoor unit, provide proper snow guards.

 A barrier wall placed in front of the exhaust diffuser must not be higher than the unit.

			(mm)
Example installation	I	II	Ш
L1	Open	Open	500
L2	300	5	Open
L3	150	300	150
L4	5	5	5

6) Installation



- In installing the unit, fix the unit's legs with bolts specified on the left.
 The protrusion of an anchor bolt on the front side must be kept within 15 mm.
 Securely install the unit to that it does not fall over during earthquakes or strong winds, etc.
 Refer to the left illustrations for information reparding concrete foundations.
 Install the unit in a level area. (With a gradient of 5 mm or less.)
 Improper installation can result in a compressor failure, broken piping within the unit and abnormal noise generation.

7) To run the unit for a cooling operation, when the outdoor temperature is -5°C or lower.

When the outdoor air temperature is -5°C or lower, provide a snow hood to the outdoor unit on site, so that strong wind will not blow against the outdoor heat exchanger directly. Regarding outline of a snow hood, consult a dealer.

< Twin type

2. REFRIGERANT PIPING WORK

1) Restrictions on unit installation and use

Observe the following restrictions on unit installation and use. Improper installation can result in a compressor failure or performance degradation.

			Installation type					
Resitrictions	Model for outdoor units	Dimensional restrictions	Single type	Twin type	Triple type A	Triple type B		
One-way pipe length	100VNX,125VNX,100VSX,125VSX	3m ≦		L+L1	-	-		
Olle-Way pipe leligili	140VNX, 140VSX	≤ 100m (3)	L	L+L2	L+L1+L2+L3	L+L1+L2+L3		
	100VNX,125VNX,100VSX,125VSX				_	-		
Main pipe length	140VNX, 140VSX	≤ 100m (3)	-	L	L	L		
One-way pipe length between the first branch from to the second branch	140VNX, 140VSX	≤ 5m	-	-	-	La		
	100VNX,125VNX,100VSX,125VSX		_	L1.L2	-	-		
One-way pipe length after the first branch	140VNX, 140VSX	≤ 30m	_	LI,LZ	L1, L2, L3	L1 (1)		
One-way pipe length from the first branch to indoor units through the second branch	140VNX, 140VSX	≤ 27m	-	-	-	La+L2, La+L3 (1)		
	100VNX,125VNX,100VSX,125VSX	≤ 10m			-	_		
One-way pipe length difference from the first branch to the indoor unit	140/NX. 140/SX	≤ 3m	-	IL1-L2I	L1-L2 , L2-L3 , L3-L1	_		
W DIC HOUSE WITH	140VNA, 140VSA	≤ 10m			-	L1-(La+L2),L1-(La+L3) (1)		
One way pipe length difference from the second branch to the indoor unit	140/NX, 140/SX	≤ 10m	-	-	-	L2-L3		
Elevation difference between indoor and outdoor units	Outdoor unit is positioned higher,	≤ 50m (2)	н	н	н	н		
Elevation difference between indoor and outdoor units	Outdoor unit is positioned lower,	≦ 15m		n	n n	п		
Elevation difference between indoor units		≤ 0.5m	-	h	h1,h2,h3	h1,h2,h3		

ACAUTION

- The use restrictions appearing in the table above are applicable to the standard pipe size combinations shown in the table below. Where an existing pipe system is utilized, different one-way pipe length restrictions should apply depending on its pipe size. For more information, see *6.UTILIZATION OF EXISTING PIPMS.* With the triple pipe connection, the way of use is different when the difference of one-way pipe length after the first branching point is 3m to 10m. For details, refer to the above table and right figure.
 (i) Install the indoor units or substant L + L1 becomes the longest one-way pipe.
 Keep the pipe length difference between L1 and (La + L2) or (La + L3) within 10m.
 (2) When the outdoor units Is substant at a position higher than the indoor unity 30m or more, set SW5-2 on the control PCB to 0N.
 (3) Maximum piping length is limited up to 65m for SRK50 triple type combination, and 85m for FDE50 triple type and FDE60, FDE71 twin type.
- 2) Determination of pipe size

		Model 100V		Model 125V		Model 140V	
		Gas pipe	Liquid pipe	Gas pipe	Liquid pipe	Gas pipe	Liquid pipe
		φ15.88	φ9.52	ф15.88	ф9.52	ф15.88	ф9.52
	Dutdoor unit connected	Flare	Flare	Flare	Flare	Flare	Flare
Refriç	erant piping (Main pipe L)	φ15.88	φ9.52	ф15.88	ф9.52	φ15.88	ф9.52
	Indoor unit connected	φ15.88	φ9.52	ф15.88	ф9.52	ф15.88	ф9.52
In the case of a single type	Capacity of indoor unit	Mode	el 100V	Mode	el 125V	Mode	el 140V
	Branching pipe set	DIS-V	NA1G	DIS	-WA1G	DIS-WA1G	
	Refrigerant piping (branch pipe L1,L2)	φ12.7	φ9.52	φ12.7	ф9.52	ф15.88	ф9.52
In the case of a twin type	Indoor unit connected	φ12.7	φ6.35	φ12.7	¢6.35	φ15.88	φ9.52
	Capacity of indoor unit	Model 50V×2		Model 6	30V×2	Model 7	71V×2
	Branching pipe set	_		-		DIS-TA1G	
	Refrigerant piping (branch pipe L1,L2,L3)					φ12.7	φ9.52
In the case of a triple type A	Indoor unit connected					φ12.7	φ6.35
	Capacity of indoor unit					Model	50Vx3
	Branching pipe set					DIS-1	WA1G
	Refrigerant piping (branch pipe La)	1				ф15.88	ф9.52
	Refrigerant piping (branch pipe L1)	1				φ12.7	ф9.52
In the case of a triple type B	Branching pipe set (After branch pipe La)		-	-		DIS-	WA1G
	Refrigerant piping (branch pipe L2,L3)					φ12.7	φ9.52
	Indoor unit connected	1					¢6.35
	Capacity of indoor unit	1		1		φ12.7 φ6.35 Model 50V×3	

△ CAUTION

About brazing

- When the 50V or 60V model is connected as an indoor unit, always use a φ9.52 liquid pipe for the branch (branching pipe indoor unit) and a different diameter joint supplied with the branching pipe set for connection with the indoor unit (ρ6.35 on the liquid pipe side). If a φ6.35 pipe is used for connection with a branching pipe, a refrigerant distribution disorder may occur, causing one of the indoor units to fall short of the rated capacity.

- une ratero capacity.

 A riser pipe must be a part of the main. A branching pipe set should be installed horizontally at a point as close to an indoor unit as possible.

 A branching part must be dressed with a heat-insulation material supplied as an accessory.

 For the details of installation work required at and near a branching area, see the installation manual supplied with your branching pipe set.

 In the case of a triple type, branching pipe set shown in this table varies depending on the length difference of one way piping after the first branch. Please check the table above.

Primary side Secondary sid <N2> (A₂₀-Station valve Plug the end of the pipe with tape, or other Hand Ñ -₩--αίπ Only use nitrogen gas (N2) Nitrogen gas

3) Refrigerant pipe wall thickness and material

Brazing must be performed under a nitrogen gas flow.

Without nitrogen gas, a large quantity of foreign matters (oxidized film) are created, causing a critical failure from capillary tube or expansion valve clogging.

- Select refrigerant pipes of the table shown on the right wall thickness and material as specified for each pipe size.

 This unit uses R32. Always use 1/2H pipes having a 1.0mm or thicker wall for \$\phi\$1.05 or larger pipes, because 0-bype pipes do not meet the pressure resistance requirement.
- 6.35 9.52 12.7 15.88 22.22 25.4 28.58 inimum pipe wall thickness [mm] 0.8 0.8 O-type pipe O-type pipe O-type pipe O-type pipe 1/2H-type pipe 1/2H-type pipe 1

< Triple type A > In case L1, L2, L3 difference < 3m

< Triple type B > In case L1, L2, L3 difference ≥ 3m

 Select pipes having a wall thickness larger than the specified minimum pipe thickness

-211-

4) On-site piping work

⚠IMPORTANT • Take care so that installed pipes may not touch components within a unit. If touching with an internal component, it will generate abnormal sounds and/or vibrations.

How to remove the service panel

First remove the five screws (x mark) of the service panel and push it down into the direction of the arrow mark and then remove it by pulling it toward you.

●The pipe can be laid in any of the following directions: side right, front, rear and downward.
●Remove a knock-out plate provided on the pipe penetration to open a minimum necessary area.

*Please close the gap of piping connecting part with putty or insulation material (locally procured) after piping connection. Small animals or insects may intrude into the outdoor unit and it will cause electrical short.

Carry out the on site piping work with the operation valve fully closed.
 Give sufficient protection to a pipe end (compressed and blazed, or with an adhesive tape) so that water or foreign matters may not enter

Give sufficient protection to a pipe end compressed and packed, or with an appear appear and the piping.

Bend a pipe to a radius as large as practical.(R100-R150). Do. Flare a pipe after engaging a flare nut onto it. Flare dimensions for are different from those for conventional R22 and R407. Although we recommend the use of flaring tools designed specifically for conventional flaring tools can also be used by adjusting the measurement of protrusions B with a protrusion control gauge.

To not ruse exching flare, make new flare.

The pipe should be anothered event flare.

The pipe should be anothered event flare.

The pipe should be anothered with a double spanner.

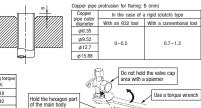
⚠ CAUTION

Do not apply force beyond proper fastening torque in tightening the flare nut.
Fix both liquid and gas service valves at the valve main bodies as illustrated on the right, and then fasten them, applying appropriate fastening torque
Do not apply reinfegrating machine oil to the flares ourface. It can cause refrigerant leakage.

ening N-m) φ9.52 (3/8") 49-61 φ15.88 (5/8") 68-95

φ6.35 9.1

φ9.52 13.2 16.6 For from





5) Air tightness test

(a) Although outdoor and indoor units themselves have been tested for air tightness at the factory, check the connecting pipes after the installation work for air tightness from the service valve's check joint equipped on the outdoor unit side. While conducting a test, keep the service valve shuf all the time.

a) Raise the pressure to 0.5 MPa, and then stop. Leave it for five minutes to see if the pressure drops.

b) Then raise the pressure to 1.5 MPa, and stop. Leave it for five more minutes to see if the pressure drops.

c) Then raise the pressure to the specified level (4.15 MPa), and record the ambient temperature and the pressure of the specified level (4.15 MPa), and record the ambient temperature and the pressure drops to deserved with an installation pressurized to the specified level and left for about one day, it is acceptable. When the ambient Temperature fall 1°C, the pressure also fall approximately 0.01 MPa. The pressure drop is observed in checking a) – (a), a leak exists somewhere. Find a leak by applying bubble test liquid to welded parts and flare joints and repair it. After repair, conduct an air-tightness test again.

② In conducting an air-tightness test, use nitrogen gas and pressurize the system with nitrogen gas from the gas side. Do not use a medium other than nitrogen gas under any circumstances.

6) Evacuation

Work flow> When the system has remaining moisture inside or a leaky point, the vacuum gauge indicator will rise.

Check the system for a leaky point and then draw air to create a vacuum again.

Run the vacuum pump for at least one hour after the vacuum gauge show: -101kPa or lower. (-755mmHg or lower)

Airtighteness test completed

ntion to the following points in addition to the above for the R32 and compatible machines.

For side rig

- To prevent a different of from entering, assign dedicated tools, etc. to each refrigerant type. Under no circumstances must a gauge manifold and a charge left for one hour or more.

| Vacuum gauge check | Vacuum gauge

7) Additional refrigerant charge

(1) Calculate a required refrigerant charge volume from the following table

Single type: ttem Additional charge volume (kg) per meter of refrigerant piping (liquid pipe) Refrigerant volume charged for shipment at the factory (kg) <Twin, triple type> Item Additional charge volume (kg) per meter of refrigerant piping (liquid pipe) Refrigerant volume charged for shipment at the factory (kg) Main pipe Branch pipe

• This unit contains factory charged refrigerant covering 30m of refrigerant piping and additional refrigerant charge on the installation site is not required for an installation with up to 30m refrigerant piping. When refrigerant piping exceeds 30m, additionally charge an amount calculated from the pipe length and the above table for the portion in excess of 30m.

If an existing pipe system is used, a required refrigerant charge volume will vary depending on the liquid pipe size. For further information, see "6. UTILIZATION OF EXISTING PIPING."

Formula to calculate the volume of additional refrigerant required

Formula to calculate the volume of additional refrigerant required

Additional charge volume (kg) = { Main pipe length (m) - Length covered without additional charge 30 (m) } x 0.054 (kg/m) + Total length of branch pipes (m) x 0.054 (kg/m)

It is not necessary to charge refrigerant additionally.

(2) Charging refrigerant

Solve Starting territy enart must be charged in the liquid phase, you should charge it, keeping the container cylinder upside down or using a refrigerant cylinder equipped with a siphon tube.

Charge refrigerant always from the liquid side service port with the service valve shut. When you find it difficult to charge a required amount, fully open the outdoor unit valves on both liquid and gas sides and charge refrigerant from the gas (suction) side service port, while running the unit in the cooling mode. In doing so, care must be taken so that refrigerant may be discharged from the cylinder in the liquid phase all the time. When the cylinder valve is throttled down or a dedicated conversion tool to change liquid-phase refrigerant into mist is used to protect the compressor, however, adjust charge conditions so that refrigerant will gasify upon entering the unit.

New or of the conditions of the con

NOTE Put down the refrigerant volume calculated from the pipe length onto the caution label attached on the back side of the service panel.

8) Heating and condensation prevention

(1) Dress refrigerant pipes (both gas and liquid pipes) for heat insulation and prevention of dew condensation.

(2) Use a heat insulating material that can withstand 120°C or a higher temperature. Poor heat insulating capacity can cause heat insulation problems or cable deterioration.

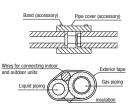
Improper heat insulation/anti-dew dressing can result in a water leak or dripping causing damage to household effects, etc.

All gas pipes must be securely heat insulated in order to prevent damage from diriping water that comes from the condensation formed on them during a cooling operation or personal injury from burns because their surface can reach quite a high temperature due to discharged gas flowing inside during a heating operation.

Warp indoor units' flare joints with heat insulating parts (pipe cover) for heat insulation (both gas and liquid pise).

Give heat insulation to both gas and liquid side pipes. Bundle a heat insulating material and a pipe tightly together so that no gaps may be left between them and wrap them together with a connecting cable by a dressing tape.

Although it is verified in a test that this air-conditioning unit shows satisfactory performance under JIS condensation test conditions, both gas and liquid pipes need to be dressed with 20 mm or thicker heat insulation materials above the ceiling where relative humidity exceeds 70%.



3. DRAIN PIPING WORK

Execute drain piping by using a drain elbow and drain grommets supplied separately as option parts, where water drained from the outdoor unit is a problem.

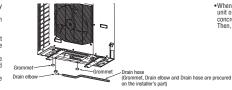
 Water may drip where there is a larger amount of drain water. Seal around the drain elbow and drain grommets with putty or adequate caulking material.

 Condensed water may flow out from vicinity of service valve or connected pipes.

 Where you are likely to have several days of sub-zero temperatures in a row, do not use a drain elbow and drain grommets. (There is a risk of drain water freezing inside and blocking the drain.)

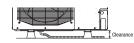
 Do not use drain elbow and grommet made of plastic for drain piping when base heater for outdoor unit is used. Plastic grommet and elbow will be damaged and burnt in worst case.

 Prepare another drain tray made of metallic material for collecting drain when base heater is used.



When condensed water needs to be led to a drain, etc., install the unit on a flat base (supplied separately as an option part) or concrete blocks.

Then, please secure space for the drain elbow and the drain hose.



4. ELECTRICAL WIRING WORK For details of electrical cabling, refer to the indoor unit installation manual.

Electrical installation work must be performed by an electrical installation service provider qualified by a power provider of the country. stallations in the country.

installations in the country.

**Do not use any supply cord lighter than one specified in parentheses for each type below.

- braided cord (code designation 60245 IEC 51),
- ordinary tough rubber sheathed cord (code designation 60245 IEC 53)

- flat twin tinset cord (code designation 60227 IEC 41);
Do not use anything lighter than polychiorprene sheathed flexible cord (code designation 60245 IEC57) for supply cords of parts

or appliances for outdoor use.

Ground the unit. Do not connect the grounding wire to a gas pipe, water pipe, lightning rod or telephone grounding wire.

If impropery grounded, an electric shock or maffunction may result.

A grounding wire must be connected before connecting the power cable. Provide a grounding wire longer than the power cable.

The installation of an impulse withstanding type earth leakage breaker is necessary. A failure to install an earth leakage breaker can result in an acccident such as an electric shock or a fire.



Do not turn on the power until the electrical work is completeded.

Do not use a condensive capacitor for power factor improvement under any circumstances. (It dose not improve power factor, while it can cause an abnormal overheat accident)
For power source cables, use conduits.

Do not lay electronic control cables (remote control and signaling wires) and other cables together outside the unit. Laying them together can result in the malfunctioning or a failure of the unit due to electric noises.

Fasten cables so that may not touch the piping, etc.

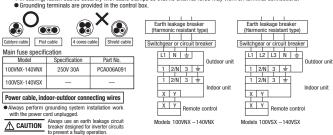
When cables are connected, make sure that all electrical components within the electrical component box are free of loose connector coupling or terminal connection and then attach the cover securely. (Improper cover attachment can result in malfunctioning or a failure of the unit, if water penetrates into the box)

Always use a three-cove cable for an indoor-outdoor connecting cable. Never use a shield cable.

Connect a pair bearing a common terminal number with an indoor-outdoor connecting wire.

In cabling, lasten cables securely with cable clamps so that no external force may work on terminal connections.

Grounding terminals are provided in the control box.



Model	Power source	Power cable thickness(mm²)	MAX. over current (A)	Cable length (m)	Grounding wire thickness	Indoor-outdoor wire thickness \times number
100VNX	Single phase 3 wires 220-240V 50Hz	5.5	25	21		
125VNX,140VNX	220-240V 50Hz 220V 60Hz	5.5	27	20		φ1.6mm x 3
100VSX-140VSX	3 phase 4 wires 380-415V 50Hz 380V 60Hz	3.5	14	49	φ1.6mm	ф1.6пшх3

The specifications shown in the above table are for units without heaters. For units with heaters, refer to the installation instructions or the construction instructions of the indoor unit.

unit. sker capacity which is calculated from MAX. over current should be chosen along the regulations in each country.

٦	Model	Power source	Power cable thickness(mm²)	MAX. over current (A)	Cable length (m)	Grounding wire thickness	Indoor-outdoor wire thickness \times number
╗	100VNX	Single phase 3 wires	5.5	26	20		
- 1	125VNX	220-240V 50Hz		28	28	1	
- 1	140VNX	220V 60Hz	· •	30	27	φ1.6mm	φ1.6mm x 3
- 1	100VSX	3 phase 4 wires		15	46	ψιωιιιι	φ1.011111.x.3
- 1	125VNX	380-415V 50Hz	3.5	16	43]	
- 1	140VNX	380V 60Hz	1	17	40	1	

(a) Power source cable: Use the cable which is conformed with 60245 EC57. When selecting the power source cable length, make sure that voltage drop is less than 2%. If the wire length gets longer, increases the wire diameter.

(b) Indoor-Outdoor connecting wires: Use the wires which is conformed with 60245 EC57.

5. TEST RUN

- ⚠ WARNING
 Before test run, make sure that the service valves are open.
 Before test run, turn Oit power source for 6 hours in order to warm up the compressor.
 Without this operation, refigerant may accumulate in the compressor and earth leakage breaker may be activated.
 In case of the first operation after turning on power source, even if the unit does not move for 30 minutes, it is not a breakdown.
 - oreascown.
 After power is turned off, wait 3 minutes or more before power source is turned ON again.
 After power is turned off, wait 3 minutes or more before power source is turned ON again.
 Removing the service panel will expose high-voltage live parts and high-temperature parts, which are quite dangerous.
 Take utmost care not to incur an electric shock or hours. Do not leave the unit with the service panel open.

⚠ CAUTION

- When you operate switches (SW3, SW4, SW5) for on-site setting, be careful not to touch a live part.
 You cannot check discharge pressure from the liquid operation valve charge port.
 The 4-way valve (200) is energized during a heating operation.
 When power source is cut off to reset the unit, give 3 or more minutes before you turn on power again after power is cut off. If this procedure is not observed in furning on power again, "Communication error between outdoor and indoor unit" may occur.

1) Test run method

- (1) A test run can be initiated from an outdoor unit by using SW3-3 and SW3-4 for on-site SW1-3-3 SW-3-4 setting.
- (1) A tisk for control of the setting.

 (2) Switching SW3-3 to ON will start the compressor.

 (3) The unit will start a cooling operation, when SW3-4 is OFF or a heating operation, v.

 (4) Do not fail to switch SW3-3 to OFF when a test run is completed.

2) Checking the state of the unit in operation

Use check joints provided on the piping before and after the four-way valve installed inside the unit for checking discharge pressure and suction pressure. As indicated in the table shown on the right, pressure detected at each point will vary depending on whether a cooling or heating operation has been selected.

gas service valve Suction pressure (Low pressure)

ON ON OFF

Cooling during a test run

3) Setting SW3-1, SW3-2, SW5-2, SW4-1, on-site

- Defrost Control switching (SW3-1)

 When this switch is runed ON, the unit will run in the defrost mode more frequently.

 Set this switch is oN, when installed in a region where outdoor temperature falls below zero during the season the unit is run for a heating

4) Failure diagnosis in a test run

Error indicated on the		(The cycles of 5 seconds)	Failure event	Action		
remote control unit	Red LED	Green LED	i dildie event	Auton		
E34	Blinking once	Blinking continuously	Open phase	Check power cables for loose contact or disconnection		
E40	Blinking once	Blinking continuously	63H1 actuation or operation with service valves shut (occurs mainly during a heating operation)	Check whether the service valves are open.		
E49	Blinking once	Blinking continuously	Low pressure error or operation with service valves shut (occurs mainly during a cooling operation)	If an error has been canceled when 3 minutes have elapsed since a compressor stop, you can restart the unit by		
E57	Blinking once	Blinking continuously	Short of refrigerant error or operation with service valves shut (occurs mainly during a cooling operation)	effecting Check Reset from the remote control unit.		

• If an error code other than those listed above is indicated, refer to the wiring diagram of the outdoor unit and the indoor unit

5) The state of the electronic expansion valve.

	The following table mad	no following table indutates the cloudy states of the observation expansion varies.									
	When power is turned on	When the unit com	nes to a normal stop	When the unit come	s to an abnormal stop						
		when power is turned on	During a cooling operation During a hea		During a cooling operation	During a heating operation					
	Valve for a cooling operation	Complete shut position	Complete shut position	Full open position	Full open position	Full open position					
	Valve for a heating operation	Full open position	Full open position	Complete shut position	Full open position	Full open position					

6) Heed the following on the first operation after turning on the circuit breaker.

This outdoor unit may start in the standby mode (waiting for a compressor startup), which can continue up to 30 minutes, to prevent the oil level in the compressor from lowering on the first operation after turning on the circuit breaker. If that is the case, do not suspect a unit failure.

A failure to observe these instructions can result in a compressor breakdown

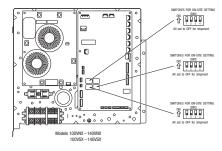
Items to check before a test run

• When you leave the outdoor unit with power supplied to it, be sure to close the panel.

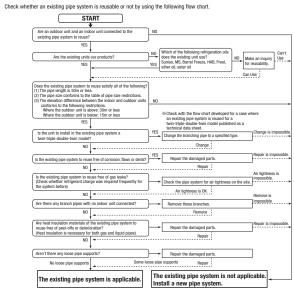
em No.used in the stallation manual	Item	Check item	Check
		If brazed, was it brazed under a nitrogen gas flow?	
	Refrigerant	Were air-tightness test and vacuum extraction surely performed?	
2	plumbing	Are heat insulation materials installed on both liquid and gas pipes?	
		Are service valves surely opened for both liquid and gas systems?	
		Have you recorded the additional refrigerant charge volume and refrigerant pipe length on the panel's label?	
		Is the unit free of cabling errors such as uncompleted connection, an absent or reversed phase?	
		Are properly rated electrical equipments used for circuit breakers and cables?	
		Doesn't cabling cross-connect between units, where more than one unit are installed?	
		Aren't indoor-outdoor signal wires connected to remote control wires?	
4	Electric	Do indoor-outdoor connecting cables connect between the same terminal numbers?	
	wiring	Are either VCT cabtyre cables or WF flat cables used for indoor-outdoor connecting cables?	
		Does grounding satisfy the D type grounding (type III grounding) requirements?	
		Is the unit grounded with a dedicated grounding wire not connected to another unit's grounding wire?	
		Are cables free of loose screws at their connection points?	
		Are cables held down with cable clamps so that no external force works onto terminal connections?	
		Is indoor unit installation work completed?	
_	Indoor unit	Where a face cover should be attached onto an indoor unit, is the face cover attached to the indoor unit?	

Test run procedure Always carry out a test run and check the following in order as listed.

Turn	The contents of operation	Check					
1	Open the gas side service valve fully.						
2	Open the liquid side service valve fully.						
(3)	Close the panel.						
4	Where a remote control unit is used for unit setup on the installation site, follow instructions for unit setup on the installation site with a remote control unit.						
(6)	SW3-3 ON / SW3-4 OFF: the unit will start a cooling operation.						
(0)	SW3-3 ON / SW3-4 ON: the unit will start a heating operation.						
6	When the unit starts operation, press the wind direction button provided on the remote control unit to check its operation.						
7	Place your hand before the indoor unit's diffuser to check whether cold (warm) winds come out in a cooling (heating) operation.						
(8)	Make sure that a red LED is not blinking.						
9	When you complete the test run, do not forget to turn SW3-3 to the OFF position.						
(10)	Where options are used, check their operation according to the respective instruction manuals.						



6. UTILIZATION OF EXISTING PIPING



MARNING <Where the existing unit can be run for a cooling operation.>

- Carry out the following steps with the existing unit (in the order of (1), (2), (3) and (4))

 (1) Run the unit for 30 minutes for a cooling operation.

 (2) Stop the indoor fan and run the unit for 3 minutes for a cooling operation (returning liquid)

 (3) Close the liquid side service valve of the outdoor unit and pump down (refrigerant recovery)

 (4) Blow with nitrogen gas. № If discolored refrigeration oil or any foreign matters is discharged by t wash the pipe system or install a new pipe system.

 For the flare nut, do not use the old one, but use the one supplied with the outdoor unit. Process a flare to the dimensions specified for R32.

 Turn on-site setting switch SW5-1 to the ON position. (Where the gas pipe size is

 ◆ 19.05)

 What he pipe system or install a new pipe system.

 If you choose to wash the pipe system, contact our distributor in the area.

- <Table of nine size restrictions>
- ②:Standard pipe size ○:Applicable
 △:Restricted to shorter pipe length limits ×:Not applicable

Additional	charging amount of refrigerant per 1m	0.02kg/m	0.054kg/m		0.11kg/m	
Pipe size	Liquid pipe	φ6.35	φ9.52	φ9.52	φ12.7	φ12.7
ripe size	Gas pipe	φ15.88	φ15.88	φ19.05	φ15.88	φ19.05
	Usability	Δ	0	○※1	Δ	△※1
100VNX 100VSX	Maximum one-way pipe length	20	100	100	50	50
100437	Length covered without additional charge	10	30	30	15	15
	Usability	Δ	0	○※1	Δ	△※1
125VNX 125VSX	Maximum one-way pipe length	20	100	100	50	50
ILUIUM	Length covered without additional charge	10	30	30	15	15
	Usability	Δ	0	○※1	Δ	△※1
140VNX 140VSX	Maximum one-way pipe length	20	100	100	50	50
INUVAK	Length covered without additional charge	10	30	30	15	15

<Pipe system after the branching pipe>

		Afte	er 1st bra	anch *4	After	r 2nd bra	nch	
Addition	nal charging amount of r	efrigerant per 1m	0.054kg/m			0.054kg/m		
	Liqui	d pipe		φ9.52			φ9.52	
Pipe size	Gas	pipe	φ12.7	φ15.88	ϕ 19.05 $\%$ 1	φ12.7	φ15.88	φ19.05 ± 1
Model	Combination type Combination of capacity							
100V	Twin	50+50	0	0	×	-	-	-
125V	Twin	60+60	0	0	×	-	-	-
	Twin	71+71	×	0	0	-	-	-
140V	Triple A	50+50+50	0	0	×	-	-	-
	Triple B	50+50+50	×	0 * 5	○※5	0	0	×

I Triple 8 9.9-90-90 × ● 98 ○ 98-9 ○ × ★

18 Recuse of its insofficient pressure resistance, turn the Dre wellch SMS-1 provided on the auditor unit board to the Oly position for φ19.05 × t1.0. (In the case of a twin-triple double-twin model, this also applies to the case where φ19.05 × t1.0 is used in a pipe system after the first branching point.) However, you need not turn the IPD eventh SMS-1 to the On position, if 17.99 pers or pipes having 12 or thicker walls are used.

18 2 When the main pipe length exceeds 40m, a significant capacity drop may be experienced due to pressure loss in the liquid pipe system. Use φ12.7 for the liquid main and the liquid pipe system. Use φ12.7 for 47 Pripa size after branch should be equal or smaller than main pipe size.

18 5 Pripa size from first branch branch be used or smaller than main pipes size.

28 Pripa size the first princh size of pipe sizes not listed in the table or marked with × in the table are not usable.

30 not reuse existing flare.

<The model types of existing units of which branching pipes are reusable.>

The branching pipes used with models other than those listed above are not reusable because of their insufficient pressure resistance. Please use our genuine branching pipes for R32.

• * * are numbers representing horsepower. □ □ □ is an alphanumeric letter

Formula to calculate additional charge volume

OffMulia to Californiae adultionar charge volume.

Additional charge volume (kg) = (Main pipe length (m) - Length covered without additional charge shown in the table (m)) ×

Additional charge volume per meter of pipe shown in the table (kg/m) +

Total length of branch pipes (m) × Additional charge volume per meter of pipe shown in the table (kg/m)

if you obtain a negative figure as a result of calculation, no additional refrigerant needs to be charged. Example) When an 140V (single installation) is installed in a 20m long existing pipe system (liquid φ 12.7, gas φ 19.05), the quantity of refigurant to charge additionally should be (20m-15m) x 0.11kg/m = 0.55 kg.

1.10.5 Instructions for branching pipe set (DIS-WA1, WB1, TA1, TB1)

PSB012D865 /A

WARNING / CAUTION

- This set is for R410A and R32 refrigerant.
- Select a branching pipe set correctly rated for the combined total capacity of connected indoor units and install it according to this manual. An improperly installed branching pipe set can cause degraded performance or an abnormal unit stop.
- Provide good heat insulation to the pipes by following instructions contained in this manual.
- Improper heat insulation can result in degraded performance or a water leak accident from condensation.
- Please make sure that only parts supplied as accessories or the manufacturer's approved parts are used in installing the unit, because a leak of refrigerant can result in a lack-of-oxygen accident, if it reaches a concentration beyond the tolerable limit.

This manual explains how to use a branching pipe set that is indispensable in connecting pipes for a twin/triple/double-twin configuration installation (system). For the details of piping work, unit installation work and electrical installation work, please refer to the installation manuals and installation guides supplied with your outdoor and indoor units.

1. Branching pipe set specifications

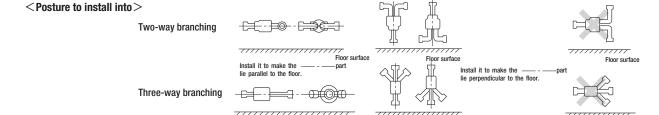
- (2) Connect pipes as illustrated in the table below. The pipe from an outdoor unit must be brazed to the pipe connection port "①" and the pipes from indoor units to "②," "③" and "④."

Branching pipe set type	Supported outdoor/inc	loor unit combinations		Part	lists		
branching pipe set type	Outdoor unit model	Indoor unit model	Branching pipe set for a liquid pipe	Branching pipe set for a gas pipe	Different diameter pipe joint	Heat insulation material	
	3HP	1.5HP+1.5HP	ID9.52	ID15.88	Joint A		
	4HP	2HP+2HP			ID9.52 2 pieces		
DIS-WA1		1.5HP+2.5HP		(D15.88) (D15.88)	Flare joint (for indoor unit side connection)	1 129	
(Two-way branching set)	5HP	2.5HP+2.5HP			(for indoor drift side conflection)		
(Two way branching oot)		2HP+3HP	ID9.52 🕌 ③		Joint B 2 pieces		
	6HP	3HP+3HP	ID9.52		0D15.88 D12.7	One each for liquid and gas	
	0	2HP+4HP	1 piece	1 piece		one each for inquite and gas	
		4HP+4HP	ID9.52	<u>ID15.88</u>			
DIS-WB1 (Two-way branching set)	8HP	3HP+5HP			Joint C 1 piece 0D12.7 D9.52		
	10HP	5HP+5HP	ID12.7 3 ID9.52 1 piece	1 piece ID25.4 ID15.88		One each for liquid and gas	
DIS-TA1 (Three-way branching set)	6HP	2HP+2HP+2HP	109.52 1 piece	ID12.7 ① ① ① ① ② ③ ① ① ID15.88 1 piece	Joint A ID9.52	One each for liquid and gas	
DIS-TB1 (Three-way branching set)	8HP	3HP+3HP+3HP	109.52 109.52 1 piece	1 piece	Joint A 2 pieces	One each for liquid and gas	

(3) To connect pipes for a Double Twin installation (involving 4 indoor units), please see 2-7. "Double Twin configuration." (4) A branching pipe set must always be installed into the posture as illustrated in the drawing below.

ID stands for inner diameter and OD, outer diameter

Floor surface

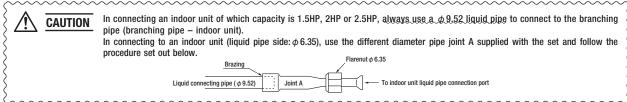


2. Pipe connecting procedure

Braze the different diameter pipe joint found in the set matching the connected outdoor and indoor unit capacities according to the instructions set out below.

Floor surface

Floor surface



2-1 DIS-WA1

Supported o		Liquid branching pipe	Gas branching pipe
Outdoor unit model	Indoor unit model	4 \$ 6-6	
ЗНР	1.5HP+1.5HP		Joint B (2)
	2HP+2HP	Flare joint (φ6.35) ← Joint A	Joint B
4HP	1.5HP+2.5HP	Connecting pipe (\$\phi 9.52\$) ID9.52	ID12.7
	2.5HP+2.5HP	(\$0.00)	Joint B 1015.88 1015.88 1015.88 1015.88 1015.88
5HP	2HP+3HP	Flare joint $(\phi 6.35)$ Joint A Connecting pipe $(\phi 9.52)$ ID9.52 \bigcirc \bigcirc \bigcirc CAUTION ID9.52 Reference	Joint B
6НР	3HP+3HP	ID9.52 ID9.52 ID9.52	ID15.88 ID15.88 ID15.88
	2HP+4HP	Flare joint $(\phi 6.35)$ Connecting pipe $(\phi 9.52)$	Joint B (1) 1012.7 Joint B (2) 1015.88

2-2 DIS-WB1

Supported combinations		Liquid branching pipe	Gas branching pipe	
Outdoor unit model	Indoor unit model	Liquid branching pipe	Gas branching pipe	
8HP	3HP+5HP	ID9.52	ID15.88 ID25.4 ID15.88	
	4HP+4HP	Joint C ID9.52		
10HP	5HP+5HP	ID9.52 ID12.73 (2) ID9.52	ID15.88 ID25.4 3 (3) ID15.88	

2-3 DIS-TA1 Applicable to the difference in length of pipes after the branch being less than 3m * Connection is not allowed when the difference in length of pipes is larger than 3m.

Supported combinations Outdoor unit model Indoor unit model		Liquid branching pipe	Gas branching pipe	
6НР	2HP+2HP+2HP	Connecting pipe Joint A (\$\phi 9.52)	1012.7 ① ② ③ ④	

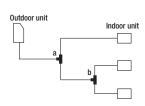
2-4 DIS-TB1 Applicable to the difference in length of pipes after the branch being less than 3 m *Connection is not allowed when the difference in length of pipes is larger than 3 m.

Supported combinations		Liquid branching pipe	Gas branching pipe	
Outdoor unit model	Indoor unit model	Liquid branching pipe	das brancining pipe	
8HP	3HP+3HP+3HP	ID9.52 3————————————————————————————————————	① ② ③ ④ ID15.88	

Note When connect the indoor unit of an old model that is shown in the model list, use the joint supplied with the branch piping set like *A

2-5. Triple type for same model/same capacity or different model/same capacity

When the difference in length of pipes after the branch is longer than 3m and shorter than 10m

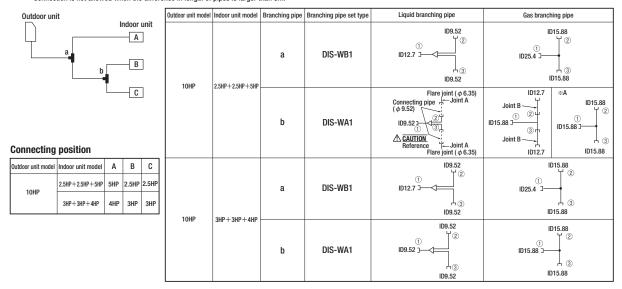


outdoor unit model	Indoor unit model	Branching pipe	Branching pipe set type	Liquid branching pipe	Gas branching pipe
		a		Flare joint (\$\phi 6.35\$) Connecting pipe (\$\phi 9.52\$) ID9.52 \(\begin{array}{c} \phi \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Joint B 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
6HP 2HP+2HP+2HP	b	DIS-WA1	Flare joint $(\phi 6.35)$ — Joint A Connecting pipe $(\phi 9.52)$ — $CAUTION$ Reference ϕ — Joint A Flare joint $(\phi 6.35)$	Joint B (D12.7) Joint B (D15.88) Joint B (D12.7)	
		a	DIS-WB1	ID9.52 ID9.52	ID15.88 ID25.4 3 3 ID15.88
8HP 3HP+3HF	3HP+3HP+3HP	b	DIS-WA1	ID9.52 (2) (3) (D9.52 (10).52	ID15.88 ID15.88 ID15.88

2-6. Triple type for same model/different capacity or different model/different capacity

Applicable to the difference in length of pipes after the branch being less than 3m

* Connection is not allowed when the difference in length of pipes is larger than 3m.



Note When connect the indoor unit of an old model that is shown in the model list, use the joint supplied with the branch piping set like * A.

2-7. Double Twin type

Pipes should be connected as follows for a Double Twin installation (4 connected indoor units. The capacity of an outdoor unit available for this configuration is either RHP or 10HP only):

s either 8HP or 10	HP only):		1			
Outdoor unit capacity	Indoor unit capacity	Branching pipe	Branching pipe set type	Outdoor unit model	Liquid branching pipe	Gas branching pipe
8HP 10HP	2HP×4 units 2.5HP×4 units		DIS-WB1	8HP	ID9.52 Joint C ID9.52	ID15.88 ⊕
Outdoor unit b	Indoor unit	a Indoor unit		10НР	ID9.52 ID9.52 ID9.52	ID25.4 J ③
ab				8НР	Flare joint (ϕ 6.35) Connecting pipe Joint A (ϕ 9.52)	Joint B ② U ID15.88 J ③ D Joint B ID12.7
		b	DIS-WA1	10HP	D9.52 →	#A ID15.88 Joint B 2 ID15.88 Joint B 3 ID15.88 Joint B 1 ID15.88 J

Note When connect the indoor unit of an old model that is shown in the model list, use the joint supplied with the branch piping set like * A.

3. Heat insulation work

(1) Condensation can also occur on liquid pipes with this model. Please provide good heat insulation to both liquid and gas pipes.

(2) For the heat insulation of a branching pipe, always use the heat insulation material supplied with the set and provide heat insulation according to the instructions set out below.

(for pipe insulation, etc.)
to be procured locally

Heat insulation material covering the installation's piping

Branching pipe's heat insulation

It has an adhesive layer on the entire inner face.
 Remove a separator and wrap it around the branching pipe.

2. Apply a heat insulation material (to be procured locally) to the joint between the branching pipe's heat insulation and the heat insulation material covering the installation's piping as described above and wrap a tape over the gap shown as a hatched (///) area to complete dressing of the piping.

Heat insulation material

1.10.6 Safety precautions in handling air-conditioners with flammable refrigerants

PSA012B839A 🔊

R32 REFRIGERANT USED



This equipment uses flammable refrigerants. If the refrigerant is leaked, together with an external ignition source, there is a possibility of ignition.



There is information included in the user's manual and/or installation manual.



The user's manual should be read carefully.



A service personnel should be handing this equipment with reference to the installation manual.

- This safety precaution sheet is for R32 refrigerant. If you want to know the type of refrigerant in the unit, check the label attached to the outdoor unit.
- The precautionary items mentioned below are distinguished into two levels, Marning and Caution

⚠ WARNING: Wrong installation would cause serious consequences such as injuries or death

⚠ CAUTION : Wrong installation might cause serious consequences depending on circumstances

⚠ WARNING

- Strict compliance of the domestic laws must be observed when disposing the appliance
- Do not use means to accelerate the defrosting process or to clean, other than those recommended by the manufacturer.
- The appliance shall be stored in a room without continuously operating ignition sources (for example: open flames, an operating gas appliance or an operating electric heater.
- Do not pierce or burn
- Be aware that refrigerants may not contain an odour.

⚠ CAUTION

(1. General)

- That the installation of pipe-work shall be kept to a minimum.
- That pipe-work shall be protected from physical damage.
 That compliance with national gas regulations shall
- That mechanical connections shall be accessible for maintenance purposes. Keep any required ventilation openings clear of
- obstruction.
- Servicing shall be performed only as recommended by the manufacturer.

2. Unventilated areas

The appliance shall be stored in a well-ventilated area where the room size corresponds to the room area as specified for operation.

Qualification of workers

The staff in servicing operations must hold the national qualification or other relevant qualifications.

Information on servicing

- 4.1 Checks to the area
- Prior to beginning work on systems containing flammable refrigerants, safety checks are necessary to ensure that the risk of ignition is minimised
- For repair to the refrigerating system, 4.3 to 4.7 shall be completed prior to conducting work on the system.
- 4.2 Work procedure
- · Work shall be undertaken under a controlled procedure so as to minimise the risk of a flammable gas or vapour being present while the work is being performed.
- 4.3 General work area
- All maintenance staff and others working in the local area shall be instructed on the nature of work being carried out.
- Work in confined spaces shall be avoided.
- The area around the workspace shall be sectioned off. Ensure that the conditions within the area have
- been made safe by control of flammable material.
- 4.4 Checking for presence of refrigerantThe area shall be checked with an appropriate refrigerant detector prior to and during work, to ensure the technician is aware of potentially toxic or flammable atmospheres
- Ensure that the leak detection equipment being used is suitable for use with all applicable refrigerants, i.e.

non-sparking, adequately sealed or intrinsically

- 4.5 Presence of fire extinguisher
- If any hot work is to be conducted on the refrigeration equipment or any associated parts. appropriate fire extinguishing equipment shall be available to hand. Have a dry powder or CO_2 fire extinguisher adjacent to the charging area
- 4.6 No ignition sources
- No person carrying out work in relation to a refrigeration system which involves exposing any pipe work shall use any sources of ignition in such a
- manner that it may lead to the risk of fire or explosion.
 All possible ignition sources, including cigarette smoking, should be kept sufficiently far away from the site of installation, repairing, removing and disposal, during which refrigerant can possibly be released to the surrounding space.
- Prior to work taking place, the area around the equipment is to be surveyed to make sure that there are no flammable hazards or ignition risks.
- "No Smoking" signs shall be displayed.
- 4.7 Ventilated area
- Ensure that the area is in the open or that it is adequately ventilated before breaking into the system or conducting any hot work.
- A degree of ventilation shall continue during the period that the work is carried out.
 The ventilation should safely disperse any released
- refrigerant and preferably expel it externally into the atmosphere.
- 4.8 Checks to the refrigeration equipment
- Where electrical components are being changed, they shall be fit for the purpose and to the correct specification.
- At all times the manufacturer's maintenance and
- service guidelines shall be followed.

 If in doubt consult the manufacturer's technical department for assistance
- The following checks shall be applied to installations using flammable refrigerants
 - the charge size is in accordance with the room size within which the refrigerant containing parts are installed:
- the ventilation machinery and outlets are operating adequately and are not obstructed;
- if an indirect refrigerating circuit is being used, the secondary circuit shall be checked for the presence of refrigerant;
- marking to the equipment continues to be visible and legible. Markings and signs that are illegible shall be corrected;
- refrigeration pipe or components are installed in a position where they are unlikely to be exposed to any substance which may corrode refrigerant containing components, unless the components are constructed of materials which are inherently resistant to being corroded or are suitably protected against being so corroded.

- 4.9 Checks to electrical devices
- Repair and maintenance to electrical components shall include initial safety checks and component inspection procedures.
- If a fault exists that could compromise safety, then no electrical supply shall be connected to the circuit until it is satisfactorily dealt with.
- If the fault cannot be corrected immediately but it is necessary to continue operation, an adequate temporary solution shall be used.
- This shall be reported to the owner of the equipment so all parties are advised.
- Initial safety checks shall include:
- that capacitors are discharged: this shall be done in a safe manner to avoid possibility of sparking;
- that no live electrical components and wiring are exposed while charging, recovering or purging the system:
- that there is continuity of earth bonding.

5. Repairs to sealed components

- During repairs to sealed components, all electrical supplies shall be disconnected from the equipment being worked upon prior to any removal of sealed covers, etc
- If it is absolutely necessary to have an electrical supply to equipment during servicing, then a permanently operating form of leak detection shall be located at the most critical point to warn of a potentially hazardous situation
- Particular attention shall be paid to the following to ensure that by working on electrical components, the casing is not altered in such a way that the level of protection is affected.
- This shall include damage to cables, excessive number of connections, terminals not made to original specification, damage to seals, incorrect fitting of glands, etc.
- Ensure that the apparatus is mounted securely. Ensure that seals or sealing materials have not degraded to the point that they no longer serve the purpose of preventing the ingress of flammable atmospheres.
- Replacement parts shall be in accordance with the manufacturer's specifications.

The use of silicon sealant can inhibit the effectiveness of some types of leak detection equipment. Intrinsically safe components do not have to be isolated prior to working on them.

⚠ CAUTION

Repair to intrinsically safe components

- Do not apply any permanent inductive or capacitance loads to the circuit without ensuring that this will not exceed the permissible voltage and current permitted for the equipment in use.
- Intrinsically safe components are the only types that can be worked on while live in the presence of a flammable atmosphere.
- The test apparatus shall be at the correct rating Replace components only with parts specified by the manufacturer.
- Other parts may result in the ignition of refrigerant in the atmosphere from a leak

7. Cabling

Check that cabling will not be subject to wear, corrosion, excessive pressure, vibration, sharp edges or any other adverse environmental effects The check shall also take into account the effects of aging or continual vibration from sources such as compressors or fans.

8. Detection of flammable refrigerants

- Under no circumstances shall potential sources of ignition be used in the searching for or detection of refrigerant leaks.
- A halide torch (or any other detector using a naked flame) shall not be used.

9. Leak detection methods

- Electronic leak detectors may be used to detect refrigerant leaks but, in the case of flammable refrigerants, the sensitivity may not be adequate, or may need re-calibration. (Detection equipment shall be calibrated in a refrigerant-free area.)
 Ensure that the detector is not a potential source of
- ignition and is suitable for the refrigerant used
- Leak detection equipment shall be set at a percentage of the LFL of the refrigerant and shall be calibrated to the refrigerant employed, and the appropriate percentage of gas (25 % maximum) is confirmed.
- Leak detection fluids are suitable for use with most refrigerants but the use of detergents containing chlorine shall be avoided as the chlorine may react with the refrigerant and corrode the copper pipe-work.
 If a leak is suspected, all naked flames shall be
- removed/extinguished.
- If a leakage of refrigerant is found which requires brazing, all of the refrigerant shall be recovered from the system, or isolated (by means of shut off valves) in a part of the system remote from the leak.
- For appliances containing flammable refrigerants, oxygen free nitrogen (OFN) shall then be purged through the system both before and during the brazing process.

10. Removal and evacuation

- When breaking into the refrigerant circuit to make repairs – or for any other purpose – conventional procedures shall be used. However, for flammable refrigerants it is important that best practice is followed since flammability is a consideration.
- The following procedure shall be adhered to: remove refrigerant;
- purge the circuit with inert gas;
- evacuate;
- purge again with inert gas;
- open the circuit by cutting or brazing. The refrigerant charge shall be recovered into the
- correct recovery cylinders.
- For appliances containing flammable refrigerants, the system shall be "flushed" with OFN to render the unit safe
- This process may need to be repeated several times.
- Compressed air or oxygen shall not be used for purging refrigerant systems.

- For appliances containing flammable refrigerants, flushing shall be achieved by breaking the vacuum in the system with OFN and continuing to fill until the working pressure is achieved, then venting to atmosphere, and finally pulling down to a vacuum. This process shall be repeated until no refrigerant is within the system.
- When the final OFN charge is used, the system shall be vented down to atmospheric pressure to enable work to take place. This operation is absolutely vital if brazing
- operations on the pipe-work are to take place.
- Ensure that the outlet for the vacuum pump is not close to any ignition sources and that ventilation is available

11. Charging procedures

- In addition to conventional charging procedures, the following requirements shall be followed.

 – Ensure that contamination of different refrigerants
- does not occur when using charging equipment. Hoses or lines shall be as short as possible to minimise the amount of refrigerant contained in
- Cylinders shall be kept upright.Ensure that the refrigeration system is earthed prior to charging the system with refrigerant.
- Label the system when charging is complete (if not already).
- Extreme care shall be taken not to overfill the refrigeration system.
- Prior to recharging the system, it shall be pressuretested with the appropriate purging gas
- The system shall be leak-tested on completion of charging but prior to commissioning.
- A follow up leak test shall be carried out prior to leaving the site.

12. Decommissioning

- Before carrying out this procedure, it is essential that the technician is completely familiar with the equipment and all its detail.
- It is recommended good practice that all refrigerants are recovered safely
- Prior to the task being carried out, an oil and refrigerant sample shall be taken in case analysis is required prior to re-use of reclaimed refrigerant.
- It is essential that electrical power is available before the task is commenced.

 a) Become familiar with the equipment and its
- b) Isolate system electrically.c) Before attempting the procedure ensure that:
- mechanical handling equipment is available, if
- required, for handling refrigerant cylinders; all personal protective equipment is available and being used correctly;
- the recovery process is supervised at all times by a competent person:
- recovery equipment and cylinders conform to the appropriate standards.
- d) Pump down refrigerant system, if possible.
- e) If a vacuum is not possible, make a manifold so that refrigerant can be removed from various parts of the system.
- f) Make sure that cylinder is situated on the scales before recovery takes place.
- g) Start the recovery machine and operate in accordance with manufacturer's instructions. h) Do not overfill cylinders. (No more than 80 %
- volume liquid charge).
 i) Do not exceed the maximum working pressure of
- the cylinder, even temporarily. j) When the cylinders have been filled correctly and the process completed, make sure that the
- cylinders and the equipment are removed from site promptly and all isolation valves on the equipment are closed off.
- k) Recovered refrigerant shall not be charged into another refrigeration system unless it has been cleaned and checked.

13. Labelling

- Equipment shall be labelled stating that it has been de-commissioned and emptied of refrigerant. The label shall be dated and signed.
- For appliances containing flammable refrigerants, ensure that there are labels on the equipment stating the equipment contains flammable refrigerant.

14. Recovery

- When removing refrigerant from a system, either for servicing or decommissioning, it is recommended good practice that all refrigerants are removed
- safely.
 When transferring refrigerant into cylinders, ensure that only appropriate refrigerant recovery cylinders
- are employed.

 Ensure that the correct number of cylinders for holding the total system charge are available
- All cylinders to be used are designated for the recovered refrigerant and labelled for that refrigerant (i.e. special cylinders for the recovery of refrigerant).
- Cylinders shall be complete with pressure relief valve and associated shut-off valves in good working order.
- Empty recovery cylinders are evacuated and, if possible, cooled before recovery occurs.
- The recovery equipment shall be in good working order with a set of instructions concerning the equipment that is at hand and shall be suitable for the recovery of all appropriate refrigerants including, when applicable, flammable refrigerants.
- In addition, a set of calibrated weighing scales shall be available and in good working order
- · Hoses shall be complete with leak-free disconnect couplings and in good condition.
- Before using the recovery machine, check that it is in satisfactory working order, has been properly maintained and that any associated electrical components are sealed to prevent ignition in the event of a refrigerant release.
- Consult manufacturer if in doubt.
- The recovered refrigerant shall be returned to the refrigerant supplier in the correct recovery cylinder, and the relevant Waste Transfer Note arranged. Do not mix refrigerants in recovery units and
- especially not in cylinders.

 If compressors or compressor oils are to be removed, ensure that they have been evacuated to an acceptable level to make certain that flammable refrigerant does not remain within the lubricant.
- The evacuation process shall be carried out prior to
- returning the compressor to the suppliers.

 Only electric heating to the compressor body shall be employed to accelerate this process
- · When oil is drained from a system, it shall be carried out safely.

15. Other safety precautions

- A brazed, welded, or mechanical connection shall be made before opening the valves to permit refrigerant to flow between the refrigerating system parts.
- Flammable refrigerant used, refrigerant tubing protected or enclosed to avoid mechanical damage (IEC/EN 60335-2-40/A1).
- Tubing protected to extent that it will not be handled or used for carrying during moving of product (IEC/ EN 60335-2-40/A1).
- Flammable refrigerant used, low temperature solder alloys, such as lead/tin alloys, not acceptable for pipe connections (IEC/EN 60335-2-40/A1).
- Do not use flare nut indoor which is locally procured.

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Selection of installation location for the indoor unit

• Minimum installation area for indoor unit

⚠ CAUTION

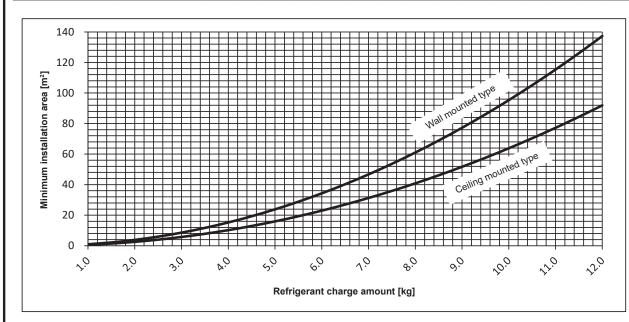
The indoor unit shall be installed in a room with minimum installation area or more according to the refrigerant charge amount (factory refrigerant charge +additional refrigerant charge).

For factory refrigerant charge, refer to the outdoor unit label model name or installation sheet.

For additional refrigerant charge, refer to the outdoor unit installation sheet.

type

Ceiling mounted type	FDT,FDE,FDU,FDUM	series														
Wall mounted type	SRK series															
Refrige charge amo		1.30	1.50	1.75	2.00	2.25	2.50	2.75	3.00	3.25	3.50	3.75	4.00	4.25	4.50	4.75
minimum	Ceiling mounted type	1.1	1.4	2.0	2.6	3.2	4.0	4.8	5.7	6.7	7.8	9.0	10.2	11.5	12.9	14.4
installation area [m²]	Wall mounted type	1.6	2.1	2.9	3.8	4.8	6.0	7.2	8.6	10.1	11.7	13.4	15.3	17.2	19.3	21.5
Refrige charge amo		5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5	9.0	9.5	10.0	10.5	11.0	11.5	12.0
minimum	Ceiling mounted type	16	19	23	27	31	36	41	46	52	58	64	70	77	84	92
installation area [m2]	Wall mounted	24	20	24	40	47	E4	61	60	77	96	05	105	115	126	127



The minimum floor area [m²] is determined based on the installation height of 1.8m for wall mounted type and 2.2m for ceiling mounted type.

• Ceiling opening area

⚠ CAUTION

In case of installing the indoor unit in an enclosed ceiling space, ensure there is a sufficient ventilation opening around the unit. In the event of refrigerant leakage, this countermeasure would prevent an increased concentration of refrigerant.

1.11 TECHNICAL INFORMATION

(1) Ceiling cassette-4 way type (FDT)

Model FDT100VNXWVH

nformation to identify the model(s) t ndoor unit model name	FDT100V		If function includes heating: Indica information relates to. Indicated va		ite to one	
Outdoor unit model name	FDC100V	NX-W	heating season at a time. Include a	it least the heatir	ng seasor	'Average
Function(indicate if present)			Average(mandatory)	Yes		
cooling	Yes		Warmer(if designated)	No		
eating	Yes		Colder(if designated)	No		
						
tem	symbol	value unit	Item Seasonal efficiency and energy eff	symbol	value	class
Design load Booling	Pdesigno	10.0 kW	cooling	SEER	8.00	A++
eating / Average	Pdesignh	11.2 kW	heating / Average	SCOP/A	4.44	A+
eating / Warmer	Pdesignh	- kW	heating / Warmer	SCOP/W	-	-
eating / Colder	Pdesignh	- kW	heating / Colder	SCOP/C	-	
Sociared conscitutes at authors towns	roturo Tdooian	h	Dook up booting consoits at outdo	t	- Falanianh	unit
Declared capacity at outdoor temper eating / Average (-10°C)	Pdh	11.2 kW	Back up heating capacity at outdoor heating / Average (-10°C)	elbu	0 0	kW
eating / Warmer (2°C)	Pdh	- kW	heating / Warmer (2°C)	elbu	-	kW
eating / Colder (-22°C)	Pdh	- kW	heating / Colder (-22°C)	elbu	-	kW
			1.			
Declared capacity for cooling, at inde	oor temperatui	e 27(19)℃ and	Declared energy efficiency ratio, a	t indoor tempera	ture 27(1	9)°C and
utdoor temperature Tj ï=35°C	Pdc	10.00 kW	outdoor temperature Tj	EERd	4.38	٦_
i=30°C	Pdc	7.30 kW	Ti=30°C	EERd	6.63	٦_
i=25°C	Pdc	4.70 kW	Ti=25°C	EERd	11.34	-
-j=20°C	Pdc	3.30 kW	Tj=20°C	EERd	13.29	-
Declared capacity for heating / Average paragraphy 20°C and outdoor town		Indoor	Declared coefficient of performance		son, at in	door
emperature 20°C and outdoor temp ¯i=-7°C	erature 1j Pdh	9.91 kW	temperature 20°C and outdoor tem	COPd	3.03	٦-
j=-7 C j=2°C	Pdh	6.03 kW	Tj=2°C	COPd	4.13	- -
;	Pdh	3.88 kW	Tj=7°C	COPd	6.17	
j=12°C	Pdh	2.87 kW	Tj=12°C	COPd	7.05]-
j=bivalent temperature	Pdh	11.20 kW	Tj=bivalent temperature	COPd	2.30	
j=operating limit	Pdh	9.70 kW	Tj=operating limit	COPd	2.20	-
eclared capacity for heating / Warr	mer season at	indoor	Declared coefficient of performance	e / Warmer sea	son at in	door
emperature 20°C and outdoor temp		indoor	temperature 20°C and outdoor tem		3011, at 111	aooi
j=2°C	Pdh	- kW	Tj=2°C	COPd	-	-
j=7°C	Pdh	- kW	Tj=7°C	COPd	-]-
j=12°C	Pdh	- kW	Tj=12°C	COPd	-	_ -
j=bivalent temperature	Pdh	- kW	Tj=bivalent temperature	COPd	-	_ -
j=operating limit	Pdh	- kW	Tj=operating limit	COPd	-	-
Declared capacity for heating / Cold	er season, at i	ndoor	Declared coefficient of performance	e / Colder seaso	on, at inde	oor
emperature 20°C and outdoor temp	erature Tj		temperature 20°C and outdoor tem	nperature Tj		_
_j=-7°C	Pdh	- kW	Tj=-7°C	COPd	-	
-j=2°C	Pdh	- kW	Tj=2°C	COPd	-	
Γj=7°C Γj=12°C	Pdh Pdh	- kW - kW	Tj=7°C Tj=12°C	COPd COPd	-	- -
j=12 C j=bivalent temperature	Pdh	- kW - kW	Tj=bivalent temperature	COPd	-	⊣ [
j=operating limit	Pdh	- kW	Tj=operating limit	COPd	-	
j=-15℃	Pdh	- kW	Ti=-15°C	COPd	-	−
-		'				
Bivalent temperature		40 00	Operating limit temperature	.		٦٠٥
neating / Average	Tbiv	-10 °C	heating / Average	Tol	-20	_°C
leating / Warmer leating / Colder	Tbiv Tbiv	- °C	heating / Warmer heating / Colder	Tol Tol	-	°C ∵
Cauriy / Coluct	I DIV	- -	_ Ineating / Coluct	101		1 -
Cycling interval capacity			Cycling interval efficiency			_
or cooling	Pcycc	- kW	for cooling	EERcyc	-]-
or heating	Pcych	- kW	for heating	COPcyc	-	-
egradation coefficient			Degradation coefficient			
ooling	Cdc	0.25 -	heating	Cdh	0.25	٦-
lectric power input in power modes			Annual electricity consumption			
ff mode	Poff	15 W	cooling	Qce	438	kWh/a
tandby mode nermostat-off mode	Psb	15 W 25 W	heating / Average heating / Warmer	Qhe	3534	kWh/a kWh/a
ieimostat-on mode	Pto(cooling) Pto(heating)	45 W	heating / warmer	Qhe Qhe	-	kWh/a
rankcase heater mode	Pto(neating) Pck	5 W	Industry / coluct	QIIC		IVAA11/q
		- 1**	_			
capacity control(indicate one of thre	e options)		Other items			_
			Sound power level(indoor)	Lwa	62	dB(A)
fixed	NI-		Sound power level(outdoor)	Lwa	67	dB(A)
fixed	No No		Global warming potential Rated air flow(indoor)	GWP	675 2220	kgCO ₂ e m³/h
staged variable	Yes		Rated air flow(indoor) Rated air flow(outdoor)	-	6000	m³/h
- GIIGOTO	163				1 2000	1 ///
Contact details for obtaining Na		6.0	urer or of its authorised representative			

Model FDT100VSXWVH

		relates to:				
			1 1			14,,000
FDC100V	SX-W		neating season at a time. Include at le	east the neath	ig season	Averaç
			Average(mandatory)	Yes		
res			Colder(ii designated)	NO		
symbol	value	unit	Item	symbol	value	class
		_				
				SEER		A+-
						A+
					-	-
Paesignn	-	KVV	neating / Colder	SCOP/C	-	unit
ture Tdesian	h		Back up heating capacity at outdoor	temperature 1	designh	unit
Pdh	11.2	kW	heating / Average (-10°C)	elbu	0	kW
Pdh	-	kW	heating / Warmer (2°C)	elbu	-	kW
Pdh	-	kW	heating / Colder (-22°C)	elbu	-	kW
r tomporatu	-0.27/10\°	Cand	Declared energy efficiency ratio at in	door tompore	turo 27/10	0)°C on
i temperatur	e 27 (19)	C and		door tempera	iture 27 (is	9) C all
Pdc	10.00	kW	Tj=35°C	EERd	4.38	7-
Pdc	7.30	kW	Tj=30°C	EERd	6.63	1-
Pdc	4.70	kW	Tj=25°C	EERd	11.34]-
Pdc	3.30	kW	Tj=20°C	EERd	13.29	-
	linde		Deployed coefficient of a set-	A., a. a. a. a.	+:	daa-
	indoor				son, at inc	oor
	9.91	7kW			3.03	7-
Pdh	6.03	kW		COPd	4.13	1-
Pdh	3.88	kW	Tj=7°C	COPd	6.17	1-
Pdh	2.87	kW	Tj=12°C	COPd	7.05]-
Pdh	11.20	kW	Tj=bivalent temperature	COPd	2.30]-
Pdh	9.70	kW	Tj=operating limit	COPd	2.20	-
			Dealers described and an extraction of the second	10/		
	indoor				son, at inc	loor
		lkW				٦_
					-	_
Pdh	-				-	1_
Pdh	-	kW	Tj=bivalent temperature	COPd	-	1-
Pdh	-	kW	Tj=operating limit	COPd	-]-
	ndoor				on, at indo	or
		lkW				٦_
			11,		_	1_
	_				-	1_
Pdh	-	kW	11,		-	-
Pdh	-	kW	Tj=bivalent temperature	COPd	-	1-
Pdh	-	kW	Tj=operating limit	COPd	-	1-
Pdh	-	kW	Tj=-15°C	COPd	-]-
			10			
Thiv	-10	J°c		Tol	-20	°c
						-°C
	-		-		-	∞
	1	1 ~		. 01	1	, -
		_	Cycling interval efficiency			_
Pcycc	-	kW	for cooling	EERcyc	-	<u> </u> -
Pcych	-	kW	for heating	COPcyc	-	-
			Degradation coefficient			
Cdc	0.25	٦-		Cdh	0.25	7-
	1.20	1			J.20	1
			Annual electricity consumption			_
Poff	15	W	cooling	Qce	438	kWh/
Psb	15	W	heating / Average	Qhe	3534	kWh/a
Pto(cooling)			-		-	kWh/a
			neating / colder	Qhe	-	kWh/a
FUK] 5	IVV	I			
options)			Other items			
-puo110/			Sound power level(indoor)	Lwa	62	dB(A)
			Sound power level(outdoor)	Lwa	67	dB(A)
No			Global warming potential	GWP	675	kgČO
	_		Rated air flow(indoor)	-	2220	m³/h
No					6000	m³/h
No Yes			Rated air flow(outdoor)	-	6000	_
Yes				-	6000	
Yes ne and addre			rer or of its authorised representative.	-	6000	<u> </u>
Yes ne and addre ubishi Heavy	Industrie	s Air-Cond			6000	'
	yes yes yes symbol Pdesignc Pdesignh Pdesignh Pdesignh Pdesignh Pdh Pdh Pdh Pdh Pdh Pdh Pdh Pdh Pdh Pd	Yes Yes	Yes Yes Yes Symbol Value Unit	FDT100VH FDC100VSX-W Information relates to. Indicated value heating season at a time. Include at least teason, at indoor ature Tj Pdh Pdh Rdh Pdh Rdh Pdh Rdh Pdh Rdh Pdh Rdh Rdh Pdh Rdh Pdh Rdh Rdh Rdh Pdh Rdh Rdh Rdh Rdh Rdh Rdh Rdh Rdh Rdh R	FDT100VH FDC100VSX-W FDC	FDT100VH FDC100VS.W Information relates to. Indicated values should relate to one heating season at a time. Include at least the heating season the heating season at a time. Include at least the heating season the heating season at a time. Include at least the heating season at a time. Include at least the heating season at a time. Include at least the heating season at a time. Include at least the heating season at lime. Include at least the heating season at

Model FDT100VNXWPVH

Information to identify the model(
	s) to which the in	ormation relates to	If function includes heating: Indicate	e the heating so	eason the	
Indoor unit model name		l (x2 units)	information relates to. Indicated val			
Outdoor unit model name	FDC100V	NX-W	heating season at a time. Include at	least the heating	ng season	'Average
Function(indicate if present)			Average(mandatory)	Yes		
cooling	Yes		Warmer(if designated)	No		
heating	Yes		Colder(if designated)	No		
Item	symbol	value unit	Item	symbol	value	class
Design load	Ddaaiana	10.0 kW	Seasonal efficiency and energy efficiency		0.24	Ι Δ
cooling	Pdesigno		cooling	SEER SCOP/A	8.24 4.24	A++ A+
heating / Average	Pdesignh		heating / Average heating / Warmer			A+ -
heating / Warmer	Pdesignh			SCOP/W		
heating / Colder	Pdesignh	- kW	heating / Colder	SCOP/C	-	-
Declared capacity at outdoor tem	noroturo Tdooign	h	Back up heating capacity at outdoo	r tomporaturo	Tdooignh	unit
heating / Average (-10°C)	Pdh	11.2 kW	heating / Average (-10°C)	elbu	0	kW
heating / Average (-10 C)	Pdh	- kW	heating / Warmer (2°C)	elbu	-	kW
heating / Colder (-22°C)	Pdh	- kW	heating / Warrier (2 °C)	elbu		kW
rieating / Colder (-22 C)	Full	- KVV	rieating / Colder (-22 C)	eibu		KVV
Declared capacity for cooling, at i	indoor temperatuu	re 27/10\°C and	Declared energy efficiency ratio, at	indoor temper	atura 27/10	D\°C and
outdoor temperature Tj	ndoor temperatur	e 27 (19) O and	outdoor temperature Ti	indoor tempera	ature 27 (1.	o) C and
Tj=35°C	Pdc	10.00 kW	Tj=35°C	EERd	4.35	1_
Tj=30°C	Pdc	7.30 kW	Ti=30°C	EERd	6.60	1_
Tj=30°C Tj=25°C	Pdc	4.70 kW	Ti=25°C	EERd	11.30	1_
Tj=20°C	Pdc	3.20 kW	Tj=25 C Tj=20°C	EERd	17.30	1_
1,-20 0	Fuc	J.20 KVV		LLITU	17.30	
Declared capacity for heating / Av	verage season a	indoor	Declared coefficient of performance	Average sea	son at in	door
temperature 20°C and outdoor te			temperature 20°C and outdoor temp			2001
Tj=-7°C	Pdh	9.91 kW	Ti=-7°C	COPd	2.80	7-
Γj=2°C	Pdh	6.03 kW	Tj=2°C	COPd	3.80	1_
Γj=7°C	Pdh	3.88 kW	Ti=7°C	COPd	6.40	1_
Γj=7 C Γj=12°C	Pdh	2.83 kW	Tj=12°C	COPd	7.30	1_
rj=12 C Fj=bivalent temperature	Pdh	11.20 kW	Tj=bivalent temperature	COPd	2.30	1.
Tj=blvalent temperature Tj=operating limit	Pdh	9.00 kW	Tj=bivalent temperature	COPd	2.10	1
rj-operating iiriit	Full	9.00 KVV	1j-operating limit	COFU	2.10	<u> </u>
Declared capacity for heating / W	armer season at	indoor	Declared coefficient of performance	/ Warmer sea	son at inc	loor
emperature 20°C and outdoor te		ilidool	temperature 20°C and outdoor temp		3011, at 1110	1001
Fi=2°C	Pdh	- kW	Ti=2°C	COPd	-	٦_
Γj=7°C	Pdh	- kW	Ti=7°C	COPd		1_
Γj=12°C	Pdh	- kW	Ti=12°C	COPd		1
rj=12 C Fj=bivalent temperature	Pdh	- kW	Tj=12 C	COPd		-
	Pdh	- kW	11 -	COPd		-
Tj=operating limit	Full	- KVV	Tj=operating limit	COPu		-
Doctored capacity for heating / Co	older season, at i	ndoor	Declared coefficient of performance	/ Coldor coas	on at indo	or
Declared capacity for heating / Co temperature 20°C and outdoor te		14001	temperature 20°C and outdoor temp		ori, at illiuu	.01
Tj=-7°C	Pdh	- kW	Ti=-7°C	COPd	-	7_
Tj=2°C	Pdh	- kW	Ti=2°C	COPd	_	1_
Tj=7°C	Pdh	- kW	Ti=7°C	COPd		1_
rj=7 ℃ Tj=12℃	Pdh	- kW	Tj=12°C	COPd		1
rj=12 C Fj=bivalent temperature	Pdh	- kW	Tj=12 C	COPd		ł[
	Pdh	- kW		COPd		- 1
Γj=operating limit			Tj=operating limit		-	- 1
Гј=-15℃	Pdh	- kW	Tj=-15°C	COPd	-	-
2:			Operating limit temperature			
			I Toberating illilit tellibelatule			l℃
	Thiv	-10 100	heating / Average	Tol	_20	
neating / Average	Tbiv	-10 °C	heating / Average	Tol	-20	
neating / Average neating / Warmer	Tbiv	- °C	heating / Warmer	Tol	-	°C
neating / Average neating / Warmer						
neating / Average neating / Warmer neating / Colder	Tbiv	- °C	heating / Warmer heating / Colder	Tol	-	°C
neating / Average neating / Warmer neating / Colder Cycling interval capacity	Tbiv Tbiv	- °C	heating / Warmer heating / Colder Cycling interval efficiency	Tol Tol	-	°C
leating / Average leating / Warmer leating / Colder Cycling interval capacity or cooling	Tbiv Tbiv Pcycc	- °C - °C	heating / Warmer heating / Colder Cycling interval efficiency for cooling	Tol Tol EERcyc	-	°C
neating / Average neating / Warmer neating / Colder Cycling interval capacity or cooling	Tbiv Tbiv	- °C	heating / Warmer heating / Colder Cycling interval efficiency	Tol Tol	-	°C
neating / Average neating / Warmer neating / Colder Cycling interval capacity or cooling or heating	Tbiv Tbiv Pcycc	- °C - °C	heating / Warmer heating / Colder Cycling interval efficiency for cooling for heating	Tol Tol EERcyc	-	°C
neating / Average neating / Warmer neating / Colder Cycling interval capacity or cooling or heating Degradation coefficient	Tbiv Tbiv Pcycc Pcych	- °C - °C	heating / Warmer heating / Colder Cycling interval efficiency for cooling for heating Degradation coefficient	Tol Tol EERcyc COPcyc		°C
neating / Average neating / Warmer neating / Colder Cycling interval capacity or cooling or heating Degradation coefficient	Tbiv Tbiv Pcycc	- °C - °C	heating / Warmer heating / Colder Cycling interval efficiency for cooling for heating	Tol Tol EERcyc	-	°C
neating / Average neating / Warmer neating / Colder Cycling interval capacity or cooling or heating Degradation coefficient cooling	Tbiv Tbiv Pcycc Pcych	- °C - °C - kW - kW	heating / Warmer heating / Colder Cycling interval efficiency for cooling for heating Degradation coefficient heating	Tol Tol EERcyc COPcyc		°C
neating / Average neating / Warmer neating / Colder Cycling interval capacity or cooling or heating Degradation coefficient cooling Electric power input in power more	Tbiv Tbiv Pcycc Pcych Cdc des other than 'ac	- °C - °C - kW - kW - kW	heating / Warmer heating / Colder Cycling interval efficiency for cooling for heating Degradation coefficient heating Annual electricity consumption	Tol Tol EERcyc COPcyc		- - - - -
neating / Average neating / Warmer neating / Colder Cycling interval capacity or cooling or heating Degradation coefficient cooling Electric power input in power month	Tbiv Tbiv Pcycc Pcych Cdc des other than 'acc Poff	- °C - °C - KW - kW - kW - 18 W	heating / Warmer heating / Colder Cycling interval efficiency for cooling for heating Degradation coefficient heating Annual electricity consumption cooling	Tol Tol EERcyc COPcyc	0.25	°C °C - - - -
neating / Average neating / Warmer neating / Colder Cycling interval capacity or cooling or heating Degradation coefficient cooling Electric power input in power mode standby mode	Tbiv Tbiv Pcycc Pcych Cdc des other than 'acc Poff Psb	- °C	heating / Warmer heating / Colder Cycling interval efficiency for cooling for heating Degradation coefficient heating Annual electricity consumption cooling heating / Average	Tol Tol EERcyc COPcyc Cdh Qce Qhe	- - - 0.25	°C °C]- -]-]-]-]kWh/a kWh/a
neating / Average neating / Warmer neating / Colder Cycling interval capacity or cooling or heating Degradation coefficient cooling Electric power input in power mode standby mode	Tbiv Tbiv Pcycc Pcych Cdc des other than 'ac Poff Psb Pto(cooling)	- °C	heating / Warmer heating / Colder Cycling interval efficiency for cooling for heating Degradation coefficient heating Annual electricity consumption cooling heating / Average heating / Warmer	Tol Tol EERcyc COPcyc Cdh Qce Qhe Qhe	- - - - 0.25	c c - - - - - - - - - - - - - - - -
neating / Average neating / Warmer neating / Warmer neating / Colder Cycling interval capacity or cooling or heating Degradation coefficient cooling Electric power input in power monifi mode standby mode thermostat-off mode	Tbiv Tbiv Pcycc Pcych Cdc des other than 'ac Poff Psb Pto(cooling) Pto(heating)	- °C - °C - °C - kW - kW - stive mode' 18 W - 18 W - 20 W - 56 W	heating / Warmer heating / Colder Cycling interval efficiency for cooling for heating Degradation coefficient heating Annual electricity consumption cooling heating / Average	Tol Tol EERcyc COPcyc Cdh Qce Qhe	- - - 0.25	c c - - - - - - - - - - - - - - - - - -
neating / Average neating / Warmer neating / Colder Cycling interval capacity or cooling or heating Degradation coefficient cooling Electric power input in power more off mode standby mode hermostat-off mode	Tbiv Tbiv Pcycc Pcych Cdc des other than 'ac Poff Psb Pto(cooling)	- °C	heating / Warmer heating / Colder Cycling interval efficiency for cooling for heating Degradation coefficient heating Annual electricity consumption cooling heating / Average heating / Warmer	Tol Tol EERcyc COPcyc Cdh Qce Qhe Qhe	- - - - 0.25	°C °C - - - - - - - - - - - - - - - - -
neating / Average neating / Warmer neating / Colder Cycling interval capacity or cooling or heating Degradation coefficient cooling Electric power input in power mon off mode standby mode hermostat-off mode crankcase heater mode	Tbiv Tbiv Tbiv Pcycc Pcych Cdc des other than 'ac Poff Psb Pto(cooling) Pto(heating) Pck	- °C - °C - °C - kW - kW - stive mode' 18 W - 18 W - 20 W - 56 W	heating / Warmer heating / Colder Cycling interval efficiency for cooling for heating Degradation coefficient heating Annual electricity consumption cooling heating / Average heating / Warmer heating / colder	Tol Tol EERcyc COPcyc Cdh Qce Qhe Qhe	- - - - 0.25	°C °C - - - - - - - - - - - - - - - - -
neating / Average neating / Warmer neating / Colder Cycling interval capacity or cooling or heating Degradation coefficient cooling Electric power input in power mon off mode standby mode hermostat-off mode crankcase heater mode	Tbiv Tbiv Tbiv Pcycc Pcych Cdc des other than 'ac Poff Psb Pto(cooling) Pto(heating) Pck	- °C - °C - °C - kW - kW - stive mode' 18 W - 18 W - 20 W - 56 W	heating / Warmer heating / Colder Cycling interval efficiency for cooling for heating Degradation coefficient heating Annual electricity consumption cooling heating / Average heating / Warmer heating / colder	Tol Tol EERcyc COPcyc Cdh Qce Qhe Qhe Qhe Qhe	0.25 425 3700	°C °C kWh/a kWh/a kWh/a
neating / Average neating / Warmer neating / Colder Cycling interval capacity or cooling or heating Degradation coefficient cooling Electric power input in power mon off mode standby mode hermostat-off mode crankcase heater mode	Tbiv Tbiv Tbiv Pcycc Pcych Cdc des other than 'ac Poff Psb Pto(cooling) Pto(heating) Pck	- °C - °C - °C - kW - kW - stive mode' 18 W - 18 W - 20 W - 56 W	heating / Warmer heating / Colder Cycling interval efficiency for cooling for heating Degradation coefficient heating Annual electricity consumption cooling heating / Average heating / Warmer heating / colder Other items Sound power level(indoor)	Tol Tol EERcyc COPcyc Cdh Qce Qhe Qhe Qhe Qhe Lwa	- - - - - - - - - - - - - - - - - - -	c c c
neating / Average neating / Warmer neating / Colder Cycling interval capacity for cooling for heating Degradation coefficient cooling Electric power input in power more off mode standby mode hermostat-off mode crankcase heater mode Capacity control(indicate one of t	Tbiv Tbiv Tbiv Pcycc Pcych Cdc des other than 'ac Poff Psb Pto(cooling) Pto(heating) Pck hree options)	- °C - °C - °C - kW - kW - stive mode' 18 W - 18 W - 20 W - 56 W	heating / Warmer heating / Colder Cycling interval efficiency for cooling for heating Degradation coefficient heating Annual electricity consumption cooling heating / Average heating / Warmer heating / colder Other items Sound power level(indoor) Sound power level(outdoor)	Tol Tol EERcyc COPcyc Cdh Qce Qhe Qhe Qhe Qhe Lwa Lwa	- - - - - - - - - - - - - - - - - - -	c c c c c c c c c c c c c c c c c c c
neating / Average neating / Warmer neating / Colder Cycling interval capacity or cooling or heating Degradation coefficient cooling Electric power input in power mod ff mode standby mode hermostat-off mode crankcase heater mode Capacity control(indicate one of t	Tbiv Tbiv Tbiv Pcycc Pcych Cdc des other than 'ac Poff Psb Pto(cooling) Pto(heating) Pck hree options)	- °C - °C - °C - kW - kW - stive mode' 18 W - 18 W - 20 W - 56 W	heating / Warmer heating / Colder Cycling interval efficiency for cooling for heating Degradation coefficient heating Annual electricity consumption cooling heating / Average heating / Warmer heating / colder Other items Sound power level(indoor) Sound power level(outdoor) Global warming potential	Tol Tol EERcyc COPcyc Cdh Qce Qhe Qhe Qhe Lwa Lwa GWP	- - - - - - - - - - - - - - - - - - -	°C °C -C - - - - - - - - - - - - - - - -
staged	Tbiv Tbiv Tbiv Pcycc Pcych Cdc des other than 'ac Poff Psb Pto(cooling) Pto(heating) Pck hree options)	- °C - °C - °C - kW - kW - stive mode' 18 W - 18 W - 20 W - 56 W	heating / Warmer heating / Colder Cycling interval efficiency for cooling for heating Degradation coefficient heating Annual electricity consumption cooling heating / Average heating / Warmer heating / Colder Other items Sound power level(indoor) Sound power level(outdoor) Global warming potential Rated air flow(indoor)	Tol Tol EERcyc COPcyc Cdh Qce Qhe Qhe Qhe Qhe Che Che Che Che Che Che Che Che Che C	- - - - - - - - - - - - - - - - - - -	°C °C °C
neating / Average neating / Warmer neating / Colder Cycling interval capacity or cooling or heating Degradation coefficient cooling Electric power input in power mod ff mode standby mode hermostat-off mode crankcase heater mode Capacity control(indicate one of t	Tbiv Tbiv Tbiv Pcycc Pcych Cdc des other than 'ac Poff Psb Pto(cooling) Pto(heating) Pck hree options)	- °C - °C - °C - kW - kW - stive mode' 18 W - 18 W - 20 W - 56 W	heating / Warmer heating / Colder Cycling interval efficiency for cooling for heating Degradation coefficient heating Annual electricity consumption cooling heating / Average heating / Warmer heating / colder Other items Sound power level(indoor) Sound power level(outdoor) Global warming potential	Tol Tol EERcyc COPcyc Cdh Qce Qhe Qhe Qhe Lwa Lwa GWP	- - - - - - - - - - - - - - - - - - -	°C °C -C - - - - - - - - - - - - - - - -
neating / Average neating / Warmer neating / Colder Cycling interval capacity or cooling or heating Degradation coefficient cooling Electric power input in power mooff mode standby mode hermostat-off mode crankcase heater mode Capacity control(indicate one of to fixed staged variable	Tbiv Tbiv Tbiv Pcycc Pcych Cdc des other than 'acc Poff Psb Pto(cooling) Pto(heating) Pck hree options) No No Yes	- °C - °C - °C - kW - kW - kW 0.25 tive mode' 18 W 18 W 20 W 56 W 5 W	heating / Warmer heating / Colder Cycling interval efficiency for cooling for heating Degradation coefficient heating Annual electricity consumption cooling heating / Average heating / Warmer heating / colder Other items Sound power level(indoor) Sound power level(outdoor) Global warming potential Rated air flow(indoor) Rated air flow(outdoor)	Tol Tol EERcyc COPcyc Cdh Qce Qhe Qhe Qhe Che Che Che Che Che Che Che Che Che C	- - - - - - - - - - - - - - - - - - -	°C °C °C
neating / Average neating / Warmer neating / Warmer neating / Colder Cycling interval capacity or cooling or heating Degradation coefficient nooling Electric power input in power mode standby mode thermostat-off mode crankcase heater mode Capacity control(indicate one of t fixed staged variable Contact details for obtaining	Tbiv Tbiv Tbiv Pcycc Pcych Cdc des other than 'ac Poff Psb Pto(cooling) Pto(heating) Pck hree options) No No Yes Name and addre	- °C - °C - °C - °C - kW - kW - stive mode' 18 W 20 W 56 W 5 W	heating / Warmer heating / Colder Cycling interval efficiency for cooling for heating Degradation coefficient heating Annual electricity consumption cooling heating / Average heating / Warmer heating / colder Other items Sound power level(indoor) Sound power level(outdoor) Global warming potential Rated air flow(indoor) Rated air flow(outdoor)	Tol Tol EERcyc COPcyc Cdh Qce Qhe Qhe Qhe Che Che Che Che Che Che Che Che Che C	- - - - - - - - - - - - - - - - - - -	°C °C °C
eating / Average eating / Warmer eating / Colder cycling interval capacity or cooling or heating degradation coefficient cooling clectric power input in power more fremode tandby mode hermostat-off mode rankcase heater mode capacity control(indicate one of to fixed staged variable	Tbiv Tbiv Tbiv Pcycc Pcych Cdc des other than 'ac Poff Psb Pto(cooling) Pto(heating) Pck hree options) No No Yes Name and addre Mitsubishi Heavy	- °C - °C - °C - °C - %C - kW	heating / Warmer heating / Colder Cycling interval efficiency for cooling for heating Degradation coefficient heating Annual electricity consumption cooling heating / Average heating / Warmer heating / Colder Other items Sound power level(indoor) Sound power level(outdoor) Global warming potential Rated air flow(indoor) Rated air flow(outdoor) urer or of its authorised representative. ditioning Europe, Ltd.	Tol Tol EERcyc COPcyc Cdh Qce Qhe Qhe Qhe Che Che Che Che Che Che Che Che Che C	- - - - - - - - - - - - - - - - - - -	CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
eating / Average eating / Warmer eating / Colder Cycling interval capacity or cooling or heating Degradation coefficient cooling Electric power input in power mor ff mode tandby mode nermostat-off mode rankcase heater mode Capacity control(indicate one of t fixed staged variable Contact details for obtaining	Tbiv Tbiv Tbiv Pcycc Pcych Cdc des other than 'ac Poff Psb Pto(cooling) Pto(heating) Pck hree options) No No Yes Name and addre Mitsubishi Heavy	- °C - °C - °C - °C - %C - kW	heating / Warmer heating / Colder Cycling interval efficiency for cooling for heating Degradation coefficient heating Annual electricity consumption cooling heating / Average heating / Warmer heating / colder Other items Sound power level(indoor) Sound power level(outdoor) Global warming potential Rated air flow(indoor) Rated air flow(outdoor)	Tol Tol EERcyc COPcyc Cdh Qce Qhe Qhe Qhe Che Che Che Che Che Che Che Che Che C	- - - - - - - - - - - - - - - - - - -	CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC

Model FDT100VSXWPVH

Model FDT100VSXW Information to identify the model(n relates to:	If function includes heating: Indicate	e the heating se	eason the	
ndoor unit model name	FDT50VH (x2 uni		information relates to. Indicated val			
Outdoor unit model name	FDC100VSX-W		heating season at a time. Include at	least the heatir	ng season	'Averag
function(indicate if present)			Average(mandatory)	Yes		
ooling	Yes		Warmer(if designated)	No		
eating	Yes		Colder(if designated)	No		
om.	symbol value	unit	Item	symbol	value	class
em esign load	Syllibol Value	unit	Seasonal efficiency and energy effi		value	Class
ooling	Pdesignc 10.0	kW	cooling	SEER	8.24	A++
eating / Average	Pdesignh 11.2	kW	heating / Average	SCOP/A	4.24	A+
eating / Warmer	Pdesignh -	kW	heating / Warmer	SCOP/W	-	-
eating / Colder	Pdesignh -	kW	heating / Colder	SCOP/C	-	-
			100 1 0 0 0 1			unit
eclared capacity at outdoor tem eating / Average (-10°C)	Pdh 11.2	kW	Back up heating capacity at outdoon heating / Average (-10°C)	elbu	designn 0	kW
neating / Warmer (2°C)	Pdh -	-KW	heating / Warmer (2°C)	elbu	-	kW
eating / Colder (-22°C)	Pdh -	kW	heating / Colder (-22°C)	elbu		kW
icating / Colder (22 C)	1 411	IXVV	ricuting / Colder (22 C)	Ciba		1277
eclared capacity for cooling, at	ndoor temperature 27(19)°C and	Declared energy efficiency ratio, at	indoor tempera	ature 27(1	9)°C an
utdoor temperature Tj	·		outdoor temperature Tj	·		
_j=35°C	Pdc 10.00		Tj=35°C	EERd	4.35]-
_j=30°C	Pdc 7.30	kW	Tj=30°C	EERd	6.60	 -
j=25°C	Pdc 4.70	kW	Tj=25°C	EERd	11.30	
j=20°C	Pdc 3.20	kW	Tj=20°C	EERd	17.30	[-
Declared capacity for heating / A	verage season, at indeer		Declared coefficient of performance	a / Average see	eon at in	door
peciared capacity for neating / Average and outdoor te			temperature 20°C and outdoor tem		isuii, al in	uUUI
imperature 20 C and outdoor te i=-7°C	Pdh 9.91	kW	Tj=-7°C	COPd	2.80	7-
j=-7°C	Pdh 6.03	kW	Ti=2°C	COPd	3.80	1-
i=7°C	Pdh 3.88	kW	Ti=7°C	COPd	6.40	1-
;;	Pdh 2.83	kW	Tj=12°C	COPd	7.30	1-
rj=bivalent temperature	Pdh 11.20		Tj=bivalent temperature	COPd	2.30	1-
j=operating limit	Pdh 9.00	kW	Tj=operating limit	COPd	2.10	1-
·	•	•				
Declared capacity for heating / W			Declared coefficient of performance		son, at inc	door
emperature 20°C and outdoor te		– 1	temperature 20°C and outdoor tem			-
-j=2°C	Pdh -	kW	Tj=2°C	COPd	_	վ-
Γj=7°C	Pdh -	kW	Tj=7°C	COPd	-	վ-
[j=12°C	Pdh -	kW	Tj=12°C	COPd	-	վ-
[j=bivalent temperature	Pdh -	kW	Tj=bivalent temperature	COPd	-	- -
rj=operating limit	Pdh -	kW	Tj=operating limit	COPd	-	<u> -</u>
Declared capacity for heating / C	older season at indoor		Declared coefficient of performance	e / Colder seaso	n at indo	oor
emperature 20°C and outdoor te			temperature 20°C and outdoor tem		on, at mac	701
Γj=-7°C	Pdh -	kW	Tj=-7°C	COPd	-	7-
Γj=2°C	Pdh -	kW	Ti=2°C	COPd	-	1 ₋
Γj=7°C	Pdh -	kW	Ti=7°C	COPd	-	1_
, Γj=12°C	Pdh -	kW	Ti=12°C	COPd	-	1-
Γj=bivalent temperature	Pdh -	kW	Tj=bivalent temperature	COPd	-	1 ₋
rj=operating limit	Pdh -	kW	Tj=operating limit	COPd	-	1-
Γj=-15°C	Pdh -	kW	Tj=-15°C	COPd	-	7-
Bivalent temperature	This 10	∘_	Operating limit temperature	Tel		7∘∽
neating / Average neating / Warmer	Tbiv -10	°C	heating / Average	Tol	-20	°C
9	Tbiv -	ာိ င	heating / Warmer heating / Colder	Tol Tol	-	ာိ လ
eating / Colder	Tbiv -	l C	nicating / Colder	101		U
Cycling interval capacity			Cycling interval efficiency			
or cooling	Pcycc -	kW	for cooling	EERcyc	-	7-
or heating	Pcych -	kW	for heating	COPcyc	-	1-
<u> </u>						
Degradation coefficient			Degradation coefficient			
ooling	Cdc 0.25	-	heating	Cdh	0.25	-
Electric power input in power mo	des other than lastice man	10'	Annual electricity consumption			
	Poff 18	W	cooling	Qce	425	kWh/a
ntt mode	Psb 18	\dashv_{w}^{w}	heating / Average	Qhe	3700	kWh/a
		⊣ẅ́	heating / Warmer	Qhe	-	kWh/a
tandby mode	Pto(cooling) 20	I V V	1 1	Qhe		kWh/a
tandby mode	Pto(cooling) 20 Pto(heating) 56		heating / colder			1
standby mode hermostat-off mode	Pto(cooling) 20 Pto(heating) 56 Pck 5	₩ W	heating / colder	QIIC		
standby mode hermostat-off mode	Pto(heating) 56	W	heating / colder	QIIC		
standby mode hermostat-off mode srankcase heater mode	Pto(heating) 56 Pck 5	W	Other items	QIIC		_
standby mode hermostat-off mode crankcase heater mode	Pto(heating) 56 Pck 5	W	Other items Sound power level(indoor)	Lwa	55	
ntandby mode hermostat-off mode erankcase heater mode Capacity control(indicate one of t	Pto(heating) 56 Pck 5	W	Other items Sound power level(indoor) Sound power level(outdoor)	Lwa Lwa	67	dB(A)
standby mode hermostat-off mode crankcase heater mode	Pto(heating) F6 Pck 5	W	Other items Sound power level(indoor) Sound power level(outdoor) Global warming potential	Lwa	67 675	dB(A) kgCO ₂
off mode standby mode hermostat-off mode crankcase heater mode Capacity control(indicate one of t fixed staged	Pto(heating) F6 Pck 5	W	Other items Sound power level(indoor) Sound power level(outdoor)	Lwa Lwa	67 675 1320	dB(A) dB(A) kgCO ₂ m³/h
standby mode hermostat-off mode crankcase heater mode Capacity control(indicate one of t	Pto(heating) F6 Pck 5	W	Other items Sound power level(indoor) Sound power level(outdoor) Global warming potential	Lwa Lwa	67 675	dB(A) kgCO ₂
standby mode hermostat-off mode crankcase heater mode Capacity control(indicate one of t fixed staged	Pto(heating) Pck 5 hree options) No No Yes	w w	Other items Sound power level(indoor) Sound power level(outdoor) Global warming potential Rated air flow(indoor) Rated air flow(outdoor)	Lwa Lwa GWP -	67 675 1320	dB(A) kgCO ₂ m³/h
trandby mode hermostat-off mode trankcase heater mode Capacity control(indicate one of t fixed staged variable Contact details for obtaining	Pto(heating) Pto(heating) Pto No No Yes Name and address of the	W W	Other items Sound power level(indoor) Sound power level(outdoor) Global warming potential Rated air flow(indoor) Rated air flow(outdoor)	Lwa Lwa GWP -	67 675 1320	dB(A) kgCO ₂ m³/h
tandby mode nermostat-off mode rankcase heater mode Capacity control(indicate one of t fixed staged variable	Pto(heating) Pto(heating) F6 S S S S S S S S S S S S S S S S S S	W W	Other items Sound power level(indoor) Sound power level(outdoor) Global warming potential Rated air flow(indoor) Rated air flow(outdoor)	Lwa Lwa GWP - -	67 675 1320	dB(A) kgCO ₂ m³/h

Model FDT125VNXWVH

Model(s): FDC125VNX-W / I	FDT125VH						
Outdoor side heat exchanger of air condi	tioner:	air					
Indoor side heat exchanger of air condition	oner :	air					
Type: vapour compression							
if applicable : electric motor							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity				Seasonal space			
	Prated,c	12.5	kW	cooling energy	η s,c	302.5	%
				efficiency			
Declared cooling capacity for part load at	given outdoor	temperatu	res	Declared energy effi	iciency ratio or gas utilization efficie	ncy /	
Tj and indoor 27°C/19°C(dry/wet bulb)				auxiliary energy fact	or for part load at given outdoor tem	peratures ⁻	Тј
			1				1
Tj=+35°C	Pdc	12.5	kW	Tj=+35°C	EERd or	389.0	%
			1		GUEc,bin / AEFc,bin		
Tj=+30°C	Pdc	9.2	kW	Tj=+30°C	EERd or	570.0	%
77 05%	D.I.		1,,,,		GUEc,bin / AEFc,bin		
Tj=+25°C	Pdc	5.9	kW	Tj=+25°C	EERd or	950.0	%
T	5.		1		GUEc,bin / AEFc,bin		
Tj=+20°C	Pdc	3.4	kW	Tj=+20°C	EERd or	1320.0	%
			1		GUEc,bin / AEFc,bin]
Degradation		0.05					
coefficient for	Cdc	0.25	-				
air conditioners**]				
Power consumpiton in other than 'active	mode'						
Off mode	D	0.015	kW	Crankcase heater m	nada P	0.005	kW
Thermostat-off mode	P _{OFF} P _{TO}	0.015	1		node P_{CK}	0.005	•
Thermostat-on mode	r TO	0.025	kW	Standby mode	FSB	0.015	kW
Other items							
				For air-to-air air con	ditioner:]
Capacity control		variable	1	air flow-rate,outdoor		6000	m³/h
]	all flow-rate,outdoor	measureu		J
Sound power level,			1				
outdoor	L_{WA}	68.0	dB				
			1				
If engine driven:			mg/kWh				
Emissions of nitrogen	NOx ***	-	fuel input				
oxides			GCV				
			100.				
GWP of the			kg CO₂eq.				
refrigerant		675	(100years)				
			J				
Contact details Mitsubi	shi heavy indu	stries thern	nal systems,L	.TD			
** If Cdc is not determined by measurement					shall be 0,25.		
*** from 26 September 2018							
Where information relates to multi-spilt a	ir conditioners.	the test res	ult and perfo	rmance data be obtair	ned on the basis of the performance	:	
of the outdoor unit, with a combination of			•		•		
,	- (-)		3				

Information to identify the model(s) to which the	e information	relates ·							
	e iiiioiiiiatioii			FDC125VN	IX-W / FDT125VH				
Outdoor side heat exchanger of heat pump :		air							
Indoor side heat exchanger of heat pump :		air			d-				
Indication if the heater is equipped with a supp	lementary ne	ater:		r	No				
if applicable : electric motor									
Parameters shall be declared for the average	heating seaso	on , paramet	ers for the w	armer and o	colder heating seasons	are optional.			
Item	Symbol	Value	Unit		Item	Symbol	-	Value	Unit
Rated heating capacity					Seasonal space heating	ng energy efficiency ηs,h			
	Prated,h	14.0	kW					174.6	%
Declared heating capacity for part load at indo	or temperatur	e 20°C			Declared coefficient of	f performance or gas utilizati	ion efficien	cy /	
and outdoor temperature Tj					auxiliary energy factor	for part load at given outdo	or tempera	tures Tj	
			_				_		_
T _j =-7°C	Pdh	10.1	kW		T _j =-7°C	COPd or		303.0	%
			=			GUEh,bin / AEFh,bin		303.0	70
T _j =+2°C	Pdh	6.1	kW		T _i =+2°C	COPd or		442.0	0/
			•			GUEh,bin / AEFh,bin		413.0	%
T _j =+7°C	Pdh	4.0	kW		T _i =+7°C	COPd or	Ī		1
,			1		,	GUEh,bin / AEFh,bin		617.0	%
T _i =+12°C	Pdh	2.9	kW		T _i =+12°C	COPd or	ŀ		1
,			1		, 5			705.0	%
T. =hivalent temperature	Pdh	11.4	kW		T. =hivalent	GUEh,bin / AEFh,bin	}		1
T _{biv} =bivalent temperature	Full	11.4	7,744		T _{biv} =bivalent temperature	COPd or		230.0	%
	5	40.0	1			GUEh,bin / AEFh,bin			
T _{OL} =operation limit	Pdh	10.0	kW		T _{OL} =operation limit	COPd or		220.0	%
			1			GUEh,bin / AEFh,bin			
For air-to-water heat pumps :	Pdh	-	kW		For air-to-water heat	COPd or		-	%
T _j =-15°C					pumps:T _j =-15°C	GUEh,bin / AEFh,bin	L		
(if T _{OL} <-20°C)					(if T _{OL} <-20°C)				
			1				г		1
Bivalent temperature	T_biv	-10.0	°C		For water-to-air heat				
			-		pumps:Operation limit	t		-	°C
Degradation					T _{ol} temperature				
coefficient	C_{dh}	0.25	-						
heat pumps**									
			-						
Power consumpiton in modes other than 'activ	e mode'				Supplementary heater	r	elbu		kW
					back-up heating capa	city	Cibu	-	KVV
Off mode	P _{OFF}	0.015	kW				_		_
Thermostat-off mode	P _{TO}	0.045	kW		Type of energy input		_ [] <i></i>
Crankcase heater mode	P _{CK}	0.005	kW		Standby mode		P _{SB}	0.015	kW
			1		Otdilaby mode		L		
Other items				1					
					For air-to-air heat pun	nos:	Г]
Capacity control		variable	1		air flow-rate,outdoor n			6000	m³/h
Capacity Control			1		all now-rate,outdoor n	ileasureu	L		1
Sound power level			1		For water-/bring to gir	heat numps :	Г		Ī
Sound power level,	L_{WA}	70.0	dB		For water-/brine-to-air			_	m³/h
outdoor measured		L	j		Rated brine or water f				
			1		outdoor side heat excl	nanger	L		j
Emissions of nitrogen	NOx		mg/kWh						
oxides(if applicable)	***	-	fuel input						
			GCV						
				-	-				
CVAID of the			1,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		1				
GWP of the		675	kg CO ₂ eq. (100years)						
refrigerant			I (100years)						
					1				
				<u> </u>	<u> </u>				
	heavy indust				pore shall be 0.05				
** If Cdh is not determined by measurement the	en me aetault	uegradatio	ii coemicient	all CONDITION	iers snail de 0,25.				
*** from 26 September 2018									
Where information relates to multi-spilt air con	ditioners,the	test result ar	nd performar	nce data be	obtained on the basis of	of the performance			
of the outdoor unit, with a combination of indoo	or unit(s) reco	mmended by	y the manufa	acturer or im	porter.				
İ									

Model FDT125VSXWVH

Model(s): FDC125VSX-W / I	FDT125VH						
Outdoor side heat exchanger of air condi		air					
Indoor side heat exchanger of air condition	oner:	air					
Type: vapour compression							
if applicable : electric motor							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity				Seasonal space			
	Prated,c	12.5	kW	cooling energy	η s,c	302.5	%
				efficiency			
Declared cooling capacity for part load at	t given outdoor	temperatu	res	Declared energy effi	ciency ratio or gas utilization efficien	ncy /	
Tj and indoor 27°C/19°C(dry/wet bulb)				auxiliary energy factor	or for part load at given outdoor tem	nperatures	Tj
T: 0.5%5	D.I.	40.5	1,,,,				1
Tj=+35°C	Pdc	12.5	kW	Tj=+35°C	EERd or	389.0	%
T:- 120°C	Pdc	9.2	kW	_	GUEc,bin / AEFc,bin		
Tj=+30°C	Puc	9.2	IKVV	Tj=+30°C	EERd or	570.0	%
Tj=+25°C	Pdc	5.9	kW	T: .0500	GUEc,bin / AEFc,bin		-
17-123 0	1 40	0.5],,,,	Tj=+25°C	EERd or	950.0	%
Tj=+20°C	Pdc	3.4	kW	T:- : 20°0	GUEc,bin / AEFc,bin		-
1, 1200	1 40	0.4]	Tj=+20°C	EERd or	1320.0	%
Degradation			1		GUEc,bin / AEFc,bin		1
coefficient for	Cdc	0.25	_				
air conditioners**	Ouc						
			J				
Power consumpiton in other than 'active	mode'						
Off mode	P_{OFF}	0.015	kW	Crankcase heater m	ode P _{CK}	0.005	kW
Thermostat-off mode	P_{TO}	0.025	kW	Standby mode	P_{SB}	0.015	kW
Other items							7
			,	For air-to-air air cond	ditioner:	6000	m³/h
Capacity control		variable]	air flow-rate,outdoor	measured]
			,				
Sound power level,	L_{WA}	68.0	dB				
outdoor]				
			,				
If engine driven:	NOx		mg/kWh				
Emissions of nitrogen	***	-	fuel input				
oxides			GCV				
GWP of the]ka CO oa				
		675	kg CO₂eq. (100years)				
refrigerant], , ,				
Contact details Mitsubi	ishi heavy indu	stries therm	nal systems I	TD			
** If Cdc is not determined by measurem					hall be 0,25.		
*** from 26 September 2018		5 ·					
Where information relates to multi-spilt a	ir conditioners	the test res	sult and nerfo	rmance data he obtair	ned on the basis of the performance	<u> </u>	
of the outdoor unit, with a combination of			-		·	-	
	2. 2(3)	322					

Information to identify the model(s) to which the	e information	relates ·							
	e illioithation			FDC125VS	X-W / FDT125VH				
Outdoor side heat exchanger of heat pump :		air							
Indoor side heat exchanger of heat pump :		air			1-				
Indication if the heater is equipped with a supp	lementary he	ater :		r	10				
if applicable : electric motor									
Parameters shall be declared for the average h	neating seaso	on , paramete	ers for the w	armer and o	older heating seasons	are optional.			
Item	Symbol	Value	Unit	ı	Item	Symbol	-	Value	Unit
Rated heating capacity					Seasonal space heating	ng energy efficiency ηs,h			
	Prated,h	14.0	kW					167.5	%
Declared heating capacity for part load at indo	or temperatur	e 20°C			Declared coefficient of	f performance or gas utilizat	ion efficien	cy /	
and outdoor temperature Tj					auxiliary energy factor	for part load at given outdo	or tempera	tures Tj	
			_				_		_
T _j =-7°C	Pdh	12.4	kW		T _j =-7°C	COPd or		279.0	%
			_			GUEh,bin / AEFh,bin		273.0	70
T _j =+2°C	Pdh	7.5	kW		T _i =+2°C	COPd or		405.0	0/
			•			GUEh,bin / AEFh,bin		405.0	%
T _j =+7°C	Pdh	4.9	kW		T _i =+7°C	COPd or			
,					,	GUEh,bin / AEFh,bin		571.0	%
T _i =+12°C	Pdh	2.9	kW		T _i =+12°C	COPd or			
Ĺ					,	GUEh,bin / AEFh,bin		705.0	%
T _{biv} =bivalent temperature	Pdh	14.0	kW		T _{biv} =bivalent	COPd or			1
	-		J		temperature	GUEh,bin / AEFh,bin		220.0	%
T _{OL} =operation limit	Pdh	10.9	kW		T _{OL} =operation limit	COPd or	-		
Tot operation mine			1		TOE SPORGEOT IIII			210.0	%
For six to water heat sures.	Dale]		Fan air ta watan baat	GUEh,bin / AEFh,bin	-		•
For air-to-water heat pumps : T _i =-15°C	Pdh		kW		For air-to-water heat pumps:T _i =-15°C	COPd or GUEh,bin / AEFh,bin		-	%
l '						GOEII,DIII / AEFII,DIII	L		J
(if T _{OL} <-20°C)					(if T _{OL} <-20°C)				
Diselect to see a set of	-	-10.0] ₀₀		For water to air best		Г		1
Bivalent temperature	T _{biv}	-10.0	°C		For water-to-air heat				°C
Daniel della co			1		pumps:Operation limit			•	
Degradation		0.25			T _{ol} temperature		L		
coefficient	C_{dh}	0.25	-						
heat pumps**]						
							Г		1
Power consumpiton in modes other than 'active	e mode'				Supplementary heater		elbu	-	kW
Off mode	В	0.015	kW		back-up heating capac	city	L]
	P _{OFF}						Г		1
Thermostat-off mode	P _{TO}	0.045	kW		Type of energy input		P_{SB}	0.015	kW
Crankcase heater mode	P _{CK}	0.005	kW		Standby mode		L		
Other items							Г		1
		i.ab.la	1		For air-to-air heat pum			6000	m³/h
Capacity control		variable			air flow-rate,outdoor n	neasured	L		
			1				Г		1
Sound power level,	L_WA	70.0	dB		For water-/brine-to-air	•			m³/h
outdoor measured					Rated brine or water f			-	111-711
			1		outdoor side heat exch	hanger			J
Emissions of nitrogen	NOx		mg/kWh						
oxides(if applicable)	***	-	fuel input						
			GCV						
				-					
CWD of the] cc						
GWP of the		675	kg CO ₂ eq. (100years)						
refrigerant			(100 years)						
L					<u> </u>				
Contact details Mitsubishi ** If Cdh is not determined by measurement the	heavy indust				nere shall be 0.25				
	on me detaul	. uegradali0i	i coemicient	an condition	1013 311411 DE U,Z3.				
*** from 26 September 2018									
Where information relates to multi-spilt air con-						f the performance			
of the outdoor unit, with a combination of indoo	r unit(s) reco	mmended by	y the manufa	acturer or im	porter.				

Model FDT140VNXWVH

Model(s): FDC140VN	IX-W / FDT140VH						
Outdoor side heat exchanger of a	ir conditioner :	air					
Indoor side heat exchanger of air	conditioner :	air					
Type: vapour compression							
if applicable : electric mo	tor						
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	Prated,c	14.0	kW	Seasonal space cooling energy	η s,c	285.1	%
				efficiency	·		
Declared cooling capacity for part	load at given outdoor	temperatu	ires	Declared energy	efficiency ratio or gas utilization	efficiency /	
Tj and indoor 27°C/19°C(dry/wet b	oulb)			auxiliary energy	factor for part load at given outdo	or temperatures	Гј
Tj=+35°C	Pdc	14.0	kW	Tj=+35°C	EERd or	362.0	%
Tj=+30°C	Pdc	10.3	kW	Tj=+30°C	GUEc,bin / AEFc,bin EERd or		
			- -	1,1 100 0	GUEc,bin / AEFc,bin	550.0	%
Tj=+25°C	Pdc	6.6	kW	Tj=+25°C	EERd or GUEc,bin / AEFc,bin	830.0	%
Tj=+20°C	Pdc	3.4	kW	Tj=+20°C	EERd or	1320.0	%
			, l		GUEc,bin / AEFc,bin		
Degradation		0.25					
coefficient for	Cdc	0.23	-				
air conditioners**							
Power consumpiton in other than Off mode	'active mode'	0.015	kW	Crankcase heate	er mode P _{CK}	0.005	kW
Thermostat-off mode	P_{TO}	0.025	kW	Standby mode	P_SB	0.015	kW
Other items						<u> </u>	İ
Capacity control		variable]	For air-to-air air o		6000	m³/h
Sound power level,	L_{WA}	69.0	dB				
outdoor	-wa						
If engine driven:	NOx		mg/kWh				
Emissions of nitrogen	***	-	fuel input				
oxides			GCV				
			7				
GWP of the		675	kg CO ₂ eq. (100years)				
refrigerant](.00)00.0)				
Contact details	Mitsubishi heavy indu	etrice therr	nal evetome l	I TD			
** If Cdc is not determined by mea					ers shall be 0,25.		
*** from 26 September 2018							
Where information relates to mult	i-snilt air conditioners	the test res	sult and nerfo	rmance data he ob	ntained on the basis of the perfor	mance	
of the outdoor unit, with a combin	-		•		•		
The state of the s							

Information to identify the model(s) to which the	e information	relates :		FDC140VN	IX-W / FDT140VH			
Outdoor side heat exchanger of heat pump :		air						
Indoor side heat exchanger of heat pump :		air						
Indication if the heater is equipped with a supp	lementary he			1	lo			
if applicable : electric motor	iornomary no							
Parameters shall be declared for the average h	neating seaso	n naramete	re for the w	armer and c	older heating seasons	are ontional		
				arriici ariu c				
Item	Symbol	Value	Unit	1	Item	Symbol	Value	Unit
Rated heating capacity	Dunto d h	40.0	1.447		Seasonal space heatir	ng energy efficiency ηs,h	470.0	0/
	Prated,h	16.0	kW				170.9	%
Declared heating capacity for part load at indo	or temperatur	e 20°C			Declared coefficient of	f performance or gas utilization efficie	ncy /	
and outdoor temperature Tj					auxiliary energy factor	for part load at given outdoor temper	atures Tj	
								,
T _j =-7°C	Pdh	11.5	kW		T _j =-7°C	COPd or	291.0	%
						GUEh,bin / AEFh,bin		
T _j =+2°C	Pdh	7.0	kW		T _j =+2°C	COPd or	409.0	%
						GUEh,bin / AEFh,bin		
T _j =+7°C	Pdh	4.5	kW		T _j =+7°C	COPd or	589.0	%
						GUEh,bin / AEFh,bin		,,,
T _j =+12°C	Pdh	2.9	kW		T _j =+12°C	COPd or	705.0	%
						GUEh,bin / AEFh,bin	700.0	,,,
T _{biv} =bivalent temperature	Pdh	13.0	kW		T _{biv} =bivalent	COPd or	230.0	%
					temperature	GUEh,bin / AEFh,bin	230.0	70
T _{OL} =operation limit	Pdh	10.9	kW		T _{OL} =operation limit	COPd or		.,
						GUEh,bin / AEFh,bin	220.0	%
For air-to-water heat pumps :	Pdh	-	kW		For air-to-water heat	COPd or		
T _j =-15°C					pumps:T _j =-15°C	GUEh,bin / AEFh,bin	-	%
(if T _{OL} <-20°C)					(if T _{OL} <-20°C)			1
(ii · OL (25 0)					(ii 10L (20 0)			
Bivalent temperature	T _{biv}	-10.0	°C		For water-to-air heat			1
Divalent temperature	¹ biv	.0.0	O		pumps:Operation limit		_	°C
Degradation					T _{ol} temperature			
coefficient	0	0.25			1 of temperature			J
	C_{dh}	0.20	-					
heat pumps**								
				-				
								1
Power consumpiton in modes other than 'active	e mode'				Supplementary heater	eibu	-	kW
Off made	Б	0.045			back-up heating capac	city		l
Off mode	P _{OFF}		kW					1
Thermostat-off mode	P _{TO}	-	kW		Type of energy input	P_{SB}	0.015	kW
Crankcase heater mode	P _{CK}	0.005	kW		Standby mode]
				1				
Other items								1
					For air-to-air heat pum	nps:	6000	m³/h
Capacity control		variable			air flow-rate,outdoor m	neasured		
								,
Sound power level,	L_{WA}	71.0	dB		For water-/brine-to-air	heat pumps :		
outdoor measured					Rated brine or water fi	iow-rate,	-	m³/h
					outdoor side heat exch	nanger		
Emissions of nitrogen	NOv		mg/kWh					
oxides(if applicable)	NOx ***	- 1	fuel input					
			GCV					
GWP of the		675	kg CO ₂ eq.					
refrigerant		070	(100years)					
Contact details Mitsubishi	heavy indust	ries thermal s	systems,LT	D				
** If Cdh is not determined by measurement the					ners shall be 0,25.			_
*** from 26 September 2018								
Where information relates to multi-spilt air con-	ditioners,the	test result and	d performar	nce data be	obtained on the basis o	of the performance		
of the outdoor unit, with a combination of indoo						•		
	.,				-			

Model FDT140VSXWVH

Model(s): FDC140VSX-V	V / FDT140VH						
Outdoor side heat exchanger of air co		air					
Indoor side heat exchanger of air con	ditioner :	air					
Type: vapour compression							
if applicable : electric motor							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity				Seasonal space			
	Prated,c	14.0	kW	cooling energy	η s,c	285.1	%
				efficiency			
Declared cooling capacity for part load	d at given outdoor	temperatu	res	Declared energy	efficiency ratio or gas utilization	efficiency /	
Tj and indoor 27°C/19°C(dry/wet bulb)				auxiliary energy	factor for part load at given outdo	or temperatures	Tj
T: .05°0	Dda	44.0	1,,,,				1
Tj=+35°C	Pdc	14.0	kW	Tj=+35°C	EERd or	362.0	%
Tj=+30°C	Pdc	10.3	kW		GUEc,bin / AEFc,bin		-
1]-+30 C	Fuc	10.3]^vv	Tj=+30°C	EERd or	550.0	%
Tj=+25°C	Pdc	6.6	kW	T: .05°0	GUEc,bin / AEFc,bin		-
1]23 0	1 40	0.0]	Tj=+25°C	EERd or	830.0	%
Tj=+20°C	Pdc	3.4	kW	Tj=+20°C	GUEc,bin / AEFc,bin EERd or		1
,]	1]-+20 C	GUEc,bin / AEFc,bin	1320.0	%
Degradation			1		GOEC, DIII / AEFC, DIII		1
coefficient for	Cdc	0.25	_				
air conditioners**							
	!		1				
Power consumpiton in other than 'acti	ve mode'						
Off mode	P_{OFF}	0.015	kW	Crankcase heate	er mode P _{CK}	0.005	kW
Thermostat-off mode	P _{TO}	0.025	kW	Standby mode	P_SB	0.015	kW
Other items							1
			,	For air-to-air air	conditioner:	6000	m³/h
Capacity control		variable]	air flow-rate,outo	door measured]
			1				
Sound power level,	L_WA	69.0	dB				
outdoor]				
			1 "				
If engine driven:	NOx	_	mg/kWh				
Emissions of nitrogen oxides	***		fuel input GCV				
oxides			IGCA				
GWP of the			kg CO₂eq.				
refrigerant		675	(100years)				
	<u>'</u>		1				
Contact details Mits	subishi heavy indus	stries thern	nal systems,L	.TD			
** If Cdc is not determined by measur	ement then the de	fault degra	dation coeffic	cient air conditione	ers shall be 0,25.		
*** from 26 September 2018							
Where information relates to multi-spi	It air conditioners,	the test res	ult and perfo	rmance data be ob	otained on the basis of the perform	mance	
of the outdoor unit, with a combination	n of indoor unit(s) i	recommen	ded by the m	anufacturer or imp	orter.		

Information to identify the model(s) to which the	e information	relates :		FDC140VS	X-W / FDT140VH			
Outdoor side heat exchanger of heat pump :		air		. 50. 1010				
Indoor side heat exchanger of heat pump :		air						
Indication if the heater is equipped with a supp	lementary he			1	lo			
if applicable : electric motor	iornomary no	u.o						
Parameters shall be declared for the average I	neating seaso	n naramete	are for the w	armer and c	older heating seasons	are ontional		
				arricr and c				
Item	Symbol	Value	Unit	1	Item	Symbol	Value	Unit
Rated heating capacity	Dunto d h	40.0	LAA		Seasonal space heatir	ng energy efficiency ηs,h	400.5	0/
	Prated,h	16.0	kW				162.5	%
Declared heating capacity for part load at indo	or temperatur	e 20°C			Declared coefficient of	f performance or gas utilization efficie	ncy /	
and outdoor temperature Tj					auxiliary energy factor	for part load at given outdoor temper	atures Tj	
			ı					,
T _j =-7°C	Pdh	13.7	kW		T _j =-7°C	COPd or	256.0	%
			1			GUEh,bin / AEFh,bin		
T _j =+2°C	Pdh	8.4	kW		T _j =+2°C	COPd or	398.0	%
						GUEh,bin / AEFh,bin		
T _j =+7°C	Pdh	5.4	kW		T _j =+7°C	COPd or	556.0	%
			-			GUEh,bin / AEFh,bin		,,,
T _j =+12°C	Pdh	2.9	kW		T _j =+12°C	COPd or	705.0	%
						GUEh,bin / AEFh,bin	703.0	70
T _{biv} =bivalent temperature	Pdh	15.5	kW		T _{biv} =bivalent	COPd or	210.0	%
					temperature	GUEh,bin / AEFh,bin	210.0	70
T _{OL} =operation limit	Pdh	11.9	kW		T _{OL} =operation limit	COPd or		.,
						GUEh,bin / AEFh,bin	200.0	%
For air-to-water heat pumps :	Pdh	-	kW		For air-to-water heat	COPd or		
T _j =-15°C					pumps:T _j =-15°C	GUEh,bin / AEFh,bin	-	%
(if T _{OL} <-20°C)					(if T _{OL} <-20°C)			1
(ii lot 25 5)					(ii 10L (20 0)			
Bivalent temperature	T _{biv}	-10.0	°C		For water-to-air heat			1
Divalent temperature	¹ biv		ľ		pumps:Operation limit		_	°C
Degradation					T _{ol} temperature			
coefficient	0	0.25			1 of temperature			J
	C_{dh}	0.20	-					
heat pumps**								
				-				
								1
Power consumpiton in modes other than 'active	e mode'				Supplementary heater	elbu	-	kW
			1		back-up heating capac	city]
Off mode	P _{OFF}		kW					1
Thermostat-off mode	P _{TO}		kW		Type of energy input	P_{SB}	0.015	kW
Crankcase heater mode	P _{CK}	0.005	kW		Standby mode			
Other items								,
					For air-to-air heat pum	nps:	6000	m³/h
Capacity control		variable			air flow-rate,outdoor m	neasured		
			1					,
Sound power level,	L_{WA}	71.0	dB		For water-/brine-to-air	heat pumps :		
outdoor measured	-WA				Rated brine or water fi	iow-rate,	-	m³/h
			-		outdoor side heat exch	hanger		
Emissions of nitrogen			mg/kWh					
oxides(if applicable)	NOx ***	-	fuel input					
			GCV					
		,	•'					
		-						
GWP of the		675	kg CO₂eq.					
refrigerant		0/3	(100years)					
			-					
Contact details Mitsubishi	heavy indust	ries thermal	systems,LT	D	-			
** If Cdh is not determined by measurement th					ners shall be 0,25.			
*** from 26 September 2018								
Where information relates to multi-spilt air con	ditioners the	test result an	id performa	nce data he	obtained on the basis o	of the performance		
of the outdoor unit, with a combination of indoor						b		
,, 2 I I I I I I I I I I I I I I I I	,			2. 3	•			

Model FDT125VNXWPVH

Model(s): FDC125VN	X-W / FDT60VH (x2 ι	ınits)					
Outdoor side heat exchanger of ai	r conditioner :	air					
Indoor side heat exchanger of air of	conditioner :	air					
Type: vapour compression							
if applicable : electric mot	or						
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity				Seasonal space			
	Prated,c	12.5	kW	cooling energy	η s,c	404.1	%
				efficiency			
Declared cooling capacity for part	_	temperatu	ires		y efficiency ratio or gas utilization	-	. .
Tj and indoor 27°C/19°C(dry/wet b	(מוג			auxiliary energy	factor for part load at given outdo	oor temperatures	IJ
Tj=+35°C	Pdc	12.5	kW	T:- : 25°0	550.		1
1]=.000	. 40	12.0],,,,	Tj=+35°C	EERd or	440.0	%
Tj=+30°C	Pdc	9.2	kW	Ti- 120°C	GUEc,bin / AEFc,bin		
.,	. 40]	Tj=+30°C	EERd or	720.0	%
Tj=+25°C	Pdc	5.9	kW	Tj=+25°C	GUEc,bin / AEFc,bin EERd or		
,			_	1]=+25 C	GUEc,bin / AEFc,bin	1210.0	%
Tj=+20°C	Pdc	3.7	kW	Tj=+20°C	EERd or		
				1]=+20 C	GUEc,bin / AEFc,bin	2350.0	%
Degradation]		GOEC, DITT ALT C, DIT		1
coefficient for	Cdc	0.25	_				
air conditioners**	Odo						
all conditioners			_				
Power consumpiton in other than '	active mode'						
	20110 111040						
Off mode	P _{OFF}	0.015	kW	Crankcase heat	er mode P _{CK}	0.005	kW
Thermostat-off mode	P _{TO}	0.000	kW	Standby mode	P _{SB}	0.015	kW
		l	_				
Other items							
				For air-to-air air	conditioner:	6000	m3/h
Capacity control		variable		air flow-rate,out	door measured	8000	m³/h
			_				-
Sound power level,	1	68.0	dB				
outdoor	L_{WA}	00.0	ub				
			_				
If engine driven:			mg/kWh				
Emissions of nitrogen	NOx ***	-	fuel input				
oxides			GCV				
			_				
GWP of the		675	kg CO₂eq.				
refrigerant			(100years)				
	Mitsubishi heavy indu						
** If Cdc is not determined by mea	surement then the de	fault degra	adation coeffic	cient air condition	ers shall be 0,25.		
*** from 26 September 2018							
Where information relates to multi-	-spilt air conditioners,	the test res	sult and perfo	rmance data be o	btained on the basis of the perfor	mance	
of the outdoor unit, with a combina	tion of indoor unit(s)	recommen	ded by the ma	anufacturer or imp	porter.		

Information to identify the model(s) to which the	e information	relates :		FDC125VN	IX-W / FDT60VH (x2 ur	nits)		
Outdoor side heat exchanger of heat pump :		air		10012011				
Indoor side heat exchanger of heat pump :		air						
Indication if the heater is equipped with a supp	lementary he			N	lo			
if applicable : electric motor	iomontary no							
Parameters shall be declared for the average I	neating seaso	n narameter	e for the w	armer and o	older heating seasons	are ontional		
				anner and c		•		
Item	Symbol	Value U	Jnit		Item	Symbol	Value	Unit
Rated heating capacity	Prated,h	14.0	kW		Seasonal space heatir	ng energy efficiency ηs,h	201.0	%
	rialeu,ii	14.0	KVV				201.0	70
Declared heating capacity for part load at indo	or temperatu	re 20°C			Declared coefficient of	f performance or gas utilization efficie	ency /	
and outdoor temperature Tj					auxiliary energy factor	for part load at given outdoor temper	ratures Tj	
								1
T _j =-7°C	Pdh	10.1 k	W		T _j =-7°C	COPd or	310.0	%
						GUEh,bin / AEFh,bin		
T _j =+2°C	Pdh	6.1 k	W		T _j =+2°C	COPd or	480.0	%
						GUEh,bin / AEFh,bin	400.0	,,,
T _j =+7°C	Pdh	4.0 k	w		T _i =+7°C	COPd or	740.0	0/
						GUEh,bin / AEFh,bin	740.0	%
T _i =+12°C	Pdh	2.9 k	w		T _i =+12°C	COPd or		l.,
					,	GUEh,bin / AEFh,bin	910.0	%
T _{biv} =bivalent temperature	Pdh	11.4 k	w		T _{biv} =bivalent	COPd or		
This braient temperature	i uii	· · · · · · · · · · · · · · · · · · ·	·vv		temperature		230.0	%
T an analism Health	D.III	10.0 k				GUEh,bin / AEFh,bin		
T _{OL} =operation limit	Pdh	10.0 K	W		T _{OL} =operation limit	COPd or	220.0	%
						GUEh,bin / AEFh,bin		
For air-to-water heat pumps :	Pdh	- k	W		For air-to-water heat	COPd or	-	%
T _j =-15°C					pumps:T _j =-15°C	GUEh,bin / AEFh,bin		
(if T _{OL} <-20°C)					(if T _{OL} <-20°C)			
								,
Bivalent temperature	T _{biv}	-10.0 °(С		For water-to-air heat			
					pumps:Operation limit		-	°C
Degradation					T _{ol} temperature			
coefficient	C_{dh}	0.25						1
heat pumps**								
Power consumpiton in modes other than 'active	n modo!				Supplementary heater]
Power consumption in modes other than active	inoue					eibu	-	kW
Off mode	P _{OFF}	0.015 k	w		back-up heating capac	city]
Thermostat-off mode	P _{TO}		W					1
Crankcase heater mode			W		Type of energy input	P_{SB}	0.015	kW
Grankease neater mode	P _{CK}	0.003 K	·vv		Standby mode			J
Other items								1
					For air-to-air heat pum	nps:	6000	m³/h
Capacity control		variable			air flow-rate,outdoor m	neasured		
Sound power level,	L_{WA}	70.0 d	IB		For water-/brine-to-air	heat pumps :		
outdoor measured	-WA		_		Rated brine or water fi	iow-rate,	-	m³/h
					outdoor side heat exch	nanger		
Emissions of nitrogen		m	ng/kWh					-
oxides(if applicable)	NOx ***		uel input					
			SCV .					
				1				
GWP of the		k	g CO₂eq.					
		1 6/5 1	100years)					
refrigerant		\`	/					
					!			
		ries thermal sy			nore shall be 0.05			
** If Cdh is not determined by measurement th	en me detaul	ı u c yrauation (Loenicient :	an condition	icis siiaii De U,25.			
*** from 26 September 2018								
Where information relates to multi-spilt air con	ditioners,the	test result and	performan	nce data be	obtained on the basis o	f the performance		
of the outdoor unit, with a combination of indoo	r unit(s) reco	mmended by t	the manufa	acturer or im	porter.			

Model FDT125VSXWPVH

Model(s): FDC125VSX-W	/ FDT60VH (x2 u	ınits)					
Outdoor side heat exchanger of air cor	ditioner:	air					
Indoor side heat exchanger of air cond	itioner:	air					
Type: vapour compression							
if applicable : electric motor							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity				Seasonal space			
	Prated,c	12.5	kW	cooling energy	η s,c	404.1	%
				efficiency			
Declared cooling capacity for part load	at given outdoor	temperatu	res	Declared energy	efficiency ratio or gas utilization effici	iency /	
Tj and indoor 27°C/19°C(dry/wet bulb)				auxiliary energy fa	actor for part load at given outdoor te	emperatures	Tj
T: . 05°0	Dda	40.5	1,,,,				1
Tj=+35°C	Pdc	12.5	kW	Tj=+35°C	EERd or	440.0	%
Tj=+30°C	Pdc	9.2	kW		GUEc,bin / AEFc,bin		
1]_+30 C	Fuc	9.2]^vv	Tj=+30°C	EERd or	720.0	%
Tj=+25°C	Pdc	5.9	kW	T: .05%	GUEc,bin / AEFc,bin		
1]25 0	1 40	0.0]	Tj=+25°C	EERd or	1210.0	%
Tj=+20°C	Pdc	3.7	kW	Tj=+20°C	GUEc,bin / AEFc,bin EERd or		1
,]	1j=+20 C	GUEc,bin / AEFc,bin	2350.0	%
Degradation			1		GOEC, DIII / AEFC, DIII		
coefficient for	Cdc	0.25	_				
air conditioners**							
			1				
Power consumpiton in other than 'activ	e mode'						
						_	
Off mode	P_{OFF}	0.015	kW	Crankcase heate	r mode P _{CK}	0.005	kW
Thermostat-off mode	P_{TO}	0.000	kW	Standby mode	P_SB	0.015	kW
Other items							7
			,	For air-to-air air c	onditioner:	6000	m³/h
Capacity control		variable]	air flow-rate,outdo	oor measured		
			1				
Sound power level,	L_WA	68.0	dB				
outdoor]				
			1 "				
If engine driven:	NOx	_	mg/kWh fuel input				
Emissions of nitrogen oxides	***		GCV				
Oxides	ļ		1904				
GWP of the			kg CO₂eq.				
refrigerant		675	(100years)				
			1				
Contact details Mitsu	bishi heavy indus	stries thern	nal systems,L	.TD			
** If Cdc is not determined by measure	ment then the de	fault degra	dation coeffic	cient air conditioner	s shall be 0,25.		
*** from 26 September 2018							
Where information relates to multi-spilt	air conditioners,	the test res	ult and perfo	rmance data be ob	tained on the basis of the performan	ce	
of the outdoor unit, with a combination	of indoor unit(s)	recommend	ded by the m	anufacturer or impo	orter.		

Information to identify the model(s) to which	the information r	relates :	FDC125VSX-W / FDT60VH (x2 units)	
Outdoor side heat exchanger of heat pump	:	air		
Indoor side heat exchanger of heat pump :		air		
Indication if the heater is equipped with a su	upplementary hea	iter:	No	
if applicable : electric motor				
Parameters shall be declared for the average	ge heating seasor	n , parameters for the w	varmer and colder heating seasons are optional.	
Item	Symbol	Value Unit	Item Symbol \	/alue Unit
Rated heating capacity			Seasonal space heating energy efficiency ηs,h	
	Prated,h	14.0 kW		93.9 %
Declared heating capacity for part load at ir and outdoor temperature Tj	ndoor temperature	e 20°C	Declared coefficient of performance or gas utilization efficiency auxiliary energy factor for part load at given outdoor temperature	
T _j =-7°C	Pdh	12.4 kW		10.0 %
T _j =+2°C	Pdh	7.5 kW		60.0 %
T _j =+7°C	Pdh	4.9 kW		90.0 %
T _j =+12°C	Pdh	2.9 kW		10.0 %
T _{blv} =bivalent temperature	Pdh	14.0 kW	I Itemnerature	20.0 %
T _{OL} =operation limit	Pdh	10.9 kW	GUEh,bin / AEFh,bin T _{OL} =operation limit COPd or GUEh,bin / AEFh,bin	110.0 %
For air-to-water heat pumps : Tj=-15°C	Pdh	- kW	For air-to-water heat COPd or pumps:T _j =-15°C GUEh,bin / AEFh,bin	- %
(if T _{OL} <-20°C) Bivalent temperature	T _{biv}	-10.0 °C	(if T _{OL} <-20°C) For water-to-air heat	
Degradation	' biv		pumps:Operation limit T _{ol} temperature	- ℃
coefficient	C _{dh}	0.25		
heat pumps** Power consumpiton in modes other than 'ac	ctive mode'		Supplementary heater elbu	- kW
Off mode	P_{OFF}	0.015 kW	back-up heating capacity	
Thermostat-off mode	P _{TO}	0.020 kW	Tune of securities of	
Crankcase heater mode	P _{CK}	0.005 kW	Type of energy input P _{SB}	0.015 kW
Other items			For air-to-air heat pumps:	
Capacity control	[variable	air flow-rate,outdoor measured	6000 m³/h
Sound power level, outdoor measured	L _{WA}	70.0 dB	For water-/brine-to-air heat pumps : Rated brine or water flow-rate, outdoor side heat exchanger	- m³/h
Emissions of nitrogen oxides(if applicable)	NOx ***	mg/kWh fuel input GCV		
GWP of the refrigerant		675 kg CO ₂ eq. (100years)		
		ies thermal systems,LT		
** If Cdh is not determined by measuremen *** from 26 September 2018 Where information relates to multi-spilt air of of the outdoor unit, with a combination of incention of the control of the contro	conditioners,the te	est result and performa	nce data be obtained on the basis of the performance	

Model FDT140VNXWPVH

Model(s): FDC140VNX-W	/ FDT71VH (x2 u	ınits)					
Outdoor side heat exchanger of air cor	nditioner :	air					
Indoor side heat exchanger of air cond	litioner :	air					
Type: vapour compression							
if applicable : electric motor							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity				Seasonal space			
	Prated,c	14.0	kW	cooling energy	η s,c	375.1	%
				efficiency			
Declared cooling capacity for part load	at given outdoor	temperatu	res	Declared energy	efficiency ratio or gas utilization e	fficiency /	
Tj and indoor 27°C/19°C(dry/wet bulb)				auxiliary energy f	factor for part load at given outdoo	or temperatures	Tj
77 0.505	D.I.	44.0	1,,,,				1
Tj=+35°C	Pdc	14.0	kW	Tj=+35℃	EERd or	430.0	%
Tj=+30°C	Pdc	10.3	kW	_	GUEc,bin / AEFc,bin		_
1]_+30 C	Fuc	10.3]ĸvv	Tj=+30°C	EERd or	660.0	%
Tj=+25°C	Pdc	6.6	kW	T: .05%	GUEc,bin / AEFc,bin		-
1, 1200]	Tj=+25℃	EERd or	990.0	%
Tj=+20°C	Pdc	3.9	kW	Tj=+20°C	GUEc,bin / AEFc,bin EERd or		1
,]	1j=+20 C	GUEc,bin / AEFc,bin	2680.0	%
Degradation			1		GOEC, DIII / AEFC, DIII		1
coefficient for	Cdc	0.25	_				
air conditioners**							
	'		J				
Power consumpiton in other than 'activ	ve mode'						
·							
Off mode	P_{OFF}	0.015	kW	Crankcase heate	er mode P _{CK}	0.005	kW
Thermostat-off mode	P _{TO}	0.000	kW	Standby mode	P_SB	0.015	kW
Other items							1
	i		1	For air-to-air air o	conditioner:	6000	m³/h
Capacity control		variable]	air flow-rate,outd	oor measured]
	İ		1				
Sound power level,	L_WA	69.0	dB				
outdoor			.				
	ı		1				
If engine driven:	NOx	_	mg/kWh fuel input				
Emissions of nitrogen oxides	***		GCV				
Oxides	<u> </u>		JGCV				
GWP of the			kg CO₂eq.				
refrigerant		675	(100years)				
			-				
Contact details Mitsu	ubishi heavy indus	stries thern	nal systems,L	TD			
** If Cdc is not determined by measure	ement then the de	fault degra	dation coeffic	cient air conditione	rs shall be 0,25.		
*** from 26 September 2018							
Where information relates to multi-spil	t air conditioners,t	the test res	ult and perfo	rmance data be ob	otained on the basis of the perform	nance	
of the outdoor unit, with a combination	of indoor unit(s) r	ecommen	ded by the ma	anufacturer or impo	orter.		

Information to identify the model(s) to which the	e information	relates :		FDC140VN	IX-W / FDT71VH (x2 ur	nits)		
Outdoor side heat exchanger of heat pump :		air		10011011				
Indoor side heat exchanger of heat pump :		air						
Indication if the heater is equipped with a supp	lementary he			1	lo			
if applicable : electric motor	iornomary no							
Parameters shall be declared for the average I	neating seaso	n naramete	are for the w	armer and c	older heating seasons	are ontional		
				anner and c				
Item	Symbol	Value	Unit		Item	Symbol	Value	Unit
Rated heating capacity	Dunto d h	40.0	LAM		Seasonal space heatir	ng energy efficiency ηs,h	200.0	0/
	Prated,h	16.0	kW				200.0	%
				_				
Declared heating capacity for part load at indo	or temperatur	e 20°C			Declared coefficient of	f performance or gas utilization efficie	ncy /	
and outdoor temperature Tj					auxiliary energy factor	for part load at given outdoor temper	atures Tj	
								,
T _j =-7°C	Pdh	11.5	kW		T _j =-7°C	COPd or	320.0	%
						GUEh,bin / AEFh,bin		
T _j =+2°C	Pdh	7.0	kW		T _j =+2°C	COPd or	480.0	%
						GUEh,bin / AEFh,bin		
T _j =+7°C	Pdh	4.5	kW		T _j =+7°C	COPd or	700.0	%
						GUEh,bin / AEFh,bin		,,,
T _j =+12°C	Pdh	2.8	kW		T _j =+12°C	COPd or	900.0	%
						GUEh,bin / AEFh,bin	300.0	70
T _{biv} =bivalent temperature	Pdh	13.0	kW		T _{biv} =bivalent	COPd or	220.0	0/
					temperature	GUEh,bin / AEFh,bin	230.0	%
T _{OL} =operation limit	Pdh	10.3	kW		T _{OL} =operation limit	COPd or	000.0	0/
						GUEh,bin / AEFh,bin	220.0	%
For air-to-water heat pumps :	Pdh	-	kW		For air-to-water heat	COPd or		
T _j =-15°C					pumps:T _j =-15°C	GUEh,bin / AEFh,bin	-	%
(if T _{OL} <-20°C)					(if T _{OL} <-20°C)			1
(· · · · · · · · · · · · · · · · · · ·					(·· · · · · · · · · · · · · · · · · · ·			
Bivalent temperature	T _{biv}	-10.0	°C		For water-to-air heat]
Bruten temperature	* DIV				pumps:Operation limit		_	°C
Degradation					T _{ol} temperature			
coefficient	C_{dh}	0.25			1 of tomporataro			J
heat pumps**	Odh		_					
ricat pumps								
				-				
								1
Power consumpiton in modes other than 'active	e mode'				Supplementary heater	eibu	-	kW
Off mode	D	0.015	kW		back-up heating capac	city]
Thermostat-off mode	P _{OFF}							1
	P _{TO}		kW		Type of energy input	P_SB	0.015	kW
Crankcase heater mode	P _{CK}	0.005	kW		Standby mode			
Other items								1
					For air-to-air heat pum	nps:	6000	m³/h
Capacity control		variable			air flow-rate,outdoor m	neasured		
								,
Sound power level,	L_{WA}	71.0	dB		For water-/brine-to-air	heat pumps :		
outdoor measured					Rated brine or water fi	iow-rate,	-	m³/h
					outdoor side heat exch	nanger		
Emissions of nitrogen	NOx		mg/kWh					
oxides(if applicable)	***	-	fuel input					
			GCV					
GWP of the		675	kg CO ₂ eq.					
refrigerant			(100years)					
	heavy indust							
** If Cdh is not determined by measurement th	en the default	t degradation	coefficient	air condition	ners shall be 0,25.			
*** from 26 September 2018								
Where information relates to multi-spilt air con	ditioners,the	test result an	d performa	nce data be	obtained on the basis o	of the performance		
of the outdoor unit, with a combination of indoo	r unit(s) reco	mmended by	the manufa	acturer or im	porter.			

Model FDT140VSXWPVH

Model(s): FDC140VSX-W / F	DT71VH (x2 ι	units)					
Outdoor side heat exchanger of air condit	ioner :	air					
Indoor side heat exchanger of air conditio	ner:	air					
Type: vapour compression							
if applicable : electric motor							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity				Seasonal space			
	Prated,c	14.0	kW	cooling energy	η s,c	375.1	%
				efficiency			
Declared cooling capacity for part load at	given outdoor	temperatu	res	Declared energy effic	ciency ratio or gas utilization efficien	ncy /	
Tj and indoor 27°C/19°C(dry/wet bulb)				auxiliary energy facto	or for part load at given outdoor tem	peratures	Tj
T: .05%	Dda	44.0	1,,,,,				1
Tj=+35°C	Pdc	14.0	kW	Tj=+35°C	EERd or	430.0	%
Tj=+30°C	Pdc	10.3	kW		GUEc,bin / AEFc,bin		-
1]-+30 C	Fuc	10.3]ĸvv	Tj=+30°C	EERd or	660.0	%
Tj=+25°C	Pdc	6.6	kW	T' +05°0	GUEc,bin / AEFc,bin		1
17-120 0	1 40	0.0]	Tj=+25°C	EERd or	990.0	%
Tj=+20°C	Pdc	3.9	kW	Tj=+20°C	GUEc,bin / AEFc,bin EERd or		1
, ====]	1]-+20 C	GUEc,bin / AEFc,bin	2680.0	%
Degradation			1		GOEC,DIII / AEFC,DIII		1
coefficient for	Cdc	0.25	_				
air conditioners**	000						
all conditions			J				
Power consumpiton in other than 'active n	node'						
·							
Off mode	P_{OFF}	0.015	kW	Crankcase heater mo	ode P _{CK}	0.005	kW
Thermostat-off mode	P_{TO}	0.000	kW	Standby mode	P_{SB}	0.015	kW
Other items							7
			,	For air-to-air air cond	litioner:	6000	m³/h
Capacity control		variable]	air flow-rate,outdoor	measured]
			,				
Sound power level,	L_WA	69.0	dB				
outdoor]				
			, l				
If engine driven:	NOx		mg/kWh				
Emissions of nitrogen	***	_	fuel input				
oxides			GCV				
GWP of the			kg CO₂eq.				
		675	(100years)				
refrigerant]				
Contact details Mitsubis	hi heavy indu	stries thern	nal systems I	TD			
** If Cdc is not determined by measureme					nall be 0,25.		
*** from 26 September 2018							
Where information relates to multi-spilt air	conditioners	the test res	sult and perfo	rmance data be obtain	ed on the basis of the performance	:	
of the outdoor unit, with a combination of			-		·		
	(0)						

Information to identify the model(s) to which the	e information	relates :		FDC140VS	X-W/ FDT71VH (x2 uni	its)		
Outdoor side heat exchanger of heat pump :		air		. 5011010	A TOTAL CALL	,		
Indoor side heat exchanger of heat pump :		air						
Indication if the heater is equipped with a supp	lementary he			1	lo			
if applicable : electric motor	iornomary no							
Parameters shall be declared for the average I	neating seaso	n naramete	are for the w	armer and c	older heating seasons	are ontional		
				arriici ariu c	-	•		
Item	Symbol	Value	Unit	1	Item	Symbol	Value	Unit
Rated heating capacity	Dunto d h	40.0	LAM		Seasonal space heatir	ng energy efficiency ηs,h	404.5	0/
	Prated,h	16.0	kW				194.5	%
				1				
Declared heating capacity for part load at indo	or temperatur	e 20°C			Declared coefficient of	f performance or gas utilization efficie	ency /	
and outdoor temperature Tj					auxiliary energy factor	for part load at given outdoor temper	ratures Tj	
								,
T _j =-7°C	Pdh	13.7	kW		T _j =-7°C	COPd or	310.0	%
						GUEh,bin / AEFh,bin		
T _j =+2°C	Pdh	8.4	kW		T _j =+2°C	COPd or	470.0	%
						GUEh,bin / AEFh,bin	470.0	70
T _j =+7°C	Pdh	5.4	kW		T _i =+7°C	COPd or	0000	0/
						GUEh,bin / AEFh,bin	660.0	%
T _i =+12°C	Pdh	2.8	kW		T _i =+12°C	COPd or		l.,
					,	GUEh,bin / AEFh,bin	900.0	%
T _{biv} =bivalent temperature	Pdh	15.5	kW		T _{biv} =bivalent	COPd or		
Tow break temperature	i dii				temperature		230.0	%
T	Dale	11.9	LAM			GUEh,bin / AEFh,bin		
T _{OL} =operation limit	Pdh	11.9	kW		T _{OL} =operation limit	COPd or	220.0	%
						GUEh,bin / AEFh,bin		
For air-to-water heat pumps :	Pdh	-	kW		For air-to-water heat	COPd or	-	%
T _j =-15°C					pumps:T _j =-15°C	GUEh,bin / AEFh,bin]
(if T _{OL} <-20°C)					(if T _{OL} <-20°C)			
								1
Bivalent temperature	T_biv	-10.0	°C		For water-to-air heat			
					pumps:Operation limit		-	°C
Degradation					T _{ol} temperature			
coefficient	C_{dh}	0.25	-					
heat pumps**								
				1				
Power consumpiton in modes other than 'active	e mode'				Supplementary heater	-		
Tower consumption in modes other than deliver	3 mode				back-up heating capac	eibu	-	kW
Off mode	P _{OFF}	0.015	kW		back-up rieating capac	Sity		J
Thermostat-off mode	P _{TO}		kW		T			1
Crankcase heater mode	P _{CK}		kW		Type of energy input	P_{SB}	0.015	kW
Grankease neater mode	' CK	0.003	KVV		Standby mode			J
				-				
Other items								1
					For air-to-air heat pum	nps:	6000	m³/h
Capacity control		variable			air flow-rate,outdoor m	neasured]
								1
Sound power level,	L_{WA}	71.0	dB		For water-/brine-to-air	heat pumps :		
outdoor measured	****				Rated brine or water fi	iow-rate,	-	m³/h
					outdoor side heat exch	hanger		
Emissions of nitrogen			mg/kWh					
oxides(if applicable)	NOx ***	-	fuel input					
			GCV					
				1				
GWP of the			kg CO₂eq.					
		675	(100years)					
refrigerant			. ,					
Contact details	haarin to to t	alaa H		<u> </u>				
Contact details Mitsubishi ** If Cdh is not determined by measurement th	heavy indust				ners shall he 0.25			
	on one deladil	. ucyrauali011	, Joennolenii	an condition	1013 311all DC U,23.			
*** from 26 September 2018								
Where information relates to multi-spilt air con						of the performance		
of the outdoor unit, with a combination of indoo	r unit(s) reco	mmended by	the manufa	acturer or im	porter.			

Model FDT140VNXWTVH

Model(s): FDC140VNX-W / F	DT50VH (x3 ı	units)					
Outdoor side heat exchanger of air condit	ioner :	air					
Indoor side heat exchanger of air conditio	ner:	air					
Type: vapour compression							
if applicable : electric motor							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity				Seasonal space			
	Prated,c	14.0	kW	cooling energy	η s,c	394.3	%
				efficiency			
Declared cooling capacity for part load at	given outdoor	temperatu	res	Declared energy effic	ciency ratio or gas utilization efficier	ncy /	
Tj and indoor 27°C/19°C(dry/wet bulb)				auxiliary energy facto	or for part load at given outdoor tem	peratures	Tj
7 05%	D.I.	440	1,,,,				1
Tj=+35°C	Pdc	14.0	kW	Tj=+35°C	EERd or	420.0	%
T:- 120°C	Pdc	10.3	kW	_	GUEc,bin / AEFc,bin		
Tj=+30°C	Puc	10.3	IKVV	Tj=+30°C	EERd or	680.0	%
Tj=+25°C	Pdc	6.6	kW	7: .05%	GUEc,bin / AEFc,bin		
17-123 0	1 40	0.0],,,,	Tj=+25°C	EERd or	1120.0	%
Tj=+20°C	Pdc	3.8	kW	T:- + 20°0	GUEc,bin / AEFc,bin		
1, 120 0	1 40	0.0]	Tj=+20°C	EERd or	2670.0	%
Degradation			1		GUEc,bin / AEFc,bin		1
coefficient for	Cdc	0.25	_				
air conditioners**	ouc						
all conditions			J				
				_			
Power consumpiton in other than 'active n	node'						
Off mode	P_{OFF}	0.015	kW	Crankcase heater me	ode P _{CK}	0.005	kW
Thermostat-off mode	P_{TO}	0.000	kW	Standby mode	P_SB	0.015	kW
Other items					1		1
			,	For air-to-air air cond	ditioner:	6000	m³/h
Capacity control		variable]	air flow-rate,outdoor	measured		
			,				
Sound power level,	L_WA	69.0	dB				
outdoor]				
			, l				
If engine driven:	NOx		mg/kWh				
Emissions of nitrogen	***	-	fuel input				
oxides			GCV				
GWP of the			kg CO₂eq.				
		675	(100years)				
refrigerant], , ,				
Contact details Mitsubis	hi heavy indu	stries thern	nal systems I	TD			
** If Cdc is not determined by measureme					hall be 0,25.		
*** from 26 September 2018		· ·					
Where information relates to multi-spilt air	conditioners	the test res	sult and nerfo	rmance data be obtain	ed on the basis of the performance		
of the outdoor unit, with a combination of			-		·		
2. 2.0 Catago, and, mara combination of		. 55511111011	_ 5		···		

Information to identify the model(s) to whi	ich the information	relates :	FDC140VNX-W/ FDT50VH (x3 units)	
Outdoor side heat exchanger of heat pur	np:	air	- So the time to the district	
Indoor side heat exchanger of heat pump	:	air		
Indication if the heater is equipped with a	supplementary he		No	
if applicable : electric motor	-			
Parameters shall be declared for the aver	rage heating seaso	on , parameters for the v	warmer and colder heating seasons are optional.	
Item	Symbol	Value Unit	Item Symbol Value U	Jnit
Rated heating capacity			Seasonal space heating energy efficiency ηs,h	
l and the same of	Prated,h	16.0 kW	191.9	6
Declared heating capacity for part load at	t indoor temperatu	re 20°C	Declared coefficient of performance or gas utilization efficiency /	
and outdoor temperature Tj			auxiliary energy factor for part load at given outdoor temperatures Tj	
T _j =-7°C	Pdh	11.5 kW	T _j =-7°C COPd or 310.0 %	/-
			GUEh,bin / AEFh,bin	0
T _j =+2°C	Pdh	7.0 kW	T _j =+2°C COPd or 440.0 %	6
			GUEh,bin / AEFh,bin	0
T _j =+7°C	Pdh	4.5 kW	T _j =+7°C COPd or 730.0 %	6
			GUEh,bin / AEFh,bin	
T _j =+12°C	Pdh	2.8 kW	T _j =+12°C COPd or 900.0 %	6
			GUEh,bin / AEFh,bin	-
T _{biv} =bivalent temperature	Pdh	13.0 kW	T _{biv} =bivalent COPd or 230.0 %	6
			temperature GUEh,bin / AEFh,bin	-
T _{OL} =operation limit	Pdh	10.3 kW	T _{OL} =operation limit COPd or 220.0 %	6
			GUEh,bin / AEFh,bin	•
For air-to-water heat pumps :	Pdh	- kW	For air-to-water heat COPd or %	6
T _j =-15°C			pumps:T _j =-15°C GUEh,bin / AEFh,bin	
(if T _{OL} <-20°C)			(if T _{OL} <-20°C)	
Bivalent temperature	T_biv	-10.0 °C	For water-to-air heat	
			pumps:Operation limit - °C	С
Degradation			T _{ol} temperature	
coefficient	C_{dh}	0.25		
heat pumps**				
Power consumpiton in modes other than	'active mode'		Supplementary heater elbu - kt	:W
			back-up heating capacity	
Off mode	P _{OFF}	0.015 kW		
Thermostat-off mode	P _{TO}	0.020 kW	Type of energy input P _{SB} 0.015 kt	:W
Crankcase heater mode	P _{CK}	0.005 kW	Standby mode	
Other items				
		iabla		n³/h
Capacity control		variable	air flow-rate,outdoor measured	
Sound power level,	L_{WA}	71.0 dB	For water-/brine-to-air heat pumps :	n³/h
outdoor measured			Rated brille of water flow-rate,	11711
			outdoor side heat exchanger	
Emissions of nitrogen	NOx	mg/kWh		
oxides(if applicable)	***	fuel input		
		GCV		
GWP of the		kg CO₂eq.		
		675 (100years)		
refrigerant				
Contact details Mitsu	ihishi haawi indust	ries thermal systems,LT	TD.	
** If Cdh is not determined by measurement				
		.5 200		
*** from 26 September 2018 Where information relates to multi-spilt at	ir conditioners the	test result and norforms	ance data he obtained on the basis of the performance	
of the outdoor unit, with a combination of			ance data be obtained on the basis of the performance	
or the outdoor unit, with a combination of	maoor unit(s) reco	mmenueu by the manul	nactures of importer.	

Model FDT140VSXWTVH

Model(s): FDC140VSX-W / FD	T50VH (x3 ι	units)					
Outdoor side heat exchanger of air condition	ner:	air					
Indoor side heat exchanger of air condition	er:	air					
Type: vapour compression							
if applicable : electric motor							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity				Seasonal space			
	Prated,c	14.0	kW	cooling energy	η s,c	394.3	%
				efficiency			
Declared cooling capacity for part load at g	ven outdoor	temperatu	res	Declared energy effic	ciency ratio or gas utilization efficier	ncy /	
Tj and indoor 27°C/19°C(dry/wet bulb)				auxiliary energy facto	or for part load at given outdoor tem	peratures	Tj
T: 0.5%5	D.L.	440	1,,,,				1
Tj=+35°C	Pdc	14.0	kW	Tj=+35°C	EERd or	420.0	%
T:- 120°0	Dda	40.0	1,,,,		GUEc,bin / AEFc,bin		
Tj=+30°C	Pdc	10.3	kW	Tj=+30°C	EERd or	680.0	%
Tj=+25°C	Pdc	6.6	kW		GUEc,bin / AEFc,bin		
1]-+23 0	1 00	0.0	JKVV	Tj=+25°C	EERd or	1120.0	%
Tj=+20°C	Pdc	3.8	kW	T: .00°0	GUEc,bin / AEFc,bin		
1720 0	1 00	0.0]	Tj=+20°C	EERd or	2670.0	%
Degradation			1		GUEc,bin / AEFc,bin		1
coefficient for	Cdc	0.25					
air conditioners**	Odo						
all conditioners]				
Power consumpiton in other than 'active mo	ode'						
l and denoting the mount and make the							
Off mode	P_{OFF}	0.015	kW	Crankcase heater mo	ode P _{CK}	0.005	kW
Thermostat-off mode	P _{TO}	0.000	kW	Standby mode	P _{SB}	0.015	kW
			1		!		
Other items							
			,	For air-to-air air cond	litioner:	6000	m³/h
Capacity control		variable		air flow-rate,outdoor	measured		,
			,				
Sound power level,	L_{WA}	69.0	dB				
outdoor	***						
			,				
If engine driven:	NOx		mg/kWh				
Emissions of nitrogen	***	-	fuel input				
oxides			GCV				
			1				
GWP of the		675	kg CO₂eq. (100years)				
refrigerant			(Tooyears)				
Contact details Mitsubish ** If Cdc is not determined by measuremen			nal systems,L		nall he 0.25		
	t uteri tile de	riauit uegla	uation coeffic	sent all conditioners st	iaii be 0,20.		
*** from 26 September 2018		0 - 1 - 1			and a section of the		
Where information relates to multi-spilt air of			-		•	:	
of the outdoor unit, with a combination of in	aoor unit(s)	recommend	ded by the ma	anutacturer or importer			

Information to identify the model(s) to which the	e information	relates :		FDC140VS	SX-W / FDT50VH (x3 ur	nits)		
Outdoor side heat exchanger of heat pump :		air		. 501.1010	,			
Indoor side heat exchanger of heat pump :		air						
Indication if the heater is equipped with a supp	lementary he			1	No			
if applicable : electric motor	iornomary no							
Parameters shall be declared for the average I	neating seaso	n naramete	are for the w	armer and c	older heating seasons	are ontional		
				anner and c	-	•		
Item	Symbol	Value	Unit		Item	Symbol	Value	Unit
Rated heating capacity	Dunto d h	40.0	LAA		Seasonal space heatir	ng energy efficiency ηs,h	407.5	0/
	Prated,h	16.0	kW				187.5	%
Declared heating capacity for part load at indo	or temperatur	e 20°C			Declared coefficient of	f performance or gas utilization efficie	ency /	
and outdoor temperature Tj					auxiliary energy factor	for part load at given outdoor temper	ratures Tj	
			1					,
T _j =-7°C	Pdh	13.7	kW		T _j =-7°C	COPd or	300.0	%
			1			GUEh,bin / AEFh,bin		
T _j =+2°C	Pdh	8.4	kW		T _j =+2°C	COPd or	430.0	%
						GUEh,bin / AEFh,bin	430.0	70
T _j =+7°C	Pdh	5.4	kW		T _i =+7°C	COPd or	740.0	0/
			ı			GUEh,bin / AEFh,bin	710.0	%
T _i =+12°C	Pdh	2.8	kW		T _i =+12°C	COPd or		l.,
			l		,	GUEh,bin / AEFh,bin	900.0	%
T _{biv} =bivalent temperature	Pdh	15.5	kW		T _{biv} =bivalent	COPd or		
- DIV STAIGHT COMPONENTS			r		temperature		220.0	%
T = aparation limit	Ddb	11.9	LAM		T =onorotion limit	GUEh,bin / AEFh,bin		
T _{OL} =operation limit	Pdh	11.5	kW		T _{OL} =operation limit	COPd or	210.0	%
			1			GUEh,bin / AEFh,bin		
For air-to-water heat pumps :	Pdh	-	kW		For air-to-water heat	COPd or	-	%
T _j =-15°C					pumps:T _j =-15°C	GUEh,bin / AEFh,bin		
(if T _{OL} <-20°C)					(if T _{OL} <-20°C)			
			ı					1
Bivalent temperature	T_biv	-10.0	°C		For water-to-air heat			
			1		pumps:Operation limit		-	°C
Degradation					T _{ol} temperature			
coefficient	C_{dh}	0.25	-					
heat pumps**								
			ı					
Power consumpiton in modes other than 'active	e mode'				Supplementary heater	-		
Tower consumption in modes other than deliver	3 mode				back-up heating capac	eibu	-	kW
Off mode	P _{OFF}	0.015	kW		back-up neating capac	Sity		J
Thermostat-off mode	P _{TO}		kW		Town of an arms town t			1
Crankcase heater mode	P _{CK}		kW		Type of energy input	P_{SB}	0.015	kW
Grammouse mouter mous	· CK	0.000			Standby mode			l
				1				
Other items								1
			1		For air-to-air heat pum	ips:	6000	m³/h
Capacity control		variable			air flow-rate,outdoor m	neasured		
			İ					1
Sound power level,	L_{WA}	71.0	dB		For water-/brine-to-air	heat pumps :		
outdoor measured					Rated brine or water fi	iow-rate,	-	m³/h
			1		outdoor side heat exch	nanger		
Emissions of nitrogen	NOv		mg/kWh					
oxides(if applicable)	NOx ***	-	fuel input					
			GCV					
GWP of the		675	kg CO₂eq.					
refrigerant		6/5	(100years)					
			•					
Contact details Mitsubishi	heavy indust	ries thermal	systems I T	D				
** If Cdh is not determined by measurement th					ners shall be 0,25.			
		J						
*** from 26 September 2018	dition and the	loot recult	d no-fo	noo date l	obtained on the bank	of the norforme		
Where information relates to multi-spilt air con						i the performance		
of the outdoor unit, with a combination of indoo	unit(s) reco	mmenaed by	r trie manufa	acturer or im	porter.			
i .								

Models FDT50VH, 60VH, 71VH, 100VH, 125VH, 140VH

Model(s): FDT50VH							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Cooling capacity (sensible)	P _{rated,c}	4.4	kW	Total electric power input	P _{elec}	0.040	kW
Cooling capacity (latent)	P _{rated,c}	0.6	kW	Sound power level (per speed setting,if applicable)	L _{WA}	55.0	dB
Heating capacity	P _{rated,h}	5.4	kW				
Contact details	Mitsubishi h	neavy indu	ustries thern	nal systems,LTD			

Model(s): FDT60VH							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Cooling capacity (sensible)	$P_{rated,c}$	5.5	kW	Total electric power input	P_{elec}	0.070	kW
Cooling capacity (latent)	P _{rated,c}	0.1	kW	Sound power level (per speed setting,if applicable)	L _{WA}	58.0	dB
Heating capacity	P _{rated,h}	6.7	kW				
Contact details	Mitsubishi h	neavy indu	ustries the	mal systems,LTD			

Model(s): FDT71VH							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Cooling capacity (sensible)	$P_{rated,c}$	6.1	kW	Total electric power input	P _{elec}	0.080	kW
Cooling capacity (latent)	P _{rated,c}	1.0	kW	Sound power level (per speed setting,if applicable)	L _{WA}	59.0	dB
Heating capacity	$P_{rated,h}$	8.0	kW				
Contact details	Mitsubishi h	neavy indu	ustries ther	mal systems,LTD			

Model(s): FDT100VH							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Cooling capacity (sensible)	$P_{rated,c}$	8.1	kW	Total electric power input	P_{elec}	0.130	kW
Cooling capacity (latent)	P _{rated,c}	1.9	kW	Sound power level (per speed setting,if applicable)	L_WA	62.0	dB
Heating capacity	P _{rated,h}	11.2	kW				
Contact details	Mitsubishi h	neavy indu	ustries ther	mal systems,LTD			

Model(s): FDT125VH							
ltem	Symbol	Value	Unit	Item	Symbol	Value	Unit
Cooling capacity (sensible)	$P_{rated,c}$	9.1	kW	Total electric power input	P _{elec}	0.140	kW
Cooling capacity (latent)	P _{rated,c}	3.4	kW	Sound power level (per speed setting,if applicable)	L _{WA}	63.0	dB
Heating capacity	$P_{rated,h}$	14.0	kW				
Contact details	Mitsubishi h	neavy indu	ustries the	rmal systems,LTD			

Model(s): FDT140VH							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Cooling capacity (sensible)	$P_{rated,c}$	9.8	kW	Total electric power input	P_{elec}	0.140	kW
Cooling capacity (latent)	P _{rated,c}	4.2	kW	Sound power level (per speed setting,if applicable)	L _{WA}	63.0	dB
Heating capacity	P _{rated,h}	16.0	kW				
Contact details	Mitsubishi h	neavy indu	ustries therm	nal systems,LTD			

(2) Ceiling cassette-4 way compact type (FDTC)

Model FDTC100VNXWPVH

Information to identify the mode Indoor unit model name	el(s) to which the inf FDTC50V			If function includes heating: Indicate information relates to. Indicated value			
Outdoor unit model name	FDC100V	NX-W		heating season at a time. Include at l	least the heating	season 'A	verage'.
Function(indicate if present)				Average(mandatory)	Yes		
cooling	Yes			Warmer(if designated)	No		
heating	Yes			Colder(if designated)	No		
Item	symbol	value	unit	Item	symbol	value	class
Design load	Gymbol	value	dille	Seasonal efficiency and energy effici		value	oldoo
cooling	Pdesignc		kW	cooling	SEER	6.58	A++
heating / Average	Pdesignh	11.2	kW	heating / Average	SCOP/A	4.16	A+
heating / Warmer	Pdesignh		kW	heating / Warmer	SCOP/W	-	-
heating / Colder	Pdesignh	-	kW	heating / Colder	SCOP/C	-	-
Declared capacity at outdoor te	mperature Tdesign	h		Back up heating capacity at outdoor	temperature Tde	sianh	unit
heating / Average (-10°C)	Pdh	11.2	kW	heating / Average (-10°C)	elbu	0	kW
heating / Warmer (2°C)	Pdh	-	kW	heating / Warmer (2°C)	elbu	-	kW
heating / Colder (-22°C)	Pdh	-	kW	heating / Colder (-22°C)	elbu	-	kW
		0=//0\0		1 🖘		0=(10)0=	
Declared capacity for cooling, a	it indoor temperatur	re 27(19)°	C and	Declared energy efficiency ratio, at in	ndoor temperatur	e 27(19)°C	and
outdoor temperature Tj Tj=35°C	Pdc	10.00	kW	outdoor temperature Tj	EERd	3.84	7.
Tj=30°C	Pdc	7.30	kW	Tj=30°C	EERd	5.50	-
Tj=25°C	Pdc	4.70	kW	Tj=25°C	EERd	8.40	1-
Tj=20°C	Pdc	3.40	kW	Tj=20°C	EERd	12.40	1-
,							
Declared capacity for heating / A		t indoor		Declared coefficient of performance		n, at indooi	r
temperature 20°C and outdoor t			TLAM	temperature 20°C and outdoor temperature			7
Tj=-7°C	Pdh	9.91	kW	Tj=-7°C	COPd	2.80	- 1⁻
Tj=2°C	Pdh	6.03	kW	Tj=2°C	COPd	3.90	-
Tj=7°C	Pdh	3.88	kW	Tj=7°C	COPd	5.70	- 1
Tj=12°C Tj=bivalent temperature	Pdh Pdh	2.84 11.20	kW kW	Tj=12°C Tj=bivalent temperature	COPd COPd	6.70 2.20	-[
Tj=blvalent temperature Tj=operating limit	Pan Pdh	8.65	kW	Tj=blvalent temperature Tj=operating limit	COPa	2.20	1
rj-operating innit	T GIT	0.00	IKVV	1j-operating iiinit	001 u	2.00	
Declared capacity for heating /	Warmer season, at	indoor		Declared coefficient of performance	/ Warmer seasor	, at indoor	
temperature 20°C and outdoor t			_	temperature 20°C and outdoor temperature			_
Tj=2°C	Pdh	-	kW	Tj=2°C	COPd	-]-
Tj=7°C	Pdh	-	kW	Tj=7°C	COPd	-	<u></u>]-
Tj=12°C	Pdh	-	kW	Tj=12°C	COPd	-]-
Tj=bivalent temperature	Pdh	-	kW	Tj=bivalent temperature	COPd	-	<u> </u> -
Tj=operating limit	Pdh	_	kW	I ITi-operating limit		I -	-
				Tj=operating limit	COPd	_	
Declared connects for beating /		ndoor	IX.V			at indoor	
Declared capacity for heating /	Colder season, at in	ndoor	IKW	Declared coefficient of performance	/ Colder season,	at indoor	!
temperature 20°C and outdoor t	Colder season, at in	ndoor	_	Declared coefficient of performance is temperature 20°C and outdoor 20°C and outdoor 20°C and	/ Colder season, erature Tj	at indoor	1_
temperature 20°C and outdoor t Tj=-7°C	Colder season, at in temperature Tj Pdh	-]kW	Declared coefficient of performance temperature 20°C and outdoor temperature Tj=-7°C	/ Colder season, erature Tj COPd	-	<u>. </u>
temperature 20°C and outdoor t Tj=-7°C Tj=2°C	Colder season, at in temperature Tj Pdh Pdh	-	kW kW	Declared coefficient of performance temperature 20°C and outdoor temperature 7°C Tj=-2°C	/ Colder season, erature Tj COPd COPd	at indoor]-
temperature 20°C and outdoor t Tj=-7°C Tj=2°C Tj=7°C	Colder season, at in temperature Tj Pdh Pdh Pdh	-	kW kW kW	Declared coefficient of performance / temperature 20°C and outdoor temper Tj=-7°C Tj=2°C Tj=7°C	/ Colder season, erature Tj COPd COPd COPd	-]-
temperature 20°C and outdoor t Tj=-7°C Tj=2°C Tj=7°C Tj=12°C	Colder season, at in temperature Tj Pdh Pdh	-	kW kW	Declared coefficient of performance is temperature 20°C and outdoor temper Tj=-7°C Tj=2°C Tj=12°C	/ Colder season, erature Tj COPd COPd	-]- - - - -
temperature 20°C and outdoor t Tj=-7°C Tj=2°C Tj=7°C	Colder season, at in temperature Tj Pdh Pdh Pdh Pdh		kW kW kW	Declared coefficient of performance / temperature 20°C and outdoor temper Tj=-7°C Tj=2°C Tj=7°C	/ Colder season, erature Tj COPd COPd COPd COPd]- - - - - -
temperature 20°C and outdoor t Tj=-7°C Tj=2°C Tj=7°C Tj=12°C Tj=bivalent temperature	Colder season, at ii emperature Tj Pdh Pdh Pdh Pdh Pdh Pdh	- - - -	kW kW kW kW	Declared coefficient of performance is temperature 20°C and outdoor temperature 7j=-7°C Tj=2°C Tj=12°C Tj=bivalent temperature	/ Colder season, erature Tj COPd COPd COPd COPd COPd		- - - - - - -
temperature 20°C and outdoor t Tj=-7°C Tj=2°C Tj=7°C Tj=12°C Tj=bivalent temperature Tj=operating limit Tj=-15°C	Colder season, at ii emperature Tj Pdh Pdh Pdh Pdh Pdh Pdh		kW kW kW kW kW	Declared coefficient of performance at temperature 20°C and outdoor temperature 7°C Tj=2°C Tj=7°C Tj=12°C Tj=12°C Tj=bivalent temperature Tj=operating limit Tj=-15°C	/ Colder season, erature Tj COPd COPd COPd COPd COPd COPd COPd		- - - - - -
temperature 20°C and outdoor t Tj=-7°C Tj=2°C Tj=12°C Tj=12°C Tj=bivalent temperature Tj=-15°C Bivalent temperature	Colder season, at ii lemperature Tj Pdh Pdh Pdh Pdh Pdh Pdh Pdh		kW kW kW kW kW kW	Declared coefficient of performance // temperature 20°C and outdoor temperature 7j=-7°C Tj=2°C Tj=12°C Tj=bivalent temperature Tj=operating limit Tj=-15°C Operating limit temperature	/ Colder season, prature Tj COPd COPd COPd COPd COPd COPd COPd COPd	-	
temperature 20°C and outdoor t Tj=-7°C Tj=2°C Tj=2°C Tj=12°C Tj=bivalent temperature Tj=operating limit Tj=-15°C Bivalent temperature heating / Average	Colder season, at in temperature Tj Pdh Pdh Pdh Pdh Pdh Pdh Pdh Pdh	- - - - - - -	kW kW kW kW kW kW	Declared coefficient of performance // temperature 20°C and outdoor temper Tj=-7°C Tj=2°C Tj=12°C Tj=bivalent temperature Tj=operating limit Tj=-15°C Operating limit temperature heating / Average	/ Colder season, erature Tj COPd COPd COPd COPd COPd COPd COPd COPd	- - - - - - - -]- - - - - - - - - -
temperature 20°C and outdoor t Tj=-7°C Tj=2°C Tj=2°C Tj=12°C Tj=bivalent temperature Tj=operating limit Tj=-15°C Bivalent temperature heating / Average heating / Warmer	Colder season, at in temperature Tj Pdh Pdh Pdh Pdh Pdh Pdh Pdh Pdh Pdh Pdh	- - - - - - - -	kW kW kW kW kW kW	Declared coefficient of performance // temperature 20°C and outdoor temper Tj=-7°C Tj=2°C Tj=12°C Tj=bivalent temperature Tj=operating limit Tj=-15°C Operating limit temperature heating / Average heating / Warmer	/ Colder season, erature Tj COPd COPd COPd COPd COPd COPd COPd COPd	- - - - - - - -	°C
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Model FDTC100VSXWPVH

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10 kW 11.2 kW - kW 11.2 kW - kW 11.2 kW - kW 27(19)°C and 10 kW 7.3 kW 4.7 kW 3.4 kW door 9.91 kW 4.7 kW 3.88 kW 2.84 kW 11.2 kW 8.65 kW door - kW - kW - kW - kW - kW	Seasonal efficiency and energy efficiency cooling heating / Average heating / Warmer heating / Colder Back up heating capacity at outdoor to heating / Average (-10°C) heating / Average (-10°C) heating / Warmer (2°C) heating / Colder (-22°C) Declared energy efficiency ratio, at into outdoor temperature Tj Tj=35°C Tj=30°C Tj=25°C Tj=20°C Declared coefficient of performance / temperature 20°C and outdoor temperature Tj=-7°C Tj=2°C Tj=bivalent temperature Tj=operating limit Declared coefficient of performance / temperature 20°C and outdoor temperature Tj=operating limit Declared coefficient of performance / temperature 20°C and outdoor temperature Tj=operating limit Declared coefficient of performance / temperature 20°C and outdoor temperature Tj=operating limit	ency class SEER SCOP/A SCOP/M SCOP/C emperature Tde elbu elbu elbu door temperatu EERd EERd EERd EERd COPd COPd COPd COPd COPd COPd COPd COP	6.58 4.16 esignh 0 re 27(19)°C 3.84 5.5 8.4 12.4 n, at indoo	A++ A+ - unit kW kW kW C and
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- kW - kW 27(19)°C and 10 kW 7.3 kW 4.7 kW 3.4 kW door 9.91 kW 6.03 kW 3.88 kW 2.84 kW 11.2 kW 8.65 kW door - kW - kW - kW - kW - kW	heating / Warmer (2°C) heating / Colder (-22°C) Declared energy efficiency ratio, at incoutdoor temperature Tj Tj=35°C Tj=30°C Tj=20°C Declared coefficient of performance / temperature 20°C and outdoor temper Tj=-7°C Tj=12°C Tj=bivalent temperature Tj=operating limit Declared coefficient of performance / temperature 20°C and outdoor temper Tj=2°C Tj=12°C Tj=bivalent temperature Tj=operating limit Declared coefficient of performance / temperature 20°C and outdoor temper Tj=2°C Tj=12°C Tj=bivalent temperature Tj=operating limit Declared coefficient of performance / temperature 20°C and outdoor temper	elbu elbu door temperatu EERd EERd EERd EERd COPd COPd COPd COPd COPd COPd COPd COP	3.84 5.5 8.4 12.4 12.4 12.8 3.9 5.7 6.7 2.2 2	kW kW
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3.4 kW door 9.91 kW 6.03 kW 3.88 kW 2.84 kW 11.2 kW 6.5 kW door - kW - kW - kW - kW - kW - kW	Tj=20°C Declared coefficient of performance / temperature 20°C and outdoor temper Tj=-7°C Tj=2°C Tj=12°C Tj=bivalent temperature Tj=operating limit Declared coefficient of performance / temperature 20°C and outdoor temper Tj=2°C Tj=12°C Tj=bivalent temperature Tj=operating limit Declared coefficient of performance / temperature 20°C and outdoor temper Tj=2°C Tj=tolored coefficient of performance / temperature 20°C and outdoor temper temperature 20°C and outdoor temper	EERd Average seasorature Tj COPd COPd COPd COPd COPd COPd COPd COPd	12.4 n, at indoo 2.8 3.9 5.7 6.7 2.2 2 n, at indoo	- - - - -
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6.03 kW 3.88 kW 2.84 kW 11.2 kW 8.65 kW door - kW - kW - kW - kW - kW - kW	Tj=2°C Tj=7°C Tj=12°C Tj=bivalent temperature Tj=operating limit Declared coefficient of performance / temperature 20°C and outdoor temper Tj=2°C Tj=7°C Tj=12°C Tj=bivalent temperature Tj=operating limit Declared coefficient of performance / temperature 20°C and outdoor temper	COPd COPd COPd COPd COPd Warmer seasorature Tj COPd COPd COPd COPd COPd COPd COPd	3.9 5.7 6.7 2.2 2 n, at indoo	
3.88 kW 2.84 kW 11.2 kW 8.65 kW door - kW - kW - kW - kW	Tj=7°C Tj=12°C Tj=bivalent temperature Tj=operating limit Declared coefficient of performance / temperature 20°C and outdoor temper Tj=2°C Tj=7°C Tj=12°C Tj=bivalent temperature Tj=operating limit Declared coefficient of performance / temperature 20°C and outdoor temper	COPd COPd COPd COPd COPd Warmer seasorature Tj COPd COPd COPd COPd COPd COPd	5.7 6.7 2.2 2 nn, at indoo	r
2.84 kW 11.2 kW 8.65 kW door - kW - kW - kW - kW	Tj=12°C Tj=bivalent temperature Tj=operating limit Declared coefficient of performance / temperature 20°C and outdoor temper Tj=2°C Tj=7°C Tj=12°C Tj=bivalent temperature Tj=operating limit Declared coefficient of performance / temperature 20°C and outdoor temper	COPd COPd COPd Warmer seasor rature Tj COPd COPd COPd COPd COPd	6.7 2.2 2 2 n, at indoo	r
8.65 kW door - kW - kW - kW - kW - kW - kW	Tj=operating limit Declared coefficient of performance / temperature 20°C and outdoor temper Tj=2°C Tj=7°C Tj=12°C Tj=bivalent temperature Tj=operating limit Declared coefficient of performance / temperature 20°C and outdoor temper	COPd COPd Warmer season rature Tj COPd COPd COPd COPd COPd	an, at indoo	- - - - - - -
- kW - kW - kW - kW - kW	Declared coefficient of performance / temperature 20°C and outdoor temper Tj=2°C Tj=7°C Tj=12°C Tj=bivalent temperature Tj=operating limit Declared coefficient of performance / temperature 20°C and outdoor temper	Warmer seasor rature Tj COPd COPd COPd COPd COPd		r - - - - -
- kW - kW - kW - kW	temperature 20°C and outdoor temperature 7j=2°C Tj=7°C Tj=12°C Tj=bivalent temperature Tj=operating limit Declared coefficient of performance / temperature 20°C and outdoor temperature	rature Tj COPd COPd COPd COPd COPd	-	r - - - - -
- kW - kW - kW - kW	temperature 20°C and outdoor temperature 7j=2°C Tj=7°C Tj=12°C Tj=bivalent temperature Tj=operating limit Declared coefficient of performance / temperature 20°C and outdoor temperature	rature Tj COPd COPd COPd COPd COPd	-	- - - - -
- kW - kW - kW - kW	Tj=7°C Tj=12°C Tj=bivalent temperature Tj=operating limit Declared coefficient of performance / temperature 20°C and outdoor temperature 20°C	COPd COPd COPd COPd	-	- - - - -
- kW - kW - kW	Tj=12°C Tj=bivalent temperature Tj=operating limit Declared coefficient of performance / temperature 20°C and outdoor temper	COPd COPd COPd	-	- - - - -
- kW - kW	Tj=bivalent temperature Tj=operating limit Declared coefficient of performance / temperature 20°C and outdoor temperature 20°C and	COPd COPd	-	- -
oor - kW	Tj=operating limit Declared coefficient of performance / temperature 20°C and outdoor 20°C and outdoor 20°C and outdoor 20°C and ou		1	-
- kW	temperature 20°C and outdoor temperature	Colder season,	at indoor	
- kW	temperature 20°C and outdoor temperature	Coluct Season,		
		rature Ti	at mass.	
- k\//	Tj=-7°C	COPd	-]-
	Tj=2°C	COPd	-	
- kW	Tj=7°C Tj=12°C	COPd	-	- -
- kW - kW	Tj=12 C	COPd COPd	-	
- kW	Tj=operating limit	COPd	-	┪-
- kW	Tj=-15°C	COPd	-]-
	Operating limit temperature			
-10 °C	heating / Average	Tol	-20	°C
- °C	heating / Warmer	Tol	-	°C
- ℃	heating / Colder	Tol	-	°C
	Cycling interval efficiency			
- kW	for cooling	EERcyc	-	Π-
- kW	for heating	COPcyc	-	Ī
	Degradation coefficient			
0.25 -	heating	Cdh	0.25	٦-
•			•	•
	Annual electricity consumption	Oce	522	kWh/a
	9			kWh/a
15 W	heating / Warmer	Qhe	-	kWh/a
40 W	heating / colder	Qhe	-	kWh/a
5 W	_			
	Other items			
	Sound power level(indoor)	Lwa	59	dB(A)
	Sound power level(outdoor)	Lwa	67	dB(A)
	Global warming potential	GWP	675	kgCO₂€
	Rated air flow(indoor)	-	780	m³/h
	Rated air flow(outdoor)	-	6000	m ³ /h
of the manufact	turer or of its authorised representative			
dustries Air-Cor	nditioning Europe, Ltd.			
kley Park, Uxbri	idge, Middlesex, UB11 1ET,			
1	e mode' 20 W 20 W 15 W 40 W 5 W	Degradation coefficient heating e mode' 20 W	Degradation coefficient heating Cdh e mode' 20 W Annual electricity consumption cooling Qce heating / Average Annual electricity consumption cooling Qce heating / Average Annual electricity consumption cooling Qce heating / Average Annual electricity consumption Cooling Qce heating / Average Annual electricity consumption Qce Potential Annual electricity consumption Cooling Annual electricity consumption Cooling Potential Annual electricity consumption Cooling Potential Annual electricity consumption Cooling Potential Annual electricity consumption Cooling Potential Annual electricity consumption Cooling Potential Annual electricity consumption Cooling Potential Annual electricity consumption Cooling Potential Potential Annual electricity consumption Cooling Potential Potent	Degradation coefficient heating Cdh 0.25 e mode' 20 W Annual electricity consumption cooling Average Annual electricity consumption cooling Average Annual electricity consumption cooling Average Annual electricity consumption cooling Average Annual electricity consumption cooling Average Annual electricity consumption Average Annual electricity consumption Cooling Average Annual electricity consumption Cooling Annual electricity consumption Cooling Average Annual electricity consumption Cooling Annual electricity consumption Cooling Annual electricity consumption Cooling Average Annual electricity consumption Cooling Average Annual electricity consumption Cooling Annual electricity consumption Cooling Annual electricity consumption Cooling Annual electricity consumption Cooling Annual electricity consumption Cooling Average Annual electricity consumption Cooling Annual electricity consumption Cooling Average Annual electricity consumption Cooling Average Annual electricity consumption Cooling Average Annual electricity consumption Cooling Average Annual electricity consumption Cooling Average Annual electricity consumption Cooling Average Annual electricity consumption Cooling Average Annual electricity consumption Cooling Average Annual electricity consumption Cooling Average Annual electricity consumption Cooling Average Annual electricity consumption Cooling Average Annual electricity consumption Cooling Annual electricity consumption Cooling Annual electricity consumption Cooling Annual electricity consumption Cooling Annual electricity consumption Cooling Annual electricity consumption Cooling Annual electricity consumption Cooling Annual electricity consumption Cooling Annual electricity Cooling Annual electricity Cooling Annual electricity Cooling Annual electricity Cooling Annual electricity Cooling Annual electricity Cooling Annual electricity Cooling Annual electricity Cooling Annual electricity Cooling Annual electricity Cooling Annual electricity Cooling Annual electricity Cooling Annual electricit

Model FDTC125VNXWPVH

Model(a): EDC125\/N\Y\W	/ EDTC60\/L	(v2 unita)						
Model(s): FDC125VNX-W								
Outdoor side heat exchanger of air co		air						
Indoor side heat exchanger of air cor Type: vapour compression	iditioner.	air						
if applicable : electric motor								
					0 1			
Item Paradian and it	Symbol	Value	Unit	Item	Symbo		Value	Unit
Rated cooling capacity	Prated,c	12.5	kW	Seasonal space efficiency ηs,c	cooling ene	rgy	314.9	%
Declared cooling capacity for part loa	ad at given ou	itdoor temp	peratures	Declared energy	v efficiency ra	atio or gas utilizat	ion efficiency /	
Tj and indoor 27°C/19°C(dry/wet bulb	_			0.		rt load at given o	•	tures Tj
Tj=+35°C	Pdc	12.5	kW	Tj=+35°C	EERd or GUEc,bir	n / AEFc,bin	350.0	%
Tj=+30°C	Pdc	9.2	kW	Tj=+30°C	EERd or		560.0	%
Tj=+25°C	Pdc	5.9	kW	Tj=+25°C	EERd or GUEc,bir	n / AEFc,bin	880.0	%
Tj=+20°C	Pdc	3.5	kW	Tj=+20°C	EERd or GUEc,bir	n / AEFc,bin	1990.0	%
Degradation								
coefficient for	Cdc	0.25	-					
air conditioners**]					
Power consumpiton in other than 'act	tive mode'							
Off mode	P_{OFF}	0.015	kW	Crankcase heat	er mode	P _{CK}	0.005	kW
Thermostat-off mode	P _{TO}	0.000	kW	Standby mode		P_SB	0.015	kW
Other items				For air to air air				
Capacity control		variable]	For air-to-air air air flow-rate,out		ed	6000	m³/h
Sound power level, outdoor	L_{WA}	68.0	dB					
If engine driven: Emissions of nitrogen oxides	NOx ***	-	mg/kWh fuel input GCV					
GWP of the refrigerant		675	kg CO₂eq. (100years)					
Contact details Mitsub	oishi heavy in	dustries the	ermal syste	ms,LTD				
** If Cdc is not determined by measur	-		•		nditioners sh	nall be 0,25.		
*** from 26 September 2018			-					

Where information relates to multi-spilt air conditioners, the test result and performance data be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.

Information to identify the model(s) to	which the inform	ation relates :	F	FDC125VNX-W / FD	TC60VH (x2 units)		
Outdoor side heat exchanger of heat			<u>'</u>	D0123V14X-VV / 1 D	71000111 (XZ dilit3)		
Indoor side heat exchanger of heat p		air					
		air	No				
Indication if the heater is equipped wi if applicable : electric motor	пта зиррієттента	ily lieater .	140	,			
Parameters shall be declared for the	average heating	season parameters	for the warm	or and colder heatin	a seasons are ontional		
						\/-l	1.1-3
Item Parties and a site	Symbol	Value Unit		tem	Symbol	Value	Unit
Rated heating capacity	Prated,h	14.0 kW		seasonal space nea	ting energy efficiency ηs,h	168.8	%
Declared heating capacity for part loa and outdoor temperature Tj	d at indoor tempe	erature 20°C			of performance or gas utilization or for part load at given outdoor		s Tj
T _j =-7°C	Pdh	10.1 kW		Γ _j =-7°C	COPd or	270.0	%
T _j =+2°C	Pdh	6.1 kW		Γ _j =+2°C	GUEh,bin / AEFh,bin COPd or	400.0	%
T _j =+7°C	Pdh	4.0 kW		Γ _j =+7°C	GUEh,bin / AEFh,bin COPd or	610.0	%
T _j =+12°C	Pdh	2.9 kW		Γ _j =+12°C	GUEh,bin / AEFh,bin COPd or GUEh,bin / AEFh,bin	800.0	%
T _{blv} =bivalent temperature	Pdh	11.4 kW	1	Γ _{biv} =bivalent emperature	COPd or GUEh,bin / AEFh,bin	200.0	%
T _{OL} =operation limit	Pdh	10.0 kW		Γ _{OL} =operation limit	COPd or GUEh,bin / AEFh,bin	190.0	%
For air-to-water heat pumps : T _j =-15°C	Pdh	- kW		For air-to-water heat oumps:T _j =-15°C		-	%
(if T _{OL} <-20°C)	·			if T _{OL} <-20°C)			1
Bivalent temperature	T _{biv}	-10.0 ℃		For water-to-air heat numps:Operation lim		-	°C
Degradation				Γ _{ol} temperature]
coefficient heat pumps**	C _{dh}	0.25					
Power consumpiton in modes other to Off mode Thermostat-off mode Crankcase heater mode	nan 'active mode' P _{OFF} P _{TO} P _{CK}	0.015 kW 0.020 kW 0.005 kW	1	Supplementary heate pack-up heating caps Fype of energy input Standby mode	acity	0.015	kw kw
Other items				Standay mode			J
Capacity control	[variable		For air-to-air heat pu air flow-rate,outdoor	·	6000	m³/h
Sound power level, outdoor measured	L _{WA}	70.0 dB	F	For water-/brine-to-a Rated brine or water outdoor side heat ex	fiow-rate,	-	m³/h
Emissions of nitrogen oxides(if applicable)	NOx ***	mg/kWh fuel input GCV					
GWP of the refrigerant		kg CO ₂ eq. (100years)					
Contact details Mits ** If Cdh is not determined by measu *** from 26 September 2018 Where information relates to multi-sp of the outdoor unit, with a combinatio	rement then the c	s,the test result and p	pefficient air of	data be obtained on			

Model FDTC125VSXWPVH

Madala) - EDC405VOV	M / EDT000///	(O:t)					
	N / FDTC60VH						
Outdoor side heat exchanger of air		air					
Indoor side heat exchanger of air c	onditioner:	air					
Type: vapour compression							
if applicable : electric motor							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	Prated,c	12.5	kW	Seasonal space	e cooling energy	314.9	%
Declared cooling capacity for part I Tj and indoor 27°C/19°C(dry/wet bu	•	door temp	peratures		gy efficiency ratio or gas utiliza y factor for part load at given o	-	
Tj=+35°C	Pdc	12.5	kW	Tj=+35°C	EERd or	350.0	%
Tj=+30°C	Pdc	9.2	kW	Tj=+30°C	GUEc,bin / AEFc,bin EERd or GUEc,bin / AEFc,bin	560.0	%
Tj=+25°C	Pdc	5.9	kW	Tj=+25°C	EERd or GUEc,bin / AEFc,bin	880.0	%
Tj=+20°C	Pdc	3.5]kW]	Tj=+20°C	EERd or GUEc,bin / AEFc,bin	1990.0	%
Degradation	0.1	0.25					
coefficient for air conditioners**	Cdc	0.23]-				
Power consumpiton in other than 'a Off mode Thermostat-off mode	P _{OFF}	0.015 0.000	kW kW	Crankcase hea Standby mode	ater mode P_{CK} P_{SB}	0.005 0.015	kW kW
Other items							
apacity control variable		For air-to-air air air flow-rate,ou	r conditioner: tdoor measured	6000	m³/h		
Sound power level, outdoor	L_{WA}	68.0	dB				
If engine driven: Emissions of nitrogen oxides	NOx ***	-	mg/kWh fuel input GCV				
GWP of the refrigerant		675	kg CO ₂ eq. (100years)				
Contact details Mits	ubishi heavy ind	lustries th	ermal syste	ms,LTD			
** If Cdc is not determined by meas	surement then th	ne default	degradatio	n coefficient air c	onditioners shall be 0,25.		
*** from 26 September 2018							
Where information relates to multi-	spilt air condition	ners,the te	est result ar	nd performance d	ata be obtained on the basis	of the performan	ice

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of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.

Information to identify the model(s) to wh	ich the inforn	nation relate	es :		FDC125VSX-W / FD	TC60VH (x2 units)		
Outdoor side heat exchanger of heat pur		air			1001201000 11710	1 GOOVII (XZ uiito)		
Indoor side heat exchanger of heat pump		air						
Indication if the heater is equipped with a				N	10			
if applicable : electric motor		,						
Parameters shall be declared for the ave	rage heating	season , pa	rameters	for the warr	mer and colder heatin	g seasons are optional.		
Item	Symbol		Unit		Item	Symbol	Value	Unit
Rated heating capacity	- Cymbol	Tuiuo	<u> </u>		l	ting energy efficiency ηs,h	7 4140	<u> </u>
a mass resum g superny	Prated,h	14.0	kW				154.3	%
Declared heating capacity for part load a and outdoor temperature Tj	indoor temp	erature 20°0	0			of performance or gas utilization or for part load at given outdoor t		s Tj
T _j =-7°C	Pdh	12.4	kW		T _j =-7°C	COPd or	220.0	%
T _j =+2°C	Pdh	7.5	kW		T _j =+2°C	GUEh,bin / AEFh,bin COPd or GUEh,bin / AEFh,bin	380.0	%
T _j =+7°C	Pdh	4.9	kW		T _j =+7°C	COPd or GUEh,bin / AEFh,bin	550.0	%
T _j =+12°C	Pdh	2.9	kW		T _j =+12°C	COPd or GUEh,bin / AEFh,bin	800.0	%
T _{biv} =bivalent temperature	Pdh	14.0	kW		T _{biv} =bivalent temperature	COPd or GUEh,bin / AEFh,bin	170.0	%
T _{OL} =operation limit	Pdh	10.9	kW		T _{OL} =operation limit	COPd or GUEh,bin / AEFh,bin	170.0	%
For air-to-water heat pumps : T _j =-15°C	Pdh	-	kW		For air-to-water heat pumps:T _j =-15°C		-	%
(if T _{OL} <-20°C)					(if T _{OL} <-20°C)			_
Bivalent temperature	T_biv	-10.0	°C		For water-to-air heat pumps:Operation lim		-	°C
Degradation					T _{ol} temperature]
coefficient	C_{dh}	0.25	-					
Power consumpiton in modes other than Off mode Thermostat-off mode	'active mode P _{OFF} P _{TO}	0.015	kW kW		Supplementary heater back-up heating cap	acity	-	kw
Crankcase heater mode	P _{CK}		kW		Type of energy input	P _{SB}	0.015	kW
Orankease neater mode	ı CK	0.000	KVV		Standby mode			J
Other items				-	For air-to-air heat pu	mps:	6000	m³/h
Capacity control		variable			air flow-rate,outdoor	measured		1
Sound power level,	L_{WA}	70.0	dB		For water-/brine-to-a	ir heat pumps :		l .
outdoor measured					Rated brine or water	fiow-rate,	-	m³/h
					outdoor side heat ex	changer]
Emissions of nitrogen	NOx		mg/kWh					
oxides(if applicable)	***		fuel input GCV					
GWP of the		6/5	kg CO ₂ eq.					
refrigerant			(100years)					
Contact details Mitaubia	hi heava ind	etrice than	nal evete-	e LTD				
Contact details Mitsubis ** If Cdh is not determined by measurem	hi heavy indu				r conditioners shall be	0.25.		
*** from 26 September 2018		_ J.aan dogi		. JJiorit dii		,		
· ·	r conditioner	e the test ro	eult and a	erformance	data he obtained on	the basis of the performance		
Where information relates to multi-spilt air conditioners, the test result and performance data be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.								
o. a.o outdoor ariit, with a combination of	ucor unit(S	, 10001111161	.aca by III	.c manulati	.a.o. o. importer.			

Model FDTC140VNXWT	νп						
Model(s): FDC140VNX-	W / FDTC50VH ((x3 units)					
Outdoor side heat exchanger of air	r conditioner :	air					
Indoor side heat exchanger of air of	conditioner:	air					
Type: vapour compression							
if applicable : electric motor							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	Prated,c	14.0	kW	Seasonal space efficiency ηs,c	e cooling energy	321.4	%
Declared cooling capacity for part	load at given out	door temp	peratures	Declared energ	gy efficiency ratio or gas u	tilization efficiency /	
Tj and indoor 27°C/19°C(dry/wet bu	nlp)			auxiliary energ	y factor for part load at giv	ven outdoor tempera	itures Tj
Tj=+35℃	Pdc	14.0	kW	Tj=+35°C	EERd or GUEc,bin / AEFc,bin	370.0	%
Tj=+30°C	Pdc	10.3	kW	Tj=+30°C	EERd or GUEc,bin / AEFc,bin	560.0	%
Tj=+25°C	Pdc	6.6]kW	Tj=+25°C	EERd or GUEc,bin / AEFc,bin	860.0	%
Tj=+20°C	Pdc [3.6]kW]	Tj=+20°C	EERd or GUEc,bin / AEFc,bin	2180.0	%
Degradation		0.25					
coefficient for air conditioners**	Cdc	0.23					
Power consumpiton in other than 'a	active mode'						
Off mode	P _{OFF}	0.015	kW	Crankcase hea	ater mode P _{CK}	0.005	lkW
Thermostat-off mode	P _{TO}	0.000	kW	Standby mode	P _{SB}	0.015	kW
Other items				For air-to-air ai	r conditioner		 1
Capacity control	[variable]		tdoor measured	6000	m³/h
Sound power level, outdoor	L _{WA}	69.0	dB				
If engine driven: Emissions of nitrogen oxides	NOx ***	-	mg/kWh fuel input GCV				
GWP of the refrigerant		675	kg CO₂eq. (100years)				
Contact details Mits	subishi heavy ind	ustries the	ermal syste	ms,LTD			
** If Cdc is not determined by mea					onditioners shall be 0,25.		
*** from 26 September 2018							
Where information relates to multi-	-spilt air conditior	ners,the te	est result ar	nd performance d	lata be obtained on the ba	sis of the performar	nce
of the outdoor unit, with a combina							

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Information to identify the model(s) to whi	ch the inform	nation relate	es :		FDC140VNX-W / FD	OTC50VH (x3 units)		
Outdoor side heat exchanger of heat pur		air			1501400100 00715	7 GOOVII (XO UIIIO)		
Indoor side heat exchanger of heat pump		air						
Indication if the heater is equipped with a				N	10			
if applicable : electric motor	очрысти	,						
Parameters shall be declared for the aver	age heating	season , pa	arameters	for the warr	mer and colder heatin	g seasons are optional.		
Item	Symbol		Unit		Item	Symbol	Value	Unit
Rated heating capacity	0,50.	Value	01		l	ting energy efficiency ηs,h	7 4.40	<u> </u>
	Prated,h	16.0	kW				191.3	%
Declared heating capacity for part load at and outdoor temperature Tj	indoor temp	erature 20°	С			of performance or gas utilization or for part load at given outdoor t		s Tj
T _j =-7°C	Pdh	11.5	kW		T _j =-7°C	COPd or	310.0	%
T _j =+2°C	Pdh	7.0	kW		T _j =+2°C	GUEh,bin / AEFh,bin COPd or GUEh,bin / AEFh,bin	450.0	%
T _j =+7°C	Pdh	4.5	kW		T _j =+7°C	COPd or GUEh,bin / AEFh,bin	690.0	%
T _j =+12°C	Pdh	2.8	kW		T _j =+12°C	COPd or GUEh,bin / AEFh,bin	880.0	%
T _{biv} =bivalent temperature	Pdh	13.0	kW		T _{biv} =bivalent temperature	COPd or GUEh,bin / AEFh,bin	230.0	%
T _{OL} =operation limit	Pdh	10.3	kW		T _{OL} =operation limit	COPd or GUEh,bin / AEFh,bin	220.0	%
For air-to-water heat pumps : T_j =-15°C	Pdh	-	kW		For air-to-water heat pumps:T _j =-15°C		-	%
(if T _{OL} <-20°C)					(if T _{OL} <-20°C)			_
Bivalent temperature	T _{biv}	-10.0	°C		For water-to-air heat pumps:Operation lim		-	°C
Degradation					T _{ol} temperature]
coefficient heat pumps**	C_{dh}	0.25	-					
Power consumpiton in modes other than	active mode	,			Supplementary heate back-up heating cap:	eibu	-	kW
Off mode	P_{OFF}	0.015	kW				_	7
Thermostat-off mode	P_{TO}	0.020	kW		Type of energy input	P _{SB}	0.015	kW
Crankcase heater mode	P _{CK}	0.005	kW		Standby mode	35]
Other items					For air-to-air heat pu	imps:	6000	ma 3 //a
Capacity control		variable			air flow-rate,outdoor	measured	6000	m³/h
Sound power level, outdoor measured	L_WA	71.0	dB		For water-/brine-to-a Rated brine or water		-	m³/h
			1		outdoor side heat ex	changer		J
Emissions of nitrogen oxides(if applicable)	NOx ***	-	mg/kWh fuel input GCV					
GWP of the		675	kg CO ₂ eq.					
refrigerant			(100years)					
Contact details Mitsubisl ** If Cdh is not determined by measureme	ni heavy indu				r conditioners shall be	± 0.25.		
*** from 26 September 2018	a lon tile t	_ J.a.un uogi		. JJiorit dii		,		
Where information relates to multi-spilt air	r conditioner	s the test re	a has three	erformance	data he ohtained on	the hasis of the performance		
of the outdoor unit, with a combination of						the basis of the performance		

Model FDTC140VSXWTVH

Modelibiciaovskyvivii								
Model(s): FDC140VSX-W /		I (x3 units)						
Outdoor side heat exchanger of air cor		air						
Indoor side heat exchanger of air cond	itioner :	air						
Type: vapour compression								
if applicable : electric motor								
Item	Symbol	Value	Unit	Item	Symbol		Value	Unit
Rated cooling capacity	Prated,c	14.0	kW	Seasonal space of efficiency ηs,c	cooling ener	gy	321.4	%
Declared cooling capacity for part load	at given ou	utdoor temp	peratures		•	tio or gas utilization e	•	
Tj and indoor 27°C/19°C(dry/wet bulb)				auxiliary energy fa	actor for par	t load at given outdoo	or tempera	tures Ij
Tj=+35°C	Pdc	14.0	kW	Tj=+35°C	EERd or	/ AEFc,bin	370.0	%
Tj=+30°C	Pdc	10.3	kW	Tj=+30°C	EERd or	/ AEFc,bin	560.0	%
Tj=+25°C	Pdc	6.6	kW	Tj=+25°C	EERd or GUEc,bin	/ AEFc,bin	860.0	%
Tj=+20°C	Pdc	3.6	kW	Tj=+20°C	EERd or GUEc,bin	/ AEFc,bin	2180.0	%
Degradation								
coefficient for air conditioners**	Cdc	0.25	-					
Power consumpiton in other than 'activ	re mode'							
Off mode	P_{OFF}	0.015	kW	Crankcase heater	r mode	P _{CK}	0.005	kW
Thermostat-off mode	P _{TO}	0.000	kW	Standby mode		P_SB	0.015	kW
Other items]
Capacity control		variable		For air-to-air air c		ed	6000	m³/h
Sound power level, outdoor	L_{WA}	69.0	dB					
If engine driven: Emissions of nitrogen oxides	NOx ***	-	mg/kWh fuel input GCV					
GWP of the refrigerant		675	kg CO₂eq. (100years)					
Contact details Mitsubis	shi heavy in	dustries the	ermal syste	ms,LTD				
** If Cdc is not determined by measure	ment then	the default	degradation	n coefficient air con	ditioners sh	all be 0,25.		
*** from 26 September 2018								
Where information relates to multi-spil	t air condition	oners,the te	est result an	d performance data	a be obtaine	d on the basis of the	performar	ice

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of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.

Information to identify the model(s) to	o which the inform	nation relates :		FDC140VSX-W / FD	OTC50VH (x3 units)		
Outdoor side heat exchanger of heat		air		TBOTHOVOX WITE	or coover (xo dinto)		
Indoor side heat exchanger of heat p		air					
Indication if the heater is equipped w			1	No			
if applicable : electric motor		,					
Parameters shall be declared for the	average heating	season, parameters	for the war	mer and colder heatir	ng seasons are optional.		
Item	Symbol	Value Unit		Item	Symbol	Value	Unit
Rated heating capacity	0,50.	Value Olik			ating energy efficiency ηs,h	7 4.40	<u> </u>
a manage of passing	Prated,h	16.0 kW				183.5	%
Declared heating capacity for part loa and outdoor temperature Tj	ad at indoor tempe	erature 20°C			of performance or gas utilization or for part load at given outdoor		s Tj
T _j =-7°C	Pdh	13.7 kW		T _j =-7°C	COPd or	280.0	%
T _j =+2°C	Pdh	8.4 kW		T _j =+2°C	GUEh,bin / AEFh,bin COPd or GUEh,bin / AEFh,bin	440.0	%
T _j =+7°C	Pdh	5.4 kW		T _j =+7°C	COPd or GUEh,bin / AEFh,bin	650.0	%
T _j =+12°C	Pdh	2.8 kW		T _j =+12°C	COPd or GUEh,bin / AEFh,bin	880.0	%
T _{blv} =bivalent temperature	Pdh	15.5 kW		T _{biv} =bivalent temperature	COPd or GUEh,bin / AEFh,bin	230.0	%
T _{OL} =operation limit	Pdh	11.9 kW		T _{OL} =operation limit	COPd or GUEh,bin / AEFh,bin	210.0	%
For air-to-water heat pumps : T _j =-15°C	Pdh	- kW		For air-to-water hear pumps:T _j =-15°C		-	%
(if T _{OL} <-20°C)				(if T _{OL} <-20°C)			-
Bivalent temperature	T _{biv}	-10.0 ℃		For water-to-air hear pumps:Operation lin		-	°C
Degradation				T _{ol} temperature]
coefficient heat pumps**	C_{dh}	0.25					
Power consumpiton in modes other t Off mode Thermostat-off mode Crankcase heater mode	han 'active mode' P _{OFF} P _{TO} P _{CK}	0.015 kW 0.020 kW 0.005 kW		Supplementary heat back-up heating cap Type of energy input Standby mode	pacity	0.015	kw kw
Other items							
Capacity control		variable		For air-to-air heat pu air flow-rate,outdoor		6000	m³/h
Sound power level, outdoor measured	L _{WA}	71.0 dB		For water-/brine-to-a Rated brine or water outdoor side heat ex	r fiow-rate,	-	m³/h
Emissions of nitrogen oxides(if applicable)	NOx ***	mg/kWh fuel input GCV	t				
GWP of the refrigerant		675 kg CO₂ec (100years					
Contact details Mits ** If Cdh is not determined by measu *** from 26 September 2018 Where information relates to multi-sp of the outdoor unit, with a combination	rement then the conditioners	s,the test result and	coefficient ai	e data be obtained on			

Models FDTC50VH, 60VH

Model(s): FDTC50VH							
Item	Symbol	Vaiue	Unit	Item	Symbol	Vaiue	Unit
Cooling capacity (sensible)	$P_{rated,c}$	3.8	kW	Total electric power input	P_{elec}	0.050	kW
Cooling capacity (latent)	P _{rated,c}	1.2	kW	Sound power level (per speed setting,if applicable)	L_{WA}	59.0	dB
Heating capacity	$P_{\text{rated},h}$	5.4	kW				
Contact details	Mitsubishi	heavy ind	ustries ther	mal systems,LTD			

Model(s): FDTC60VH							
Item	Symbol	Vaiue	Unit	Item	Symbol	Vaiue	Unit
Cooling capacity (sensible)	$P_{rated,c}$	3.9	kW	Total electric power input	P _{elec}	0.060	kW
Cooling capacity (latent)	$P_{rated,c}$	1.7	kW	Sound power level (per speed setting,if applicable)	L _{WA}	60.0	dB
Heating capacity	$P_{rated,h}$	6.7	kW				
Contact details	Mitsubishi I	heavy ind	ustries the	rmal systems,LTD			

(3) Duct connected-High static pressure type (FDU)

Model FDU100VNXWVH

Information to identify the model(s) to Indoor unit model name Outdoor unit model name	FDU100VI	Н	relates to:	o: If function includes heating: Indicate the heating season the information relates to. Indicated values should relate to one heating season at a time. Include at least the heating season			verage'.
Function(indicate if present)	Yes			Average(mandatory) Warmer(if designated)	Yes No		
cooling heating	Yes			Colder(if designated)	No		
tem	symbol	value	unit	Item	symbol	value	class
Design load			_	Seasonal efficiency and energy efficiency	class		
cooling	Pdesigno	10.0	kW	cooling	SEER	6.29	A++
neating / Average neating / Warmer	Pdesignh Pdesignh	11.2	kW kW	heating / Average heating / Warmer	SCOP/A SCOP/W	4.13	A+
neating / Warrier	Pdesignh		kW	heating / Warrier	SCOP/C		-
			1				unit
Declared capacity at outdoor temperat neating / Average (-10°C)	ure Tdesignh Pdh	11.2	lkW	Back up heating capacity at outdoor temper heating / Average (-10°C)	erature Tde elbu	signh 0	kW
neating / Warmer (2°C)	Pdh	- 11.2	kW	heating / Warmer (2°C)	elbu	-	kW
neating / Warrier (2.0)	Pdh	-	kW	heating / Colder (-22°C)	elbu	-	kW
Declared capacity for cooling, at indoo	r tomporatur	27/10\°	Cond	Declared energy efficiency ratio, at indoor	tomporatur	-0.27/10\°C	and
putdoor temperature Tj	i temperature	27(19)	C and	outdoor temperature Tj	temperatur	e 27 (19) C	allu
Γj=35°C	Pdc	10.00	kW	Tj=35°C	EERd	3.86]-
Γj=30°C	Pdc	7.30	kW	Tj=30°C	EERd	5.40]-
Γj=25°C	Pdc	4.70	kW	Tj=25°C	EERd	8.90	վ-
	Pdc	3.20	kW	Tj=20°C	EERd	9.80	-
Declared capacity for heating / Averagemperature 20°C and outdoor temperature		indoor		Declared coefficient of performance / Average temperature 20°C and outdoor temperature		n, at indoo	r
Гj=-7°С	Pdh	9.91	kW	Tj=-7°C	COPd	2.90]-
rj=2°C	Pdh	6.03	kW	Tj=2°C	COPd	3.80]-
Γj=7°C	Pdh	3.88	kW	Tj=7°C	COPd	5.71	<u> </u> -
Гj=12°С	Pdh	2.87	kW	Tj=12°C	COPd	6.70]-
Fi=bivalent temperature	Pdh	11.20 9.10	kW	Tj=bivalent temperature	COPd COPd	2.30	
Fj=operating limit	Pdh	9.10	kW	Tj=operating limit	COPd	2.10	<u> -</u>
Declared capacity for heating / Warme		indoor		Declared coefficient of performance / War		n, at indoor	
emperature 20°C and outdoor tempera Fj=2°C	Pdh		kW	temperature 20°C and outdoor temperature Tj=2°C	e ij COPd		٦_
rj=2°C	Pdh		kW	Ti=7°C	COPd		1_
Γj=12°C	Pdh	-	kW	Ti=12°C	COPd	-	1-
Tj=bivalent temperature	Pdh	-	kW	Tj=bivalent temperature	COPd	-	1-
Tj=operating limit	Pdh	-	kW	Tj=operating limit	COPd	-]-
Declared capacity for heating / Colder emperature 20°C and outdoor temper: Ij=-7°C Ij=-7°C Ij=7°C Ij=12°C Ij=12°C Ij=ivalent temperature Ij=ipoperating limit Ij=-15°C			kW kW kW kW kW kW	Declared coefficient of performance / Cold temperature 20°C and outdoor temperatur Tj=-7°C Tj=2°C Tj=12°C Tj=bivalent temperature Tj=operating limit Ti=-15°C] - - - - - - -
<u>,</u>			1	1 10 10 0	00. 0	<u> </u>	1
Bivalent temperature			70-	Operating limit temperature			70-
neating / Average	Tbiv	-10	°C	heating / Average	Tol	-20	ိင ိင
neating / Warmer neating / Colder	Tbiv Tbiv	-	°C °C	heating / Warmer heating / Colder	Tol Tol	-	°C
-	. 5		<u> </u>			ı	1 -
Cycling interval capacity or cooling	Pcycc	-	kW	Cycling interval efficiency for cooling	EERcyc	-	7-
or heating	Pcych		kW	for heating	COPcyc	-	<u> </u>
Degradation coefficient				Degradation coefficient			
cooling	Cdc	0.25]-	heating	Cdh	0.25]-
Electric power input in power modes of	ther than 'act	ive mode	:']w	Annual electricity consumption cooling	Qce	557	kWh/a
standby mode	Psb	20	W	heating / Average	Qhe	3800	kWh/a
hermostat-off mode	Pto(cooling)	65	w	heating / Warmer	Qhe	-	kWh/a
	Pto(heating)	85	W	heating / colder	Qhe	-	kWh/a
rankcase heater mode	Pck	5	W				
Capacity control(indicate one of three	options)			Other items Sound power level(indoor)	Lwa	65	dB(A)
				Sound power level(outdoor)	Lwa	67	dB(A)
fixed	No			Global warming potential	GWP	675	kgCO ₂
staged	No			Rated air flow(indoor)	-	2,160	m ³ /h
variable	Yes			Rated air flow(outdoor)	-	6,000	m ³ /h
				· · · · · · · · · · · · · · · · · · ·		-,,	
more information Mits	ubishi Heavy	Industrie	s Air-Cond	rer or of its authorised representative. litioning Europe, Ltd. ge, Middlesex, UB11 1ET,			

Model FDU100VSXWVH

Model FDU100VS	KWVH					
nformation to identify the mode	el(s) to which the information re	elates to:	If function includes heating: Indicate t	the heating seas	on the	
ndoor unit model name	FDU100VH		information relates to. Indicated value	es should relate t	to one	
Outdoor unit model name	FDC100VSX-W		heating season at a time. Include at le	east the heating	season 'A	verage'.
	•					
unction(indicate if present)			Average(mandatory)	Yes		
cooling	Yes		Warmer(if designated)	No		
eating	Yes		Colder(if designated)	No		
	ar mak al		14	ar mala al		-1
tem Design load	symbol value	unit	Item Seasonal efficiency and energy efficiency	symbol	value	class
cooling	Pdesignc 10.0	kW	cooling	SEER	6.29	A++
neating / Average		kW	heating / Average	SCOP/A	4.13	A+
neating / Warmer		kW	heating / Warmer	SCOP/W		-
eating / Colder	ŭ	kW	heating / Colder	SCOP/C	-	-
camig / colaci	. doo.g		ag / coluct	000.70		unit
eclared capacity at outdoor to	emperature Tdesignh		Back up heating capacity at outdoor t	temperature Tde	signh	GI III
eating / Average (-10°C)	Pdh 11.2	kW	heating / Average (-10°C)	elbu	0	kW
eating / Warmer (2°C)	Pdh -	kW	heating / Warmer (2°C)	elbu		kW
eating / Colder (-22°C)	Pdh -	kW	heating / Colder (-22°C)	elbu		kW
	<u> </u>					
Declared capacity for cooling, a	at indoor temperature 27(19)°C	and	Declared energy efficiency ratio, at in	door temperature	e 27(19)°0	and
utdoor temperature Tj		_	outdoor temperature Tj			_
"j=35℃	Pdc 10.00	kW	Tj=35°C	EERd	3.86	7-
ïj=30°C	Pdc 7.30	kW	Tj=30℃	EERd	5.40]-
j=25°C		kW	Tj=25°C	EERd	8.90	_ -
'j=20°C	Pdc 3.20	kW	Tj=20°C	EERd	9.80	-
						
Declared capacity for heating /			Declared coefficient of performance /		n, at indoo	r
emperature 20°C and outdoor		1,,,,,	temperature 20°C and outdoor tempe		0.55	7
"j=-7°C		kW	Tj=-7°C	COPd	2.90	⊣ -
j=2°C		kW	Tj=2°C	COPd	3.80	- ⁻
'j=7°C		kW	Tj=7°C	COPd	5.71	- -
j=12°C		kW	Tj=12°C	COPd	6.70	- -
j=bivalent temperature		kW	Tj=bivalent temperature	COPd	2.30	4-
j=operating limit	Pdh 9.10	kW	Tj=operating limit	COPd	2.10	-
Declared capacity for heating /	Warmer season, at indeer		Declared coefficient of performance /	Warmer season	at indoo	r
emperature 20°C and outdoor			temperature 20°C and outdoor tempe		i, at illuoo	ı
j=2°C		kW	Ti=2°C	COPd		7.
j=2°C		kW	Ti=7°C	COPd		- -
j=12°C		kW	Ti=12°C	COPd	-	┨
j=bivalent temperature		kW	Tj=bivalent temperature	COPd	-	┨
j=operating limit	Pdh -	kW	Tj=operating limit	COPd	-	┥_
) operating mine			-1 -be-ming min			1
Declared capacity for heating /	Colder season, at indoor		Declared coefficient of performance /	Colder season,	at indoor	
emperature 20°C and outdoor			temperature 20°C and outdoor tempe			
Γj=-7°C	Pdh -	kW	Tj=-7°C	COPd	-	7-
Γj=2°C	Pdh -	kW	Tj=2°C	COPd	-	7-
j=7°C	Pdh -	kW	Tj=7°C	COPd	-	1 -
	Pdh -	kW	Tj=12°C	COPd	-	1 -
j=bivalent temperature	Pdh -	kW	Tj=bivalent temperature	COPd	-	1 -
j=operating limit	Pdh -	kW	Tj=operating limit	COPd	-	1-
- j=-15°C	Pdh -	kW	Tj=-15°C	COPd	-	1-
-	<u> </u>					
Sivalent temperature			Operating limit temperature			_
eating / Average	Tbiv -10	°C	heating / Average	Tol	-20	°C
eating / Warmer	Tbiv -	°C	heating / Warmer	Tol	-	°C
eating / Colder	Tbiv -	°C	heating / Colder	Tol	-	°C
cycling interval capacity	_	1	Cycling interval efficiency			7
or cooling	Pcycc -	kW	for cooling	EERcyc	-	վ-
or heating	Pcych -	kW	for heating	COPcyc	-	<u> </u> -
Name de line and 600 in 1			Demodetics and #111			
egradation coefficient	Cdo 0.05	,	Degradation coefficient	Cdb	0.05	٦
ooling	Cdc 0.25	<u> -</u>	heating	Cdh	0.25	1-
lectric nower input in news-	nodes other than 'active mode'		Annual electricity consumption			
ff mode	Poff 20	lw	cooling	Qce	557	kWh/a
tandby mode		W	heating / Average	Qhe	3800	kWh/a
nermostat-off mode	Pto(cooling) 65	w	heating / Warmer	Qhe	-	kWh/a
otat on modo	Pto(heating) 85	w	heating / volumer	Qhe		kWh/a
rankcase heater mode	Pck 5	w		QIIO	l .	u
.atodoo nodioi mode	i on J	1				
Capacity control(indicate one of	f three options)		Other items			
ar son, someonialoute one o			Sound power level(indoor)	Lwa	65	dB(A)
			Sound power level(outdoor)	Lwa	67	dB(A)
fixed	No		Global warming potential	GWP	675	kgCO ₂ e
			• •			
staged	No		Rated air flow(indoor)	-	2,160	m ³ /h
	Yes		Rated air flow(outdoor)	-	6,000	m ³ /h
variable						
variable contact details for obtaining	Name and address of the m	nanufacture	er or of its authorised representative.			
	Name and address of the m Mitsubishi Heavy Industries					
ontact details for obtaining		s Air-Condi	tioning Europe, Ltd.			

Model FDU125VNXWVH

Model(s): FDC125VNX-W	/ FDU125VH	1					
Outdoor side heat exchanger of ai	r conditioner :	air					
Indoor side heat exchanger of air	conditioner :	air					
Type: vapour compression							
if applicable : electric mot	or						
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity				Seasonal space	cooling energy		
	Prated,c	12.5	kW	efficiency ηs,c		241.1	%
Declared cooling capacity for part	load at given outdoor	temperatu	ires	Declared energy	y efficiency ratio or gas utilization	efficiency /	
Tj and indoor 27°C/19°C(dry/wet bi	ulb)			auxiliary energy	factor for part load at given outdo	oor temperatures	Tj
			٦				1
Tj=+35°C	Pdc	12.5	kW	Tj=+35°C	EERd or	358.0	%
T: +00°0	D4-	0.0	الممر		GUEc,bin / AEFc,bin		-
Tj=+30°C	Pdc	9.2	kW	Tj=+30°C	EERd or	520.0	%
Ti-125°C	Pdc	5.9	kW		GUEc,bin / AEFc,bin		-
Tj=+25°C	Puc	5.5	KVV	Tj=+25°C	EERd or	740.0	%
Tj=+20°C	Pdc	3.3	kW	T:	GUEc,bin / AEFc,bin		-
1]-+20 0	i de	3.3	IKVV	Tj=+20°C	EERd or	940.0	%
Degradation			7		GUEc,bin / AEFc,bin		J
Degradation coefficient for	Cdc	0.25					
air conditioners**	Cuc		-				
all conditioners			_				
Power consumpiton in other than '	active mode'						
'							
Off mode	P_{OFF}	0.020	kW	Crankcase heat	er mode P _{CK}	0.005	kW
Thermostat-off mode	P_{TO}	0.075	kW	Standby mode	P_{SB}	0.020	kW
Other items							1
			7	For air-to-air air	conditioner:	6000	m³/h
Capacity control		variable		air flow-rate,out	door measured]
			٦				
Sound power level,	L_WA	68.0	dB				
outdoor							
			٦				
If engine driven:	NOx	_	mg/kWh				
Emissions of nitrogen	***	_	fuel input				
oxides			GCV				
GWP of the			kg CO₂eq.				
refrigerant		675	(100years)				
Tonigorant			_				
Contact details	Mitsubishi heavy indu	stries then	mal systems,	LTD			
** If Cdc is not determined by mea	surement then the de	fault degra	adation coeffi	cient air conditione	ers shall be 0,25.		
*** from 26 September 2018							
Where information relates to multi-	-spilt air conditioners,	the test res	sult and perfo	rmance data be o	btained on the basis of the perfor	mance	
of the outdoor unit, with a combina	ation of indoor unit(s)	ecommen	ded by the m	anufacturer or imp	porter.		

formation to identify the model(s) to	which the informa	tion relates	:: F	DC125VNX-W	FDU125VH		
utdoor side heat exchanger of heat	oump :	air					
door side heat exchanger of heat pu	imp :	air					
dication if the heater is equipped wi	th a supplementar			No			
applicable : electric motor							
arameters shall be declared for the	average heating so	eason , par	ameters for the	ne warmer and colder he	ating seasons are optional.		
em	Symbol	Value	Unit	Item	Symbol	Value	Unit
ated heating capacity	Cymbol	Value	Offic		ng energy efficiency ηs,h	Value	OTILL
ated fleating capacity	Prated,h	14.0	kW	Geasonal space neath	ig energy emoleticy rps,ii	159.4	%
eclared heating capacity for part loa	d at indoor tempe	rature 20°C		Declared coefficient of	performance or gas utilizatio	n efficiency /	
nd outdoor temperature Tj					for part load at given outdoor		s Tj
T _j =-7°C	Pdh	10.1	kW	T _j =-7°C	COPd or GUEh,bin / AEFh,bin	290.0	%
T _j =+2°C	Pdh	6.1	kW	T _j =+2°C	COPd or GUEh,bin / AEFh,bin	380.0	%
T _j =+7°C	Pdh	4.0	kW	T _j =+7°C	COPd or GUEh,bin / AEFh,bin	550.0	%
T _j =+12°C	Pdh	2.9	kW	T _j =+12°C	COPd or GUEh,bin / AEFh,bin	610.0	%
T _{biv} =bivalent temperature	Pdh	11.4	kW	T _{biv} =bivalent temperature	COPd or GUEh,bin / AEFh,bin	220.0	%
T _{OL} =operation limit	Pdh	10.0	kW	T _{OL} =operation limit	COPd or GUEh,bin / AEFh,bin	210.0	%
For air-to-water heat pumps : T_j =-15°C	Pdh	-	kW	For air-to-water hea pumps:T _j =-15°C	at COPd or GUEh,bin / AEFh,bin	-	%
(if T_{OL} <-20°C)				(if T _{OL} <-20°C)			-
Bivalent temperature	T_{biv}	-10.0	°C	For water-to-air hea		_	°C
Degradation				T _{ol} temperature			
coefficient	C_{dh}	0.25	-				•
heat pumps**							1
ower consumpiton in modes other th		0.000	1	Supplementary hea back-up heating cap	eibu	_	kW
Off mode	P _{OFF}	0.020	kW				1
Thermostat-off mode	P _{TO}	0.095	kW	Type of energy inpu	ıt P _{SB}	0.020	kW
Crankcase heater mode	P _{CK}	0.005	kW	Standby mode]
ther items							1
Capacity control		variable]	For air-to-air heat p	•	6000	m ³ /h
Cound name of the last			1	Faculties 2 1	ala ba at aurore -		1
Sound power level,	L_{WA}	70.0	dB	For water-/brine-to-		_	m³/h
outdoor measured			J	Rated brine or water			111 /11
Emissions of nitrogen oxides(if applicable)	NOx ***	_	mg/kWh fuel input	outdoor side heat e	xchanger]
wP of the refrigerant ontact details Mits If Cdh is not determined by measur from 26 September 2018 There information relates to multi-sp the outdoor unit, with a combination	It air conditioners,	fault degra	dation coeffice	ient air conditioners sha		nce	

Model FDU125VSXWVH

Model(s): FDC125VSX-W	/ FDU125VH	1					
Outdoor side heat exchanger of air	conditioner :	air					
Indoor side heat exchanger of air c	onditioner :	air					
Type: vapour compression							
if applicable : electric moto	or						
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity				Seasonal space	e cooling energy		
	Prated,c	12.5	kW	efficiency ηs,c		241.1	%
Declared cooling capacity for part le	=	temperatui	res		y efficiency ratio or gas utilization	-	
Tj and indoor 27°C/19°C(dry/wet bu	ılb)			auxiliary energy	factor for part load at given outdo	or temperatures	Гј
Ti-125°C	Pdc	12.5	kW				1
Tj=+35°C	Fuc	12.5	IVAA	Tj=+35℃	EERd or	358.0	%
Tj=+30°C	Pdc	9.2	kW	T: .00°C	GUEc,bin / AEFc,bin		
1, 100 0	1 40	0.2]	Tj=+30°C	EERd or	520.0	%
Tj=+25°C	Pdc	5.9	kW	Tj=+25°C	GUEc,bin / AEFc,bin EERd or		
,			1	1]=+25 C	GUEc,bin / AEFc,bin	740.0	%
Tj=+20°C	Pdc	3.3	kW	Tj=+20°C	EERd or		
			1	1, 1200	GUEc,bin / AEFc,bin	940.0	%
Degradation			1		3023,3, 7.2. 3,3		ı
coefficient for	Cdc	0.25	-				
air conditioners**							
			_				
Power consumpiton in other than 'a	active mode'						
			7				1
Off mode	P _{OFF}	0.020	kW	Crankcase heat	ter mode P _{CK}	0.005	kW
Thermostat-off mode	P_{TO}	0.075	kW	Standby mode	P_{SB}	0.020	kW
Other items							1
Capacity control		variable	1	For air-to-air air		6000	m³/h
oupdoity control		Variable	J	air flow-rate,out	door measured		J
Cound navor lovel			1				
Sound power level, outdoor	L_{WA}	68.0	dB				
outdoor			1				
If engine driven:			mg/kWh				
Emissions of nitrogen	NOx ***	-	fuel input				
oxides			GCV				
			_				
GWP of the		675	kg CO₂eq.				
refrigerant		0/0	(100years)				
ı							
	Mitsubishi heavy indu						
** If Cdc is not determined by meas	surement then the de	tault degra	dation coeffi	cient air conditione	ers shall be 0,25.		
*** from 26 September 2018							
Where information relates to multi-						mance	
of the outdoor unit, with a combinat	tion of indoor unit(s) r	ecommend	ded by the m	anufacturer or imp	porter.		

nformation to identify the model(s) to w	hich the informa	tion relates	i: F	DC125VSX-W	FDU125VH		
Outdoor side heat exchanger of heat pu	imp :	air					
door side heat exchanger of heat pun	np:	air					
dication if the heater is equipped with	a supplementar	y heater :		No			
applicable: electric motor							
arameters shall be declared for the av	erage heating se	eason , par	ameters for th	ne warmer and colder he	eating seasons are optional.		
em	Symbol	Value	Unit	Item	Symbol	Value	Unit
ated heating capacity					ng energy efficiency ηs,h		
	Prated,h	14.0	kW		,gg,, - ₁ ,	153.7	%
eclared heating capacity for part load	at indoor temper	rature 20°C		Declared coefficient of	performance or gas utilization	on efficiency /	
d outdoor temperature Tj					for part load at given outdoo		s Tj
T _j =-7°C	Pdh	12.4	kW	T _j =-7°C	COPd or GUEh,bin / AEFh,bin	270.0	%
T _j =+2°C	Pdh	7.5	kW	T _j =+2°C	COPd or GUEh,bin / AEFh,bin	370.0	%
T _j =+7°C	Pdh	4.9	kW	T _j =+7°C	COPd or GUEh,bin / AEFh,bin	520.0	%
T _j =+12°C	Pdh	2.9	kW	T _j =+12°C	COPd or GUEh,bin / AEFh,bin	610.0	%
T _{biv} =bivalent temperature	Pdh	14.0	kW	T _{biv} =bivalent temperature	COPd or GUEh,bin / AEFh,bin	220.0	%
T _{OL} =operation limit	Pdh	10.9	kW	T _{OL} =operation limit		200.0	%
For air-to-water heat pumps : T _i =-15°C	Pdh	-	kW	For air-to-water hea	**	-	%
(if T _{OL} <-20°C)				(if T _{OL} <-20°C)	0021,011771211,011		J
Bivalent temperature	T_biv	-10.0]℃	For water-to-air hea		_	°C
Degradation			1	T _{ol} temperature			
coefficient	C_{dh}	0.25		J			J
heat pumps**]				
ower consumpiton in modes other tha	n 'active mode'			Supplementary hea	eibu	_	kW
Off mode	P _{OFF}	0.020	kW				
Thermostat-off mode	P _{TO}	0.095	kW	Type of energy inpu	ıt n	0.000	
Crankcase heater mode	P _{CK}	0.005	kW	Standby mode	P _{SB}	0.020	kW
			1	Otanaby mode			
ther items				For air-to-air heat p	umps:	6000	m³/h
Capacity control		variable]	air flow-rate,outdoo	r measured	0000]"" /""
Sound power level,	1	70.0	dB	For water-/brine-to-	air heat pumps :		
outdoor measured	L_{WA}	70.0	UD.	Rated brine or water		_	m³/h
			-	outdoor side heat e			
Emissions of nitrogen oxides(if applicable)	NOx ***	-	mg/kWh fuel input GCV				•
WP of the refrigerant		675	kg CO ₂ eq. (100years)				
	bishi heavy indu				II bo 0 25		
If Cdh is not determined by measurer * from 26 September 2018	nent then the de	iauit degra	uation coeffic	eril air conditioners sha	II De U,25.		
the outdoor unit, with a combination of					d on the basis of the performa	ance	

Model FDU140VNXWVH

Model(s): FDC140VNX-W	/ FDU140VH	1					
Outdoor side heat exchanger of air co	onditioner :	air					
Indoor side heat exchanger of air con	iditioner:	air					
Type: vapour compression							
if applicable : electric motor							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity				Seasonal space	cooling energy		
	Prated,c	14.0	kW	efficiency ηs,c		228.7	%
Declared cooling capacity for part loa	_	temperatur	res	-	y efficiency ratio or gas utilization e	•	
Tj and indoor 27°C/19°C(dry/wet bulb))			auxiliary energy	factor for part load at given outdoo	or temperatures	Гј
T: +05°0	Dda	44.0	1				1
Tj=+35°C	Pdc	14.0	kW	Tj=+35°C	EERd or	332.0	%
Tj=+30°C	Pdc	10.3	kW		GUEc,bin / AEFc,bin		
1]-130 0	i de	10.5	IKVV	Tj=+30°C	EERd or	470.0	%
Tj=+25°C	Pdc	6.6	kW	T:- 125°C	GUEc,bin / AEFc,bin		
., 200	. 40	0.0]	Tj=+25°C	EERd or GUEc.bin / AEFc,bin	700.0	%
Tj=+20°C	Pdc	3.3	kW	Tj=+20°C	EERd or		
,			1	1]-120 0	GUEc,bin / AEFc,bin	930.0	%
Degradation			1		OOLO,DIII ALI O,DIII		ı
coefficient for	Cdc	0.25	-				
air conditioners**							
			_				
Power consumpiton in other than 'act	ive mode'						
			_				
Off mode	P_{OFF}	0.020	kW	Crankcase heat	er mode P _{CK}	0.005	kW
Thermostat-off mode	P_{TO}	0.090	kW	Standby mode	P_{SB}	0.020	kW
Other items							1
Composity control		waniahla	1	For air-to-air air		6000	m³/h
Capacity control		variable	J	air flow-rate,out	door measured		
			1				
Sound power level,	L_WA	69.0	dB				
outdoor			J				
If anging driven:			ma/k/M/b				
If engine driven: Emissions of nitrogen	NOx ***	-	mg/kWh fuel input				
oxides	***		GCV				
OXIG00		Į]001				
GWP of the		075	kg CO₂eq.				
refrigerant		675	(100years)				
			-				
Contact details Mits	subishi heavy indu	stries therm	nal systems,l	TD			
** If Cdc is not determined by measur	rement then the de	fault degra	dation coeffic	cient air condition	ers shall be 0,25.		
*** from 26 September 2018							
Where information relates to multi-sp	ilt air conditioners,	the test res	ult and perfo	rmance data be o	btained on the basis of the perform	nance	
of the outdoor unit, with a combination	n of indoor unit(s) r	recommend	ded by the m	anufacturer or imp	porter.		

Information to identify the model(s) to w	hich the informa	tion relates	i: F	FDC140VNX-W	FDU140VH		
Outdoor side heat exchanger of heat pu		air					
Indoor side heat exchanger of heat pum	p:	air					
Indication if the heater is equipped with				No			
if applicable : electric motor		,					
Parameters shall be declared for the av	erage heating se	eason . par	ameters for the	he warmer and colder he	ating seasons are optiona	l.	
						Value	Linit
Item	Symbol	Value	Unit	Item	Symbol	value	Unit
Rated heating capacity	Prated,h	16.0	kW	Seasonal space neatin	g energy efficiency ηs,h	156.7	%
Declared heating capacity for part load	at indoor temper	rature 20°C		Declared coefficient of	performance or gas utiliza	ation efficiency /	
and outdoor temperature Tj					for part load at given outd		s Tj
T _j =-7°C	Pdh	11.5	kW	T _j =-7°C	COPd or GUEh,bin / AEFh,bin	290.0	%
T _j =+2°C	Pdh	7.0	kW	T _j =+2°C	COPd or GUEh,bin / AEFh,bin	370.0	%
T _j =+7°C	Pdh	4.5	kW	T _j =+7°C	COPd or GUEh,bin / AEFh,bin	540.0	%
T _j =+12°C	Pdh	2.9	kW	T _j =+12°C	COPd or GUEh,bin / AEFh,bin	600.0	%
T _{biv} =bivalent temperature	Pdh	13.0	kW	T _{biv} =bivalent temperature	COPd or GUEh,bin / AEFh,bin	220.0	%
T _{OL} =operation limit	Pdh	10.3	kW	T _{OL} =operation limit		210.0	%
For air-to-water heat pumps : T _i =-15°C	Pdh	-	kW	For air-to-water hea		-	%
(if T _{OL} <-20°C)				(if T _{OL} <-20°C)			1
Bivalent temperature	T_{biv}	-10.0	℃	For water-to-air hea pumps:Operation lir		_	°C
Degradation				T _{ol} temperature			
coefficient	C_{dh}	0.25	-			<u> </u>	=
heat pumps**							 1
Power consumpiton in modes other than		0.000	الممر	Supplementary hear back-up heating cap	CI	bu –	kW
Off mode	P _{OFF}	0.020	kW				1
Thermostat-off mode	P _{TO}	0.110	kW	Type of energy inpu	ıt P	SB 0.020	kW
Crankcase heater mode	P _{CK}	0.005	kW	Standby mode]
Other items							1
Capacity control		variable]	For air-to-air heat p		6000	m ³ /h
			,	II <u> </u>			1
Sound power level,	L_{WA}	71.0	dB	For water-/brine-to-			m³/h
outdoor measured			J	Rated brine or wate	r fiow-rate,	-	m°/n
			ا ا	outdoor side heat ex	xchanger		J
Emissions of nitrogen oxides(if applicable)	NOx ***	_	mg/kWh fuel input GCV				
GWP of the		675	kg CO₂eq.				
refrigerant		010	(100years)				
	pishi heavy indu				l ha 0.25		
** If Cdh is not determined by measurer	nent then the de	Tault degra	dation coeffic	cient air conditioners shal	I DE U,25.		
*** from 26 September 2018							
Where information relates to multi-spilt	air conditioners,	the test res	ult and perfo	rmance data be obtained	on the basis of the perfor	mance	
of the outdoor unit, with a combination of	f indoor unit(s) r	recommend	led by the ma	anufacturer or importer.			

Model FDU140VSXWVH

Model(s): FDC140VSX-W	/ FDU140VF	1					
Outdoor side heat exchanger of ai	r conditioner :	air					
Indoor side heat exchanger of air of	conditioner :	air					
Type: vapour compression							
if applicable : electric mot	or						
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity				Seasonal space	cooling energy		
	Prated,c	14.0	kW	efficiency ηs,c		228.7	%
Declared cooling capacity for part	load at given outdoor	temperatu	res	Declared energy	y efficiency ratio or gas utilization	efficiency /	
Tj and indoor 27°C/19°C(dry/wet bu	ılb)			auxiliary energy	factor for part load at given outdo	oor temperatures	Tj
T. 050-	Б.	44.0	7				1
Tj=+35°C	Pdc	14.0	kW	Tj=+35°C	EERd or	332.0	%
Ti-120°C	Pdc	10.3	الديمر		GUEc,bin / AEFc,bin		-
Tj=+30°C	Puc	10.3	kW	Tj=+30°C	EERd or	470.0	%
Tj=+25°C	Pdc	6.6	kW	T: .05%	GUEc,bin / AEFc,bin		-
1, 1200	1 40	0.0]	Tj=+25℃	EERd or	700.0	%
Tj=+20°C	Pdc	3.3	kW	Tj=+20°C	GUEc,bin / AEFc,bin EERd or		1
,			_	1,-1200	GUEc,bin / AEFc,bin	930.0	%
Degradation			7		GOEG,BITT ALT C,BIT	L	1
coefficient for	Cdc	0.25	_				
air conditioners**							
			_				
Power consumpiton in other than 's	active mode'						
			7				7
Off mode	P _{OFF}	0.020	kW	Crankcase heat	er mode P _{CK}	0.005	kW
Thermostat-off mode	P_{TO}	0.090	kW	Standby mode	P_{SB}	0.020	kW
Other items							1
Capacity control		variable	٦	For air-to-air air		6000	m³/h
Capacity control		variable	_	air flow-rate,out	door measured		J
Cound newer level			7				
Sound power level, outdoor	L_WA	69.0	dB				
outdoor			_				
If engine driven:			mg/kWh				
Emissions of nitrogen	NOx ***	-	fuel input				
oxides			GCV				
			_				
			_				
GWP of the		675	kg CO₂eq.				
refrigerant			(100years)				
Contact details I ** If Cdc is not determined by mea	Mitsubishi heavy indu				are shall be 0.25		
	ourement then the de	iauit uegra	auauon coem	ordin an continunt	513 311dii DE U,ZU.		
*** from 26 September 2018	anilé air an ditien	la a 4a - 4	unit amel C	**************************************	btoined on the bosts of the confi		
Where information relates to multi-						шапсе	
of the outdoor unit, with a combina	mon or muoor unit(s) f	ecommen	ueu ny ine M	anuraciurei oi imp	onel.		

Information to identify the model(s) to w	hich the informa	tion relates	;: F	FDC140VSX-W	FDU140VH		
Outdoor side heat exchanger of heat pu		air					
Indoor side heat exchanger of heat pun		air					
Indication if the heater is equipped with				No			
if applicable : electric motor		,					
Parameters shall be declared for the av	erage heating se	eason , par	ameters for the	he warmer and colder he	ating seasons are optiona	l.	
						Value	Unit
Item	Symbol	Value	Unit	Item	Symbol	value	Unit
Rated heating capacity	Prated,h	16.0	kW	Seasonal space neatin	g energy efficiency ηs,h	152.3	%
Declared heating capacity for part load	at indoor temper	rature 20°C		Declared coefficient of	performance or gas utiliza	ation efficiency /	
and outdoor temperature Tj					for part load at given outd		s Tj
T _j =-7°C	Pdh	13.7	kW	T _j =-7°C	COPd or GUEh,bin / AEFh,bin	263.0	%
T _j =+2°C	Pdh	8.4	kW	T _j =+2°C	COPd or GUEh,bin / AEFh,bin	367.0	%
T _j =+7°C	Pdh	5.4	kW	T _j =+7°C	COPd or GUEh,bin / AEFh,bin	519.0	%
T _j =+12°C	Pdh	2.9	kW	T _j =+12°C	COPd or GUEh,bin / AEFh,bin	600.0	%
T _{biv} =bivalent temperature	Pdh	15.5	kW	T _{biv} =bivalent temperature	COPd or GUEh,bin / AEFh,bin	220.0	%
T _{OL} =operation limit	Pdh	11.9	kW	T _{OL} =operation limit		200.0	%
For air-to-water heat pumps : T _i =-15°C	Pdh	-	kW	For air-to-water hea		-	%
(if T _{OL} <-20°C)				(if T _{OL} <-20°C)			
Bivalent temperature	T_{biv}	-10.0	°C	For water-to-air hea pumps:Operation lir		_	°C
Degradation				T _{ol} temperature			
coefficient	C_{dh}	0.25	-				•
heat pumps**]				_
Power consumpiton in modes other that	n 'active mode'		,	Supplementary heatheatheatheatheatheatheatheatheatheat	CI	bu –	kW
Off mode	P _{OFF}	0.020	kW				7
Thermostat-off mode	P _{TO}	0.110	kW	Type of energy inpu	ıt P	SB 0.020	kW
Crankcase heater mode	P _{CK}	0.005	kW	Standby mode]
Other items							1
Consolity control		variable	1	For air-to-air heat p		6000	m³/h
Capacity control		Tanasis	_	air flow-rate,outdoo	r measured		<u>.</u>
Sound power level,	1	71.0	dB	For water-/brine-to-	air heat pumps :		
outdoor measured	L_{WA}	71.0	uБ	Rated brine or wate		_	m³/h
			-	outdoor side heat ex	xchanger		
Emissions of nitrogen oxides(if applicable)	NOx ***	_	mg/kWh fuel input		ŭ		
GWP of the refrigerant Contact details Mitsu	bishi heavy indu	675	kg CO ₂ eq. (100years)	.TD			
** If Cdh is not determined by measure					I be 0,25.		
*** from 26 September 2018							
Where information relates to multi-spilt	air conditioners	the test res	ult and perfo	rmance data be obtained	on the basis of the perfor	mance	
of the outdoor unit, with a combination					and basis of the perior		

Models FDU100VH, 125VH, 140VH

Model(s): FDU100VH									
Item	Symbol	Vaiue	Unit	Item	Symbol	Vaiue	Unit		
Cooling capacity (sensible)	$P_{\text{rated,c}}$	7.7	kW	Total electric power input	P _{elec}	0.350	kW		
Cooling capacity (latent)	P _{rated,c}	2.3	kW	Sound power level (per speed setting,if applicable)	L_{WA}	65.0	dB		
Heating capacity	$P_{\text{rated},h}$	11.2	kW						
Contact details	Mitsubishi I	itsubishi heavy industries thermal systems,LTD							

Model(s): FDU125VH							
Item	Symbol	Vaiue	Unit	Item	Symbol	Vaiue	Unit
Cooling capacity (sensible)	$P_{rated,c}$	10.5	kW	Total electric power input	P _{elec}	0.400	kW
Cooling capacity (latent)	P _{rated,c}	2.0	kW	Sound power level (per speed setting,if applicable)	L_{WA}	67.0	dB
Heating capacity	$P_{rated,h}$	14.0	kW				
Contact details	Mitsubishi I	heavy ind	ustries the	mal systems,LTD			

Model(s): FDU140VH									
Item	Symbol	Vaiue	Unit	Item	Symbol	Vaiue	Unit		
Cooling capacity (sensible)	$P_{rated,c}$	11.2	kW	Total electric power input	P _{elec}	0.550	kW		
Cooling capacity (latent)	P _{rated,c}	2.8	kW	Sound power level (per speed setting,if applicable)	L _{WA}	70.0	dB		
Heating capacity	$P_{rated,h}$	16.0	kW						
Contact details	Mitsubishi	Mitsubishi heavy industries thermal systems,LTD							

(4) Duct connected-Low/Middle static pressure type (FDUM)

Model FDUM100VNXWVH

Information to identify the model(s) to		ation relates to	c: If function includes heating: Indicate the heating season the information relates to. Indicated values should relate to one				
Indoor unit model name Outdoor unit model name	FDUM100VH FDC100VNX-V	A/	heating season at a time. Include at le				
Outdoor unit moder name	LDC 100 ANY-	/V	I lieating season at a time. Include at it	east the heating season Average			
Function(indicate if present)			Average(mandatory)	Yes			
cooling	Yes		Warmer(if designated)	No			
heating	Yes		Colder(if designated)	No			
	•						
Item	symbol valu	e unit	Item	symbol value class			
Design load			Seasonal efficiency and energy effici				
cooling		0.0 kW 1.2 kW	cooling	SEER 6.29 A++ SCOP/A 4.13 A+			
heating / Average heating / Warmer		1.2 kW - kW	heating / Average heating / Warmer	SCOP/A 4.13 A+ SCOP/W - -			
heating / Warrier		- kW	heating / Warrier	SCOP/C			
ricating / colder	r designin	- 1000	neating / Golder	unit			
Declared capacity at outdoor temper	ature Tdesignh		Back up heating capacity at outdoor				
heating / Average (-10°C)		1.2 kW	heating / Average (-10°C)	elbu 0 kW			
heating / Warmer (2°C)	Pdh	- kW	heating / Warmer (2°C)	elbu - kW			
heating / Colder (-22°C)	Pdh	- kW	heating / Colder (-22°C)	elbu - kW			
		(10)0=					
Declared capacity for cooling, at indo outdoor temperature Ti	oor temperature 27	(19)°C and	Declared energy efficiency ratio, at ir outdoor temperature Tj	ndoor temperature 27(19) C and			
Tj=35°C	Pdc 10	.00 kW	Tj=35°C	EERd 3.86 -			
Tj=30°C		.30 kW	Ti=30°C	EERd 5.40 -			
Tj=25°C		. 70 kW	Tj=25°C	EERd 8.90 -			
Tj=20°C	Pdc 3.	. 20 kW	Tj=20°C	EERd 9.80 -			
		•		<u> </u>			
Declared capacity for heating / Avera		oor	Declared coefficient of performance				
temperature 20°C and outdoor temperature 20°C and outdoor temperature		04 1	temperature 20°C and outdoor temperature 20°C and outdoor temperature				
Tj=-7°C		.91 kW	Tj=-7°C	COPd 2.90 - COPd 3.80 -			
Tj=2°C Tj=7°C		.03 kW .88 kW	Tj=2°C Tj=7°C	COPd 3.80 - COPd 5.71 -			
Tj=12°C		.87 kW	Tj=12°C	COPd 6.70 -			
Tj=bivalent temperature		.20 kW	Tj=bivalent temperature	COPd 2.30 -			
Tj=operating limit		.10 kW	Tj=operating limit	COPd 2.10 -			
ry specialist mine		1	i i op or a ming	1 1			
Declared capacity for heating / Warn	ner season, at indo	or	Declared coefficient of performance	/ Warmer season, at indoor			
temperature 20°C and outdoor temperature			temperature 20°C and outdoor temperature				
Tj=2°C		- kW	Tj=2°C	COPd			
Tj=7°C		- kW	Tj=7°C	COPd			
Tj=12°C	Pdh	- kW	Tj=12°C	COPd			
Tj=bivalent temperature Tj=operating limit		- kW - kW	Tj=bivalent temperature Tj=operating limit	COPd			
1j-operating limit	Full	-	IJ-operating illilit	COFU -			
Declared capacity for heating / Colde	er season, at indoo	r	Declared coefficient of performance	/ Colder season, at indoor			
temperature 20°C and outdoor temperature			temperature 20°C and outdoor temperature				
Tj=-7°C	Pdh	- kW	Tj=-7°C	COPd			
Tj=2°C	Pdh	- kW	Tj=2°C	COPd			
Tj=7°C		- kW	Tj=7°C	COPd			
Tj=12°C		- kW	Tj=12°C	COPd			
Tj=bivalent temperature		- kW	Tj=bivalent temperature	COPd			
Tj=operating limit Ti=-15°C		- kW - kW	Tj=operating limit Tj=-15°C	COPd			
1j=-15 C	Pun	- KVV	I =- 15 C	COPd - -			
Bivalent temperature			Operating limit temperature				
heating / Average	Tbiv -	10 ℃	heating / Average	Tol -20 °C			
heating / Warmer	Tbiv	- ℃	heating / Warmer	Tol - °C			
heating / Colder	Tbiv	- ℃	heating / Colder	Tol - °C			
Cycling interval capacity	Dovice	LAA	Cycling interval efficiency	EEBayo			
for cooling for heating	_ ',' : -	- kW - kW	for cooling for heating	EERcyc			
To fleating	PCyCII	- KVV	ioi neating	COPCyC			
Degradation coefficient			Degradation coefficient				
cooling	Cdc 0.	.25 -	heating	Cdh 0.25 -			
		•		<u> </u>			
Electric power input in power modes			Annual electricity consumption				
off mode		2 0 W	cooling	Qce 557 kWh/a			
standby mode		20 W	heating / Average	Qhe 3800 kWh/a			
thermostat-off mode	` "	85 W	heating / Warmer	Qhe - kWh/a			
arankasaa haatar mada	` "	5 W	heating / colder	Qhe - kWh/a			
crankcase heater mode	Pck	5 W	_				
Capacity control(indicate one of three	e ontions)		Other items				
, 11 , 11 , 12 , 11 , 11 , 11 , 11 , 11	· p· · · · · · · · · /		Sound power level(indoor)	Lwa 65 dB(A)			
			Sound power level(outdoor)	Lwa 67 dB(A)			
fixed	No		Global warming potential	GWP 675 kgCO₂eq			
staged	No		Rated air flow(indoor)	- 2,160 m ³ /h			
variable	Yes		Rated air flow(outdoor)	- 6,000 m³/h			
Contact datails for all the contact datails	المعادات المعادات	i the man	was as of its outlessing due to the				
			rer or of its authorised representative. ditioning Europe, Ltd.				
			lge, Middlesex, UB11 1ET,				
	ited Kingdom	, , , , , , , , , , , , , , , , , , , ,	÷,				
	-						

Model FDUM100VSXWVH

Model FDUM100VSXWV	/H		
Information to identify the model(s	s) to which the information relates to:	If function includes heating: Indicate	the heating season the
Indoor unit model name	FDUM100VH	information relates to. Indicated value	
Outdoor unit model name	FDC100VSX-W	heating season at a time. Include at	least the heating season 'Average'
Function(indicate if present)		Average(mandatory)	Yes
cooling	Yes	Warmer(if designated)	No
heating	Yes	Colder(if designated)	No
g		co.do.(ii. doo.ga.ca)	
Item	symbol value unit	Item	symbol value class
Design load		Seasonal efficiency and energy efficiency	
cooling	Pdesignc 10.0 kW	cooling	SEER 6.29 A++
heating / Average	Pdesignh 11.2 kW	heating / Average	SCOP/A 4.13 A+
heating / Warmer	Pdesignh - kW	heating / Warmer	SCOP/W
heating / Colder	Pdesignh - kW	heating / Colder	SCOP/C
		16	unit
Declared capacity at outdoor temp		Back up heating capacity at outdoor	
heating / Average (-10°C)	Pdh 11.2 kW Pdh - kW	heating / Average (-10°C)	elbu 0 kW
heating / Warmer (2°C) heating / Colder (-22°C)	Pdh - kW Pdh - kW	heating / Warmer (2°C) heating / Colder (-22°C)	elbu - kW elbu - kW
rieating / Colder (-22 C)	Full - KVV	rieating / Colder (-22 C)	elbu - Kvv
Declared capacity for cooling, at in	ndoor temperature 27(19)°C and	Declared energy efficiency ratio, at	indoor temperature 27(19)°C and
outdoor temperature Tj	idoor temperature 27 (13) 6 and	outdoor temperature Tj	indoor temperature 27 (10) o and
Ti=35°C	Pdc 10.00 kW	Tj=35°C	EERd 3.86 -
Tj=30°C	Pdc 7.30 kW	Tj=30°C	EERd 5.40 -
Tj=25℃	Pdc 4.70 kW	Tj=25°C	EERd 8.90 -
Tj=20°C	Pdc 3.20 kW	Tj=20°C	EERd 9.80 -
		-	
Declared capacity for heating / Av	erage season, at indoor	Declared coefficient of performance	
temperature 20°C and outdoor ter		temperature 20°C and outdoor temp	
Tj=-7°C	Pdh 9.91 kW	Tj=-7°C	COPd 2.90 -
Tj=2°C	Pdh 6.03 kW	Tj=2°C	COPd 3.80 -
Tj=7°C	Pdh 3.88 kW	Tj=7°C	COPd 5.71 -
Tj=12°C	Pdh 2.87 kW	Tj=12°C	COPd 6.70 -
Tj=bivalent temperature	Pdh 11.20 kW	Tj=bivalent temperature	COPd 2.30 -
Tj=operating limit	Pdh 9.10 kW	Tj=operating limit	COPd 2.10 -
		16	
Declared capacity for heating / Wa		Declared coefficient of performance	
temperature 20°C and outdoor ter		temperature 20°C and outdoor temp	
Tj=2°C Tj=7°C	Pdh - kW Pdh - kW	Tj=2°C Tj=7°C	COPd
Tj=12°C			
Tj=bivalent temperature	Pdh - kW Pdh - kW	Tj=12 C Tj=bivalent temperature	COPd
	Pdh - kW	11 *	COPd
Tj=operating limit	Full - KVV	Tj=operating limit	COPU
Declared capacity for heating / Co	older season, at indoor	Declared coefficient of performance	/ Colder season, at indoor
temperature 20°C and outdoor ter		temperature 20°C and outdoor temp	
Tj=-7°C	Pdh - kW	Tj=-7°C	COPd
Ti=2°C	Pdh - kW	Tj=2°C	COPd
Tj=7°C	Pdh - kW	Tj=7°C	COPd
Tj=12°C	Pdh - kW	Tj=12°C	COPd
Tj=bivalent temperature	Pdh - kW	Tj=bivalent temperature	COPd
Tj=operating limit	Pdh - kW	Tj=operating limit	COPd
Tj=-15℃	Pdh - kW	Tj=-15°C	COPd
			·
Bivalent temperature		Operating limit temperature	
heating / Average	Tbiv10 °C	heating / Average	Tol -20 °C
heating / Warmer	Tbiv - °C	heating / Warmer	Tol - °C
heating / Colder	Tbiv - °C	heating / Colder	Tol - °C
Ovaling interval		Cyaling interval -ffi-t-	
Cycling interval capacity	Poves Law	Cycling interval efficiency	EEDovo
for cooling	Pcycc - kW	for cooling	EERcyc
for heating	Pcych - kW	for heating	COPcyc
Degradation coefficient		Degradation coefficient	
cooling	Cdc 0.25 -	heating	Cdh 0.25 -
	0.20	I I Satisting	0.20
Electric power input in power mod	les other than 'active mode'	Annual electricity consumption	
off mode	Poff 20 W	cooling	Qce 557 kWh/a
standby mode	Psb 20 W	heating / Average	Qhe 3800 kWh/a
thermostat-off mode	Pto(cooling) 65 W	heating / Warmer	Qhe - kWh/a
	Pto(heating) 85 W	heating / colder	Qhe - kWh/a
crankcase heater mode	Pck 5 W		
		-	
Capacity control(indicate one of the	ree options)	Other items	
		Sound power level(indoor)	Lwa 65 dB(A)
		Sound power level(outdoor)	Lwa 67 dB(A)
fixed	No	Global warming potential	GWP 675 kgCO₂ed
staged	No	Rated air flow(indoor)	- 2,160 m ³ /h
variable	Yes	Rated air flow(outdoor)	- 6,000 m³/h
Contact data!!- f	Name and address of the	reverse of the cutter-time of the	
		rer or of its authorised representative.	
	Mitsubishi Heavy Industries Air-Cond 5 The Square, Stockley Park, Uxbrid		
	United Kingdom	go,	
	ou runguom		

Model FDUM100VNXWPVH

Information to identify the model(s) to Indoor unit model name							
Indoor unit model name	which the in	formation re	elates to:	If function includes heating: Indicate to	he heating se	eason the	
mador unit model name		VH (x2 unit		information relates to. Indicated value	s should rela	ite to one	
Outdoor unit model name	FDC100\	/NX-W		heating season at a time. Include at le	ast the heati	ng seasor	ı 'Average
Function(indicate if present)				Average(mandatory)	Yes		
cooling	Yes			Warmer(if designated)	No		
heating	Yes			Colder(if designated)	No		
				•			
tem	symbol	value	unit	Item	symbol	value	class
Design load				Seasonal efficiency and energy efficiency			
cooling	Pdesigno		kW	cooling	SEER	6.36	A++
neating / Average	Pdesignh	10.0	kW	heating / Average	SCOP/A	3.88	Α
neating / Warmer	Pdesignh	1 -	kW	heating / Warmer	SCOP/W	-	-
neating / Colder	Pdesignh	n -	kW	heating / Colder	SCOP/C	-	-
<u> </u>				<u> </u>			unit
Declared capacity at outdoor tempera	ature Tdesigr	ıh		Back up heating capacity at outdoor to	emperature -	Tdesignh	
neating / Average (-10°C)	Pdh		kW	heating / Average (-10°C)	elbu	0	kW
neating / Warmer (2°C)	Pdh	-	kW	heating / Warmer (2°C)	elbu	-	kW
neating / Colder (-22°C)	Pdh		kW	heating / Colder (-22°C)	elbu	-	kW
g(,							1
Declared capacity for cooling, at indo	or temperatu	re 27(19)°C	and	Declared energy efficiency ratio, at inc	door tempera	ature 27(1	9)°C and
outdoor temperature Tj	o. toporata	.0 (.0) 0	u	outdoor temperature Tj	200: topo		o, o aa
ri=35°C	Pdc	10.00	kW	Tj=35°C	EERd	3.76	7_
Γj=30°C	Pdc		kW	Tj=30°C	EERd	5.70	1-
Γj=35°C	Pdc		kW	Tj=25°C	EERd	8.30	1_
ij=25 € Γj=20°C	Pdc		kW	Tj=25 C Tj=20°C	EERd	12.90	HI.
<u>j-20 0</u>	Fuc	3.30	L/ A A	13-20 0	LLRU	12.50	
Doclared capacity for heating / Acces	00.00000	t indoo-		Doctored coefficient of norfermen /	Avorage as -	con cti-	door
Declared capacity for heating / Avera		i iiiuOOF		Declared coefficient of performance /		SUII, at in	uUUI
emperature 20°C and outdoor tempe		0.0=	LAM	temperature 20°C and outdoor tempe		0 =0	7
Γj=-7°C	Pdh		kW	Tj=-7°C	COPd	2.70	4-
Γj=2°C	Pdh		kW	Tj=2°C	COPd	3.80]-
Γj=7°C	Pdh		kW	Tj=7°C	COPd	5.00	
 j=12°C	Pdh	2.90	kW	Tj=12°C	COPd	5.60	7-
[j=bivalent temperature	Pdh		kW	Tj=bivalent temperature	COPd	2.10	1-
rj straion temperature	Pdh		kW	Tj=operating limit	COPd	1.90	1-
.j oporating iiiiii		,		.j opolating iiiii	00. 4		
Declared capacity for heating / Warm	er season a	t indoor		Declared coefficient of performance /	Warmer sea	son at inc	door
emperature 20°C and outdoor temper				temperature 20°C and outdoor tempe		00, at	
Fj=2°C	Pdh		kW	Ti=2°C	COPd	_	1
							- -
Γj=7°C	Pdh		kW	Tj=7°C	COPd	-	վ-
Γj=12℃	Pdh		kW	Tj=12°C	COPd	-	-
Γj=bivalent temperature	Pdh	-	kW	Tj=bivalent temperature	COPd	-	-
Γj=operating limit	Pdh	-	kW	Tj=operating limit	COPd	-	-
Declared capacity for heating / Colde		ndoor		Declared coefficient of performance /		on, at indo	or
temperature 20°C and outdoor tempe				temperature 20°C and outdoor tempe			_
Tj=-7°C	Pdh	- 1	kW	Tj=-7°C	COPd	-	-
Γj=2°C	Pdh	-	kW	Tj=2°C	COPd	-	-
Γi=7°C	Pdh	-	kW	Ti=7°C	COPd	-	1_
Γj=12°C	Pdh		kW	Tj=12°C	COPd	-	1-
Γj=12 G Γj=bivalent temperature	Pdh		kW	Tj=bivalent temperature	COPd	<u> </u>	1_
ij-bivalent temperature	Pdh				COPd		HĪ.
, ,			kW	Tj=operating limit Ti=-15°C		-	4-
	Pdh	-	kW		COPd	-	-
J=-15 C				1]=-10 0			
Bivalent temperature			0-	Operating limit temperature	<u> </u>		70-
Bivalent temperature neating / Average	Tbiv		°C	Operating limit temperature heating / Average	Tol	-20	°C
Bivalent temperature leating / Average leating / Warmer	Tbiv Tbiv	-	°C	Operating limit temperature	Tol Tol	-20	°C
Bivalent temperature leating / Average leating / Warmer		-		Operating limit temperature heating / Average			
Bivalent temperature neating / Average neating / Warmer	Tbiv	-	°C	Operating limit temperature heating / Average heating / Warmer	Tol	-	°C
Sivalent temperature leating / Average leating / Warmer leating / Colder	Tbiv	-	°C	Operating limit temperature heating / Average heating / Warmer	Tol	-	°C
Sivalent temperature leating / Average leating / Warmer leating / Colder Cycling interval capacity	Tbiv	-	°C	Operating limit temperature heating / Average heating / Warmer heating / Colder	Tol	-	°C
bivalent temperature eating / Average eating / Warmer eating / Colder Cycling interval capacity or cooling	Tbiv Tbiv	-	ိုင် လ	Operating limit temperature heating / Average heating / Warmer heating / Colder Cycling interval efficiency	Tol Tol	-	°C
Bivalent temperature leating / Average leating / Warmer leating / Colder Cycling interval capacity or cooling	Tbiv Tbiv Pcycc	-	°C °C kW	Operating limit temperature heating / Average heating / Warmer heating / Colder Cycling interval efficiency for cooling	Tol Tol EERcyc	-	°C
Bivalent temperature leating / Average leating / Warmer leating / Colder Cycling interval capacity or cooling or heating	Tbiv Tbiv Pcycc	-	°C °C kW	Operating limit temperature heating / Average heating / Warmer heating / Colder Cycling interval efficiency for cooling	Tol Tol EERcyc	-	°C
Bivalent temperature leating / Average leating / Warmer leating / Colder Cycling interval capacity or cooling or heating Degradation coefficient	Tbiv Tbiv Pcycc	-	°C °C kW	Operating limit temperature heating / Average heating / Warmer heating / Colder Cycling interval efficiency for cooling for heating	Tol Tol EERcyc	-	°C
Bivalent temperature leating / Average leating / Warmer leating / Colder Cycling interval capacity or cooling or heating Degradation coefficient	Tbiv Tbiv Pcycc Pcych	-	°C °C kW	Operating limit temperature heating / Average heating / Warmer heating / Colder Cycling interval efficiency for cooling for heating Degradation coefficient	Tol Tol EERcyc COPcyc		°C
Bivalent temperature leating / Average leating / Warmer leating / Colder Cycling interval capacity or cooling or heating Degradation coefficient cooling	Tbiv Tbiv Pcycc Pcych		°C °C	Operating limit temperature heating / Average heating / Warmer heating / Colder Cycling interval efficiency for cooling for heating Degradation coefficient	Tol Tol EERcyc COPcyc		°C
Bivalent temperature leating / Average leating / Warmer leating / Colder Cycling interval capacity or cooling or heating Degradation coefficient cooling Electric power input in power modes	Tbiv Tbiv Pcycc Pcych		°C °C	Operating limit temperature heating / Average heating / Warmer heating / Colder Cycling interval efficiency for cooling for heating Degradation coefficient heating Annual electricity consumption	Tol Tol EERcyc COPcyc		°C
Sivalent temperature leating / Average leating / Warmer leating / Colder Cycling interval capacity or cooling or heating Degradation coefficient cooling Electric power input in power modes off mode	Tbiv Tbiv Pcycc Pcych Cdc Other than 'ac		°C °C kW kW	Operating limit temperature heating / Average heating / Warmer heating / Colder Cycling interval efficiency for cooling for heating Degradation coefficient heating Annual electricity consumption cooling	Tol Tol EERcyc COPcyc	- - - - 0.25	- - - -]- -
Bivalent temperature leating / Average leating / Warmer leating / Colder Dycling interval capacity or cooling or heating Degradation coefficient leaching Electric power input in power modes off mode standby mode	Tbiv Tbiv Pcycc Pcych Cdc other than 'ac Poff Psb		°C °C kW kW	Operating limit temperature heating / Average heating / Warmer heating / Colder Cycling interval efficiency for cooling for heating Degradation coefficient heating Annual electricity consumption cooling heating / Average	Tol Tol EERcyc COPcyc	- - - 0.25	°C °C]-]-]-]-]kWh/a kWh/a
Bivalent temperature leating / Average leating / Warmer leating / Colder Dycling interval capacity or cooling or heating Degradation coefficient leaching Electric power input in power modes off mode standby mode	Tbiv Tbiv Pcycc Pcych Cdc other than 'ac Poff Psb Pto(cooling)		°C °C kW kW	Operating limit temperature heating / Average heating / Warmer heating / Colder Cycling interval efficiency for cooling for heating Degradation coefficient heating Annual electricity consumption cooling heating / Average heating / Warmer	Tol Tol EERcyc COPcyc	- - - - 0.25	°C °C - - - - - - - - - - - - - - - - -
Bivalent temperature leating / Average leating / Warmer leating / Colder Cycling interval capacity or cooling or heating Degradation coefficient looling Electric power input in power modes liff mode leatindby mode learmostat-off mode	Tbiv Tbiv Pcycc Pcych Cdc other than 'ac Poff Psb Pto(cooling) Pto(heating)		°C °C kW kW W W W W W W	Operating limit temperature heating / Average heating / Warmer heating / Colder Cycling interval efficiency for cooling for heating Degradation coefficient heating Annual electricity consumption cooling heating / Average	Tol Tol EERcyc COPcyc	- - - 0.25	°C °C]-]-]-]-]kWh/a kWh/a
Bivalent temperature leating / Average leating / Warmer leating / Colder Cycling interval capacity or cooling or heating Degradation coefficient cooling Electric power input in power modes lift mode leating bear mode leating	Tbiv Tbiv Pcycc Pcych Cdc other than 'ac Poff Psb Pto(cooling)		°C °C kW kW	Operating limit temperature heating / Average heating / Warmer heating / Colder Cycling interval efficiency for cooling for heating Degradation coefficient heating Annual electricity consumption cooling heating / Average heating / Warmer	Tol Tol EERcyc COPcyc	- - - - 0.25	°C °C - - - - - - - - - - - - - - - - -
Sivalent temperature leating / Average leating / Warmer leating / Colder Cycling interval capacity or cooling or heating Degradation coefficient cooling Electric power input in power modes off mode standby mode hermostat-off mode crankcase heater mode	Tbiv Tbiv Pcycc Pcych Cdc Other than 'ac Poff Psb Pto(cooling) Pto(heating) Pck		°C °C kW kW W W W W W W	Operating limit temperature heating / Average heating / Warmer heating / Colder Cycling interval efficiency for cooling for heating Degradation coefficient heating Annual electricity consumption cooling heating / Average heating / Warmer heating / colder	Tol Tol EERcyc COPcyc	- - - - 0.25	°C °C - - - - - - - - - - - - - - - - -
Sivalent temperature leating / Average leating / Warmer leating / Colder Cycling interval capacity or cooling or heating Degradation coefficient cooling Electric power input in power modes off mode standby mode hermostat-off mode crankcase heater mode	Tbiv Tbiv Pcycc Pcych Cdc Other than 'ac Poff Psb Pto(cooling) Pto(heating) Pck		°C °C kW kW W W W W W W	Operating limit temperature heating / Average heating / Warmer heating / Colder Cycling interval efficiency for cooling for heating Degradation coefficient heating Annual electricity consumption cooling heating / Average heating / Warmer heating / Colder Other items	Tol Tol EERcyc COPcyc Cdh Qce Qhe Qhe Qhe	- - - - - - - - - - - - - - - - - - -	c c c - - - kWh/a kWh/a kWh/a
Sivalent temperature leating / Average leating / Warmer leating / Colder Cycling interval capacity or cooling or heating Degradation coefficient cooling Electric power input in power modes off mode standby mode hermostat-off mode crankcase heater mode	Tbiv Tbiv Pcycc Pcych Cdc Other than 'ac Poff Psb Pto(cooling) Pto(heating) Pck		°C °C kW kW W W W W W W	Operating limit temperature heating / Average heating / Warmer heating / Colder Cycling interval efficiency for cooling for heating Degradation coefficient heating Annual electricity consumption cooling heating / Average heating / Warmer heating / colder Other items Sound power level(indoor)	Tol Tol EERcyc COPcyc Cdh Qce Qhe Qhe Qhe	- - - - - - - - - - - - - - - - - - -	c c c - - - - - - - - - - - - - - - kWh/a kWh/a kWh/a
Sivalent temperature leating / Average leating / Warmer leating / Colder Cycling interval capacity or cooling or heating Degradation coefficient cooling Electric power input in power modes off mode leatindby mode hermostat-off mode crankcase heater mode	Tbiv Tbiv Pcycc Pcych Cdc Other than 'ac Poff Psb Pto(cooling) Pto(heating) Pck		°C °C kW kW W W W W W W	Operating limit temperature heating / Average heating / Warmer heating / Colder Cycling interval efficiency for cooling for heating Degradation coefficient heating Annual electricity consumption cooling heating / Average heating / Warmer heating / Colder Other items	Tol Tol EERcyc COPcyc Cdh Qce Qhe Qhe Qhe	- - - - - - - - - - - - - - - - - - -	c c c - - - - kWh/a kWh/a kWh/a
Bivalent temperature leating / Average leating / Warmer leating / Colder Cycling interval capacity or cooling or heating Degradation coefficient cooling Electric power input in power modes off mode leating mode leating mode Standby mode leating mode Capacity control(indicate one of three	Tbiv Tbiv Pcycc Pcych Cdc Other than 'ac Poff Psb Pto(cooling) Pto(heating) Pck		°C °C kW kW W W W W W W	Operating limit temperature heating / Average heating / Warmer heating / Colder Cycling interval efficiency for cooling for heating Degradation coefficient heating Annual electricity consumption cooling heating / Average heating / Warmer heating / colder Other items Sound power level(indoor)	Tol Tol EERcyc COPcyc Cdh Qce Qhe Qhe Qhe	- - - - - - - - - - - - - - - - - - -	°C °C °C
Bivalent temperature leating / Average leating / Warmer leating / Colder Cycling interval capacity or cooling or heating Degradation coefficient leating Electric power input in power modes off mode leating mode leating mode Standby mode leating mode leating mode Standby mode leating mode Capacity control(indicate one of three leating mode)	Tbiv Tbiv Pcycc Pcych Cdc other than 'ac Poff Psb Pto(cooling) Pto(heating) Pck Poptions)		°C °C kW kW W W W W W W	Operating limit temperature heating / Average heating / Warmer heating / Colder Cycling interval efficiency for cooling for heating Degradation coefficient heating Annual electricity consumption cooling heating / Average heating / Warmer heating / Colder Other items Sound power level(indoor) Sound power level(outdoor) Global warming potential	Tol Tol EERcyc COPcyc Cdh Qce Qhe Qhe Qhe	- - - - - - - - - - - - - - - - - - -	CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
Sivalent temperature leating / Average leating / Warmer leating / Colder Cycling interval capacity or cooling or heating Degradation coefficient cooling Electric power input in power modes off mode standby mode hermostat-off mode crankcase heater mode Capacity control(indicate one of three	Tbiv Tbiv Peycc Pcych Cdc Other than 'ac Poff Psb Pto(cooling) Pto(heating) Pck e options)		°C °C kW kW W W W W W W	Operating limit temperature heating / Average heating / Warmer heating / Colder Cycling interval efficiency for cooling for heating Degradation coefficient heating Annual electricity consumption cooling heating / Average heating / Warmer heating / Colder Other items Sound power level(indoor) Sound power level(outdoor) Global warming potential Rated air flow(indoor)	Tol Tol EERcyc COPcyc Cdh Qce Qhe Qhe Qhe		CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
Bivalent temperature leating / Average leating / Warmer leating / Colder Dycling interval capacity or cooling or heating Degradation coefficient leating Electric power input in power modes leating by mode leating leatin	Tbiv Tbiv Pcycc Pcych Cdc other than 'ac Poff Psb Pto(cooling) Pto(heating) Pck Poptions)		°C °C kW kW W W W W W W	Operating limit temperature heating / Average heating / Warmer heating / Colder Cycling interval efficiency for cooling for heating Degradation coefficient heating Annual electricity consumption cooling heating / Average heating / Warmer heating / Colder Other items Sound power level(indoor) Sound power level(outdoor) Global warming potential	Tol Tol EERcyc COPcyc Cdh Qce Qhe Qhe Qhe	- - - - - - - - - - - - - - - - - - -	CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
Fj=-15°C Bivalent temperature leating / Average leating / Warmer leating / Colder Cycling interval capacity or cooling or heating Degradation coefficient cooling Electric power input in power modes off mode leatandby mode hermostat-off mode crankcase heater mode Capacity control(indicate one of three lixed staged variable	Tbiv Tbiv Pcycc Pcych Cdc other than 'ac Poff Psb Pto(cooling) Pck coptions) No No Yes		°C °C kW kW W	Operating limit temperature heating / Average heating / Colder Cycling interval efficiency for cooling for heating Degradation coefficient heating Annual electricity consumption cooling heating / Average heating / Warmer heating / Colder Other items Sound power level(indoor) Sound power level(outdoor) Global warming potential Rated air flow(outdoor) Rated air flow(outdoor)	Tol Tol EERcyc COPcyc Cdh Qce Qhe Qhe Qhe		CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
Bivalent temperature leating / Average leating / Warmer leating / Colder Cycling interval capacity or cooling or heating Degradation coefficient leating Degradation coefficient leating Degradation mode leating mode Electric power input in power modes leating mode tandby mode leating leat	Tbiv Tbiv Pcycc Pcych Cdc other than 'ac Poff Psb Pto(cooling) Pto(heating) Pck c options) No No Yes me and addre		°C °C kW kW W W W W W W W W manufacture	Operating limit temperature heating / Average heating / Warmer heating / Colder Cycling interval efficiency for cooling for heating Degradation coefficient heating Annual electricity consumption cooling heating / Average heating / Warmer heating / Colder Other items Sound power level(indoor) Sound power level(outdoor) Global warming potential Rated air flow(indoor) Rated air flow(outdoor)	Tol Tol EERcyc COPcyc Cdh Qce Qhe Qhe Qhe		CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
ivalent temperature eating / Average eating / Warmer eating / Colder cycling interval capacity or cooling or heating legradation coefficient cooling lectric power input in power modes ff mode tandby mode lermostat-off mode rankcase heater mode capacity control(indicate one of three exed taged ariable contact details for obtaining more information Nar Mits	Tbiv Tbiv Pcycc Pcych Cdc other than 'ac Poff Psb Pto(cooling) Pto(heating) Pck Poptions) No No Yes me and addresubishi Heavy		°C °C %C	Operating limit temperature heating / Average heating / Colder Cycling interval efficiency for cooling for heating Degradation coefficient heating Annual electricity consumption cooling heating / Average heating / Warmer heating / Colder Other items Sound power level(indoor) Sound power level(outdoor) Global warming potential Rated air flow(indoor) Rated air flow(outdoor) er or of its authorised representative. titoning Europe, Ltd.	Tol Tol EERcyc COPcyc Cdh Qce Qhe Qhe Qhe		CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
ivalent temperature eating / Average eating / Warmer eating / Colder Eycling interval capacity or cooling or heating Degradation coefficient cooling Dectric power input in power modes ff mode tandby mode temperature mode Tankcase heater mode Tankcase heater mode Tankcase heater mode Tankcase heater mode Tankcase heater mode Tankcase heater mode Tankcase heater mode Tankcase heater mode Tankcase heater mode Tankcase heater mode Tankcase heater mode Tankcase heater mode Tankcase heater mode Tankcase heater mode Tankcase heater mode Tankcase heater mode Tankcase heater mode Tankcase heater mode Tankcase heater mode	Tbiv Tbiv Pcycc Pcych Cdc other than 'ac Poff Psb Pto(cooling) Pto(heating) Pck Poptions) No No Yes me and addresubishi Heavy		°C °C %C	Operating limit temperature heating / Average heating / Warmer heating / Colder Cycling interval efficiency for cooling for heating Degradation coefficient heating Annual electricity consumption cooling heating / Average heating / Warmer heating / Colder Other items Sound power level(indoor) Sound power level(outdoor) Global warming potential Rated air flow(indoor) Rated air flow(outdoor)	Tol Tol EERcyc COPcyc Cdh Qce Qhe Qhe Qhe		CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC

Model FDUM100VSXWPVH

Information to identify the model	PVH					
	(s) to which the information	relates to:	If function includes heating: Indicate	e the heating s	eason the	
Indoor unit model name	FDUM50VH (x2 un		information relates to. Indicated val	lues should rela	ate to one	
Outdoor unit model name	FDC100VSX-W		heating season at a time. Include at	t least the heati	ng season	'Average'
Function(indicate if present)			Average(mandatory)	Yes		
cooling	Yes		Warmer(if designated)	No		
heating	Yes		Colder(if designated)	No		
<u>Item</u>	symbol value	unit	Item	symbol	value	class
Design load	Delegione 40.0	7kW	Seasonal efficiency and energy effi		6.26	Ι Δ
cooling	Pdesignc 10.0 Pdesignh 10.0	kW	cooling	SEER SCOP/A	6.36 3.88	A++ A
heating / Average		- kW	heating / Average heating / Warmer	SCOP/W		- A
heating / Warmer						
heating / Colder	Pdesignh -	kW	heating / Colder	SCOP/C	-	-
Declared capacity at outdoor ten	anoraturo Tdosignh		Back up heating capacity at outdoor	r tomporaturo	Tdosianh	unit
heating / Average (-10°C)	Pdh 10.0	kW	heating / Average (-10°C)	elbu	0	kW
heating / Warmer (2°C)	Pdh -	kW	heating / Warmer (2°C)	elbu	-	kW
heating / Colder (-22°C)	Pdh -	kW	heating / Colder (-22°C)	elbu	-	kW
ricating / Colder (22 C)	T dil	IKVV	ricating / Colder (22 C)	Cibu		ICAA
Declared capacity for cooling, at	indoor temperature 27(19)°	°C and	Declared energy efficiency ratio, at	indoor tempera	ature 27(1	9)°C and
outdoor temperature Tj		- uu	outdoor temperature Ti	acc. toport		s, c aa
Tj=35°C	Pdc 10.00	kW	Tj=35°C	EERd	3.76]_
Tj=30°C	Pdc 7.30	kW	Tj=30°C	EERd	5.70	1-
Tj=25°C	Pdc 4.70	kW	Tj=25°C	EERd	8.30	1-
Tj=20°C	Pdc 3.50	kW	Tj=20°C	EERd	12.90	1-
Declared capacity for heating / A	verage season, at indoor		Declared coefficient of performance	e / Average sea	ason, at inc	door
temperature 20°C and outdoor to		_	temperature 20°C and outdoor tem			_
Tj=-7°C	Pdh 8.85	kW	Tj=-7°C	COPd	2.70]-
Tj=2℃	Pdh 5.38	kW	Tj=2°C	COPd	3.80]-
Tj=7°C	Pdh 3.46	kW	Tj=7°C	COPd	5.00	-
Tj=12°C	Pdh 2.90	kW	Tj=12°C	COPd	5.60]-
Tj=bivalent temperature	Pdh 10.00	kW	Tj=bivalent temperature	COPd	2.10]-
Tj=operating limit	Pdh 8.40	kW	Tj=operating limit	COPd	1.90	1-
		•				•
Declared capacity for heating / V			Declared coefficient of performance		ison, at inc	loor
temperature 20°C and outdoor to		٦	temperature 20°C and outdoor tem			-
Tj=2°C	Pdh -	kW	Tj=2°C	COPd	-	-
Tj=7°C	Pdh -	kW	Tj=7°C	COPd	-	-
Tj=12°C	Pdh -	kW	Tj=12°C	COPd	-	-
Tj=bivalent temperature	Pdh -	kW	Tj=bivalent temperature	COPd	-	<u> </u> -
Tj=operating limit	Pdh -	kW	Tj=operating limit	COPd	-	-
			-			
Declared capacity for heating / C			Declared coefficient of performance		on, at indo	or
temperature 20°C and outdoor to		٦.,,,	temperature 20°C and outdoor tem			7
Tj=-7°C	Pdh -	kW	Tj=-7°C	COPd	-	ļ ⁻
Tj=2°C	Pdh -	kW	Tj=2°C	COPd	-	-
Tj=7°C	Pdh -	kW	Tj=7°C	COPd	-	⁻
Tj=12°C	Pdh -	kW	Tj=12°C	COPd	-	-
Tj=bivalent temperature	Pdh -	kW	Tj=bivalent temperature	COPd	-	-
Tj=operating limit	Pdh -	kW	Tj=operating limit	COPd	-	-
Tj=-15℃	Pdh -	kW	Tj=-15°C	COPd	-	-
Divalent temperature			On a rating limit to manageture			
Bivalent temperature heating / Average	Tbiv -10	7°c	Operating limit temperature heating / Average	Tol	-20	l℃
neating / Average heating / Warmer	:.	- c	heating / Average heating / Warmer	Tol		င်
icality / wallicl				101	-	°C
heating / Coldor	I buy	100	Iheating / Coldor			
heating / Colder	Tbiv -	°C	heating / Colder	Tol	-	C
	I DIV -]°C			-	
Cycling interval capacity		_	Cycling interval efficiency	Tol		1-
Cycling interval capacity for cooling	Pcycc -	kW	Cycling interval efficiency for cooling	Tol EERcyc	-]-
Cycling interval capacity for cooling		_	Cycling interval efficiency	Tol]-
Cycling interval capacity for cooling for heating	Pcycc -	kW	Cycling interval efficiency for cooling for heating	Tol EERcyc]-
Cycling interval capacity for cooling for heating Degradation coefficient	Pcycc -	kW	Cycling interval efficiency for cooling	Tol EERcyc]- - -
Cycling interval capacity for cooling for heating Degradation coefficient	Pcycc - Pcych -	kW	Cycling interval efficiency for cooling for heating Degradation coefficient	Tol EERcyc COPcyc	-]-
Cycling interval capacity for cooling for heating Degradation coefficient cooling	Pcycc - Pcych - Cdc 0.25	kW kW	Cycling interval efficiency for cooling for heating Degradation coefficient	Tol EERcyc COPcyc	-]- - -
Cycling interval capacity for cooling for heating Degradation coefficient cooling	Pcycc - Pcych - Cdc 0.25	kW kW	Cycling interval efficiency for cooling for heating Degradation coefficient heating	Tol EERcyc COPcyc	-]- - -
heating / Colder Cycling interval capacity for cooling for heating Degradation coefficient cooling Electric power input in power mo off mode standby mode	Pcycc - Pcych - Cdc 0.25	kW kW	Cycling interval efficiency for cooling for heating Degradation coefficient heating Annual electricity consumption	Tol EERcyc COPcyc Cdh	0.25]-
Cycling interval capacity for cooling for heating Degradation coefficient cooling Electric power input in power mo off mode	Pcycc - Pcych - Cdc 0.25 des other than 'active mode Poff 25	kW kW	Cycling interval efficiency for cooling for heating Degradation coefficient heating Annual electricity consumption cooling	Tol EERcyc COPcyc Cdh	0.25]- - - -
Cycling interval capacity for cooling for heating Degradation coefficient cooling Electric power input in power mooff mode standby mode	Pcycc - Pcych - Cdc 0.25 des other than 'active mode Poff Psb 25	kW kW	Cycling interval efficiency for cooling for heating Degradation coefficient heating Annual electricity consumption cooling heating / Average	Tol EERcyc COPcyc Cdh Qce Qhe	- - 0.25 550 3605	- - - kWh/a kWh/a
Cycling interval capacity for cooling for heating Degradation coefficient cooling Electric power input in power mo off mode standby mode thermostat-off mode	Pcycc - Pcych - Cdc 0.25 des other than 'active mode Poff 25 Psb 25 Pto(cooling) 70	kW kW	Cycling interval efficiency for cooling for heating Degradation coefficient heating Annual electricity consumption cooling heating / Average heating / Warmer	EERcyc COPcyc Cdh	0.25 550 3605	- - - kWh/a kWh/a kWh/a
Cycling interval capacity for cooling for heating Degradation coefficient cooling Electric power input in power mo off mode standby mode thermostat-off mode	Pcycc - Pcych - Cdc 0.25 Ides other than 'active mode Poff 25 Psb 25 Pto(cooling) 70 Pto(heating) 90	e' W W W	Cycling interval efficiency for cooling for heating Degradation coefficient heating Annual electricity consumption cooling heating / Average heating / Warmer	EERcyc COPcyc Cdh	0.25 550 3605	- - - kWh/a kWh/a kWh/a
Cycling interval capacity for cooling for heating Degradation coefficient cooling Electric power input in power mooff mode standby mode thermostat-off mode crankcase heater mode	Pcycc - Pcych - Cdc 0.25 des other than 'active mode Poff 25 Psb 25 Pto(cooling) 70 Pto(heating) 90 Pck 5	e' W W W	Cycling interval efficiency for cooling for heating Degradation coefficient heating Annual electricity consumption cooling heating / Average heating / Warmer heating / colder Other items	EERcyc COPcyc Cdh	0.25 550 3605	- - - kWh/a kWh/a kWh/a kWh/a
Cycling interval capacity for cooling for heating Degradation coefficient cooling Electric power input in power mooff mode standby mode thermostat-off mode crankcase heater mode	Pcycc - Pcych - Cdc 0.25 des other than 'active mode Poff 25 Psb 25 Pto(cooling) 70 Pto(heating) 90 Pck 5	e' W W W	Cycling interval efficiency for cooling for heating Degradation coefficient heating Annual electricity consumption cooling heating / Average heating / Warmer heating / colder	EERcyc COPcyc Cdh	0.25 550 3605	- - - kWh/a kWh/a kWh/a
Cycling interval capacity for cooling for heating Degradation coefficient cooling Electric power input in power mooff mode standby mode thermostat-off mode crankcase heater mode	Pcycc - Pcych - Cdc 0.25 des other than 'active mode Poff 25 Psb 25 Pto(cooling) 70 Pto(heating) 90 Pck 5	e' W W W	Cycling interval efficiency for cooling for heating Degradation coefficient heating Annual electricity consumption cooling heating / Average heating / Warmer heating / colder Other items	Tol EERcyc COPcyc Cdh Qce Qhe Qhe Qhe Qhe	550 3605	- - - kWh/a kWh/a kWh/a kWh/a
Cycling interval capacity for cooling for heating Degradation coefficient cooling Electric power input in power mo off mode standby mode	Pcycc - Pcych - Cdc 0.25 des other than 'active mode Poff 25 Psb 25 Pto(cooling) 70 Pto(heating) 90 Pck 5	e' W W W	Cycling interval efficiency for cooling for heating Degradation coefficient heating Annual electricity consumption cooling heating / Average heating / Warmer heating / colder Other items Sound power level(indoor)	Tol EERcyc COPcyc Cdh Qce Qhe Qhe Qhe Qhe Lwa	- - - 0.25 550 3605 - -	kWh/a kWh/a kWh/a kWh/a
Cycling interval capacity for cooling for heating Degradation coefficient cooling Electric power input in power mooff mode standby mode thermostat-off mode Crankcase heater mode Capacity control(indicate one of staged	Pcycc - Pcych - Cdc 0.25 des other than 'active mode Poff 25 Psb 25 Pto(cooling) 70 Pto(heating) 90 Pck 5	e' W W W	Cycling interval efficiency for cooling for heating Degradation coefficient heating Annual electricity consumption cooling heating / Average heating / Warmer heating / colder Other items Sound power level(indoor) Sound power level(outdoor) Global warming potential Rated air flow(indoor)	EERcyc COPcyc Cdh Qce Qhe Qhe Qhe		kWh/a kWh/a kWh/a kWh/a kWh/a
Cycling interval capacity for cooling for heating Degradation coefficient cooling Electric power input in power mooff mode standby mode thermostat-off mode Crankcase heater mode Capacity control(indicate one of staged	Pcycc - Pcych - Cdc 0.25 Ides other than 'active mode Poff 25 Psb 25 Pto(cooling) 70 Pto(heating) 90 Pck 5	e' W W W	Cycling interval efficiency for cooling for heating Degradation coefficient heating Annual electricity consumption cooling heating / Average heating / Warmer heating / colder Other items Sound power level(indoor) Sound power level(outdoor) Global warming potential	EERcyc COPcyc Cdh Qce Qhe Qhe Qhe Lwa Lwa GWP	550 3605 	kWh/a kWh/a kWh/a kWh/a kWh/a
Cycling interval capacity for cooling for heating Degradation coefficient cooling Electric power input in power mooff mode standby mode thermostat-off mode Crankcase heater mode Capacity control(indicate one of staged	Pcycc - Pcych - Cdc 0.25 Indes other than 'active mode Poff 25 Psb 25 Pto(cooling) 70 Pto(heating) 90 Pck 5 Three options)	e' W W W	Cycling interval efficiency for cooling for heating Degradation coefficient heating Annual electricity consumption cooling heating / Average heating / Warmer heating / colder Other items Sound power level(indoor) Sound power level(outdoor) Global warming potential Rated air flow(indoor)	Cdh Qce Qhe Qhe Qhe Lwa Lwa GWP	550 3605 60 67 675 780	kWh/a kWh/a kWh/a kWh/a kWh/a
Cycling interval capacity for cooling for heating Degradation coefficient cooling Electric power input in power mo off mode standby mode thermostat-off mode Crankcase heater mode Capacity control(indicate one of fixed staged variable Contact details for obtaining	Pcycc - Pcych - Cdc 0.25 Ides other than 'active mode Poff 25 Psb 25 Pto(cooling) 70 Pto(heating) 90 Pck 5 Three options) No No Yes Name and address of the	kW kW	Cycling interval efficiency for cooling for heating Degradation coefficient heating Annual electricity consumption cooling heating / Average heating / Warmer heating / Colder Other items Sound power level(indoor) Sound power level(outdoor) Global warming potential Rated air flow(indoor) Rated air flow(outdoor) er or of its authorised representative.	Tol EERcyc COPcyc Cdh Qce Qhe Qhe Qhe Che Che Che Che Che Che Che Che Che C	550 3605 60 67 675 780	kWh/a kWh/a kWh/a kWh/a kWh/a
Cycling interval capacity for cooling for heating Degradation coefficient cooling Electric power input in power most mode standby mode thermostat-off mode Crankcase heater mode Capacity control(indicate one of ixed staged variable	Pcycc - Pcych - Cdc 0.25 Ides other than 'active mode Poff 25 Psb 25 Pto(cooling) 70 Pto(heating) 90 Pck 5 Three options) No No Yes Name and address of the Mitsubishi Heavy Industrie	kW kW	Cycling interval efficiency for cooling for heating Degradation coefficient heating Annual electricity consumption cooling heating / Average heating / Warmer heating / colder Other items Sound power level(indoor) Sound power level(outdoor) Global warming potential Rated air flow(indoor) Rated air flow(outdoor) er or of its authorised representative.tioning Europe, Ltd.	Tol EERcyc COPcyc Cdh Qce Qhe Qhe Qhe Che Che Che Che Che Che Che Che Che C	550 3605 60 67 675 780	kWh/a kWh/a kWh/a kWh/a kWh/a
Oycling interval capacity or cooling or heating Degradation coefficient cooling Degradation coefficient cooling Electric power input in power most mode chandby mode hermostat-off mode Degrankcase heater mode Capacity control(indicate one of cixed charjable Contact details for obtaining	Pcycc - Pcych - Cdc 0.25 Ides other than 'active mode Poff 25 Psb 25 Pto(cooling) 70 Pto(heating) 90 Pck 5 Three options) No No Yes Name and address of the	kW kW	Cycling interval efficiency for cooling for heating Degradation coefficient heating Annual electricity consumption cooling heating / Average heating / Warmer heating / colder Other items Sound power level(indoor) Sound power level(outdoor) Global warming potential Rated air flow(indoor) Rated air flow(outdoor) er or of its authorised representative.tioning Europe, Ltd.	Tol EERcyc COPcyc Cdh Qce Qhe Qhe Qhe Che Che Che Che Che Che Che Che Che C	550 3605 60 67 675 780	kWh/a kWh/a kWh/a kWh/a kWh/a

Model FDUM125VNXWVH

Model(s): FDC125VNX-W	/ FDUM125	VH					
Outdoor side heat exchanger of a	ir conditioner :	air					
Indoor side heat exchanger of air	conditioner :	air					
Type: vapour compression							
if applicable : electric mo	tor						
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	Prated,c	12.5	kW	Seasonal space efficiency ηs,c	cooling energy	241.1	%
Declared cooling capacity for part	load at given outdoor	temperature	es	Declared energy	y efficiency ratio or gas utilization e	fficiency /	
Tj and indoor 27°C/19°C(dry/wet b	ulb)			auxiliary energy	factor for part load at given outdoo	or temperatures T	ij
Tj=+35°C	Pdc	12.5	kW	Tj=+35°C	EERd or	358.0	%
Tj=+30°C	Pdc	9.2	kW	Tj=+30°C	GUEc,bin / AEFc,bin EERd or	520.0	%
Tj=+25°C	Pdc	5.9	kW	Tj=+25°C	GUEc,bin / AEFc,bin EERd or	740.0	%
			l		GUEc,bin / AEFc,bin		
Tj=+20°C	Pdc	3.3	kW	Tj=+20°C	EERd or GUEc,bin / AEFc,bin	940.0	%
Degradation							
coefficient for	Cdc	0.25	-				
air conditioners**							
Power consumpiton in other than	'active mode'						
Off mode	P _{OFF}	0.020	kW	Crankcase heat	er mode P _{CK}	0.005	kW
Thermostat-off mode	P_{TO}	0.075	kW	Standby mode	P_{SB}	0.020	kW
Other items							1
Capacity control		variable		For air-to-air air air flow-rate,out		6,000	m ³ /h
Sound power level,	L_WA	68.0	dB				
			'				
If engine driven:			mg/kWh				
Emissions of nitrogen	NOx ***	_	fuel input				
oxides			GCV				
CIAID of the			lum CO 00				
GWP of the			kg CO₂eq. (100years)				
refrigerant			l				
Contact details	Mitsubishi heavy indus	etripe thorm	al eveteme !	I TD			
** If Cdc is not determined by mea	· · · · · · · · · · · · · · · · · · ·		-		rs shall be 0,25.		
*** from 26 September 2018		5 * *					
	i-spilt air conditioners,t	he test resu	ılt and perfor	mance data be ob	otained on the basis of the perform	ance	
of the outdoor unit, with a combina							

Information to identify the model(s) to w	hich the informat	tion relates	: F	FDC125VNX-W	FDUM125VH		
Outdoor side heat exchanger of heat pu	ımp :	air					
Indoor side heat exchanger of heat pur	np :	air					
Indication if the heater is equipped with	a supplementary			No			
if applicable : electric motor							
Parameters shall be declared for the av	rerage heating se	eason , para	ameters for th	ne warmer and colder hea	ating seasons are optional.		
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	Зупівої	value	Onit		g energy efficiency ηs,h	Value	Offic
- table to a migrature of the control of the contro	Prated,h	14.0	kW		gg,, -	159.4	%
Declared heating capacity for part load and outdoor temperature Tj	at indoor tempera	ature 20°C			performance or gas utilization of for part load at given outdoor te	,	Tj
T _j =-7°C	Pdh	10.1	kW	T _j =-7°C	COPd or GUEh,bin / AEFh,bin	290.0	%
T _j =+2°C	Pdh	6.1	kW	T _j =+2°C	COPd or GUEh,bin / AEFh,bin	380.0	%
T _j =+7°C	Pdh	4.0	kW	T _j =+7°C	COPd or GUEh,bin / AEFh,bin	550.0	%
T _j =+12°C	Pdh	2.9	kW	T _j =+12°C	COPd or GUEh,bin / AEFh,bin	610.0	%
T _{biv} =bivalent temperature	Pdh	11.4	kW	T _{biv} =bivalent temperature	COPd or GUEh,bin / AEFh,bin	220.0	%
T _{OL} =operation limit	Pdh	10.0	kW	T _{OL} =operation limit	COPd or GUEh,bin / AEFh,bin	210.0	%
For air-to-water heat pumps : T _j =-15°C	Pdh	-	kW	For air-to-water heat pumps:T _j =-15°C	COPd or GUEh,bin / AEFh,bin	-	%
(if T _{OL} <-20°C)	_		Joe	(if T _{OL} <-20°C)			i
Bivalent temperature	T_{biv}	-10.0]°C	For water-to-air heat pumps:Operation lim		_	°C
Degradation coefficient	C_{dh}	0.25	_	T _{ol} temperature			
heat pumps**	Odh	0.20					
			·				
Power consumpiton in modes other tha	n 'active mode'			Supplementary heated	elbu	_	kW
Off mode	P_{OFF}	0.020	kW	back up nearing cap	uoity		I
Thermostat-off mode	P _{TO}	0.095	kW	Type of energy input	P _{SB}	0.020	kW
Crankcase heater mode	P _{CK}	0.005	kW	Standby mode			
Other items							
Capacity control		variable]	For air-to-air heat pu air flow-rate,outdoor		6000	m ³ /h
Sound power level,			1	For water-/brine-to-a	ir heat pumps :		
outdoor measured	L_{WA}	70.0	dB	Rated brine or water outdoor side heat ex	fiow-rate,	_	m ³ /h
Emissions of nitrogen oxides(if applicable)	NOx ***	_	mg/kWh fuel input		· ·		
, ,,			GCV				
GWP of the		675	kg CO₂eq.				
refrigerant			(100years)				
•	bishi heavy indus		-				
** If Cdh is not determined by measurer	nent then the det	fault degrac	dation coeffic	ient air conditioners shall	be 0,25.		
*** from 26 September 2018							
Where information relates to multi-spilt	air conditioners,t	he test resu	ult and perfor	mance data be obtained	on the basis of the performanc	е	
of the outdoor unit, with a combination of	of indoor unit(s) r	ecommend	led by the ma	nufacturer or importer.			

Model FDUM125VSXWVH

Model(s): FDC125VSX-W	/ FDUM125	VH					
Outdoor side heat exchanger of air	r conditioner :	air					
Indoor side heat exchanger of air of	conditioner :	air					
Type: vapour compression							
if applicable : electric mot	or						
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity				Seasonal space	e cooling energy		
	Prated,c	12.5	kW	efficiency ηs,c		241.1	%
Declared cooling capacity for part	load at given outdoor	temperatur	es	Declared energy	y efficiency ratio or gas utilization	efficiency /	
Tj and indoor 27°C/19°C(dry/wet bu	ulb)			auxiliary energy	factor for part load at given outde	oor temperatures T	ij
T: . 0500		40.5	1				1
Tj=+35°C	Pdc	12.5	kW	Tj=+35°C	EERd or	358.0	%
Tj=+30°C	Pdc	9.2	kW		GUEc,bin / AEFc,bin		
1]-+30 C	Fuc	5.2] _V vv	Tj=+30°C	EERd or	520.0	%
Tj=+25°C	Pdc	5.9	kW	T:- + 25°0	GUEc,bin / AEFc,bin		
1,1 120 0	. 40	0.0]	Tj=+25°C	EERd or GUEc,bin / AEFc,bin	740.0	%
Tj=+20°C	Pdc	3.3	kW	Tj=+20°C	EERd or		
			1	1]=+20 C	GUEc,bin / AEFc,bin	940.0	%
Degradation			1		0020,511177121 0,5111		I
coefficient for	Cdc	0.25	-				
air conditioners**							
			=				
Power consumpiton in other than '	active mode'						
			,			-	1
Off mode	P_{OFF}	0.020	kW	Crankcase heat	5.0	0.005	kW
Thermostat-off mode	P _{TO}	0.075	kW	Standby mode	P_{SB}	0.020	kW
Other items							1
Capacity control		variable	1	For air-to-air air		6,000	m³/h
Capacity control		variable]	air flow-rate,out	door measured		J
Sound nower level			1				
Sound power level, outdoor	L_{WA}	68.0	dB				
outdoor			1				
If engine driven:			mg/kWh				
Emissions of nitrogen	NOx ***	_	fuel input				
oxides			GCV				
			-				
GWP of the		675	kg CO ₂ eq.				
refrigerant		0.0	(100years)				
	Mitsubishi heavy indu						
** If Cdc is not determined by mea	surement then the de	rault degrad	ation coeffic	ent air conditione	ers snall be 0,25.		
*** from 26 September 2018							
Where information relates to multi-						mance	
of the outdoor unit, with a combina	ition of indoor unit(s) r	ecommend	ed by the ma	nutacturer or imp	orter.		

Information to identify the model(s) to	which the informat	tion relates	: F	FDC125VSX-W	FDUM125VH		
Outdoor side heat exchanger of heat p	oump :	air					
Indoor side heat exchanger of heat pu	mp :	air					
Indication if the heater is equipped wit	h a supplementary			No			
if applicable : electric motor							
Parameters shall be declared for the a	average heating se	eason , para	ameters for th	ne warmer and colder hea	ating seasons are optional.		
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	Symbol	value	Onit		g energy efficiency ηs,h	value	OTIIL
- and the state of	Prated,h	14.0	kW	, , , , , , , , , , , , , , , , , , ,	gg,, - ,-	153.7	%
Declared heating capacity for part load and outdoor temperature Tj	d at indoor temper	ature 20°C			performance or gas utilization for part load at given outdoor		Tj
T _j =-7°C	Pdh	12.4	kW	T _j =-7°C	COPd or GUEh,bin / AEFh,bin	270.0	%
T _j =+2°C	Pdh	7.5	kW	T _j =+2°C	COPd or GUEh,bin / AEFh,bin	370.0	%
T _j =+7°C	Pdh	4.9	kW	T _j =+7°C	COPd or GUEh,bin / AEFh,bin	520.0	%
T _j =+12°C	Pdh	2.9	kW	T _j =+12°C	COPd or GUEh,bin / AEFh,bin	610.0	%
T _{biv} =bivalent temperature	Pdh	14.0	kW	T _{biv} =bivalent temperature	COPd or GUEh,bin / AEFh,bin	220.0	%
T _{OL} =operation limit	Pdh	10.9	kW	T _{OL} =operation limit	COPd or GUEh,bin / AEFh,bin	200.0	%
For air-to-water heat pumps : T _j =-15°C	Pdh	-	kW	For air-to-water heat pumps:T _j =-15°C	COPd or GUEh,bin / AEFh,bin	-	%
(if T _{OL} <-20°C)	_		Joe	(if T _{OL} <-20°C)			i
Bivalent temperature	T_{biv}	-10.0]°C	For water-to-air heat pumps:Operation lim		_	°C
Degradation coefficient	C_dh	0.25	L	T _{ol} temperature			
heat pumps**	Odh	0.20					
			·				
Power consumpiton in modes other th	an 'active mode'			Supplementary heated back-up heating cap	elbu	_	kW
Off mode	P_{OFF}	0.020	kW	back up neating cap	doity		I
Thermostat-off mode	P_{TO}	0.095	kW	Type of energy input	P _{SB}	0.020	kW
Crankcase heater mode	P _{CK}	0.005	kW	Standby mode	35		
Other items							
			_	For air-to-air heat pu	imps:	6000	m³/h
Capacity control		variable]	air flow-rate,outdoor	measured		
Sound power level,	L_{WA}	70.0	dB	For water-/brine-to-a	ir heat pumps :		
outdoor measured	•••]	Rated brine or water outdoor side heat ex		-	m ³ /h
Emissions of nitrogen	NOv		mg/kWh			L.	ı
oxides(if applicable)	NOx ***	_	fuel input				
			GCV				
GWP of the			kg CO₂eq.				
refrigerant		675	(100years)				
Tomgorant			'				
	ubishi heavy indu		-				
** If Cdh is not determined by measure	ement then the de	fault degrad	dation coeffic	ient air conditioners shall	be 0,25.		
*** from 26 September 2018							
Where information relates to multi-spil	t air conditioners,t	he test resi	ult and perfor	mance data be obtained	on the basis of the performa	ince	
of the outdoor unit, with a combination	of indoor unit(s) r	ecommend	led by the ma	anufacturer or importer.			

Model FDUM140VNXWVH

Model(s): FDC140VNX-W	/ FDUM140	VH					
Outdoor side heat exchanger of air	conditioner :	air					
Indoor side heat exchanger of air co	onditioner :	air					
Type: vapour compression							
if applicable : electric moto	or						
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity				Seasonal space	e cooling energy		
	Prated,c	14.0	kW	efficiency ηs,c		228.7	%
Declared cooling capacity for part lo	•	temperatui	res		y efficiency ratio or gas utilization	•	
Tj and indoor 27°C/19°C(dry/wet bu	lb)			auxiliary energy	factor for part load at given outd	loor temperatures T	ij
Tj=+35°C	Pdc	14.0	kW	T: .0500			1
1, 100 0	1 40	14.0],,,,	Tj=+35°C	EERd or	332.0	%
Tj=+30°C	Pdc	10.3	kW	Tj=+30°C	GUEc,bin / AEFc,bin EERd or		
			-	1]-1000	GUEc,bin / AEFc,bin	470.0	%
Tj=+25°C	Pdc	6.6	kW	Tj=+25°C	EERd or	700.0	%
			_		GUEc,bin / AEFc,bin	700.0	70
Tj=+20°C	Pdc	3.3	kW	Tj=+20°C	EERd or	930.0	%
			_		GUEc,bin / AEFc,bin	000.0	70
Degradation							
coefficient for	Cdc	0.25	-				
air conditioners**]				
Power consumpiton in other than 'a	active mode'						
Off mode	P _{OFF}	0.020	kW	Crankcase heat	er mode P _{CK}	0.005	kW
Thermostat-off mode	P _{TO}	0.090	kW	Standby mode	P _{SB}	0.020	kW
	.0		_		05		I
Other items							
			_	For air-to-air air	conditioner:	6,000	m ³ /h
Capacity control		variable		air flow-rate,out	door measured	0,000	1111 711
			,				
Sound power level,	L_WA	69.0	dB				
outdoor	•••]				
			ا ،				
If engine driven:	NOx		mg/kWh				
Emissions of nitrogen	***	_	fuel input				
oxides			GCV				
GWP of the			kg CO₂eq.				
refrigerant		675	(100years)				
Temgerant			_				
Contact details	/litsubishi heavy indu	stries thern	nal systems,L	TD			
** If Cdc is not determined by meas	surement then the de	fault degra	dation coeffic	ient air conditione	rs shall be 0,25.		
*** from 26 September 2018							
Where information relates to multi-s	spilt air conditioners,t	he test res	ult and perfor	mance data be ob	otained on the basis of the perfor	mance	
of the outdoor unit, with a combinat	ion of indoor unit(s) r	ecommend	ded by the ma	nufacturer or imp	orter.		

Information to identify the model(s) to	to which the informati	ion relates	: F	FDC140VNX-W	FDUM140VH		
Outdoor side heat exchanger of hea	t pump :	air					
Indoor side heat exchanger of heat	pump :	air					
Indication if the heater is equipped v	vith a supplementary			No			
if applicable : electric motor							
Parameters shall be declared for the	e average heating se	ason , para	ameters for th	ne warmer and colder hea	ating seasons are optional.		
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	Symbol	value	Offic		g energy efficiency ηs,h	Value	OTIIL
	Prated,h	16.0	kW		gg,, - ,-	156.7	%
Declared heating capacity for part lo and outdoor temperature Tj	ead at indoor temper	ature 20°C			performance or gas utilization for part load at given outdoor	,	Tj
T _j =-7°C	Pdh	11.5	kW	T _j =-7°C	COPd or GUEh,bin / AEFh,bin	290.0	%
T _j =+2°C	Pdh	7.0	kW	T _j =+2°C	COPd or GUEh,bin / AEFh,bin	370.0	%
T _j =+7°C	Pdh	4.5	kW	T _j =+7°C	COPd or GUEh,bin / AEFh,bin	540.0	%
T _j =+12°C	Pdh	2.9	kW	T _j =+12°C	COPd or GUEh,bin / AEFh,bin	600.0	%
T _{biv} =bivalent temperature	Pdh	13.0	kW	T _{biv} =bivalent temperature	COPd or GUEh,bin / AEFh,bin	220.0	%
T _{OL} =operation limit	Pdh	10.3	kW	T _{OL} =operation limit	COPd or GUEh,bin / AEFh,bin	210.0	%
For air-to-water heat pumps : T _i =-15°C	Pdh	-	kW	For air-to-water heat pumps:T _i =-15°C	·	-	%
(if T _{OL} <-20°C)				(if T _{OL} <-20°C)			
Bivalent temperature	T_biv	-10.0]℃	For water-to-air heat pumps:Operation lim		_	°C
Degradation]	T _{ol} temperature			
coefficient	C_{dh}	0.25	-				
heat pumps**			_				
							1
Power consumpiton in modes other	than 'active mode'			Supplementary heated back-up heating capa	elbu	_	kW
Off mode	P _{OFF}	0.020	kW	back-up ficating cap	acity		l
Thermostat-off mode	P _{TO}	0.110	kW	Type of energy input	P _{SB}	0.020	kW
Crankcase heater mode	P _{CK}	0.005	kW	Standby mode	, 2B	0.020	
Other items							
			_	For air-to-air heat pu	mps:	6000	m³/h
Capacity control		variable]	air flow-rate,outdoor	measured	0000	
Sound power level,			1	For water-/brine-to-a	ir heat numns :]
outdoor measured	L_{WA}	71.0	dB	Rated brine or water		_	m ³ /h
			_	outdoor side heat ex			
Emissions of nitrogen	NOx		mg/kWh				
oxides(if applicable)	***	_	fuel input				
			GCV				
			7				
GWP of the		675	kg CO ₂ eq. (100years)				
refrigerant			(100years)				
Contact details M	itsubishi heavy indu	stries thern	nal systems,L	.TD			
** If Cdh is not determined by meas	urement then the de	fault degra	dation coeffic	ient air conditioners shall	be 0,25.		
*** from 26 September 2018							
Where information relates to multi-s	pilt air conditioners,t	he test res	ult and perfor	mance data be obtained	on the basis of the performa	ince	
of the outdoor unit, with a combinati					p		
,			,	,,,,,,			

Model FDUM140VSXWVH

Model(s): FDC140VSX-W	/ FDUM140\	VH							
Outdoor side heat exchanger of air conditioner : air									
Indoor side heat exchanger of air co	onditioner :	air							
Type: vapour compression									
if applicable : electric moto	or								
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit		
Rated cooling capacity				Seasonal space	cooling energy				
	Prated,c	14.0	kW	efficiency ηs,c		228.7	%		
Declared cooling capacity for part lo	_	temperature	es		efficiency ratio or gas utilization	-			
Tj and indoor 27°C/19°C(dry/wet bu	lb)			auxiliary energy	factor for part load at given outdo	or temperatures T	j		
 Tj=+35℃	Pdc	14.0	kW				1		
1]=+35 C	Fuc	14.0]^vv	Tj=+35°C	EERd or	332.0	%		
Tj=+30°C	Pdc	10.3	kW	T: +00%0	GUEc,bin / AEFc,bin				
1, 100 0	1 40	10.0],,,,	Tj=+30°C	EERd or	470.0	%		
Tj=+25°C	Pdc	6.6	kW	Tj=+25°C	GUEc,bin / AEFc,bin EERd or				
			,	1]=+25 C	GUEc,bin / AEFc,bin	700.0	%		
Tj=+20°C	Pdc	3.3	kW	Tj=+20°C	EERd or				
(1	1]=120 C	GUEc,bin / AEFc,bin	930.0	%		
Degradation			1		000,5111771010,5111		I		
coefficient for	Cdc	0.25	_						
air conditioners**									
			1						
Power consumpiton in other than 'a	active mode'								
			.						
Off mode	P _{OFF}	0.020	kW	Crankcase heat	er mode P _{CK}	0.005	kW		
Thermostat-off mode	P_{TO}	0.090	kW	Standby mode	P _{SB}	0.020	kW		
Other items							1		
Canasity assitual		variable	1	For air-to-air air		6,000	m³/h		
Capacity control		variable]	air flow-rate,out	door measured]		
			1						
Sound power level,	L_WA	69.0	dB						
outdoor]						
If angine driven			mg/kWh						
If engine driven: Emissions of nitrogen	NOx	_	fuel input						
oxides	***		GCV						
Oxides			Joov						
GWP of the		675	kg CO₂eq.						
refrigerant		675	(100years)						
	Mitsubishi heavy indus								
** If Cdc is not determined by meas	surement then the def	fault degrad	lation coeffic	ient air conditione	rs shall be 0,25.				
*** from 26 September 2018									
Where information relates to multi-s	spilt air conditioners,t	he test resu	ult and perfor	mance data be ob	tained on the basis of the perforn	nance			
of the outdoor unit, with a combinat	ion of indoor unit(s) r	ecommend	ed by the ma	nufacturer or impo	orter.				

Information to identify the model(s) to	which the informat	ion relates	: F	DC140VSX-W	FDUM140VH		
Outdoor side heat exchanger of heat p	oump :	air					
Indoor side heat exchanger of heat pu	mp :	air					
Indication if the heater is equipped wit	h a supplementan			No			
if applicable : electric motor							
Parameters shall be declared for the a	average heating se	eason , para	ameters for th	ne warmer and colder hea	ating seasons are optional.		
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	Symbol	value	Offic		g energy efficiency ηs,h	value	OTIIL
	Prated,h	16.0	kW		g -11-1 g, -11-11-11 , 1 ₁ -11-1	152.3	%
Declared heating capacity for part load and outdoor temperature Tj	d at indoor tempera	ature 20°C			performance or gas utilization for part load at given outdoor to	,	Tj
T _j =-7°C	Pdh	13.7	kW	T _j =-7°C	COPd or GUEh,bin / AEFh,bin	263.0	%
T _j =+2°C	Pdh	8.4	kW	T _j =+2°C	COPd or GUEh,bin / AEFh,bin	367.0	%
T _j =+7°C	Pdh	5.4	kW	T _j =+7°C	COPd or GUEh,bin / AEFh,bin	519.0	%
T _j =+12°C	Pdh	2.9	kW	T _j =+12°C	COPd or GUEh,bin / AEFh,bin	600.0	%
T _{biv} =bivalent temperature	Pdh	15.5	kW	T _{biv} =bivalent temperature	COPd or GUEh,bin / AEFh,bin	220.0	%
T _{OL} =operation limit	Pdh	11.9	kW	T _{OL} =operation limit	COPd or GUEh,bin / AEFh,bin	200.0	%
For air-to-water heat pumps : T _j =-15°C	Pdh	-	kW	For air-to-water heat pumps:T _j =-15°C	COPd or GUEh,bin / AEFh,bin	-	%
(if T _{OL} <-20°C)	_		٦٥-	(if T _{OL} <-20°C)			i
Bivalent temperature	T_{biv}	-10.0]°C	For water-to-air heat pumps:Operation lim		_	°C
Degradation coefficient	C_dh	0.25		T _{ol} temperature			
heat pumps**	Odh	0.20					
			ا ا				
Power consumpiton in modes other th	an 'active mode'			Supplementary heated	eibu	_	kW
Off mode	P_{OFF}	0.020	kW	back up neating cap	uoity		I
Thermostat-off mode	P_{TO}	0.110	kW	Type of energy input	P _{SB}	0.020	kW
Crankcase heater mode	P _{CK}	0.005	kW	Standby mode	OB .		
Other items							
Capacity control		variable	,	For air-to-air heat pu		6000	m ³ /h
Capacity control			_	all llow-rate,outdoor	measureu		I
Sound power level, outdoor measured	L_{WA}	71.0	dB	For water-/brine-to-a Rated brine or water	fiow-rate,	_	m³/h
Emissions of nitrogen			mg/kWh	outdoor side heat ex	Changer		
oxides(if applicable)	NOx ***	_	fuel input GCV				
GWP of the		675	kg CO ₂ eq.				
refrigerant		073	(100years)				
Outstand datable		- t-i tl		TD			
Contact details Mits ** If Cdh is not determined by measure	subishi heavy indus		-		he 0.25		
	sment then the de	aun acgrac	ation cocinc	ioni dii conditionora andii	, DC 0,20.		
*** from 26 September 2018							
Where information relates to multi-spil					on the basis of the performance	e	
of the outdoor unit, with a combination	of indoor unit(s) r	ecommend	ed by the ma	inufacturer or importer.			

Model FDUM125VNXWPVH

Model(s): FDC125VNX-W	/ FDUM60V	'H (x2 units	3)				
Outdoor side heat exchanger of ai		air	,				
Indoor side heat exchanger of air		air					
Type : vapour compression		all					
if applicable : electric mot	tor						
		Value	I I mile	lt a ma	C. made al	Malua	Llait
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	Prated,c	12.5	kW		e cooling energy	337.7	%
				efficiency ηs,c			, ,
Declared cooling capacity for part	-	temperatu	res	_	y efficiency ratio or gas utilization	-	-:
Tj and indoor 27°C/19°C(dry/wet b	uib)			auxiliary energy	/ factor for part load at given out	door temperatures i	J
Tj=+35°C	Pdc	12.5	kW	T: . 0505			1
1, 100 0	1 40	12.0		Tj=+35°C	EERd or	400.0	%
Tj=+30°C	Pdc	9.2	kW	T: .00°0	GUEc,bin / AEFc,bin		-
1, 100 0	1 40	0.2		Tj=+30°C	EERd or	600.0	%
Tj=+25°C	Pdc	5.9	kW	T: .05°0	GUEc,bin / AEFc,bin		-
., .200	. 40	0.0	١	Tj=+25°C	EERd or	960.0	%
Tj=+20°C	Pdc	3.5	kW	T: +00°0	GUEc,bin / AEFc,bin		-
1, 1200	1 40	0.0		Tj=+20°C	EERd or	1970.0	%
Degradation			1		GUEc,bin / AEFc,bin		J
Degradation	Cdo	0.25					
coefficient for	Cdc		-				
air conditioners**							
Dower consumpiton in other than	laativa mada!						
Power consumpiton in other than	active mode						
Off mode	P _{OFF}	0.015	kW	Crankcase hea	ter mode P _{CK}	0.005	kW
Thermostat-off mode	P _{TO}	0.000	kW	Standby mode	P _{SB}	0.015	kW
	10				35		1
Other items							
				For air-to-air air	conditioner		1 .
Capacity control		variable			tdoor measured	6,000	m ³ /h
				all now-rate,out	door measured		J
Sound power level,							
outdoor	L_{WA}	68.0	dB				
outube.			_				
If engine driven:			mg/kWh				
Emissions of nitrogen	NOx ***	_	fuel input				
oxides			GCV				
Oxides							
GWP of the			kg CO₂eq.				
refrigerant		675	(100years)				
remgerant			_				
Contact details	Mitsubishi heavy indu	stries therr	nal systems.L	.TD			
** If Cdc is not determined by mea					ers shall be 0,25.		
*** from 26 September 2018		-					
Where information relates to multi	-spilt air conditioners t	the test res	sult and perfor	mance data be o	btained on the basis of the perfo	ormance	
of the outdoor unit, with a combina						· · · · · · · · · · · · · · · · · · ·	

Information to identify the model(s) t	o which the informat	ion relates	: F	FDC125VNX-W	FDUM60VH (x2 units)		
Outdoor side heat exchanger of hea	t pump :	air					
Indoor side heat exchanger of heat	pump :	air					
Indication if the heater is equipped v	vith a supplementary			No			
if applicable : electric motor							
Parameters shall be declared for the	e average heating se	eason , par	ameters for th	ne warmer and colder hea	ating seasons are optional.		
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	Symbol	value	T I		g energy efficiency ηs,h	value	Offic
3	Prated,h	14.0	kW		gg,, -	189.0	%
Declared heating capacity for part lo and outdoor temperature Tj	ad at indoor tempera	ature 20°C			performance or gas utilization for part load at given outdoor t	•	Tj
T _j =-7°C	Pdh	10.1	kW	T _j =-7°C	COPd or GUEh,bin / AEFh,bin	310.0	%
T _j =+2°C	Pdh	6.1	kW	T _j =+2°C	COPd or GUEh,bin / AEFh,bin	450.0	%
T _j =+7°C	Pdh	4.0	kW	T _j =+7°C	COPd or GUEh,bin / AEFh,bin	660.0	%
T _j =+12°C	Pdh	2.9	kW	T _j =+12°C	COPd or GUEh,bin / AEFh,bin	880.0	%
T _{biv} =bivalent temperature	Pdh	11.4	kW	T _{biv} =bivalent temperature	COPd or GUEh,bin / AEFh,bin	230.0	%
T _{OL} =operation limit	Pdh	10.0	kW	T _{OL} =operation limit	COPd or GUEh,bin / AEFh,bin	210.0	%
For air-to-water heat pumps : T _j =-15°C	Pdh	-	kW	For air-to-water heat pumps:T _j =-15°C	COPd or GUEh,bin / AEFh,bin	-	%
(if T _{OL} <-20°C)	т.	40.0	J∽	(if T _{OL} <-20°C)			1
Bivalent temperature	T_biv	-10.0]°C ∃	For water-to-air heat pumps:Operation lim		_	°C
Degradation coefficient	C_{dh}	0.25	_	T _{ol} temperature			J
heat pumps**	an	0.20					
			-				
Power consumpiton in modes other	than 'active mode'			Supplementary heated	eibu	_	kW
Off mode	P _{OFF}	0.015	kW	back-up ficating cap	acity		I
Thermostat-off mode	P_{TO}	0.020	kW	Type of energy input	P _{SB}	0.015	kW
Crankcase heater mode	P _{CK}	0.005	kW	Standby mode	0.5		
Other items							
			_	For air-to-air heat pu	mps:	6000	m ³ /h
Capacity control		variable]	air flow-rate,outdoor	measured	0000	1111 711
Sound power level,			1 l	For water-/brine-to-a	ir heat pumps :]
outdoor measured	L_WA	70.0	dB	Rated brine or water		_	m³/h
			- -	outdoor side heat ex	changer		
Emissions of nitrogen	NOx	_	mg/kWh				
oxides(if applicable)	***		fuel input GCV				
]001				
			7				
GWP of the		675	kg CO ₂ eq. (100years)				
refrigerant			J(100)cai3)				
Contact details M	itsubishi heavy indus	stries thern	nal systems,L	.TD			
** If Cdh is not determined by measu	urement then the det	fault degrad	dation coeffic	ient air conditioners shall	be 0,25.		
*** from 26 September 2018							
Where information relates to multi-s	pilt air conditioners,t	he test res	ult and perfor	mance data be obtained	on the basis of the performan	ce	
of the outdoor unit, with a combination					 		
,			.,				

Model FDUM125VSXWPVH

Model(s): FDC125VSX-W	/ FDUM60V	H (x2 units)				
Outdoor side heat exchanger of air	conditioner :	air					
Indoor side heat exchanger of air co	onditioner :	air					
Type: vapour compression							
if applicable : electric moto	or						
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity				Seasonal space	e cooling energy		
	Prated,c	12.5	kW	efficiency ηs,c		337.7	%
Declared cooling capacity for part lo	=	temperatur	res		y efficiency ratio or gas utilization	•	
Tj and indoor 27°C/19°C(dry/wet bul	lb)			auxiliary energy	factor for part load at given outo	loor temperatures T	j
 Tj=+35℃	Pdc	12.5	kW	T: .0500			1
1, 100 0	1 40	12.0],,,,	Tj=+35℃	EERd or	400.0	%
Tj=+30°C	Pdc	9.2	kW	Tj=+30°C	GUEc,bin / AEFc,bin EERd or		
			-	1]-1000	GUEc,bin / AEFc,bin	600.0	%
Tj=+25°C	Pdc	5.9	kW	Tj=+25°C	EERd or	960.0	%
			_		GUEc,bin / AEFc,bin	960.0	70
Tj=+20°C	Pdc	3.5	kW	Tj=+20°C	EERd or	1970.0	%
			_		GUEc,bin / AEFc,bin	1070.0	,,,
Degradation							
coefficient for	Cdc	0.25	-				
air conditioners**]				
Power consumpiton in other than 'a	ctive mode'						
Off mode	P _{OFF}	0.015	kW	Crankcase heat	ter mode P _{CK}	0.005	kW
Thermostat-off mode	P _{TO}	0.000	kW	Standby mode	P _{SB}	0.015	kW
			_		05		I
Other items							
			_	For air-to-air air	conditioner:	6,000	m ³ /h
Capacity control		variable		air flow-rate,out	door measured	0,000	1111 711
			_				
Sound power level,	L_WA	68.0	dB				
outdoor	WA		Ĭ				
			, l				
If engine driven:	NOx		mg/kWh				
Emissions of nitrogen	***	_	fuel input				
oxides			GCV				
GWP of the			kg CO₂eq.				
		675	(100years)				
refrigerant			_				
Contact details M	litsubishi heavy indu	stries thern	nal systems,L	.TD			
** If Cdc is not determined by meas					ers shall be 0,25.		
*** from 26 September 2018							
Where information relates to multi-s	spilt air conditioners,t	he test res	ult and perfor	mance data be ob	otained on the basis of the perfor	mance	
of the outdoor unit, with a combinate	ion of indoor unit(s) r	ecommend	ded by the ma	nufacturer or imp	orter.		

Information to identify the model(s)	to which the informat	ion relates	: F	DC125VSX-W	FDUM60VH (x2 units)		
Outdoor side heat exchanger of hea	at pump :	air					
Indoor side heat exchanger of heat	pump :	air					
Indication if the heater is equipped	with a supplementary			No			
if applicable : electric moto	- vr						
Parameters shall be declared for the	e average heating se	eason , para	ameters for th	ne warmer and colder hea	ating seasons are optional.		
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	Gymbol	Value			g energy efficiency ηs,h	Value	OTINE .
<u> </u>	Prated,h	14.0	kW			181.1	%
Declared heating capacity for part lo and outdoor temperature Tj	oad at indoor tempera	ature 20°C		1	performance or gas utilization for part load at given outdoor t	•	Tj
T _j =-7°C	Pdh	12.4	kW	T _j =-7°C	COPd or GUEh,bin / AEFh,bin	290.0	%
T _j =+2°C	Pdh	7.5	kW	T _j =+2°C	COPd or GUEh,bin / AEFh,bin	440.0	%
T _j =+7°C	Pdh	4.9	kW	T _j =+7°C	COPd or GUEh,bin / AEFh,bin	600.0	%
T _j =+12°C	Pdh	2.9	kW	T _j =+12°C	COPd or GUEh,bin / AEFh,bin	880.0	%
T _{biv} =bivalent temperature	Pdh	14.0	kW	T _{biv} =bivalent temperature	COPd or GUEh,bin / AEFh,bin	230.0	%
T _{OL} =operation limit	Pdh	10.9	kW	T _{OL} =operation limit	COPd or GUEh,bin / AEFh,bin	210.0	%
For air-to-water heat pumps : T _j =-15°C	Pdh	-	kW	For air-to-water heat pumps:T _j =-15°C	COPd or GUEh,bin / AEFh,bin	-	%
(if T _{OL} <-20°C)	.		700	(if T _{OL} <-20°C)			Ī
Bivalent temperature	T_{biv}	-10.0]°C	For water-to-air heat pumps:Operation lim		_	°C
Degradation coefficient	C_dh	0.25	_	T _{ol} temperature			l
heat pumps**	oun						
Power consumpiton in modes other	than 'active mode'			Supplementary heated	elbu	_	kW
Off mode	P _{OFF}	0.015	kW	back-up ficating cap	acity		I
Thermostat-off mode	P_{TO}	0.020	kW	Type of energy input	P _{SB}	0.015	kW
Crankcase heater mode	P _{CK}	0.005	kW	Standby mode	- 35		
Other items							
			_	For air-to-air heat pu	mps:	6000	m ³ /h
Capacity control		variable	_	air flow-rate,outdoor	measured]
Sound power level,			1 I	For water-/brine-to-a	ir heat numns :]
outdoor measured	L_{WA}	70.0	dB	Rated brine or water		_	m ³ /h
			_	outdoor side heat ex			
Emissions of nitrogen	NOx		mg/kWh				
oxides(if applicable)	***	_	fuel input GCV				
			JGCV				
			_				
GWP of the		675	kg CO ₂ eq.				
refrigerant			(100years)				
Contact details M	litsubishi heavy indus	stries therm	nal systems,L	.TD			
** If Cdh is not determined by meas	-				be 0,25.		
*** from 26 September 2018							
Where information relates to multi-s	snilt air conditioners t	he test resi	ult and nerfor	mance data he obtained	on the basis of the performan	re	
of the outdoor unit, with a combinati					on the basis of the performant	00	
Tor the outdoor unit, with a combinati	ion of indoor driit(s) is	ecommend	led by the ma	indiacturer of importer.			

Model FDUM140VNXWPVH

Model(s): FDC140VNX-W	/ FDUM71V	H (x2 units	;)				
Outdoor side heat exchanger of air	conditioner :	air					
Indoor side heat exchanger of air co	onditioner :	air					
Type: vapour compression							
if applicable : electric moto	r						
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity				Seasonal space	e cooling energy		
	Prated,c	14.0	kW	efficiency ηs,c		325.3	%
		<u> </u>	1				
Declared cooling capacity for part lo	•	temperatui	res		y efficiency ratio or gas utilization	•	
Tj and indoor 27°C/19°C(dry/wet bul	lb)			auxiliary energy	factor for part load at given outd	oor temperatures T	j
 Tj=+35℃	Pdc	14.0	kW	T: .0500			
1, 100 0	1 40	14.0		Tj=+35°C	EERd or	380.0	%
Tj=+30°C	Pdc	10.3	kW	Tj=+30°C	GUEc,bin / AEFc,bin EERd or		
			_	1]-1000	GUEc,bin / AEFc,bin	580.0	%
Tj=+25°C	Pdc	6.6	kW	Tj=+25°C	EERd or	920.0	%
			_		GUEc,bin / AEFc,bin	920.0	70
Tj=+20°C	Pdc	3.4	kW	Tj=+20°C	EERd or	1820.0	%
			_		GUEc,bin / AEFc,bin	1020.0	,,,
Degradation							
coefficient for	Cdc	0.25	-				
air conditioners**]				
Power consumpiton in other than 'a	ctive mode'						
Off mode	P _{OFF}	0.015	kW	Crankcase heat	er mode P _{CK}	0.005	kW
Thermostat-off mode	P _{TO}	0.000	kW	Standby mode	P _{SB}	0.015	kW
			_		35		
Other items							
			_	For air-to-air air	conditioner:	6,000	m ³ /h
Capacity control		variable		air flow-rate,out	door measured	0,000	111 711
			_				
Sound power level,	L_WA	69.0	dB				
outdoor	•••]				
			ا ا				
If engine driven:	NOx		mg/kWh				
Emissions of nitrogen	***	-	fuel input				
oxides			GCV				
GWP of the			kg CO₂eq.				
refrigerant		675	(100years)				
Telligerant			_				
Contact details M	litsubishi heavy indu	stries thern	nal systems,L	TD			
** If Cdc is not determined by meas					rs shall be 0,25.		
*** from 26 September 2018							
Where information relates to multi-s	spilt air conditioners,t	the test res	ult and perfor	mance data be ob	otained on the basis of the perfor	mance	
of the outdoor unit, with a combinate	ion of indoor unit(s) r	ecommend	ded by the ma	nufacturer or imp	orter.		

Information to identify the model(s) to	which the informat	tion relates	: F	DC140VNX-W	FDUM71VH (x2 units)		
Outdoor side heat exchanger of heat	pump :	air			<u> </u>		
Indoor side heat exchanger of heat pu	ump :	air					
Indication if the heater is equipped wi	th a supplementary			No			
if applicable : electric motor							
Parameters shall be declared for the	average heating se	eason , para	ameters for th	ne warmer and colder hea	ating seasons are optional.		
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	Prated,h	16.0	kW		g energy efficiency ηs,h	193.6	%
Declared heating capacity for part loa	d at indoor temper	ature 20°C	1	Declared coefficient of	performance or gas utilization	efficiency /	
and outdoor temperature Tj	·				for part load at given outdoor t	•	Tj
T _j =-7°C	Pdh	11.5	kW	T _j =-7°C	COPd or GUEh,bin / AEFh,bin	310.0	%
T _j =+2°C	Pdh	7.0	kW	T _j =+2°C	COPd or GUEh,bin / AEFh,bin	460.0	%
T _j =+7°C	Pdh	4.5	kW	T _j =+7°C	COPd or GUEh,bin / AEFh,bin	690.0	%
T _j =+12°C	Pdh	2.9	kW	T _j =+12°C	COPd or GUEh,bin / AEFh,bin	890.0	%
T _{biv} =bivalent temperature	Pdh	13.0	kW	T _{biv} =bivalent temperature	COPd or GUEh,bin / AEFh,bin	230.0	%
T _{OL} =operation limit	Pdh	10.3	kW	T _{OL} =operation limit	COPd or GUEh,bin / AEFh,bin	220.0	%
For air-to-water heat pumps : T _j =-15°C	Pdh	-	kW	For air-to-water heat pumps:T _j =-15°C	COPd or GUEh,bin / AEFh,bin	-	%
(if T _{OL} <-20°C)			_	(if T _{OL} <-20°C)			
Bivalent temperature	T_biv	-10.0	℃	For water-to-air heat pumps:Operation lim		_	°C
Degradation	0	0.05		T _{ol} temperature			
coefficient heat pumps**	C_{dh}	0.25	-				
near pumps			·				
Power consumpiton in modes other the	nan 'active mode'			Supplementary heat	er		kW
·			,	back-up heating cap	eibu		KVV
Off mode Thermostat-off mode	P _{OFF} P _{TO}	0.015 0.020	kW	To a of a constant			1
Crankcase heater mode	P _{CK}	0.020	kW	Type of energy input Standby mode	P _{SB}	0.015	kW
Other items							
Capacity control		variable]	For air-to-air heat pu air flow-rate,outdoor		6000	m³/h
Sound power level,			1	For water-/brine-to-a	ir heat numns :]
outdoor measured	L_{WA}	71.0	dB	Rated brine or water outdoor side heat ex	fiow-rate,	_	m ³ /h
Emissions of nitrogen	NOx	_	mg/kWh				ı
oxides(if applicable)	***		fuel input GCV				
GWP of the		075	kg CO₂eq.				
refrigerant		675	(100years)				
Contact details Mit	subishi heavy indus	stries therm	nal svstems.L	.TD			
** If Cdh is not determined by measur			-		be 0,25.		
*** from 26 September 2018							
Where information relates to multi-sp	ilt air conditioners.t	he test resi	ult and perfor	mance data be obtained	on the basis of the performan	ice	
of the outdoor unit, with a combination					I I I I I I I I I I I I I I I I		
,	-(-).	- · -	,	F			

Model FDUM140VSXWPVH

Model(s): FDC140VSX-W	/ FDUM71V	H (x2 units)					
Outdoor side heat exchanger of air	conditioner :	air						
Indoor side heat exchanger of air co	onditioner :	air						
Type: vapour compression								
if applicable : electric moto	or							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit	
Rated cooling capacity				Seasonal space	e cooling energy			
	Prated,c	14.0	kW	efficiency ηs,c		325.3	%	
Declared cooling capacity for part load at given outdoor temperatures			Declared energy efficiency ratio or gas utilization efficiency /					
Tj and indoor 27°C/19°C(dry/wet bulb)			auxiliary energy factor for part load at given outdoor temperatures Tj					
 Tj=+35℃	Pdc	14.0	kW	T: .0500				
1, 100 0	1 40	14.0],,,,	Tj=+35℃	EERd or	380.0	%	
Tj=+30°C	Pdc	10.3	kW	Tj=+30°C	GUEc,bin / AEFc,bin EERd or			
			_	1]-1000	GUEc,bin / AEFc,bin	580.0	%	
Tj=+25°C	Pdc	6.6	kW	Tj=+25°C	EERd or	920.0	%	
					GUEc,bin / AEFc,bin	920.0	70	
Tj=+20°C	Pdc	3.4	kW	Tj=+20°C	EERd or	1820.0	%	
			_		GUEc,bin / AEFc,bin	1020.0	,,,	
Degradation								
coefficient for	Cdc	0.25	-					
air conditioners**								
Power consumpiton in other than 'a	ctive mode'							
Off mode	P _{OFF}	0.015	kW	Crankcase heat	er mode P _{CK}	0.005	kW	
Thermostat-off mode	P _{TO}	0.000	kW	Standby mode	P _{SB}	0.015	kW	
			_		35			
Other items								
			_	For air-to-air air	conditioner:	6,000	m ³ /h	
Capacity control		variable		air flow-rate,out	door measured	0,000	111 711	
			,					
Sound power level,	L_WA	69.0	dB					
outdoor								
			,					
If engine driven:	NOx		mg/kWh					
Emissions of nitrogen	***	_	fuel input					
oxides			GCV					
GWP of the			kg CO₂eq.					
refrigerant		675	(100years)					
Temgerant			_					
Contact details	litsubishi heavy indu	stries thern	nal systems,L	.TD				
** If Cdc is not determined by meas	urement then the de	fault degra	dation coeffic	ient air conditione	rs shall be 0,25.	<u> </u>		
*** from 26 September 2018								
Where information relates to multi-spilt air conditioners, the test result and performance data be obtained on the basis of the performance								
of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.								

Information to identify the model(s) to	o which the informat	tion relates	: F	FDC140VSX-W	FDUM71VH (x2 units)			
Outdoor side heat exchanger of hea	it pump :	air						
Indoor side heat exchanger of heat pump : air								
Indication if the heater is equipped with a supplementary heater : No								
if applicable : electric motor	r							
Parameters shall be declared for the average heating season , parameters for the warmer and colder heating seasons are optional.								
Item Symbol Value Unit Item Symbol Value Unit								
Rated heating capacity	Prated,h	16.0	kW		g energy efficiency ηs,h	184.0	%	
Declared heating capacity for part load at indoor temperature 20°C and outdoor temperature Tj				Declared coefficient of performance or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj				
T _j =-7°C	Pdh	13.7]kW	T _j =-7°C	COPd or	290.0	%	
T _j =+2°C	Pdh	8.4	kW	T _j =+2°C	GUEh,bin / AEFh,bin COPd or	440.0	%	
T _j =+7°C	Pdh	5.4	kW	T _j =+7°C	GUEh,bin / AEFh,bin COPd or	640.0	%	
T _j =+12°C	Pdh	2.9	kW	GUEh,bin / AEFh,bin T _j =+12°C COPd or GUEh,bin / AEFh,bin		890.0	%	
T _{biv} =bivalent temperature	Pdh	15.5	kW	T _{biv} =bivalent temperature	COPd or GUEh,bin / AEFh,bin	220.0	%	
T _{OL} =operation limit	Pdh	11.9	kW	T _{OL} =operation limit	COPd or GUEh,bin / AEFh,bin	200.0	%	
For air-to-water heat pumps : T _j =-15°C	Pdh	-	kW	For air-to-water heat pumps:T _j =-15°C	·	-	%	
(if T _{OL} <-20°C)				(if T _{OL} <-20°C)			_	
Bivalent temperature	T_{biv}	-10.0]°C	For water-to-air heat pumps:Operation lim	_	°C		
Degradation		0.05		T _{ol} temperature			l	
coefficient heat pumps**	C_{dh}	0.25]					
Power consumpiton in modes other than 'active mode'				Supplementary heater elbu – kW back-up heating capacity				
Off mode Thermostat-off mode Crankcase heater mode	P _{OFF} P _{TO} P _{CK}	0.015 0.020 0.005	kW kW kW	Type of energy input P _{SB}			kW	
Chankcase heater mode	i CK	0.003	7,44	Standby mode			İ	
Other items				For air-to-air heat pu	ımps:	6000	3/1-	
Capacity control		variable]	air flow-rate,outdoor	measured	6000	m ³ /h	
Sound power level, outdoor measured	L_WA	71.0	dB	For water-/brine-to-air heat pumps : Rated brine or water flow-rate, outdoor side heat exchanger			m³/h	
Emissions of nitrogen oxides(if applicable)	NOx ***	_	mg/kWh fuel input GCV					
GWP of the refrigerant		675	kg CO ₂ eq. (100years)					
Contact details M	itsubishi heavy indus	stries therm	nal systems.L	TD				
** If Cdh is not determined by measi	-				l be 0,25.			
*** from 26 September 2018								
Where information relates to multi-spilt air conditioners, the test result and performance data be obtained on the basis of the performance								
of the outdoor unit, with a combinati					on the basis of the perionia	mee		

Model FDUM140VNXWTVH

Model(s): FDC140VNX-W	/ FDUM50V	'H (x3 units	5)				
Outdoor side heat exchanger of ai	r conditioner :	air					
Indoor side heat exchanger of air	conditioner :	air					
Type: vapour compression							
if applicable : electric mot	tor						
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity				Seasonal space	e cooling energy		
	Prated,c	14.0	kW	efficiency ηs,c		347.9	%
Declared cooling capacity for part	load at given outdoor	temperatu	res	Declared energ	y efficiency ratio or gas utilizatio	n efficiency /	
Tj and indoor 27°C/19°C(dry/wet b	ulb)			auxiliary energy	factor for part load at given out	door temperatures T	j
			_				1
Tj=+35°C	Pdc	14.0	kW	Tj=+35°C	EERd or	370.0	%
			7		GUEc,bin / AEFc,bin		
Tj=+30°C	Pdc	10.3	kW	Tj=+30°C	EERd or	580.0	%
T: . 0500	5.1		٦.,,,		GUEc,bin / AEFc,bin		-
Tj=+25°C	Pdc	6.6	kW	Tj=+25°C	EERd or	970.0	%
T:00°0	Dde		7		GUEc,bin / AEFc,bin		-
Tj=+20°C	Pdc	3.7	kW	Tj=+20°C	EERd or	2580.0	%
			7		GUEc,bin / AEFc,bin		J
Degradation	0.1-	0.25					
coefficient for	Cdc	0.20	-				
air conditioners**							
Power consumpiton in other than	active mode!						
i ower consumption in other than	active mode						
Off mode	P _{OFF}	0.015	kW	Crankcase hea	ter mode P _{CK}	0.005	kW
Thermostat-off mode	P_{TO}	0.000	kW	Standby mode	P_SB	0.015	kW
			_				
Other items							
				For air-to-air air	conditioner:	6,000	m ³ /h
Capacity control		variable		air flow-rate,out	tdoor measured	0,000	
			_				
Sound power level,	L_WA	69.0	dB				
outdoor	WA						
			_				
If engine driven:	NOx		mg/kWh				
Emissions of nitrogen	***	_	fuel input				
oxides			GCV				
			٦ ا				
GWP of the		675	kg CO ₂ eq. (100years)				
refrigerant			_(Tooyearo)				
On the state the	NATA	- 4-1 41		TD.			
Contact details ** If Cdc is not determined by mea	Mitsubishi heavy indu				ers shall be 0.25		
*** from 26 September 2018	uicin the ue	uogia		a oondiddie	5.16.1. 50 0,20.		
·	enilt air conditionass	the toot ro-	rult and north	mance data ba	htained on the hoois of the safe	ormance	
Where information relates to multi of the outdoor unit, with a combina						лнансе	
or the outdoor unit, with a combine	ation of indoor drift(S) I	CCOMMICH	aca by the file	maracturer or illip	onor.		

Information to identify the model(s) to which the information relates : FDC140VNX-W / FDUM50VH (x3 units)										
Outdoor side heat exchanger of he	at pump :	air								
Indoor side heat exchanger of heat	pump :	air								
Indication if the heater is equipped	with a supplementary			No						
if applicable : electric moto	or									
Parameters shall be declared for th	ne average heating se	eason , para	ameters for th	ne warmer and colder hea	ating seasons are optional.					
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit			
Rated heating capacity	Prated,h	16.0	kW		g energy efficiency ηs,h	187.0	%			
Declared heating capacity for part I	load at indoor temper	ature 20°C		Declared coefficient of	performance or gas utilization	n efficiency /				
and outdoor temperature Tj	odd at maoor tompon	31010 20 0			for part load at given outdoor		Tj			
T _j =-7°C	Pdh	11.5	kW	T _j =-7°C	COPd or GUEh,bin / AEFh,bin	300.0	%			
T _j =+2°C	Pdh	7.0	kW	T _j =+2°C	COPd or GUEh,bin / AEFh,bin	450.0	%			
T _j =+7°C	Pdh	4.5	kW	T _j =+7°C	COPd or GUEh,bin / AEFh,bin	640.0	%			
T _j =+12°C	Pdh	3.0	kW	T _j =+12°C	COPd or GUEh,bin / AEFh,bin	890.0	%			
T _{biv} =bivalent temperature	Pdh	13.0	kW	T _{biv} =bivalent temperature	COPd or GUEh,bin / AEFh,bin	230.0	%			
T _{OL} =operation limit	Pdh	10.3	kW	T _{OL} =operation limit	COPd or GUEh,bin / AEFh,bin	220.0	%			
For air-to-water heat pumps : T _j =-15°C	Pdh	-	kW	For air-to-water heat pumps:T _j =-15°C	COPd or GUEh,bin / AEFh,bin	-	%			
(if T _{OL} <-20°C)			ا ا	(if T _{OL} <-20°C)			1			
Bivalent temperature	T_{biv}	-10.0]°C	For water-to-air heat pumps:Operation lim		_	°C			
Degradation coefficient	C_dh	0.25		T _{ol} temperature						
heat pumps**	Odh	0.20								
Power consumpiton in modes othe	r than 'active mode'			Supplementary heated	eibu	_	kW			
Off mode	P _{OFF}	0.015	kW	раск-ир пеаніну сар	аспу		l			
Thermostat-off mode	P _{TO}	0.020	kW	Type of energy input	P _{SB}	0.015	kW			
Crankcase heater mode	P _{CK}	0.005	kW	Standby mode			ļ			
Other items										
Capacity control		variable]	For air-to-air heat pu air flow-rate,outdoor		6000	m ³ /h			
			,				1			
Sound power level, outdoor measured	L _{WA}	71.0	dB	For water-/brine-to-a Rated brine or water outdoor side heat ex	fiow-rate,	_	m³/h			
Emissions of nitrogen	NOv		mg/kWh	outdoor side fiedt ex	changer		1			
oxides(if applicable)	NOx ***	_	fuel input GCV							
]007							
GWP of the		675	kg CO₂eq.							
refrigerant		6/5	(100years)							
Contact details Mitsubishi heavy industries thermal systems,LTD										
** If Cdh is not determined by measurement then the default degradation coefficient air conditioners shall be 0,25.										
*** from 26 September 2018										
Where information relates to multi-	enilt air conditioners t	the test res	ult and nerfor	mance data he obtained	on the basis of the performan	nce				
of the outdoor unit, with a combination					on the basis of the performal	100				
or the outdoor drift, with a combine	non or macor anit(o) i	COOTHINGING	ica by the ma	indiadardi di importor.						

Model FDUM140VSXWTVH

Model(s): FDC140VSX-W	/ FDUM50V	H (x3 units))				
Outdoor side heat exchanger of air co	onditioner :	air					
Indoor side heat exchanger of air con	ditioner :	air					
Type: vapour compression							
if applicable : electric motor							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity				Seasonal space	cooling energy		
	Prated,c	14.0	kW	efficiency ηs,c		347.9	%
Declared cooling capacity for part loa	d at given outdoor	temperatur	es	Declared energy	efficiency ratio or gas utilization e	efficiency /	
Tj and indoor 27°C/19°C(dry/wet bulb))			auxiliary energy	factor for part load at given outdoo	or temperatures T	j
T: .05°0	Dile	44.0	1,,,,				1
Tj=+35°C	Pdc	14.0	kW	Tj=+35°C	EERd or	370.0	%
Tj=+30°C	Pdc	10.3	kW		GUEc,bin / AEFc,bin		
1j=+30 C	Puc	10.3	JKVV	Tj=+30°C	EERd or	580.0	%
Tj=+25°C	Pdc	6.6	kW		GUEc,bin / AEFc,bin		
1,1-1200	1 40	0.0],,,,	Tj=+25°C	EERd or	970.0	%
Tj=+20°C	Pdc	3.7	kW	T:- + 20°0	GUEc,bin / AEFc,bin		
,, 120 0	. 45	•]	Tj=+20°C	EERd or GUEc,bin / AEFc,bin	2580.0	%
Degradation			1		GOEC, DITT AEPC, DITT		
coefficient for	Cdc	0.25	_				
air conditioners**	000						
			1				
Power consumpiton in other than 'act	ive mode'						
Off mode	P _{OFF}	0.015	kW	Crankcase heat	er mode P _{CK}	0.005	kW
Thermostat-off mode	P_{TO}	0.000	kW	Standby mode	P_{SB}	0.015	kW
Other items							ı
			,	For air-to-air air	conditioner:	6,000	m³/h
Capacity control		variable]	air flow-rate,out	door measured		
			,				
Sound power level,	L_WA	69.0	dB				
outdoor			<u> </u>				
			1				
If engine driven:	NOx	_	mg/kWh				
Emissions of nitrogen	***		fuel input				
oxides			GCV				
GWP of the			kg CO₂eq.				
refrigerant		675	(100years)				
reingerant		L	1				
Contact details Mit	subishi heavy indus	stries therm	nal systems,L	TD			
** If Cdc is not determined by measur	ement then the def	fault degrac	dation coeffic	ient air conditione	rs shall be 0,25.		
*** from 26 September 2018							
Where information relates to multi-sp	ilt air conditioners,t	he test resu	ult and perfor	mance data be ob	tained on the basis of the perform	ance	
of the outdoor unit, with a combination	n of indoor unit(s) re	ecommend	ed by the ma	nufacturer or impo	orter.		

Information to identify the model(s) to which the information relates : FDC140VSX-W / FDUM50VH (x3 units)										
Outdoor side heat exchanger of h		air			· · · · · · · · · · · · · · · · · · ·					
Indoor side heat exchanger of hea	at pump :	air								
Indication if the heater is equippe	d with a supplementary			No						
if applicable : electric mo	otor									
Parameters shall be declared for	the average heating se	eason , para	ameters for th	ne warmer and colder hea	ating seasons are optional.					
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit			
Rated heating capacity	Prated,h	16.0	kW		g energy efficiency ηs,h	177.6	%			
Declared heating capacity for par and outdoor temperature Tj	t load at indoor tempera	ature 20°C		Declared coefficient of performance or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj						
T _j =-7°C	Pdh	13.7	kW	T _j =-7°C	COPd or	260.0	%			
T _j =+2°C	Pdh	8.4	kW	T _j =+2°C	GUEh,bin / AEFh,bin COPd or	440.0	%			
T _j =+7°C	Pdh	5.4]kW	T _j =+7°C	GUEh,bin / AEFh,bin COPd or GUEh,bin / AEFh,bin	600.0	%			
T _j =+12°C	Pdh	3.0	kW	T _j =+12°C	COPd or GUEh,bin / AEFh,bin	890.0	%			
T _{biv} =bivalent temperature	Pdh	15.5	kW	T _{biv} =bivalent temperature	COPd or GUEh,bin / AEFh,bin	220.0	%			
T _{OL} =operation limit	Pdh	11.9	kW	T _{OL} =operation limit	COPd or GUEh,bin / AEFh,bin	220.0	%			
For air-to-water heat pumps : T_j =-15°C (if T_{OL} <-20°C)	Pdh	-	kW	For air-to-water heat pumps:T _j =-15°C (if T _{OL} <-20°C)	COPd or GUEh,bin / AEFh,bin	-	%			
Bivalent temperature	T _{biv}	-10.0]℃	For water-to-air heat pumps:Operation lim		_	°C			
Degradation coefficient heat pumps**	C_dh	0.25]-	T _{ol} temperature	iit.					
Power consumpiton in modes oth Off mode Thermostat-off mode Crankcase heater mode	er than 'active mode' P _{OFF} P _{TO} P _{CK}	0.015 0.020 0.005	kW kW kW	Supplementary heated back-up heating cape Type of energy input Standby mode	acity	0.015	kW			
Other items										
Capacity control	1	variable]	For air-to-air heat pu air flow-rate,outdoor		6000	m ³ /h			
Sound power level, outdoor measured	L _{WA}	71.0	dB	For water-/brine-to-a Rated brine or water outdoor side heat ex	fiow-rate,	_	m³/h			
Emissions of nitrogen oxides(if applicable)	NOx ***	_	mg/kWh fuel input GCV							
GWP of the refrigerant		675	kg CO₂eq. (100years)							
Contact details Mitsubishi heavy industries thermal systems,LTD										
** If Cdh is not determined by me			-		be 0,25.					
*** from 26 September 2018										
Where information relates to mult	ri-snilt air conditioners t	he test resi	ult and nerfor	mance data he obtained	on the basis of the performan	ice				
of the outdoor unit, with a combin					on the basis of the penorman	ice				

Models FDUM50VH, 60VH, 71VH, 100VH, 125VH, 140VH

Model(s): FDUM50VH								
Item	Symbol	Vaiue	Unit	Item	Symbol	Vaiue	Unit	
Cooling capacity (sensible)	Prated,c	3.7	kW	Total electric power input	Pelec	0.100	kW	
Cooling capacity (latent)	Prated,c	1.3	kW	Sound power level (per speed setting,if applicable)	LWA	60.0	dB	
Heating capacity	Prated,h	5.4	kW					
Contact details	Mitsubishi heavy industries thermal systems,LTD							

Model(s): FDUM60VH											
Item	Symbol	Vaiue	Unit	Item	Symbol	Vaiue	Unit				
Cooling capacity (sensible)	Prated,c	3.9	kW	Total electric power input	Pelec	0.160	kW				
Cooling capacity (latent)	Prated,c	1.7	kW	Sound power level (per speed setting,if applicable)	LWA	60.0	dB				
Heating capacity	Prated,h	6.7	kW								
Contact details	Mitsubishi I	neavy ind	ustries the	ermal systems,LTD							

Model(s): FDUM71VH										
Item	Symbol	Vaiue	Unit	Item	Symbol	Vaiue	Unit			
Cooling capacity (sensible)	Prated,c	5.8	kW	Total electric power input	Pelec	0.200	kW			
Cooling capacity (latent)	Prated,c	1.3	kW	Sound power level (per speed setting,if applicable)	LWA	65.0	dB			
Heating capacity	Prated,h	8.0	kW							
Contact details	Mitsubishi I	Mitsubishi heavy industries thermal systems,LTD								

Model(s): FDUM100VH									
Item	Symbol	Vaiue	Unit	Item	Symbol	Vaiue	Uni		
Cooling capacity (sensible)	Prated,c	7.7	kW	Total electric power input	Pelec	0.290	kW		
Cooling capacity (latent)	Prated,c	2.3	kW	Sound power level (per speed setting,if applicable)	LWA	65.0	dB		
Heating capacity	Prated,h	11.2	kW						
Contact details	Mitsubishi I	Mitsubishi heavy industries thermal systems,LTD							

Model(s): FDUM125VH									
Item	Symbol	Vaiue	Unit	Item	Symbol	Vaiue	Unit		
Cooling capacity (sensible)	Prated,c	10.5	kW	Total electric power input	Pelec	0.330	kW		
Cooling capacity (latent)	Prated,c	2.0	kW	Sound power level (per speed setting,if applicable)	LWA	67.0	dB		
Heating capacity	Prated,h	14.0	kW						
Contact details	Mitsubishi I	Mitsubishi heavy industries thermal systems,LTD							

Model(s): FDUM140VH								
Item	Symbol	Vaiue	Unit	Item	Symbol	Vaiue	Unit	
Cooling capacity (sensible)	Prated,c	11.2	kW	Total electric power input	Pelec	0.450	kW	
Cooling capacity (latent)	Prated,c	2.8	kW	Sound power level (per speed setting,if applicable)	LWA	70.0	dB	
Heating capacity	Prated,h	16.0	kW					
Contact details	Mitsubishi heavy industries thermal systems,LTD							

(5) Ceiling suspended type (FDE)

Model FDE100VNXWVH

Information to identify the mode Indoor unit model name	(s) to which the info		If function includes heating: Indicate the heating season the information relates to. Indicated values should relate to one					
Outdoor unit model name	FDC100VH		heating season at a time. Include at least the heating season 'Average'.					
	•							
Function(indicate if present)	Yes		Average(mandatory)	Yes No				
cooling heating	Yes		Warmer(if designated) Colder(if designated)	No				
g			ondor(in doorginated)					
Item	symbol v	alue unit	Item	symbol	value	class		
Design load	Ddooigno	10.0 kW	Seasonal efficiency and energy efficiency	cy class SEER	7.00	A++		
cooling heating / Average	Pdesignc Pdesignh	11.2 kW	cooling heating / Average	SCOP/A	4.24	A++		
heating / Warmer	Pdesignh	- kW	heating / Warmer	SCOP/W	-	-		
heating / Colder	Pdesignh	- kW	heating / Colder	SCOP/C	-	-		
		•				unit		
Declared capacity at outdoor ter		44.0	Back up heating capacity at outdoor ten			TLAM		
heating / Average (-10°C) heating / Warmer (2°C)	Pdh Pdh	11.2 kW - kW	heating / Average (-10°C) heating / Warmer (2°C)	elbu elbu	-	kW kW		
heating / Colder (-22°C)	Pdh	- kW	heating / Colder (-22°C)	elbu		kW		
,	-	l .	,			1		
Declared capacity for cooling, at	indoor temperature	27(19)°C and	Declared energy efficiency ratio, at indo	or temperatur	re 27(19)°C	and		
outdoor temperature Tj	D.I.	40.00	outdoor temperature Tj	EED4	4.00	7		
Tj=35°C Tj=30°C	Pdc Pdc	10.00 kW 7.30 kW	Tj=35°C Tj=30°C	EERd EERd	4.29 6.00	-		
Tj=25°C	Pdc	4.70 kW	Ti=25°C	EERd	9.90	1_		
Tj=20°C	Pdc	3.20 kW	Tj=20°C	EERd	10.90	1-		
		l l			•	•		
Declared capacity for heating / A		ndoor	Declared coefficient of performance / Av		n, at indoo	r		
temperature 20°C and outdoor to Tj=-7°C	emperature Ij Pdh	9.91 kW	temperature 20°C and outdoor temperat	ture Ij COPd	2.92	7_		
Tj=2°C	Pdh	6.03 kW		COPd	3.95	1_		
Tj=7°C	Pdh	3.88 kW	Tj=7°C	COPd	5.80	1-		
Tj=12°C	Pdh	2.87 kW	Tj=12°C	COPd	6.80]-		
Tj=bivalent temperature	Pdh	11.20 kW	Tj=bivalent temperature	COPd	2.30	-		
Tj=operating limit	Pdh	9.00 kW	Tj=operating limit	COPd	2.10	-		
Declared capacity for heating / \	Varmer season, at in	ndoor	Declared coefficient of performance / W	armer seasor	at indoor			
temperature 20°C and outdoor to			temperature 20°C and outdoor temperature		., ataoo.			
Tj=2°C	Pdh	- kW	Tj=2°C	COPd	-]-		
Tj=7°C	Pdh	- kW	Tj=7°C	COPd	-	-		
Tj=12°C	Pdh	- kW	Tj=12°C	COPd	-			
Tj=bivalent temperature Tj=operating limit	Pdh Pdh	- kW kW	Tj=bivalent temperature Tj=operating limit	COPd COPd	-			
Tj-operating limit	i uii	- KVV	rj-operating iinit	COLU		<u> [</u>		
Declared capacity for heating / 0	Colder season, at inc	loor	Declared coefficient of performance / Co	older season,	at indoor			
temperature 20°C and outdoor to			temperature 20°C and outdoor temperat			-		
Tj=-7°C	Pdh	- kW	Tj=-7°C	COPd COPd		ļ-		
Tj=2°C Tj=7°C	Pdh Pdh	- kW - kW	Tj=2°C Tj=7°C	COPd	-	-		
Tj=12°C	Pdh	- kW	Ti=12°C	COPd	<u> </u>	1_		
Tj=bivalent temperature	Pdh	- kW	Tj=bivalent temperature	COPd	-	1-		
Tj=operating limit	Pdh	- kW	Tj=operating limit	COPd	-]-		
Tj=-15°C	Pdh	- kW	Tj=-15°C	COPd	-	-		
Bivalent temperature			Operating limit temperature					
heating / Average	Tbiv	-10 °C	heating / Average	Tol	-20	l℃		
heating / Warmer	Tbiv	- °C	heating / Warmer	Tol	-	°C		
heating / Colder	Tbiv	- °C	heating / Colder	Tol	-	°C		
Overline integral			Conding internal 1 m :					
Cycling interval capacity for cooling	Pcycc	- kW	Cycling interval efficiency for cooling	EERcyc	-	1_		
for heating	Pcych	- kW	for heating	COPcyc	H	-		
	,	1		0,0				
Degradation coefficient	_		Degradation coefficient		_	,		
cooling	Cdc	0.25 -	heating	Cdh	0.25	-		
Electric power input in power mo	ndes other than 'activ	/e mode'	Annual electricity consumption					
off mode	Poff	20 W	cooling	Qce	501	kWh/a		
standby mode	Psb	20 W	heating / Average	Qhe	3700	kWh/a		
thermostat-off mode	Pto(cooling)	30 W	heating / Warmer	Qhe	-	kWh/a		
	Pto(heating)	50 W	heating / colder	Qhe	-	kWh/a		
crankcase heater mode	Pck	5 W	J					
Capacity control(indicate one of	three options)		Other items					
			Sound power level(indoor)	Lwa	64	dB(A)		
			Sound power level(outdoor)	Lwa	67	dB(A)		
fixed	No		Global warming potential	GWP	675	kgCO₂eq.		
staged	No		Rated air flow(indoor)	-	1,920	m³/h		
variable	Yes		Rated air flow(outdoor)	-	6,000	m ³ /h		
Operators destruction	Name 1 11							
Contact details for obtaining more information			rer or of its authorised representative. litioning Europe, Ltd.					
	5 The Square, Sto		ge, Middlesex, UB11 1ET,					
	United Kingdom							

Model FDE100VSXWVH

nformation to identify the model(s) to ndoor unit model name			relates to:	If function includes heating: Indicate the h			
ndoor unit model name Outdoor unit model name	FDE100VH FDC100VS			information relates to. Indicated values ship heating season at a time. Include at least			vorago'
Sutdoor unit moder name	FDC100V3	DV-44		lifeating season at a time. Include at least	the neating	Season A	verage.
-unction(indicate if present)				Average(mandatory)	Yes		
cooling	Yes			Warmer(if designated)	No		
neating	Yes			Colder(if designated)	No		
tem Design load	symbol v	/alue	unit	Item Seasonal efficiency and energy efficiency	symbol	value	class
cooling	Pdesigno	10.0	TkW	cooling	SEER	7.00	A++
neating / Average	Pdesignh	11.2	kW	heating / Average	SCOP/A	4.24	A+
neating / Warmer	Pdesignh	-	kW	heating / Warmer	SCOP/W	-	-
neating / Colder	Pdesignh	-	kW	heating / Colder	SCOP/C	-	-
	•						unit
Declared capacity at outdoor tempera		44.0	TLAM	Back up heating capacity at outdoor temp			TLAM
neating / Average (-10°C) neating / Warmer (2°C)	Pdh Pdh	11.2	kW kW	heating / Average (-10°C) heating / Warmer (2°C)	elbu elbu	-	kW kW
neating / Warrier (2 °C)	Pdh		kW	heating / Warrier (2 C)	elbu		kW
			1		0.00	<u> </u>	1
Declared capacity for cooling, at indoo	or temperature	27(19)°	C and	Declared energy efficiency ratio, at indoo	temperatur	e 27(19)°C	and
outdoor temperature Tj	5	46.5-	7	outdoor temperature Tj			7
	Pdc	10.00	kW	Tj=35°C	EERd	4.29	- 1-
	Pdc Pdc	7.30 4.70	kW kW	Tj=30°C	EERd EERd	6.00 9.90	- 1
Γj=25°C Γj=20°C	Pdc	3.20	kW	Tj=25°C Tj=20°C	EERd	10.90	1
j-20 O	1 46	J.2U	L/AA	13-20 0	LERU	10.50	<u> </u>
eclared capacity for heating / Average	ge season, at i	indoor		Declared coefficient of performance / Ave	rage seasoi	n, at indoo	r
emperature 20°C and outdoor temper	rature Tj		_	temperature 20°C and outdoor temperatu	re Tj		_
ÿ=-7°C	Pdh	9.91	kW	Tj=-7°C	COPd	2.92	1-
"j=2°C	Pdh	6.03	kW	Tj=2°C	COPd	3.95	1-
j=7°C	Pdh	3.88	kW	Tj=7°C	COPd	5.80	- -
j=12°C j=bivalent temperature	Pdh Pdh	2.87 11.20	kW kW	Tj=12°C Tj=bivalent temperature	COPd COPd	6.80 2.30	-
j=bivalent temperature j=operating limit	Pdh	9.00	kW	Tj=blvalent temperature Tj=operating limit	COPd	2.30	1-
) sporading mine	1 (11)	0.00	1	[1] Spording mine	001 u		
eclared capacity for heating / Warm	er season, at i	ndoor		Declared coefficient of performance / Wa	rmer seasor	, at indoor	
emperature 20°C and outdoor temper			_	temperature 20°C and outdoor temperatu			_
j=2°C	Pdh	-	kW	Tj=2°C	COPd	-	<u> </u> -
j=7°C	Pdh	-	kW	Tj=7°C	COPd	-	1-
ij=12°C	Pdh	-	kW kW	Tj=12°C	COPd	-	-l ⁻
j=bivalent temperature j=operating limit	Pdh Pdh		kW	Tj=bivalent temperature Tj=operating limit	COPd COPd	-	- 1
,						ı	
Declared capacity for heating / Colder		door		Declared coefficient of performance / Col		at indoor	
emperature 20°C and outdoor temper			71.347	temperature 20°C and outdoor temperatu			7
Γj=-7°C Γj=2°C	Pdh Pdh	-	kW kW	│ Tj=-7°C Ti=2°C	COPd COPd	-	-
]−2 C ⁻ j=7°C	Pdh	÷	kW		COPd		-
rj=12°C	Pdh		kW	Tj=12°C	COPd		1
j=bivalent temperature	Pdh	-	kW	Tj=bivalent temperature	COPd	-	1_
rj=operating limit	Pdh	-	kW	Tj=operating limit	COPd	-	1-
j=-15℃	Pdh	-	kW	Tj=-15°C	COPd	-]-
	•			· ·			
Bivalent temperature	This.	40	J∘∽	Operating limit temperature	Tol	20	1 ∘∽
neating / Average neating / Warmer	Tbiv Tbiv	-10	°C °C	heating / Average heating / Warmer	Tol Tol	-20	ာိ လ
neating / warmer neating / Colder	Tbiv	-	င်	heating / warmer heating / Colder	Tol	-	.0
Sating / Soldel	INIA	-		moduling / Goldel	101		
Cycling interval capacity			_	Cycling interval efficiency			_
or cooling	Pcycc	-	kW	for cooling	EERcyc	-]-
or heating	Pcych	-	kW	for heating	COPcyc	-	-
ogradation coefficient				Degradation apofficient			
Degradation coefficient ooling	Cdc	0.25	7-	Degradation coefficient heating	Cdh	0.25	1.
oomig	Out	V.4U	<u> </u>	nodung	Ouli	J.23	<u> </u>
Electric power input in power modes of	other than 'acti	ve mode	·'	Annual electricity consumption			
off mode	Poff	20	W	cooling	Qce	501	kWh/a
tandby mode	Psb	20	W	heating / Average	Qhe	3700	kWh/a
hermostat-off mode	Pto(cooling)	30	W	heating / Warmer	Qhe	-	kWh/a
rankaasa haatar mada	Pto(heating)	50	W	heating / colder	Qhe	-	kWh/a
rankcase heater mode	Pck	5	W	I			
Capacity control(indicate one of three	ontions)			Other items			
	- - - - - - - - - -			Sound power level(indoor)	Lwa	64	dB(A)
				Sound power level(outdoor)	Lwa	67	dB(A)
fixed	No			Global warming potential	GWP	675	kgCO ₂ 6
staged	No			Rated air flow(indoor)	_	1,920	m ³ /h
variable	Yes			Rated air flow(indoor)	-	6,000	m ³ /h
variable	163			Tated all how(outdoor)		0,000	101.711
Contact details for obtaining Nan	ne and addres	s of the	manufactuı	er or of its authorised representative.			
more information Mits	subishi Heavy I	Industrie	s Air-Cond	itioning Europe, Ltd.			
more information Mits 5 TI	subishi Heavy I	Industrie	s Air-Cond				

Model FDE100VNXWPVH

Information to identify the model(a) t	a which the information relates to	. Ulf function includes heating; Indicate th	no hooting account the
Information to identify the model(s) telephone to identify the model(s) telephone to identify the model(s) telephone to identify the model(s) telephone to identify the model(s) telephone to identify the model(s) telephone to identify the model(s) telephone to identify the model(s) telephone to identify the model(s) telephone to identify the model(s) telephone to identify the model(s) telephone to identify the model(s) telephone to identify the model(s) telephone to identify the model(s) telephone to identify the model(s) telephone to identify the model telephone telephone to identify the model telephone	FDE50VH (x2 units)	if function includes heating: Indicate the information relates to. Indicated values	
Outdoor unit model name	FDC100VNX-W	heating season at a time. Include at le	
	1	_	
Function(indicate if present)		Average(mandatory)	Yes
cooling	Yes	Warmer(if designated)	No
heating	Yes	Colder(if designated)	No
Item	symbol value unit	Item	symbol value class
Design load cooling	Pdesignc 10.0 kW	Seasonal efficiency and energy efficient cooling	SEER 6.76 A++
heating / Average	Pdesignh 9.8 kW	heating / Average	SCOP/A 4.00 A+
heating / Warmer	Pdesignh - kW	heating / Warmer	SCOP/W
heating / Colder	Pdesignh - kW	heating / Colder	SCOP/C
			unit
Declared capacity at outdoor temper	rature Tdesignh	Back up heating capacity at outdoor te	
heating / Average (-10°C)	Pdh 9.8 kW	heating / Average (-10°C)	elbu 0 kW
heating / Warmer (2°C)	Pdh - kW	heating / Warmer (2°C)	elbu - kW
heating / Colder (-22°C)	Pdh - kW	heating / Colder (-22°C)	elbu - kW
Dealared canacity for easing at ind	oor tomporature 27/10\°C and	Declared energy officiency ratio at ind	loor tomporature 27/10\°C and
Declared capacity for cooling, at ind outdoor temperature Tj	oor temperature 27(19) C and	Declared energy efficiency ratio, at ind outdoor temperature Tj	ioor temperature 27 (19) C and
Tj=35°C	Pdc 10.00 kW	Ti=35°C	EERd 4.04 -
Ti=30°C	Pdc 7.30 kW	Ti=30°C	EERd 5.90 -
Tj=25°C	Pdc 4.70 kW	Tj=25°C	EERd 8.50 -
Tj=20°C	Pdc 3.40 kW	Tj=20°C	EERd 12.80 -
Declared capacity for heating / Aver		Declared coefficient of performance / A	
temperature 20°C and outdoor temp	· —	temperature 20°C and outdoor tempera	
Tj=-7°C	Pdh 8.52 kW	Tj=-7°C	COPd 2.85 -
Tj=2°C	Pdh 5.11 kW	Tj=2°C	COPd 3.90 -
Tj=7°C	Pdh 3.31 kW Pdh 2.83 kW	Tj=7°C	COPd 5.03 - COPd 5.80 -
Tj=12°C Tj=bivalent temperature	Pdh 2.83 kW Pdh 9.80 kW	Tj=12°C Tj=bivalent temperature	COPd 5.80 - COPd 2.10 -
Tj=blvalent temperature Tj=operating limit	Pdh 8.50 kW	Tj=operating limit	COPd 2.10 -
1)-operating innit	1 dii 0.30 kw	1]-operating limit	2.00
Declared capacity for heating / Warr	mer season, at indoor	Declared coefficient of performance / \	Warmer season, at indoor
temperature 20°C and outdoor temp		temperature 20°C and outdoor temperature	
Tj=2°C	Pdh - kW	Tj=2°C	COPd
Tj=7°C	Pdh - kW	Tj=7°C	COPd
Tj=12°C	Pdh - kW	Tj=12°C	COPd
Tj=bivalent temperature	Pdh - kW	Tj=bivalent temperature	COPd
Tj=operating limit	Pdh - kW	Tj=operating limit	COPd
Declared conscitution beating / Cold	ar access of indees	Declared coefficient of norformance //	Caldan assass at indees
Declared capacity for heating / Cold- temperature 20°C and outdoor temp		Declared coefficient of performance / (temperature 20°C and outdoor temperature 20°C)	
Tj=-7°C	Pdh - kW	Tj=-7°C	COPd
Tj=2°C	Pdh - kW	Ti=2°C	COPd
Tj=7°C	Pdh - kW	Tj=7°C	COPd
Tj=12°C	Pdh - kW	Tj=12°C	COPd
Tj=bivalent temperature	Pdh - kW	Tj=bivalent temperature	COPd
Tj=operating limit	Pdh - kW	Tj=operating limit	COPd
Tj=-15℃	Pdh - kW	Tj=-15°C	COPd
	·		·
Bivalent temperature		Operating limit temperature	- · · · · · · · · · · · · · · · · · · ·
heating / Average	Tbiv -10 °C	heating / Average	Tol -20 °C
heating / Warmer	Tbiv - °C	heating / Warmer	Tol - °C
heating / Colder	Tbiv - °C	heating / Colder	Tol - °C
Cycling interval capacity		Cycling interval efficiency	
for cooling	Pcycc - kW	for cooling	EERcyc
for heating	Pcych - kW	for heating	COPcyc
Degradation coefficient		Degradation coefficient	0.11
cooling	Cdc 0.25 -	heating	Cdh 0.25 -
Electric power input in power modes	other than 'active mode'	Annual electricity consumption	
off mode	Poff 20 W	cooling	Qce 518 kWh/a
standby mode	Psb 20 W	heating / Average	Qhe 3434 kWh/a
thermostat-off mode	Pto(cooling) 30 W	heating / Warmer	Qhe - kWh/a
	Pto(heating) 50 W	heating / colder	Qhe - kWh/a
crankcase heater mode	Pck 5 W		
Capacity control(indicate one of three	e options)	Other items	
		Sound power level(indoor)	Lwa 60 dB(A)
		Sound power level(outdoor)	Lwa 67 dB(A)
fixed	No	Global warming potential	GWP 675 kgCO₂eq.
staged	No	Rated air flow(indoor)	- 780 m ³ /h
variable	Yes	Rated air flow(outdoor)	- 6,000 m ³ /h
	·		
		curer or of its authorised representative.	
	tsubishi Heavy Industries Air-Cor		
	The Square, Stockley Park, Uxbri nited Kingdom	uge, ivilualesex, OBTTTET,	
l Or	iitea Kiiigaoiii		

Model FDE100VSXWPVH

Information to identify the mod Indoor unit model name Outdoor unit model name	lel(s) to which the infor FDE50VH (FDC100VS	x2 units)	If function includes heating: Indicate information relates to. Indicated valu heating season at a time. Include at	ies should relate t	to one	verage'.
Function(indicate if present)			Average(mandatory)	Yes		
cooling	Yes		Warmer(if designated)	No		
neating	Yes		Colder(if designated)	No		
tem	symbol v	alue unit	Item	symbol	value	class
Design load	Symbol v	aide dilit	Seasonal efficiency and energy effic		value	Ciass
cooling	Pdesignc	10.0 kW	cooling	SEER	6.76	A++
neating / Average	Pdesignh	9.8 kW	heating / Average	SCOP/A	4.00	A+
neating / Warmer	Pdesignh_	- kW	heating / Warmer	SCOP/W	-	-
neating / Colder	Pdesignh	- kW	heating / Colder	SCOP/C	-	unit
Declared capacity at outdoor to	emperature Tdesignh		Back up heating capacity at outdoor	temperature Tde	sianh	unit
neating / Average (-10°C)	Pdh	9.8 kW	heating / Average (-10°C)	elbu	0	kW
neating / Warmer (2°C)	Pdh	- kW	heating / Warmer (2°C)	elbu	-	kW
neating / Colder (-22°C)	Pdh	- kW	heating / Colder (-22°C)	elbu	-	kW
Declared capacity for cooling, butdoor temperature Tj	at indoor temperature	27(19)°C and	Declared energy efficiency ratio, at in outdoor temperature Tj	ndoor temperatur	e 27(19)°C	and
i=35°C	Pdc	10.00 kW	Ti=35°C	EERd	4.04	٦-
_j=30°C	Pdc	7.30 kW	Tj=30°C	EERd	5.90	1-
j=25°C	Pdc	4.70 kW	Tj=25°C	EERd	8.50]-
j=20°C	Pdc	3.40 kW	Tj=20°C	EERd	12.80	-
Declared capacity for heating a emperature 20°C and outdoor		ndoor	Declared coefficient of performance temperature 20°C and outdoor 20°C and outdoor 20°C and outdoor 20°C and outdoor 20°C and outdoor 20°C and outdoor 20°C and outdoor 20°C and outdoor 20°C and outdoor 20°C and outdoor 20°C and outdoor 20°C and outd		n, at indoo	r
j=-7°C	Pdh	8.52 kW	Tj=-7°C	COPd	2.85	7-
j=2°C	Pdh	5.11 kW	Tj=2°C	COPd	3.90	-
Tj=7°C	Pdh	3.31 kW	Tj=7°C	COPd	5.03	 -
j=12°C	Pdh	2.83 kW	Tj=12°C	COPd	5.80	4-
j=bivalent temperature j=operating limit	Pdh Pdh	9.80 kW 8.50 kW	Tj=bivalent temperature Tj=operating limit	COPd COPd	2.10	- 1_
j-operating intilit	i uii	0.30 KW	TJ-operating limit	COLU	2.00	Г
Declared capacity for heating a comperature 20°C and outdoor	temperature Tj		Declared coefficient of performance temperature 20°C and outdoor 20°C and outdoor 20°C and outdoor 20°C and 00°	erature Tj	, at indoo	r -
"j=2°C	Pdh	- kW	Tj=2°C	COPd	-	
ˈj=7°C ˈj=12°C	Pdh Pdh	- kW - kW	Tj=7°C Ti=12°C	COPd COPd	-	
j=12 C j=bivalent temperature	Pdh	- kW	Tj=12 C Tj=bivalent temperature	COPd		-[
j=operating limit	Pdh	- kW	Tj=operating limit	COPd	-	-
Declared capacity for heating a emperature 20°C and outdoor 1j=-7°C 1j=-7°C 1j=-7°C 1j=12°C 1j=bivalent temperature 1j=operating limit 1j=-15°C		- kW - kW - kW - kW - kW - kW	Declared coefficient of performance temperature 20°C and outdoor temperature 7°C Tj=2°C Tj=7°C Tj=12°C Tj=bivalent temperature Tj=operating limit Tj=-15°C		at indoor]- - - - - - -
1 12 2		1	1 1.7			1
Bivalent temperature			Operating limit temperature	_		70-
neating / Average	Tbiv	-10 °C	heating / Average	Tol	-20	°C
leating / Warmer leating / Colder	Tbiv Tbiv	- °C	heating / Warmer heating / Colder	Tol Tol	-	°C °C
Jamiy / Goldol	IDIV	1 -	picating / Colder	101		1 -
Cycling interval capacity			Cycling interval efficiency			_
or cooling	Pcycc	- kW	for cooling	EERcyc	-	
or heating	Pcych	- kW	for heating	COPcyc	-	-
egradation coefficient			Degradation coefficient			
ooling	Cdc	0.25 -	heating	Cdh	0.25]-
lectric power input in power r			Annual electricity consumption			7
off mode	Poff	20 W	cooling	Qce	518	kWh/a
tandby mode hermostat-off mode	Psb Pto(cooling)	20 W 30 W	heating / Average heating / Warmer	Qhe Qhe	3434	kWh/a kWh/a
ionnostat on mode	Pto(cooling) Pto(heating)	50 W	heating / warmer	Qhe	-	kWh/a
rankcase heater mode	Pck	5 W		-2		
capacity control(indicate one	of three options)		Other items	Lwo	60	Tab(A)
			Sound power level(indoor) Sound power level(outdoor)	Lwa Lwa	60 67	dB(A) dB(A)
fixed	No		Global warming potential	GWP	675	kgCO₂e
	No		11	-	780	m ³ /h
staged variable	Yes		Rated air flow(indoor) Rated air flow(outdoor)	-	6,000	m ³ /h
valiabic	res		Nateu ali ilow(outdoor)	-	0,000	J111 /11
Contact details for obtaining more information	Mitsubishi Heavy I	ndustries Air-Cond	rer or of its authorised representative. litioning Europe, Ltd. ge, Middlesex, UB11 1ET,			

Model FDE125VNXWVH

Model(s): FDC125VNX-V	V /	FDE125\	/H				
Outdoor side heat exchanger of air	conditioner :	air					
Indoor side heat exchanger of air c	onditioner:	air					
Type: vapour compression							
if applicable : electric motor							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity				Seasonal space			
	Prated,c	12.5	kW	cooling energy	η s,c	258.0	%
				efficiency			
Declared cooling capacity for part le	oad at given ou	tdoor temp	peratures	Declared energy 6	efficiency ratio or gas utiliza	ation efficiency /	
Tj and indoor 27°C/19°C(dry/wet bu	lb)			auxiliary energy fa	actor for part load at given of	outdoor tempera	itures Tj
	5.	40.5	1				1
Tj=+35°C	Pdc	12.5	kW	Tj=+35°C	EERd or	375.0	%
T: .00%	D.I.		1		GUEc,bin / AEFc,bin		
Tj=+30°C	Pdc	9.2	kW	Tj=+30°C	EERd or	550.0	%
T:- + 0.5°0	Dda	50	1,,,,,	_	GUEc,bin / AEFc,bin		
Tj=+25°C	Pdc	5.9	kW	Tj=+25°C	EERd or	800.0	%
Tj=+20°C	Pdc	3.2	kW		GUEc,bin / AEFc,bin		
11]-+20 G	Fuc	3.2	KVV	Tj=+20°C	EERd or	1070.0	%
Danadatian			1		GUEc,bin / AEFc,bin]
Degradation	Cdc	0.25					
coefficient for air conditioners**	Cuc	0.20	-				
all conditioners]				
Power consumpiton in other than 'a Off mode Thermostat-off mode	P _{OFF}	0.045	kW kW	Crankcase heater Standby mode	mode P _{CK}	0.005 0.045	kW kW
Other items						<u> </u>	1
Capacity control		variable]	For air-to-air air co		6,000	m³/h
Sound power level,]				
outdoor	L_{WA}	68.0	dB				
			-				
If engine driven:			mg/kWh				
Emissions of nitrogen	NOx ***	-	fuel input				
oxides			GCV				
			1				
GWP of the		675	kg CO ₂ eq. (100years)				
refrigerant			(100years)				
Contact dotails	ubiohi boomi ini	duatrica #-	ormal avata	mo I TD			
Contact details Mits ** If Cdc is not determined by meas	ubishi heavy ind surement then t				ditioners shall be 0.25		
*** from 26 September 2018	oone thorn t	Joidult	2031444110	seemon an oon			
Where information relates to multi-	snilt air conditio	ners the t	aet recult ar	nd nerformance data	a he obtained on the basis	of the performan	nce
of the outdoor unit, with a combinat						c. and pontonnal	.50
or the outdoor unit, with a combinal	ion or muuun ul	111(3) 15001	minerialea D	y are manuracturer	טו ווווייונטו.		

Information to identify the model(s) to w			elates :	FDC125VNX-W /	FDE125VH		
Outdoor side heat exchanger of heat pur Indoor side heat exchanger of heat pur		air air					
Indication if the heater is equipped with			ter:	No			
if applicable : electric motor							
Parameters shall be declared for the av							
Rated heating capacity	Symbol	Value	Unit	Item Seasonal space	Symbol	Value	Unit
Rated fleating capacity	Prated,h	14.0	kW	heating energy efficiency	η s,h	164.8	%
Declared heating capacity for part load and outdoor temperature Tj	at indoor te	emperature	20°C	Declared coefficient of	of performance or gas utiliza or for part load at given outdo		
T _j =-7°C	Pdh	10.1	kW	T _j =-7°C	COPd or GUEh,bin / AEFh,bin	290.0	%
T _j =+2°C	Pdh	6.1	kW	T _j =+2°C	COPd or GUEh,bin / AEFh,bin	390.0	%
T _j =+7°C	Pdh	4.0	kW	T _j =+7°C	COPd or GUEh,bin / AEFh,bin	580.0	%
T _j =+12°C	Pdh	2.9	kW	T _j =+12°C	COPd or GUEh,bin / AEFh,bin	670.0	%
T _{biv} =bivalent temperature	Pdh	11.4	kW	T _{biv} =bivalent temperature	COPd or GUEh,bin / AEFh,bin	220.0	%
T _{OL} =operation limit	Pdh	10.0	kW	T _{OL} =operation limit	COPd or GUEh,bin / AEFh,bin	210.0	%
For air-to-water heat pumps : T _j =-15°C	Pdh	-	kW	For air-to-water heat pumps:T _j =-15°C	COPd or GUEh,bin / AEFh,bin	-	%
(if T _{OL} <-20°C)				(if T_{OL} <-20°C)			_
Bivalent temperature	T_{biv}	-10.0	°C	For water-to-air heat pumps:Operation limit	it	-	°C
Degradation				T _{ol} temperature			
coefficient	C_{dh}	0.25	-				
heat pumps**]				
Power consumpiton in modes other than	n 'active m	ode'		Supplementary heater back-up heating capa		-	kW
Off mode	P_{OFF}	0.045	kW	back-up fleating capa	acity]
Thermostat-off mode	P_{TO}	0.075	kW	Type of energy input	P_{SB}	0.045	kW
Crankcase heater mode	P_{CK}	0.005	kW	Standby mode	· 5B	0.040]
Other items				For air to air boot nu			 1
Capacity control		variable]	For air-to-air heat pur air flow-rate,outdoor		6,000	m³/h
Sound power level, outdoor measured	L_{WA}	70.0	dB	For water-/brine-to-ai Rated brine or water outdoor side heat exc	fiow-rate,	-	m³/h
Emissions of nitrogen oxides(if applicable)	NOx ***	-	mg/kWh fuel input GCV	outdoor oldo riodi oxi	on any or		1
GWP of the refrigerant		675	kg CO ₂ eq. (100years)				
Contact details Mitsubish	ni heavy ind	dustries the	ermal syste	ms,LTD			
** If Cdh is not determined by measurer					oners shall be 0,25.		
*** from 26 September 2018	oin oo a alter	nore the f	ot result -	d norformana data	obtained on the basis of the	. no-f	
Where information relates to multi-spilt of the outdoor unit, with a combination of						: репоrma	.rice

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Model FDE125VSXWVH

Model(s): FDC125VSX-W	/	FDE125V	/H				
Outdoor side heat exchanger of air cor		air					
Indoor side heat exchanger of air cond	itioner :	air					
Type: vapour compression							
if applicable : electric motor							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	5			Seasonal space			0,
	Prated,c	12.5	kW	cooling energy	η s,c	258.0	%
				efficiency			
Declared cooling capacity for part load	at given ou	ıtdoor temp	peratures		efficiency ratio or gas utilization	-	
Tj and indoor 27°C/19°C(dry/wet bulb)				auxiliary energy fa	actor for part load at given outdo	or tempera	tures Tj
T: .05°0	Dda	40.5	1,,,,,				1
Tj=+35°C	Pdc	12.5	kW	Tj=+35°C	EERd or	375.0	%
T: +00°0	D.I.		1,,,,		GUEc,bin / AEFc,bin		
Tj=+30°C	Pdc	9.2	kW	Tj=+30°C	EERd or	550.0	%
71 0.500	D.I.		1,,,,		GUEc,bin / AEFc,bin		
Tj=+25°C	Pdc	5.9	kW	Tj=+25°C	EERd or	800.0	%
			 		GUEc,bin / AEFc,bin		
Tj=+20°C	Pdc	3.2	kW	Tj=+20°C	EERd or	1070.0	%
			1		GUEc,bin / AEFc,bin]
Degradation							
coefficient for	Cdc	0.25	- !				
air conditioners**]				
Power consumpiton in other than 'activ	e mode'						
	_		l		. 5		1
Off mode	P _{OFF}	0.045	kW	Crankcase heater	3.1	0.005	kW
Thermostat-off mode	P _{TO}	0.035	kW	Standby mode	P_SB	0.045	kW
Other items							1
		·	1	For air-to-air air c	onditioner:	6,000	m³/h
Capacity control		variable]	air flow-rate,outdo	oor measured		
			1				
Sound power level,	L_WA	68.0	dB				
outdoor]				
			1				
If engine driven:	NOx		mg/kWh				
Emissions of nitrogen	***	-	fuel input				
oxides			GCV				
			1				
GWP of the		675	kg CO ₂ eq.				
refrigerant			(100years)				
			ermal syste				
** If Cdc is not determined by measure	ment then t	he default	degradation	n coefficient air con	ditioners shall be 0,25.		
*** from 26 September 2018							
Where information relates to multi-spill	air condition	oners,the te	est result ar	nd performance data	a be obtained on the basis of the	performan	ice
of the outdoor unit with a combination	of indoor u	nit(s) recor	nmended h	v the manufacturer	or importer		

Information to identify the model(s) to v	vhich the ir	nformation	relates :	FDC125VSX-W /	FDE125VH		
Outdoor side heat exchanger of heat pu	ump :	air					
Indoor side heat exchanger of heat pun		air					
Indication if the heater is equipped with		nentary hea	ater:	No			
if applicable : electric motor	-						
Parameters shall be declared for the av	erage hea	ting seaso	n naramete	ers for the warmer and	colder heating seasons a	re ontional	
Item	Symbol		Unit	Item	Symbol	Value	Unit
Rated heating capacity	Суппосі	Value	1 1	Seasonal space	Суппост	Value	I
Trated fleating capacity	Prated,h	14.0	kW	heating energy	η s,h	157.8	%
	i ratcu,i	14.0	KVV	efficiency	1 5,11	107.0	/0
Declared heating capacity for part load	at indoor t	omporatur	20°C	Doctored coefficient	of performance or gas util	lization officia	nev/
and outdoor temperature Ti	at illuool t	emperature	200		or for part load at given ou		
and outdoor temperature 1)				auxiliary energy racio	or for part load at given of	itaoor temper	atures 1
			l				7
$T_j=-7$ °C	Pdh	12.4	kW	T _j =-7°C	COPd or	260.0	%
			_		GUEh,bin / AEFh,bin	200.0	/0
T _j =+2°C	Pdh	7.5	kW	T _j =+2°C	COPd or		1
1., = 0		7.0]	, - v		380.0	%
			ا ا		GUEh,bin / AEFh,bin		4
T_j =+7°C	Pdh	4.9	kW	T_j =+7°C	COPd or	550.0	%
					GUEh,bin / AEFh,bin	000.0	/*
T _i =+12°C	Pdh	2.9	kW	T _j =+12°C	COPd or		1.,
1,1 .= -			۱	,	GUEh,bin / AEFh,bin	670.0	%
T birdent to men and me	D.II.		71.347	T		-	-
T _{biv} =bivalent temperature	Pdh	14.0	kW	T _{biv} =bivalent	COPd or	210.0	%
			_	temperature	GUEh,bin / AEFh,bin]^
T _{OL} =operation limit	Pdh	10.9	kW	T _{OL} =operation limit	COPd or		0/
			-	02 1	GUEh,bin / AEFh,bin	200.0	%
For air to water heat number:	Pdh		kW	For air-to-water heat			-
For air-to-water heat pumps :	Full]KVV			-	%
T _j =-15°C				pumps:T _j =-15°C	GUEh,bin / AEFh,bin		
(if T _{OL} <-20°C)				(if T _{OL} <-20°C)			
Bivalent temperature	T_biv	-10.0	ି℃	For water-to-air heat			1
Divaient temperature	biv	-10.0	J ~				°C
			- I	pumps:Operation lim	IIT.	-	°C
Degradation				T _{ol} temperature			
coefficient	C_{dh}	0.25	-			•	_
heat pumps**	u.,						
Theat pumps			_				
Dower consumpitor in modes other the	n 'active m	ando'		Cupplementary heat	or.		1
Power consumpiton in modes other that	iii active ii	loue		Supplementary heater	eini	ı -	kW
	_		ا ا	back-up heating capa	acity		_
Off mode	P_{OFF}	0.045	kW				_
Thermostat-off mode	P_{TO}	0.075	kW	Type of energy input	_		1
Crankcase heater mode	P _{CK}	0.005	kW		P_{SB}	0.045	kW
Claricase fieater filode	' CK	0.003]~vv	Standby mode			_
Other items							7
			_	For air-to-air heat pu	mps:	6,000	m³/h
Capacity control		variable		air flow-rate,outdoor	measured	0,000	
							_
Sound power level,		70.0	dB	For water-/brine-to-a	ir heat pumps :		
outdoor measured	L_{WA}	70.0	uБ	Rated brine or water	fiow-rate,	-	m³/h
				outdoor side heat ex	changer		
Emissions of nitrogen			mg/kWh				_
oxides(if applicable)	NOx	_	fuel input				
· · · · · · · · · · · · · · · · · · ·	***		GCV				
]001				
OME CO			ا مما				
GWP of the		675	kg CO₂eq.				
refrigerant		0.0	(100years)				
Contact details Mitsubis	hi heavy in	dustries th	ermal syste	ms,LTD			
** If Cdh is not determined by measure					oners shall be 0.25		
*** from 26 September 2018		Goldali			5 5 55 0,20.		
Where information relates to multi-spilt	air conditie	oners the to	est requilt on	id performance data he	obtained on the basis of	the performs	ance
of the outdoor unit, with a combination						and perioritie	41100
or the outdoor unit, with a combination	or muoor u	111(3) 1 C COI	iiiieiided D	y une manuraciunei Ol I	importer.		

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Model FDE140VNXWVH

Model(s): FDC140VNX		FDE140\	/H					
Outdoor side heat exchanger of a		air						
Indoor side heat exchanger of air	conditioner:	air						
Type: vapour compression	· ·							
if applicable : electric moto								
Item	Symbol	Value	Unit	Item Seasonal space	Symbol		Value	Unit
Rated cooling capacity	Prated,c	14.0	kW	cooling energy	η s,c		248.8	%
	1 14104,0	14.0		efficiency	1 3,0		240.0	/0
Daniera dan elima annocitator anno	* - + - i	<u> </u>			- ff: -: +: -		#:-:/	
Declared cooling capacity for par Tj and indoor 27°C/19°C(dry/wet l	· ·	taoor tem	peratures	Declared energy fauxiliary energy fa	-	_	-	
i j and indoor 27 of 19 o(dry/wet i	ouib)			auxiliary energy is	actor for part it	da at given out	door tempere	itures ij
Tj=+35°C	Pdc	14.0	kW	Tj=+35°C	EERd or			1
			_	1,000	GUEc,bin / A	AFFc hin	343.0	%
Tj=+30°C	Pdc	10.3	kW	Tj=+30°C	EERd or	(E1 0,5111		1
		Į.	_	1,7 00 0	GUEc,bin / A	AEFc.bin	510.0	%
Tj=+25℃	Pdc	6.6	kW	Tj=+25°C	EERd or	-,-		٠,
			_		GUEc,bin / A	AEFc,bin	750.0	%
Tj=+20°C	Pdc	3.2	kW	Tj=+20°C	EERd or		1070.0	%
			_		GUEc,bin / A	AEFc,bin	1070.0	70
Degradation								•
coefficient for	Cdc	0.25	-					
air conditioners**								
Power consumpiton in other than Off mode Thermostat-off mode	P _{OFF} P _{TO}	0.045	kW kW	Crankcase heater		OCK SB	0.005 0.045	kW kW
Other items								1
Capacity control		variable]	For air-to-air air c			6,000	m³/h
Sound power level,		60.0	40					
outdoor	L_{WA}	69.0	dB					
			_					
If engine driven:	NO		mg/kWh					
Emissions of nitrogen	NOx ***	-	fuel input					
oxides			GCV					
			7					
GWP of the		675	kg CO ₂ eq.					
refrigerant			(100years)					
Contact date:	taubiah: b = -	duate - 1	ormel = :1	ma LTD				
Contact details Mi ** If Cdc is not determined by me	tsubishi heavy inc				ditioners shall	be 0,25.		
*** from 26 September 2018			3 - 3 - 3 - 3 - 3	3011		=;==:		
Where information relates to mult	ti-spilt air conditio	ners the to	est result an	nd performance data	a he obtained	on the basis of t	he performar	nce
of the outdoor unit, with a combin	-			-				
		.,.,		,	F			

Information to identify the model(s) to v	vhich the ir	nformation	relates :	FDC140VNX-W /	FDE140VH		
Outdoor side heat exchanger of heat pu	ump :	air					
Indoor side heat exchanger of heat pun		air					
Indication if the heater is equipped with		nentary hea	ater:	No			
if applicable : electric motor	-						
Parameters shall be declared for the av	erage hea	iting seaso	n paramete	ers for the warmer and	colder heating seasons	are optional	
Item	Symbol		Unit	Item	Symbol	Value	Unit
Rated heating capacity	- Cy20.	1	T	Seasonal space	3,	7 41.4.0	1
Trated floating dapatolty	Prated,h	16.0	kW	heating energy	η s,h	163.8	%
				efficiency	1, 0,11		, ,
Declared heating capacity for part load	at indoor t	emperature	20°C	Declared coefficient	of performance or gas ut	ilization efficie	ency /
and outdoor temperature Ti		opo.a.a.			or for part load at given o		
				aurillary or or gy racto	partioda at given o	ataoo: topo.	
T = 7°C	Pdh	44.5	kW	T _i =-7°C	COPd or		1
T _j =-7°C	Full	11.5	JKVV	1j7 C		290.0	%
			- I	_	GUEh,bin / AEFh,bin		_
$T_j=+2^{\circ}C$	Pdh	7.0	kW	T _j =+2°C	COPd or	390.0	%
			_		GUEh,bin / AEFh,bin	330.0	70
T _j =+7°C	Pdh	4.5	kW	T _i =+7°C	COPd or		1
1			-	J		560.0	%
T-140°0	Dale		الممر	T-140°0	GUEh,bin / AEFh,bin		-
T _j =+12°C	Pdh	2.9	kW	T _j =+12°C	COPd or	670.0	%
		_	- I		GUEh,bin / AEFh,bin		_
T _{biv} =bivalent temperature	Pdh	13.0	kW	T _{biv} =bivalent	COPd or	220.0	%
			-	temperature	GUEh,bin / AEFh,bin	220.0	70
T _{OL} =operation limit	Pdh	10.3	kW	T _{OL} =operation limit	COPd or		1
OL OF COMMON WIND		.0.0]	OL operation mine	GUEh,bin / AEFh,bin	210.0	%
For air to water heat number:	Ddh		الالالا	For air to water boot	, , , , , , , , , , , , , , , , , , , ,		-
For air-to-water heat pumps :	Pdh	_	kW	For air-to-water heat		-	%
T _j =-15°C				pumps:T _j =-15°C	GUEh,bin / AEFh,bin		_
(if T _{OL} <-20°C)				(if T _{OL} <-20°C)			
Bivalent temperature	T_biv	-10.0	ି°C	For water-to-air heat			
	- DIV		J -	pumps:Operation lim		_	°C
De une dell'ese			¬			-	
Degradation				T _{ol} temperature			
coefficient	C_{dh}	0.25	-				
heat pumps**							
		-	-				
Power consumpiton in modes other that	ın 'active m	node'		Supplementary heate	er		1.34
· ·				back-up heating capa	ein	u -	kW
Off mode	P_{OFF}	0.045	kW	3			_
		-	-				7
Thermostat-off mode	P_{TO}	0.075	kW	Type of energy input	P_{S}	B 0.045	kW
Crankcase heater mode	P_{CK}	0.005	kW	Standby mode	- 3	5.5.5	
		-	-				_
Other items							
				For air-to-air heat pu	mps:	2 222	2.0
Capacity control		variable	7	air flow-rate,outdoor	•	6,000	m³/h
			-				_
Sound power level,			7	For water-/brine-to-a	ir heat numps ·		1
outdoor measured	L_{WA}	71.0	dB	Rated brine or water		_	m³/h
Totaldor modelarda			-	outdoor side heat ex			,
Emissions of nitrogen			mg/kWh		onango.		_
oxides(if applicable)	NOx	_	fuel input				
oxides(ii applicable)	***		GCV				
OMB CI			ا ۵۵				
GWP of the		675	kg CO₂eq.				
refrigerant			(100years)				
Contact details Mitsubis	hi heavy in	dustries th	ermal syster	ms,LTD			
** If Cdh is not determined by measure	ment then	the default	degradation	n coefficient air condition	oners shall be 0,25.		
*** from 26 September 2018			-		,		
Where information relates to multi-spilt	air condition	oners,the te	est result an	id performance data be	e obtained on the basis o	f the performa	ance
of the outdoor unit, with a combination						•	
			•	-	•		

PFA004Z088 🛕

Model FDE140VSXWVH

WOUGHT DE 140V3XVVV								
Model(s): FDC140VS	<-W /	FDE140V	/H					
Outdoor side heat exchanger of	air conditioner :	air						
Indoor side heat exchanger of ai	r conditioner :	air						
Type: vapour compression								
if applicable : electric moto	or							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit	
Rated cooling capacity	Prated,c	14.0	kW	Seasonal space cooling energy efficiency	η s,c	248.8	%	
Declared cooling capacity for particular par	_	tdoor temp	peratures	Declared energy efficiency ratio or gas utilization efficiency / auxiliary energy factor for part load at given outdoor temperatures Tj				
Tj=+35℃	Pdc	14.0	kW	Tj=+35°C	EERd or GUEc,bin / AEFc,bin	343.0	%	
Tj=+30°C	Pdc	10.3	kW	Tj=+30°C	EERd or GUEc,bin / AEFc,bin	510.0	%	
Tj=+25°C	Pdc	6.6	kW	Tj=+25°C	EERd or GUEc,bin / AEFc,bin	750.0	%	
Tj=+20°C	Pdc	3.2	kW	Tj=+20°C	EERd or GUEc,bin / AEFc,bin	1070.0	%	
Degradation coefficient for air conditioners**	Cdc	0.25	-					
Power consumpiton in other than	ı 'active mode'							
Off mode Thermostat-off mode	P _{OFF} P _{TO}	0.045	kW kW	Crankcase heate Standby mode	r mode P _{CK} P _{SB}	0.005 0.045	kW kW	
Other items							,	
Capacity control	1	variable]	For air-to-air air o		6,000	m³/h	
Sound power level, outdoor	L _{WA}	69.0	dB					
If engine driven: Emissions of nitrogen oxides	NOx ***	-	mg/kWh fuel input GCV					
GWP of the refrigerant		675	kg CO₂eq. (100years)					
Contact details M ** If Cdc is not determined by me	itsubishi heavy inc				ditioners shall be 0,25.			
*** from 26 September 2018 Where information relates to mu	lti-spilt air conditio	ners,the te	est result an	d performance dat	a be obtained on the basis o	f the performan	ice	

Information to identify the model(s) to v	vhich the ir	nformation	relates :	FDC140VSX-W /	FDE140VH		
Outdoor side heat exchanger of heat p	ump :	air					
Indoor side heat exchanger of heat pur	np :	air					
Indication if the heater is equipped with	a supplen	nentary hea	ater :	No			
if applicable : electric motor							
Parameters shall be declared for the av	erage hea	ating seaso	n , paramete	ers for the warmer and	colder heating seasons are	optional.	
Item	Symbol	l Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity				Seasonal space			
	Prated,	1 6.0	kW	heating energy	η s,h	155.6	%
				efficiency			
Declared heating capacity for part load	at indoor t	emperature	e 20°C	Declared coefficient of	of performance or gas utiliza	tion efficie	ncy /
and outdoor temperature Tj				auxiliary energy facto	or for part load at given outdo	oor tempe	ratures Tj
$T_j=-7$ °C	Pdh	13.7	kW	T _j =-7°C	COPd or],,
J			J	J	GUEh,bin / AEFh,bin	250.0	%
T _j =+2°C	Pdh	8.4	kW	T _j =+2°C	COPd or		-
1j-+2 C	Full	0.4]KVV	1j-+2 C		380.0	%
			7		GUEh,bin / AEFh,bin		4
T_j =+7°C	Pdh	5.4	kW	T _j =+7°C	COPd or	530.0	%
			_		GUEh,bin / AEFh,bin	000.0	,,,
T _j =+12°C	Pdh	2.9	kW	T _j =+12°C	COPd or	070.0],,
,			_	,	GUEh,bin / AEFh,bin	670.0	%
T _{biv} =bivalent temperature	Pdh	15.5	kW	T _{biv} =bivalent	COPd or		1
T _{biv} -bivalent temperature	i uii	15.5]KVV			210.0	%
	.		7	temperature	GUEh,bin / AEFh,bin		4
T _{OL} =operation limit	Pdh	11.9	kW	T _{OL} =operation limit	COPd or	200.0	%
			_		GUEh,bin / AEFh,bin		
For air-to-water heat pumps :	Pdh	-	kW	For air-to-water heat	COPd or		%
T _i =-15°C				pumps:T _i =-15°C	GUEh,bin / AEFh,bin	-	70
(if T _{OL} <-20°C)				(if T _{OL} <-20°C)			4
(11 10) (25 5)				(ii 10L < 20 0)			
Divolent teneneneture	_	40.0	7 ∘o	Fancista de la la la cata			7
Bivalent temperature	T_{biv}	-10.0	°C	For water-to-air heat			0 -
			٦ .	pumps:Operation lim	it	-	°C
Degradation				T _{ol} temperature			
coefficient	C_{dh}	0.25	-				-
heat pumps**	u.,						
			J				
Power consumpiton in modes other that	n 'active n	node'		Supplementary heate	er		7
ower consumption in modes other the	iii dolivo ii	iode		back-up heating capa	einii	-	kW
Off mode	D	0.045	kW	back up fleating capt	Jorty		_
	P _{OFF}	_	-				7
Thermostat-off mode	P_{TO}	0.075	kW	Type of energy input	P_{SB}	0.045	kW
Crankcase heater mode	P_{CK}	0.005	kW	Standby mode	. SB	0.043	IX V V
			_				2
Other items							
				For air-to-air heat pur	mps:	0.000	2/1-
Capacity control		variable	1	air flow-rate,outdoor	measured	6,000	m³/h
' '			_				-
Sound power level,	1	71.0	dB	For water-/brine-to-ai	ir heat pumps :		1
outdoor measured	L_{WA}	71.0	uБ	Rated brine or water	fiow-rate,	-	m³/h
			_	outdoor side heat exc	changer		
Emissions of nitrogen	NOx		mg/kWh				_
oxides(if applicable)	***	-	fuel input				
			GCV				
			-				
GWP of the			kg CO₂eq.				
refrigerant		675	(100years)				
lenigerant			_(Tooyears)				
Contact details Mitsubis	hi heavy ir	ndustries th	ermal syste	me I TD			
** If Cdh is not determined by measure					nners shall he 0.25		
*** from 26 September 2018	ment tiell	uic ucidull	u c yi auaii0i	n coemolent all conditio	nicio onali D€ U,∠J.		
Where information relates to multi-spilt	air conditi	oners the t	est requilt en	id nerformance data be	ohtained on the basis of the	e nerforms	ance
of the outdoor unit, with a combination						- po. 1011116	
and a second and a some and a some and a second a second and a second and a second and a second and a second and a second and a second and a second and a second and a second		(3) 10001	Shada b	,			
i							

Model FDE125VNXWPVH

WIOGETT DE 125VIAXVVF VI	<u>'</u>							
Model(s): FDC125VNX-V			H(x2 units)					
Outdoor side heat exchanger of air		air						
Indoor side heat exchanger of air co	onditioner:	air						
Type: vapour compression								
if applicable : electric motor								
Item	Symbol	Value	Unit	Item	Symbo		Value	Unit
Rated cooling capacity	Prated,c	12.5	kW	Seasonal space cooling energy	200		351.4	%
	i ratea,e	12.0	IX V V	efficiency	η s,c		001.4	70
Destand and the second form	-1-1-1	Lalara e Caraca		-		. C	- Constitution of	
Declared cooling capacity for part lo	_	itdoor tem	peratures	Declared energy	-	=	-	hunna Ti
Tj and indoor 27°C/19°C(dry/wet bul	D)			auxiliary energy fa	астог тог ра	rt ioad at given	outdoor tempera	lures 1j
Tj=+35°C	Pdc	12.5	kW	Ti- 125°C	EERd or			1
	. 40	12.0]	Tj=+35°C		. / AFFo bin	400.0	%
Tj=+30°C	Pdc	9.2	kW	Tj=+30°C	EERd or	n / AEFc,bin		
,			1	1]=+30 C		n / AEFc,bin	610.0	%
Tj=+25°C	Pdc	5.9	kW	Tj=+25°C	EERd or	I / ALI C,DIII		
,			J	1]-125 0		n / AEFc,bin	990.0	%
Tj=+20°C	Pdc	3.6	kW	Tj=+20°C	EERd or	177610,0111		
			J	1]- 120 0		n / AEFc,bin	2290.0	%
Degradation]		GGE0,511	177121 0,0111		1
coefficient for	Cdc	0.25	_					
air conditioners**								
			_					
Power consumpiton in other than 'a	ctive mode'							
Off mode	P_{OFF}	0.015	kW	Crankcase heater	r mode	P_{CK}	0.005	kW
Thermostat-off mode	P_{TO}	0.000	kW	Standby mode		P_SB	0.015	kW
Other items								•
			,	For air-to-air air c	onditioner:		6,000	m³/h
Capacity control		variable]	air flow-rate,outdo	oor measur	ed	.,,,,,,	
			1					
Sound power level,	L_{WA}	68.0	dB					
outdoor]					
			1					
If engine driven:	NOx		mg/kWh					
Emissions of nitrogen	***	-	fuel input					
oxides			GCV					
			1					
GWP of the		675	kg CO ₂ eq.					
refrigerant			(100years)					
	ıbishi heavy in				-liti ·	-11		
** If Cdc is not determined by meas	urement then t	ne detault	degradation	n coeπicient air con	aitioners sh	ıaıı be 0,25.		
*** from 26 September 2018								
Where information relates to multi-s	spilt air conditio	oners,the to	est result ar	id performance data	a be obtain	ed on the basis	of the performar	nce

Information to identify the model(s) to w	hich the ir	nformation i	relates :	FDC125VNX-W /	FDE60VH(x2 units)		
Outdoor side heat exchanger of heat pu	ımp :	air					
Indoor side heat exchanger of heat pun		air					
Indication if the heater is equipped with	a supplen	nentary hea	iter:	No			
if applicable : electric motor							
Parameters shall be declared for the av							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	D411		1344	Seasonal space		404.5	0/
	Prated,h	14.0	kW	heating energy	η s,h	194.5	%
Declared beating associate for your load	-4:4		2000	efficiency	-ff		
Declared heating capacity for part load and outdoor temperature Ti	at indoor t	emperature	20 C		of performance or gas utiliza or for part load at given outdo		
land outdoor temperature 1j				auxiliary effergy facto	or for part load at given outdo	oor terriper	alures ij
T - 7°0	Dalle	40.4	7	T - 7°0	00Pd		1
T _j =-7°C	Pdh	10.1	kW	T _j =-7°C	COPd or	310.0	%
			7		GUEh,bin / AEFh,bin		
T _j =+2°C	Pdh	6.1	kW	T _j =+2°C	COPd or	460.0	%
			_		GUEh,bin / AEFh,bin		
T _j =+7°C	Pdh	4.0	kW	T _i =+7°C	COPd or	740.0	%
			_		GUEh,bin / AEFh,bin	710.0	70
T _j =+12°C	Pdh	2.9	kW	T _j =+12°C	COPd or		1
1, 1,20	1 011	2.5	1		GUEh,bin / AEFh,bin	890.0	%
T _{hiv} =bivalent temperature	Pdh	44.4	kW	T =hivalont	COPd or		-
T biv-bivalent temperature	Full	11.4	LVV	T _{biv} =bivalent		230.0	%
	D. II		7	temperature	GUEh,bin / AEFh,bin		
T _{OL} =operation limit	Pdh	10.0	kW	T _{OL} =operation limit	COPd or	220.0	%
			,		GUEh,bin / AEFh,bin		
For air-to-water heat pumps :	Pdh	-	kW	For air-to-water heat	COPd or	_	%
T _j =-15°C				pumps:T _j =-15°C	GUEh,bin / AEFh,bin		,,,
(if T _{OL} <-20°C)				(if T _{OL} <-20°C)		•	- !
Bivalent temperature	T_biv	-10.0	°C	For water-to-air heat			
	- DIV		J -	pumps:Operation lim		_	°C
Degradation			1	T _{ol} temperature			
	0	0.25		1 of temperature			J
coefficient	C_{dh}	0.25	-				
heat pumps**]				
Dower consumption in modes other the	n la ativa m	ando!		Cumplementer / heats	or		1
Power consumpiton in modes other tha	n active n	lode		Supplementary heate	einii	-	kW
	Б	0.045	7	back-up heating capa	acity		J
Off mode	P_{OFF}	0.015	kW				7
Thermostat-off mode	P_{TO}	0.020	kW	Type of energy input	P_{SB}	0.015	kW
Crankcase heater mode	P_{CK}	0.005	kW	Standby mode	' SB	0.015	IV V V
			_				1
Other items							
				For air-to-air heat pur	mps:	0.000	2/1-
Capacity control		variable]	air flow-rate,outdoor	•	6,000	m³/h
			_				_
Sound power level,	1	70.0	dB	For water-/brine-to-ai	ir heat pumps :		
outdoor measured	L_{WA}	70.0	Jub	Rated brine or water		-	m³/h
			_	outdoor side heat exc	changer		
Emissions of nitrogen	NOx		mg/kWh				
oxides(if applicable)	***	-	fuel input				
			GCV				
			۱				
GWP of the		675	kg CO₂eq.				
refrigerant			(100years)				
				<u> </u>			
			ermal syste				
** If Cdh is not determined by measure	ment then	the default	degradation	n coefficient air condition	oners shall be 0,25.		
*** from 26 September 2018	_1_			al acceptance of the transfer			
Where information relates to multi-spilt						e performa	ince
of the outdoor unit, with a combination	oi inaoor u	ırııt(s) recor	ıımended b	y the manufacturer or II	піропег.		

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Model FDE125VSXWPVH

Model(s): FDC125VSX-	-W /	FDE60VI	H(x2 units)				
Outdoor side heat exchanger of a	ir conditioner :	air					
Indoor side heat exchanger of air	conditioner :	air					
Type: vapour compression							
if applicable : electric motor	•						
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity				Seasonal space			
	Prated,c	12.5	kW	cooling energy	η s,c	351.4	%
				efficiency			
Declared cooling capacity for part	load at given ou	tdoor tem	peratures	Declared energy 6	efficiency ratio or gas utiliza	ation efficiency /	
Tj and indoor 27°C/19°C(dry/wet b	ulb)			auxiliary energy fa	actor for part load at given of	outdoor tempera	tures Tj
			1				1
Tj=+35°C	Pdc	12.5	kW	Tj=+35°C	EERd or	400.0	%
T' .0000	D.I.		1,		GUEc,bin / AEFc,bin		1
Tj=+30°C	Pdc	9.2	kW	Tj=+30°C	EERd or	610.0	%
T: .05°0	Dda	5.0	1,,,,,		GUEc,bin / AEFc,bin		-
Tj=+25°C	Pdc	5.9	kW	Tj=+25°C	EERd or	990.0	%
Ti-+20°C	Ddo	2.6	kW		GUEc,bin / AEFc,bin		1
Tj=+20°C	Pdc	3.6	KVV	Tj=+20°C	EERd or	2290.0	%
5			1		GUEc,bin / AEFc,bin]
Degradation	0.1	0.25					
coefficient for	Cdc	0.20	-				
air conditioners**			_				
Off mode Thermostat-off mode	P _{OFF} P _{TO}	0.015	kW kW	Crankcase heater Standby mode	mode P _{CK}	0.005 0.015	kW kW
Other items						ļ	7
Capacity control		variable]	For air-to-air air co		6,000	m³/h
Sound power level,		60.0	4D				
outdoor	L_{WA}	68.0	dB				
			_				
If engine driven:	NO		mg/kWh				
Emissions of nitrogen	NOx ***	-	fuel input				
oxides			GCV				
			7				
GWP of the		675	kg CO ₂ eq.				
refrigerant			(100years)				
				<u> </u>			
Contact details Mit ** If Cdc is not determined by mea	subishi heavy inc		-		ditioners shall be 0.25		
	asurement men t	ne uelault	uegrauatio	ir coemicient air cond	unioners shall be 0,25.		
*** from 26 September 2018	t and the other control				La abiata de la companya de la companya de la companya de la companya de la companya de la companya de la comp	-£41 · · · · · · · · · · · · · · · · · ·	
Where information relates to multi						υι the performar	ice
of the outdoor unit, with a combina	ation of indoor ui	nit(s) recoi	mmended b	y tne manufacturer	or importer.		

Information to identify the model(s) to v	which the in	formation r	elates :	FDC125VSX-W /	FDE60VH(x2 units)		
Outdoor side heat exchanger of heat pro-		air					
Indoor side heat exchanger of heat pur	np :	air					
Indication if the heater is equipped with	a supplem	entary hea	ter:	No			
if applicable : electric motor							
Parameters shall be declared for the av	erage heat	ting seasor	n , paramete	ers for the warmer and	colder heating seasons are	optional.	
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity				Seasonal space			
	Prated,h	14.0	kW	heating energy	η s,h	188.5	%
		L	220-	efficiency			<u> </u>
Declared heating capacity for part load	at indoor te	emperature	20°C		of performance or gas utiliza		
and outdoor temperature Tj				auxiliary energy facto	or for part load at given outdo	or temper	atures 1
			,			1	1
T _j =-7°C	Pdh	12.4	kW	T _j =-7°C	COPd or	300.0	%
			_		GUEh,bin / AEFh,bin	000.0	, ,
T _j =+2°C	Pdh	7.5	kW	T _j =+2°C	COPd or	450.0	%
			1	*	GUEh,bin / AEFh,bin	450.0	70
T _j =+7°C	Pdh	4.9	kW	T _i =+7°C	COPd or		
,, , ,		4.0]	1.,		660.0	%
T-140°0	ם אור		11.347	T-140°0	GUEh,bin / AEFh,bin		
T _j =+12°C	Pdh	2.9	kW	T _j =+12°C	COPd or	890.0	%
			,		GUEh,bin / AEFh,bin		
T _{biv} =bivalent temperature	Pdh	14.0	kW	T _{biv} =bivalent	COPd or	230.0	%
			_	temperature	GUEh,bin / AEFh,bin		, ,
T _{OL} =operation limit	Pdh	10.9	kW	T _{OL} =operation limit	COPd or	220.0	%
			1		GUEh,bin / AEFh,bin	220.0	70
For air-to-water heat pumps :	Pdh	-	kW	For air-to-water heat	COPd or		1
T _i =-15°C			1	pumps:T _i =-15°C	GUEh,bin / AEFh,bin	-	%
(if T _{OL} <-20°C)				(if T _{OL} <-20°C)			!
(II TOL <-20 0)				(II 10L <-20 0)			
B: 1 11	_		100				1
Bivalent temperature	T_biv	-10.0	°C	For water-to-air heat			
			,	pumps:Operation lim	it	-	℃
Degradation				T _{ol} temperature			
coefficient	C_{dh}	0.25	-				
heat pumps**							
			'				
Power consumpiton in modes other that	n 'active m	ode'		Supplementary heate	er alla		1.34/
·				back-up heating capa	elbu elbu	-	kW
Off mode	P_{OFF}	0.015	kW		•		•
Thermostat-off mode		0.020	kW	T			1
	P _{TO}	-	-	Type of energy input	P_{SB}	0.015	kW
Crankcase heater mode	P_{CK}	0.005	kW	Standby mode			
Other items							1
			,	For air-to-air heat pur		6,000	m³/h
Capacity control		variable]	air flow-rate,outdoor	measured	0,000],
			,				1
Sound power level,	L_WA	70.0	dB	For water-/brine-to-ai			0.0
outdoor measured	****]	Rated brine or water		-	m³/h
			1 "	outdoor side heat exc	cnanger		
Emissions of nitrogen	NOx		mg/kWh				
oxides(if applicable)	***	-	fuel input				
			GCV				
OMB CI			1				
GWP of the		675	kg CO₂eq.				
refrigerant			(100years)				
Control datalla	Little and the	distriction of		LTD			
			ermal syster		1 11 2 2 5		
** If Cdh is not determined by measure	ment then t	ine default	degradation	n coefficient air condition	oners shall be 0,25.		
*** from 26 September 2018	ole com-list	mare Hr - 4	of result -	d nonformation -1-4-1	obtained on the tree!- of the	no-f	200
Where information relates to multi-spilt						: perтorma	rice
of the outdoor unit, with a combination	oi indoor Ul	iii(s) recon	iiiileiiaea b	y the manufacturer of I	riporter.		

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Model FDE140VNXWPVH

Model(s): FDC140VNX-W	/	FDE71VH	H(x2 units)				
Outdoor side heat exchanger of air cor	nditioner :	air					
Indoor side heat exchanger of air cond	itioner :	air					
Type: vapour compression							
if applicable : electric motor							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	5			Seasonal space			0,
	Prated,c	14.0	kW	cooling energy	η s,c	324.4	%
		1		efficiency			<u> </u>
Declared cooling capacity for part load	at given ou	utdoor temp	peratures	1	efficiency ratio or gas utilization	=	
Tj and indoor 27°C/19°C(dry/wet bulb)				auxiliary energy fa	actor for part load at given ou	tdoor tempera	itures 1
Tj=+35°C	Pdc	14.0	kW	T:- + 25°0	EED4		1
1, 100 0]	Tj=+35°C	EERd or	370.0	%
Tj=+30°C	Pdc	10.3	kW	Tj=+30°C	GUEc,bin / AEFc,bin EERd or		-
			1	1]=130 0	GUEc,bin / AEFc,bin	570.0	%
Tj=+25°C	Pdc	6.6	kW	Tj=+25°C	EERd or		1
			ı	., 200	GUEc,bin / AEFc,bin	850.0	%
Tj=+20°C	Pdc	3.6	kW	Tj=+20°C	EERd or	2000.0	0/
		l.	_		GUEc,bin / AEFc,bin	2290.0	%
Degradation							•
coefficient for	Cdc	0.25	-				
air conditioners**							
Power consumpiton in other than 'activ	e mode'						
Off made	В	0.045],,,,	Crankagaa bagtar	r mada D	0.005	l _{kW}
Off mode Thermostat-off mode	P _{OFF} P _{TO}	0.015	kW	Crankcase heater	r mode P _{CK} P _{SB}	0.005	kW
Thermostat-on mode	гто	0.000	I KVV	Standby mode	₽SB	0.015	IKVV
Other items							
Other herns				For air-to-air air co	onditioner		1
Capacity control		variable]	air flow-rate,outdo		6,000	m³/h
			1	an now rato, outdo	on modelarda		1
Sound power level,		00.0]				
outdoor	L_{WA}	69.0	dB				
			•				
If engine driven:			mg/kWh				
Emissions of nitrogen	NOx ***	-	fuel input				
oxides			GCV				
			7				
GWP of the		675	kg CO₂eq.				
refrigerant			(100years)				
-			ermal syste		ditioners shall be 0.05		
** If Cdc is not determined by measure	ment then	uie detault	uegradatioi	i coemicient air con	uilioners snail de 0,25.		
*** from 26 September 2018				al a de la constantina de la constantina de la constantina de la constantina de la constantina de la constanti	a harabasa a a a a a a a		
Where information relates to multi-spilt				-		tne performar	ice
of the outdoor unit, with a combination	ot indoor u	ınıt(s) recor	nmended b	y tne manutacturer	or importer.		

Information to identify the model(s) to v			relates :	FDC140VNX-W /	FDE71VH(x2 units)		
Outdoor side heat exchanger of heat pu		air					
Indoor side heat exchanger of heat pur		air					
Indication if the heater is equipped with	a supplen	nentary hea	ater:	No			
if applicable : electric motor							
Parameters shall be declared for the av							11.26
Item	Symbol	l Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	Drotod k	46.0	Is\A/	Seasonal space	b	400.0	%
	Prated,h	1 6.0	kW	heating energy	η s,h	190.8	%
Declared heating capacity for part load	at indoor t	emneratur	20°C	efficiency Declared coefficient	of performance or gas utiliz	zation efficie	ency /
and outdoor temperature Tj	at indoor t	ciriperature	200		or for part load at given out		
			_				_
$T_j=-7$ °C	Pdh	11.5	kW	T _j =-7°C	COPd or	310.0	%
			_		GUEh,bin / AEFh,bin	310.0	/0
T _j =+2°C	Pdh	7.0	kW	T _i =+2°C	COPd or	450.0	1 0/
,			_		GUEh,bin / AEFh,bin	450.0	%
T_j =+7°C	Pdh	4.5	kW	T _j =+7°C	COPd or		1
,		1.0]		GUEh,bin / AEFh,bin	680.0	%
T _i =+12°C	Pdh	2.0	kW	T _i =+12°C	COPd or		1
11,-+12 0	Full	2.9]vvv	1 j = + 12 C		890.0	%
T -birdont tomorountum	D4h	40.0	الممر	T — his solo of	GUEh,bin / AEFh,bin		-
T _{biv} =bivalent temperature	Pdh	13.0	kW	T _{biv} =bivalent	COPd or	230.0	%
			7	temperature	GUEh,bin / AEFh,bin		4
T _{OL} =operation limit	Pdh	10.3	kW	T _{OL} =operation limit	COPd or	220.0	%
			_		GUEh,bin / AEFh,bin		
For air-to-water heat pumps :	Pdh	-	kW	For air-to-water heat	COPd or	1 _	%
T _j =-15°C				pumps:T _j =-15°C	GUEh,bin / AEFh,bin		/0
(if T _{OL} <-20°C)				(if T _{OL} <-20°C)		•	- '
Bivalent temperature	T_biv	-10.0	℃	For water-to-air heat			7
·	5.14		_	pumps:Operation lim	it	_	°C
Degradation			1	T _{ol} temperature			
coefficient	C_{dh}	0.25	_	01 1		ļ	_
heat pumps**	Odh	0.20					
lieat pumps			_				
Power consumpiton in modes other that	ın 'active m	node'		Supplementary heate	er		1.34/
				back-up heating capa	einii	-	kW
Off mode	P_{OFF}	0.015	kW		,		_
Thermostat-off mode	P _{TO}	0.020	kW	T of an annu . in m t			7
			-	Type of energy input	P_{SB}	0.015	kW
Crankcase heater mode	P_{CK}	0.005	kW	Standby mode			
Oth on it area							
Other items				For air to air boot nu	mno.		7
Canacity control		verieble	ا ا	For air-to-air heat pur air flow-rate,outdoor		6,000	m³/h
Capacity control		variable	J	all flow-rate,outdoor	measureu		_
Sound power level,			1	For water-/brine-to-ai	ir heat numns ·		7
outdoor measured	L_{WA}	71.0	dB	Rated brine or water		_	m³/h
			_	outdoor side heat exc			
Emissions of nitrogen	NOv		mg/kWh				_
oxides(if applicable)	NOx ***	-	fuel input				
			GCV				
		'					
							· · · · · · · · · · · · · · · · · · ·
GWP of the		675	kg CO₂eq.				
refrigerant		0/3	(100years)				
			- /				
			ermal syste				
** If Cdh is not determined by measure	ment then	the default	degradation	n coefficient air condition	oners shall be 0,25.		
*** from 26 September 2018	_i			al manifamora e e e e e e e e	allegation and the state of the		
Where information relates to multi-spilt						ne performa	ance
of the outdoor unit, with a combination	ui iiiuuot u	nin(s) recor	mmenaea b	y the manufacturer of I	inporter.		

Model FDE140VSXWPVH

Madal/a)							
Model(s): FDC140VSX- Outdoor side heat exchanger of a			H(x2 units)				
	۵.						
Indoor side heat exchanger of air	conditioner : ai	r					
Type: vapour compression if applicable: electric motor							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	Prated,c	14.0	kW	Seasonal space cooling energy efficiency	η s,c	324.4	%
Declared cooling capacity for part Tj and indoor 27°C/19°C(dry/wet b	•	oor tem	peratures		efficiency ratio or gas utiliza factor for part load at given o	=	tures Tj
Tj=+35°C	Pdc	14.0	kW	Tj=+35°C	EERd or GUEc,bin / AEFc,bin	370.0	%
Tj=+30℃	Pdc	10.3	kW	Tj=+30°C	EERd or GUEc,bin / AEFc,bin	570.0	%
Tj=+25°C	Pdc	6.6	kW	Tj=+25°C	EERd or GUEc,bin / AEFc,bin	850.0	%
Tj=+20°C	Pdc	3.6	kW	Tj=+20°C	EERd or GUEc,bin / AEFc,bin	2290.0	%
Degradation							
coefficient for air conditioners**	Cdc	0.25	-				
Off mode Thermostat-off mode	-	0.015	kW kW	Crankcase heate	er mode P _{CK} P _{SB}	0.005 0.015	kW kW
Other items							1
Capacity control	v	ariable]	For air-to-air air o		6,000	m³/h
Sound power level, outdoor	L _{WA}	69.0	dB				
If engine driven: Emissions of nitrogen oxides	NOx ***	-	mg/kWh fuel input GCV				
GWP of the refrigerant		675	kg CO ₂ eq. (100years)				
Contact details Mits	subishi heavy indu	stries th	ermal syste	ms,LTD			
** If Cdc is not determined by mea *** from 26 September 2018 Where information relates to multi	asurement then the	default	degradation	n coefficient air coi		of the performan	ice

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of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.

Information to identify the model(s) to w	which the in	nformation	relates :	FDC140VSX-W /	FDE71VH(x2 units)		
Outdoor side heat exchanger of heat pu	ump :	air					
Indoor side heat exchanger of heat pun		air					
Indication if the heater is equipped with		nentary hea	ater:	No			
if applicable : electric motor							
Parameters shall be declared for the av	erage hea	ting seaso	n naramete	ers for the warmer and	colder heating seasons ar	e ontional	
Item	Symbol		Unit	Item	Symbol	Value	Unit
Rated heating capacity	Cynnoon	Value	1 1	Seasonal space	Cymbol	Value	I
Trated fleating capacity	Prated,h	16.0	kW	heating energy	η s,h	180.9	%
	i ratcu,i	10.0	KVV	efficiency	1 5,11	100.5	/0
Declared heating capacity for part load	at indoor t	omporatur	20°C	Doctored coefficient	of performance or gas utiliz	zation officia	nev/
and outdoor temperature Ti	at illuool t	emperature	5 20 C				
and outdoor temperature 1)				auxiliary energy facto	or for part load at given out	door terripei	atures 1
			l				7
$T_j=-7$ °C	Pdh	13.7	kW	T _j =-7°C	COPd or	270.0	%
		-	_		GUEh,bin / AEFh,bin	270.0	70
T _j =+2°C	Pdh	8.4	kW	T _j =+2°C	COPd or		1
1., = 5		0.7]	-j = 0		440.0	%
	5		ا ،،،،		GUEh,bin / AEFh,bin		4
T_j =+7°C	Pdh	5.4	kW	T _j =+7°C	COPd or	630.0	%
		·			GUEh,bin / AEFh,bin	000.0	/*
T _j =+12°C	Pdh	2.9	kW	T _i =+12°C	COPd or		1.,
1,1 .= -			۱	', '- '	GUEh,bin / AEFh,bin	890.0	%
T bireland to man another	D.III		71.347	T 155 colo co4			-
T _{biv} =bivalent temperature	Pdh	15.5	kW	T _{biv} =bivalent	COPd or	220.0	%
			_	temperature	GUEh,bin / AEFh,bin		
T _{OL} =operation limit	Pdh	11.9	kW	T _{OL} =operation limit	COPd or	040.0	0/
			-		GUEh,bin / AEFh,bin	210.0	%
For air-to-water heat pumps :	Pdh	_	kW	For air-to-water heat	, ,		1
1 .	i dii],,,,			-	%
T _j =-15°C				pumps:T _j =-15°C	GUEh,bin / AEFh,bin		
(if T _{OL} <-20°C)				(if T_{OL} <-20°C)			
Bivalent temperature	T_biv	-10.0]ଂ⊂	For water-to-air heat			1
	- DIV		J -	pumps:Operation lim	i+	_	°C
			, l		IL .	-	
Degradation				T _{ol} temperature			_
coefficient	C_{dh}	0.25	-				
heat pumps**							
		L	-				
Power consumpiton in modes other tha	n 'active m	node'		Supplementary heate	ar .		1
l ower consumption in modes other tha	iii dolive ii	1000		back-up heating capa	EIDII	-	kW
Off was also	Б	0.045	المدر	back-up neating cape	acity		_
Off mode	P_{OFF}	0.015	kW				-
Thermostat-off mode	P_{TO}	0.020	kW	Type of energy input	В	0.045	134/
Crankcase heater mode	P_{CK}	0.005	kW	Standby mode	P_{SB}	0.015	kW
Cramoado noator modo	· CK	0.000]	Stariuby mode			_
Other items							
Other items				Facility of the set of			7
			, l	For air-to-air heat pur	•	6,000	m³/h
Capacity control		variable	<u> </u>	air flow-rate,outdoor	measured	.,	_
			_				-
Sound power level,	L_WA	71.0	dB	For water-/brine-to-ai			
outdoor measured	-vvA	7 1.0] "	Rated brine or water		-	m³/h
			_	outdoor side heat exc	changer		
Emissions of nitrogen	NOv		mg/kWh				_
oxides(if applicable)	NOx ***	-	fuel input				
	^^^		GCV				
		L	-				
GWP of the							
		675	kg CO₂eq.				
refrigerant			(100years)				
			ermal systei				
** If Cdh is not determined by measure	ment then	the default	degradation	n coefficient air condition	oners shall be 0,25.		
*** from 26 September 2018			-		•		
Where information relates to multi-spilt	air condition	oners,the te	est result an	d performance data be	obtained on the basis of t	he performa	ance
of the outdoor unit, with a combination						,	
,		-(-,		,	•		

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Model FDE140VNXWTVH

Model(s): FDC140VNX-	W /	FDE50VI	H(x3 units)				
Outdoor side heat exchanger of air	r conditioner :	air					
Indoor side heat exchanger of air of	conditioner :	air					
Type: vapour compression							
if applicable : electric motor							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity				Seasonal space			
	Prated,c	14.0	kW	cooling energy	η s,c	337.8	%
				efficiency			
Declared cooling capacity for part	_	tdoor tem	peratures		efficiency ratio or gas utiliza	-	
Tj and indoor 27°C/19°C(dry/wet bu	ulb)			auxiliary energy fa	actor for part load at given o	utdoor tempera	tures Tj
T:- 125°C	Pdc	14.0	kW				1
Tj=+35°C	Fuc	14.0	KVV	Tj=+35°C	EERd or	410.0	%
Tj=+30°C	Pdc	10.3	kW		GUEc,bin / AEFc,bin		1
1]=130 0	i dc	10.5]KVV	Tj=+30°C	EERd or	600.0	%
Tj=+25°C	Pdc	6.6	kW	T:- + 0.5°0	GUEc,bin / AEFc,bin		1
11]20-0	1 40	0.0],	Tj=+25°C	EERd or	870.0	%
Tj=+20°C	Pdc	3.7	kW	T:- 120°C	GUEc,bin / AEFc,bin		1
1, 1200	1 40	0],	Tj=+20°C	EERd or	2320.0	%
Degradation			1		GUEc,bin / AEFc,bin		_
coefficient for	Cdc	0.25					
air conditioners**	Out						
an conditioners			_				
Power consumpiton in other than 'a Off mode Thermostat-off mode	P _{OFF}	0.015	kW kW	Crankcase heater Standby mode	r mode P _{CK} P _{SB}	0.005 0.015	kW kW
Other items							1
Capacity control		variable]	For air-to-air air co		6,000	m³/h
Sound power level,		60.0	dD				
outdoor	L_{WA}	69.0	dB				
			=				
If engine driven:			mg/kWh				
Emissions of nitrogen	NOx ***	-	fuel input				
oxides			GCV				
			٦				
GWP of the		675	kg CO ₂ eq. (100years)				
refrigerant			(100years)				
Contact datails	u biobi bas	duoteis : 11	ormel = :1				
Contact details Mits ** If Cdc is not determined by mea	subishi heavy ind surement then t				ditioners shall be 0.25		
*** from 26 September 2018	Caronioni (Hell (aciauli	Jogradatio	soomsion all con			
Where information relates to multi-	-enilt air conditia	nare the t	est result or	nd nerformance deta	he obtained on the basis s	of the performer	nce
						n are periorilar	100
of the outdoor unit, with a combina	ilion of indoor u	nt(s) recoi	ппепаеа в	y me manuracturer (ог ппроцег.		

Information to identify the model(s) to v	vhich the ir	nformation i	relates :	FDC140VNX-W /	FDE50VH(x3 units)		
Outdoor side heat exchanger of heat p	ump :	air					
Indoor side heat exchanger of heat pur	np :	air					
Indication if the heater is equipped with	a supplen	nentary hea	ater :	No			
if applicable : electric motor							
Parameters shall be declared for the av	erage hea	ating seaso	n , paramete	ers for the warmer and	colder heating seasons are	optional.	
Item	Symbol	l Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity				Seasonal space			
	Prated,	1 6.0	kW	heating energy	η s,h	185.5	%
				efficiency			
Declared heating capacity for part load	at indoor t	emperature	e 20°C	Declared coefficient of	of performance or gas utiliza	ation efficie	ency /
and outdoor temperature Tj				auxiliary energy facto	or for part load at given outd	oor tempei	ratures Tj
$T_j=-7^{\circ}C$	Pdh	11.5	kW	T _j =-7°C	COPd or	0.40.0],,
,			J	'	GUEh,bin / AEFh,bin	310.0	%
T _j =+2°C	Pdh	7.0	kW	T _j =+2°C	COPd or		1
11,-120	i dii	7.0]KVV	1]=120		460.0	%
			7		GUEh,bin / AEFh,bin		4
T_j =+7°C	Pdh	4.5	kW	T _j =+7°C	COPd or	590.0	%
			_		GUEh,bin / AEFh,bin	000.0	/0
T _i =+12°C	Pdh	2.9	kW	T _j =+12°C	COPd or	0.40.0],,
J			_	'	GUEh,bin / AEFh,bin	810.0	%
T _{biv} =bivalent temperature	Pdh	13.0	kW	T _{biv} =bivalent	COPd or		-
T _{biv} -bivalent temperature	i uii	13.0]KVV			230.0	%
	.		7	temperature	GUEh,bin / AEFh,bin		_
T _{OL} =operation limit	Pdh	10.3	kW	T _{OL} =operation limit	COPd or	210.0	%
			_		GUEh,bin / AEFh,bin		<u> </u>
For air-to-water heat pumps :	Pdh	-	kW	For air-to-water heat	COPd or		%
T _i =-15°C				pumps:T _i =-15°C	GUEh,bin / AEFh,bin	-	70
(if T _{OL} <-20°C)				(if T _{OL} <-20°C)			4
(11 10) (25 5)				(10L \ 200)			
Divolent teneneneture	_	40.0	7 ∘o				7
Bivalent temperature	T_{biv}	-10.0	°C	For water-to-air heat			0 -
			٦ .	pumps:Operation lim	iit	-	°C
Degradation				T _{ol} temperature			
coefficient	C_{dh}	0.25	-			-	-
heat pumps**							
			_				
Power consumpiton in modes other that	ın 'active n	node'		Supplementary heate	er alla		1.307
·				back-up heating capa	acity elbu	-	kW
Off mode	P_{OFF}	0.015	kW		,		<u>-</u> 1
		0.020	-				1
Thermostat-off mode	P_{TO}		kW	Type of energy input	P_{SB}	0.015	kW
Crankcase heater mode	P_{CK}	0.005	kW	Standby mode	95		
Other items							_
			_	For air-to-air heat pur	mps:	6,000	m³/h
Capacity control		variable		air flow-rate,outdoor	measured	0,000	
			_				_
Sound power level,	L_WA	71.0	dB	For water-/brine-to-ai			
outdoor measured	-vvA			Rated brine or water		-	m³/h
			_	outdoor side heat exc	changer		
Emissions of nitrogen	NOx		mg/kWh				
oxides(if applicable)	***	-	fuel input				
			GCV				
			_				
GWP of the		675	kg CO ₂ eq.				
refrigerant		673	(100years)				
			_ () /				
Contact details Mitsubis	hi heavy ir	dustries the	ermal syste	ms,LTD			
** If Cdh is not determined by measure					oners shall be 0,25.		
*** from 26 September 2018			J		,		
Where information relates to multi-spilt	air conditi	oners,the te	est result an	nd performance data be	e obtained on the basis of th	e performa	ance
of the outdoor unit, with a combination						-	

Model FDE140VSXWTVH

Madal(a)							
Model(s): FDC140VSX			H(x3 units)				
Outdoor side heat exchanger of a		iir					
Indoor side heat exchanger of air	conditioner. a	iir					
Type: vapour compression if applicable: electric moto	-						
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	Prated,c	14.0	kW	Seasonal space cooling energy efficiency	η s,c	337.8	%
Declared cooling capacity for par Tj and indoor 27°C/19°C(dry/wet b	•	oor tem	peratures		efficiency ratio or gas utiliz factor for part load at given	-	tures Tj
Tj=+35℃	Pdc	14.0	kW	Tj=+35°C	EERd or GUEc,bin / AEFc,bin	410.0	%
Tj=+30°C	Pdc	10.3	kW	Tj=+30°C	EERd or GUEc,bin / AEFc,bin	600.0	%
Tj=+25℃	Pdc	6.6	kW	Tj=+25°C	EERd or GUEc,bin / AEFc,bin	870.0	%
Tj=+20°C	Pdc	3.7	kW	Tj=+20°C	EERd or GUEc,bin / AEFc,bin	2320.0	%
Degradation							
coefficient for air conditioners**	Cdc	0.25	_				
Power consumpiton in other than Off mode Thermostat-off mode	P _{OFF} P _{TO}	0.015	kW kW	Crankcase heate	er mode P _{CK}	0.005 0.015	kW kW
Other items							1
Capacity control	Ŋ	variable		For air-to-air air o		6,000	m³/h
Sound power level, outdoor	L _{WA}	69.0	dB				
If engine driven: Emissions of nitrogen oxides	NOx ***	-	mg/kWh fuel input GCV				
GWP of the refrigerant		675	kg CO₂eq. (100years)				
Contact details Mi	tsubishi heavy indu	stries th	ermal syster	ms,LTD			
** If Cdc is not determined by me *** from 26 September 2018	asurement then the	e default	degradation	n coefficient air cor			
Where information relates to mult	i-spilt air conditione	ers.the to	est result an	d performance dat	ta be obtained on the basis	of the performan	ice

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of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.

Information to identify the model(s)			relates :	FDC140VSX-W /	FDE50VH(x3 units)		
Outdoor side heat exchanger of he		air					
Indoor side heat exchanger of heat		air					
Indication if the heater is equipped	with a supplem	nentary hea	iter:	No			
if applicable : electric motor		·		f H	Id-a b Banasa		
Parameters shall be declared for th							I India
Rated heating capacity	Symbol	Value	Unit	Item Seasonal space	Symbol	Value	Unit
Rated fleating capacity	Prated,h	16.0	kW	heating energy	η s,h	170.2	%
	i rateu,i	10.0	KVV	efficiency	1 5,11	170.2	/0
Declared heating capacity for part I	oad at indoor to	emperature	20°C	Declared coefficient of	of performance or gas utiliza	ation efficie	ency /
and outdoor temperature Ti					or for part load at given outd		
,							,
T _j =-7°C	Pdh	13.7	kW	T _i =-7°C	COPd or		1
1			_	l l	GUEh,bin / AEFh,bin	260.0	%
T _j =+2°C	Pdh	8.4	kW	T _j =+2°C	COPd or		1
1, 120	i dii	0.4],			430.0	%
T - 17°0	Dalb		7,,,,,	T-17°0	GUEh,bin / AEFh,bin		-
$T_j=+7^{\circ}C$	Pdh	5.4	kW	T _j =+7°C	COPd or	540.0	%
			7		GUEh,bin / AEFh,bin		4
T _j =+12°C	Pdh	2.9	kW	T _j =+12°C	COPd or	810.0	%
					GUEh,bin / AEFh,bin	0.000	
T _{biv} =bivalent temperature	Pdh	15.5	kW	T _{biv} =bivalent	COPd or	210.0	%
			_	temperature	GUEh,bin / AEFh,bin	210.0	
T _{OL} =operation limit	Pdh	11.9	kW	T _{OL} =operation limit	COPd or	200.0	%
			_		GUEh,bin / AEFh,bin	200.0	/0
For air-to-water heat pumps :	Pdh	-	kW	For air-to-water heat	COPd or		0/
T _i =-15°C			_	pumps:T _i =-15°C	GUEh,bin / AEFh,bin	-	%
(if T _{OL} <-20°C)				(if T _{OL} <-20°C)		ļ	4
() ()				(OL (= 0 0)			
Bivalent temperature	T_biv	-10.0	l℃	For water-to-air heat			7
Divalent temperature	¹ biv	-10.0] •		:4		°C
Daniel dation			7	pumps:Operation lim	Ц	_	
Degradation		0.05		T _{ol} temperature			_
coefficient	$C_{\sf dh}$	0.25	-				
heat pumps**							
Davisa as as as as a sign as a day of the	41 14:			Commission and a mode and	_		٦
Power consumpiton in modes othe	r than active in	100e		Supplementary heate	einii	-	kW
Off was also	Б	0.045	1.347	back-up heating capa	acity		J
Off mode	P_{OFF}	0.015	kW				7
Thermostat-off mode	P_{TO}	0.020	kW	Type of energy input	P_{SB}	0.015	kW
Crankcase heater mode	P_{CK}	0.005	kW	Standby mode	. 2B	0.010	
			_				_
Other items							_
			_	For air-to-air heat pur	mps:	6,000	m³/h
Capacity control		variable		air flow-rate,outdoor	measured	0,000	
			7				7
Sound power level,	L_WA	71.0	dB	For water-/brine-to-ai			2/1-
outdoor measured			_	Rated brine or water outdoor side heat exc		-	m³/h
Emissions of nitrogen			mg/kWh	Outdoor side rieat ext	changer		J
oxides(if applicable)	NOx	_	fuel input				
oxideo(ii applicable)	***		GCV				
]001				
GWP of the			kg CO₂eq.				
refrigerant		675	(100years)				
			_ (rooycaro)				
Contact details Mits	ubishi heavy in	dustries the	ermal syste	ms,LTD			
** If Cdh is not determined by mea					oners shall be 0,25.		
*** from 26 September 2018			-		•		
Where information relates to multi-						e performa	ance
of the outdoor unit, with a combina	tion of indoor u	nit(s) recor	nmended b	y the manufacturer or in	mporter.		
1							

Models FDE50VH, 60VH, 71VH, 100VH, 125VH, 140VH

Model(s): FDE50VH							
Item	Symbol	Vaiue	Unit	Item	Symbol	Vaiue	Un
Cooling capacity (sensible)	$P_{rated,c}$	3.8	kW	Total electric power input	P _{elec}	0.050	kW
Cooling capacity (latent)	$P_{rated,c}$	1.2	kW	Sound power level (per speed setting,if applicable)	L_{WA}	60.0	dB
Heating capacity	$P_{rated,h}$	5.4	kW				
Contact details	Mitsubishi	heavy ind	ustries the	rmal systems,LTD			

Model(s) : FDE60VH							
Item	Symbol	Vaiue	Unit	Item	Symbol	Vaiue	Unit
Cooling capacity (sensible)	$P_{rated,c}$	5.0	kW	Total electric power input	P _{elec}	0.080	kW
Cooling capacity (latent)	P _{rated,c}	0.6	kW	Sound power level (per speed setting,if applicable)	L_WA	60.0	dB
Heating capacity	$P_{\text{rated,h}}$	6.7	kW				
Contact details	Mitsubishi	heavy ind	ustries the	ermal systems,LTD			

Model(s) : FDE71VH							
Item	Symbol	Vaiue	Unit	Item	Symbol	Vaiue	U
Cooling capacity (sensible)	$P_{rated,c}$	5.6	kW	Total electric power input	P _{elec}	0.080	k۱
Cooling capacity (latent)	P _{rated,c}	1.5	kW	Sound power level (per speed setting,if applicable)	L _{WA}	60.0	dE
Heating capacity	$P_{rated,h}$	8.0	kW				
Contact details	Mitsubishi	heavy ind	ustries the	ermal systems,LTD			

lodel(s): FDE100VH							
Item	Symbol	Vaiue	Unit	Item	Symbol	Vaiue	-
Cooling capacity (sensible)	$P_{rated,c}$	8.4	kW	Total electric power input	P _{elec}	0.130	ŀ
Cooling capacity (latent)	$P_{rated,c}$	1.6	kW	Sound power level (per speed setting,if applicable)	L _{WA}	64.0	d
Heating capacity	$P_{rated,h}$	11.2	kW				
Contact details	Mitsubishi	heavy ind	ustries the	rmal systems,LTD			

Model(s): FDE125VH							
Item	Symbol	Vaiue	Unit	Item	Symbol	Vaiue	
Cooling capacity (sensible)	$P_{rated,c}$	9.3	kW	Total electric power input	P _{elec}	0.130	
Cooling capacity (latent)	P _{rated,c}	3.2	kW	Sound power level (per speed setting,if applicable)	L _{WA}	64.0	(
Heating capacity	$P_{rated,h}$	14.0	kW				
Contact details	Mitsubishi	neavy ind	ustries the	rmal systems,LTD			

Model(s): FDE140VH								
Item	Symbol	Vaiue	Unit	Item	Symbol	Vaiue	Unit	
Cooling capacity (sensible)	$P_{rated,c}$	10.2	kW	Total electric power input	P_{elec}	0.140	kW	
Cooling capacity (latent)	P _{rated,c}	3.8	kW	Sound power level (per speed setting,if applicable)	L_{WA}	65.0	dB	
Heating capacity	P _{rated,h}	16.0	kW					
Contact details	Mitsubishi	ubishi heavy industries thermal systems,LTD						

(6) Wall mounted type (SRK)

Model SRK100VNXWZR

Information to identify the model(s) to will Indoor unit model name	which the information relates to:			If function includes heating: Indicate the heating season the information relates to. Indicated values should relate to one			
Outdoor unit model name	FDC100V			heating season at a time. Include at leas			
						J	
Function(indicate if present)				Average(mandatory)	Yes		
cooling	Yes			Warmer(if designated)	No		
heating	Yes			Colder(if designated)	No		
Item	symbol	value	unit	Item	symbol	value class	
Design load				Seasonal efficiency and energy efficiency			
cooling	Pdesigno		kW	cooling	SEER	6.54 A++	
heating / Average	Pdesignh		kW	heating / Average	SCOP/A	4.01 A	
heating / Warmer heating / Colder	Pdesignh		kW kW	heating / Warmer heating / Colder	SCOP/W SCOP/C		
rieating / Coider	Pdesignh	-	KVV	rieating / Colder	300F/C	unit	
Declared capacity at outdoor temperatu	re Tdesign	h		Back up heating capacity at outdoor ter	nperature -		
heating / Average (-10°C)	Pdh	10.5	kW	heating / Average (-10°C)	elbu	0 kW	
heating / Warmer (2°C)	Pdh	-	kW	heating / Warmer (2°C)	elbu	- kW	
heating / Colder (-22°C)	Pdh	-	kW	heating / Colder (-22°C)	elbu	- kW	
Declared capacity for cooling, at indoor	temneratiii	ra 27/10\°	∩ and	Declared energy efficiency ratio, at indo	or temper	ature 27/10\°C and	
outdoor temperature Tj	temperatu	E 21 (19) (o anu	outdoor temperature Tj	or tempera	ature 27 (19) C and	
Tj=35°C	Pdc	10.00	kW	Tj=35°C	EERd	3.69 -	
Tj=30°C	Pdc	7.30	kW	Tj=30°C	EERd	5.70 -	
Tj=25°C	Pdc	4.70	kW	Tj=25°C	EERd	9.00 -	
Tj=20°C	Pdc	3.10	kW	Tj=20°C	EERd	10.60 -	
Declared capacity for heating / Average	202202	tindoor	1	Declared coefficient of performance / A	verson occ	eon at indoor	
temperature 20°C and outdoor tempera		i iiiuUUI		temperature 20°C and outdoor tempera		ason, at induol	
Tj=-7°C	Pdh	9.29	kW	Tj=-7°C	COPd	2.38 -	
Tj=2°C	Pdh	5.65	kW	Tj=2°C	COPd	3.76 -	
Tj=7°C	Pdh	3.63	kW	Tj=7°C	COPd	5.90 -	
Tj=12°C	Pdh	2.87	kW	Tj=12°C	COPd	7.21 -	
Tj=bivalent temperature	Pdh Pdh	10.50 7.80	kW kW	Tj=bivalent temperature	COPd COPd	2.20 -	
Tj=operating limit	Pun	7.80	KVV	Tj=operating limit	COPa	2.00 -	
Declared capacity for heating / Warmer	season, at	indoor		Declared coefficient of performance / W	armer sea	son, at indoor	
temperature 20°C and outdoor tempera	ture Tj		_	temperature 20°C and outdoor tempera	ture Tj		
Tj=2°C	Pdh	-	kW	Tj=2°C	COPd		
Tj=7°C	Pdh	-	kW	Tj=7°C	COPd		
Tj=12°C Tj=bivalent temperature	Pdh Pdh	-	kW kW	Tj=12°C Tj=bivalent temperature	COPd COPd		
Tj=operating limit	Pdh	-	kW	Tj=operating limit	COPd		
.j operating intit		1		.j opolating iiiii	00. u	1	
Declared capacity for heating / Colder s		ndoor		Declared coefficient of performance / C		on, at indoor	
temperature 20°C and outdoor tempera			1	temperature 20°C and outdoor tempera			
Tj=-7°C	Pdh Pdh	-	kW kW	Tj=-7°C Tj=2°C	COPd		
Tj=2°C Tj=7°C	Pdh	-	kW	Ti=7°C	COPd COPd		
Tj=12°C	Pdh	-	kW	Ti=12°C	COPd		
Tj=bivalent temperature	Pdh	-	kW	Tj=bivalent temperature	COPd		
Tj=operating limit	Pdh	-	kW	Tj=operating limit	COPd		
Tj=-15℃	Pdh	-	kW	Tj=-15°C	COPd		
Di la di				0 0 0 0			
Bivalent temperature heating / Average	Tbiv	-10	l°c	Operating limit temperature heating / Average	Tol	-20 °C	
heating / Warmer	Tbiv	-10	°C	heating / Warmer	Tol	- °C	
heating / Colder	Tbiv	-	°C	heating / Colder	Tol	- °C	
						'	
Cycling interval capacity	_	_	1	Cycling interval efficiency			
for cooling	Pcycc	-	kW	for cooling	EERcyc		
for heating	Pcych	-	kW	for heating	COPcyc	- -	
Degradation coefficient				Degradation coefficient			
cooling	Cdc	0.25	1-	heating	Cdh	0.25 -	
		•				•	
Electric power input in power modes of				Annual electricity consumption	0.5-	E2E 1340 /	
off mode standby mode	Poff Psb	20	W	cooling heating / Average	Qce Qhe	535 kWh/a 3671 kWh/a	
thermostat-off mode	Pto(cooling)	35	W	heating / Warmer	Qhe	- kWh/a	
incimostat on mode	Pto(heating)	60	w	heating / volumer	Qhe	- kWh/a	
crankcase heater mode	Pck	5	W	g. co		1 1 1 1 1 1 1 1	
		•	•				
Capacity control(indicate one of three o	ptions)			Other items	1		
				Sound power level(indoor)	Lwa	63 dB(A)	
fixed	No			Sound power level(outdoor) Global warming potential	Lwa GWP	67 dB(A) 675 kgCO ₂ eq	
staged	No			Rated air flow(indoor)	GWP	1470 kgCO ₂ eq	
variable	Yes			Rated air flow(outdoor)	-	6000 m³/h	
	1			, ,			
				er or of its authorised representative.			
				itioning Europe, Ltd. ge, Middlesex,UB11 1ET, United kingdom			
5 1116	oquaic, o	CONICY I'd	, OADIIUU	go, madicoox,ob i i in i, onited kingdom			

Model SRK100VSXWZR

Model SRK100VSXWZR			
Information to identify the model(s) to	which the information relates to	If function includes heating: Indicate	e the heating season the
Indoor unit model name	SRK100ZR-W	information relates to. Indicated val	
Outdoor unit model name	FDC100VSX-W	heating season at a time. Include at	
		¬	g
Function(indicate if present)		Average(mandatory)	Yes
cooling	Yes	Warmer(if designated)	No
heating	Yes	Colder(if designated)	No
Tiod ting	1.00	Coldor(ii doolgridtod)	110
Item	symbol value unit	Item	symbol value class
Design load	Symbol Value unit	Seasonal efficiency and energy effi	
cooling	Pdesignc 10.0 kW	cooling	SEER 6.54 A++
heating / Average	Pdesignh 10.5 kW	heating / Average	SCOP/A 4.01 A
heating / Warmer	Pdesignh - kW	heating / Warmer	SCOP/W
heating / Colder	Pdesignh - kW	heating / Colder	SCOP/C
ricating / Colder	r designin = kvv	ricating / Golder	unit
Declared capacity at outdoor temperature	ature Tdesignh	Back up heating capacity at outdoo	
heating / Average (-10°C)	Pdh 10.5 kW	heating / Average (-10°C)	elbu 0 kW
heating / Warmer (2°C)	Pdh - kW	heating / Warmer (2°C)	1.11 <u>- 1 </u>
heating / Colder (-22°C)	Pdh - kW	heating / Colder (-22°C)	elbu - kW
Designed assessment for a selling of inde	t07/40\ ⁰ 01] [D	:
Declared capacity for cooling, at indo	or temperature 27(19) C and	Declared energy efficiency ratio, at	indoor temperature 27(19) C and
outdoor temperature Tj	D	outdoor temperature Tj	55D L
Tj=35°C	Pdc 10.00 kW	Tj=35°C	EERd 3.69 -
Tj=30°C	Pdc 7.30 kW	Tj=30°C	EERd 5.70 -
Tj=25°C	Pdc 4.70 kW	Tj=25°C	EERd 9.00 -
Tj=20°C	Pdc 3.10 kW	Tj=20°C	EERd 10.60 -
		1.1	· ·
Declared capacity for heating / Avera		Declared coefficient of performance	
temperature 20°C and outdoor temperature		temperature 20°C and outdoor tem	
Tj=-7°C	Pdh 9.29 kW	Tj=-7°C	COPd 2.38 -
Tj=2°C	Pdh 5.65 kW	Tj=2°C	COPd 3.76 -
Tj=7°C	Pdh 3.63 kW	Tj=7°C	COPd 5.90 -
Tj=12°C	Pdh 2.87 kW	Tj=12°C	COPd 7.21 -
Tj=bivalent temperature	Pdh 10.50 kW	Tj=bivalent temperature	COPd 2.20 -
Tj=operating limit	Pdh 7.80 kW	Tj=operating limit	COPd 2.00 -
, , ,	<u> </u>		<u> </u>
Declared capacity for heating / Warn	ner season, at indoor	Declared coefficient of performance	/ Warmer season, at indoor
temperature 20°C and outdoor temperature 20°C and outdoor temperature		temperature 20°C and outdoor and outdoor and outdo	
Tj=2°C	Pdh - kW	Tj=2°C	COPd
Ti=7°C	Pdh - kW	Ti=7°C	COPd
Ti=12°C	Pdh - kW	Ti=12°C	COPd
Tj=bivalent temperature	Pdh - kW	Tj=bivalent temperature	COPd
Tj=operating limit	Pdh - kW	Tj=operating limit	COPd
1j-operating innit	1 (11) - 1(44)	I j-operating limit	
Declared capacity for heating / Colde	er season, at indoor	Declared coefficient of performance	2 / Colder season, at indoor
temperature 20°C and outdoor temperature		temperature 20°C and outdoor temperature	
Ti=-7°C	Pdh - kW	Tj=-7°C	COPd
Tj=2°C	Pdh - kW	Tj=2°C	COPd -
Tj=7°C	Pdh - kW	Tj=7°C	COPd -
Tj=12°C	Pdh - kW	Tj=12°C	COPd
,		11 '	COPd
Tj=bivalent temperature		Tj=bivalent temperature	0001
Tj=operating limit		Tj=operating limit	
Tj=-15°C	Pdh - kW	Tj=-15°C	COPd
Divelent to see a set us		O	
Bivalent temperature	This 40	Operating limit temperature	Tol. 30 100
heating / Average	Tbiv°C	heating / Average	Tol -20 °C
heating / Warmer	Tbiv - °C	heating / Warmer	Tol - °C
heating / Colder	Tbiv - ℃	heating / Colder	Tol - °C
0 " ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '			
Cycling interval capacity	Device Live	Cycling interval efficiency	EEDavis T
for cooling	Pcycc - kW	for cooling	EERcyc
for heating	Pcych - kW	for heating	COPcyc
		10-	<u> </u>
Degradation coefficient		Degradation coefficient	
cooling	Cdc 0.25 -	heating	Cdh 0.25 -
Electric power input in power modes		Annual electricity consumption	
off mode	Poff 20 W	cooling	Qce 535 kWh/a
standby mode	Psb 20 W	heating / Average	Qhe 3671 kWh/a
thermostat-off mode	Pto(cooling) 35 W	heating / Warmer	Qhe - kWh/a
	Pto(heating) 60 W	heating / colder	Qhe - kWh/a
crankcase heater mode	Pck 5 W		<u>-</u>
Capacity control(indicate one of three	e options)	Other items	
	•	Sound power level(indoor)	Lwa 63 dB(A)
		Sound power level(outdoor)	Lwa 67 dB(A)
fixed	No	Global warming potential	GWP 675 kgCO₂ec
staged	No	Rated air flow(indoor)	- 1470 m³/h
variable	Yes	Rated air flow(outdoor)	- 6000 m³/h
	1		1 0000 111711
Contact details for obtaining Na	me and address of the manufacti	irer or of its authorised representative.	
	subishi Heavy Industries Air-Con		
		lge, Middlesex,UB11 1ET, United king	dom
"	quality of and, oxbine	.g.,da.coo,,c.z. i izi, oimod kiig	

Model SRK100VNXWPZSX

nformation to identify the model(s ndoor unit model name			The same of the sa			
ndoor unit model name						
		X-W (x2 units)	information relates to. Indicated val			
Outdoor unit model name	FDC100V	NX-W	heating season at a time. Include at	t least the heatir	ng season	'Average
			7			
Function(indicate if present)			Average(mandatory)	Yes		
cooling	Yes		Warmer(if designated)	No		
neating	Yes		Colder(if designated)	No		
tem	symbol	value unit	Item	symbol	value	class
Design load	Delasiena	10.0 kW	Seasonal efficiency and energy effi		7.66	T A
cooling	Pdesigno		cooling	SEER		A++
neating / Average	Pdesignh	11.2 kW	heating / Average	SCOP/A	4.25	A+
neating / Warmer	Pdesignh	- kW	heating / Warmer	SCOP/W		-
neating / Colder	Pdesignh	- kW	heating / Colder	SCOP/C	-	
DI I	t T-l:I		1 D1 b4:: b44		Falla a l'assa la	unit
Declared capacity at outdoor temp			Back up heating capacity at outdoo			712107
neating / Average (-10°C)	Pdh		heating / Average (-10°C)	elbu	0	kW
neating / Warmer (2°C)	Pdh	- kW	heating / Warmer (2°C)	elbu	-	kW
neating / Colder (-22°C)	Pdh	- kW	heating / Colder (-22°C)	elbu	-	kW
Dealared conscitutor earling at it	- d r t r-t r	27/10\°C and	Declared energy officiency ratio at	indoor tomorous	tura 07/1	0\°0 and
Declared capacity for cooling, at in	idoor terriperature	5 ∠1 (19) C and	Declared energy efficiency ratio, at	muoor tempera	iture 27(1	a) c and
outdoor temperature Tj	ا مام	40.00	outdoor temperature Tj	EED4	4.05	٦
-j=35°C -:30°C	Pdc	10.00 kW	Tj=35°C	EERd	4.05	-d⁻
Γj=30°C	Pdc	7.30 kW	Tj=30°C	EERd	6.20	4-
Γj=25°C	Pdc	4.70 kW	Tj=25°C	EERd	10.70	
_j=20°C	Pdc	3.66 kW	Tj=20°C	EERd	17.00	-
			16.			
Declared capacity for heating / Av		indoor	Declared coefficient of performance		son, at in	door
emperature 20°C and outdoor ten		0.04	temperature 20°C and outdoor tem			7
-j=-7°C	Pdh	9.91 kW	Tj=-7°C	COPd	2.88	<u> </u>
j=2°C	Pdh	6.03 kW	Tj=2°C	COPd	3.86	
j=7°C	Pdh	3.88 kW	Tj=7°C	COPd	6.12	
_j=12°C	Pdh	2.81 kW	Tj=12°C	COPd	7.42	
Γj=bivalent temperature	Pdh	11.20 kW	Tj=bivalent temperature	COPd	2.20	
rj=operating limit	Pdh	8.60 kW	Tj=operating limit	COPd	2.00	_
Declared capacity for heating / Wa	armer season, at	indoor	Declared coefficient of performance	e / Warmer sea	son, at inc	door
emperature 20°C and outdoor ten	nperature Tj		temperature 20°C and outdoor tem	perature Tj		
¯j=2°C	Pdh	- kW	Tj=2°C	COPd	-]-
⁻j=7°C	Pdh	- kW	Tj=7°C	COPd	-	7-
j=12°C	Pdh	- kW	Tj=12°C	COPd	-	7-
rj=bivalent temperature	Pdh	- kW	Tj=bivalent temperature	COPd	-	1-
rj=operating limit	Pdh	- kW	Tj=operating limit	COPd	-	1-
, , ,		L				
Declared capacity for heating / Co	older season, at ir	idoor	Declared coefficient of performance	e / Colder seaso	on, at indo	or
emperature 20°C and outdoor ten	nperature Tj		temperature 20°C and outdoor tem	perature Tj		
Гј=-7°С	Pdh	- kW	Tj=-7°C	COPd	-]-
Γj=2°C	Pdh	- kW	Tj=2°C	COPd	-	7-
Γi=7°C	Pdh	- kW	Ti=7°C	COPd	-	7-
	Pdh	- kW	Tj=12°C	COPd	-	7-
Γj=bivalent temperature	Pdh	- kW	Tj=bivalent temperature	COPd	-	7-
j=operating limit	Pdh	- kW	Tj=operating limit	COPd	-	1-
i=-15℃	Pdh	- kW	Tj=-15°C	COPd	-	┪_
						1
j 10 0				001 u		
Bivalent temperature			Operating limit temperature	001 0		
	Tbiv	-10 °C	Operating limit temperature heating / Average	Tol	-20]℃
Sivalent temperature eating / Average	· · · · · · · · · · · · · · · · · · ·		heating / Average	Tol	-20]°C ⊙
Sivalent temperature eating / Average eating / Warmer	Tbiv	- °C	heating / Average heating / Warmer		-20 -	
Sivalent temperature leating / Average leating / Warmer	· · · · · · · · · · · · · · · · · · ·	- °C	heating / Average	Tol Tol	-	°C
Sivalent temperature leating / Average leating / Warmer leating / Colder	Tbiv	- °C	heating / Average heating / Warmer	Tol Tol	-	°C
sivalent temperature eating / Average eating / Warmer eating / Colder	Tbiv	- °C	heating / Average heating / Warmer heating / Colder	Tol Tol	-	°C
ivalent temperature eating / Average eating / Warmer eating / Colder cycling interval capacity or cooling	Tbiv Tbiv	- °C - 'C	heating / Average heating / Warmer heating / Colder Cycling interval efficiency for cooling	Tol Tol Tol EERcyc	-	°C
bivalent temperature eating / Average eating / Warmer eating / Colder Cycling interval capacity or cooling	Tbiv Tbiv	- °C - °C	heating / Average heating / Warmer heating / Colder Cycling interval efficiency	Tol Tol Tol	-	°C
Bivalent temperature leating / Average leating / Warmer leating / Colder Cycling interval capacity or cooling or heating	Tbiv Tbiv	- °C - 'C	heating / Average heating / Warmer heating / Colder Cycling interval efficiency for cooling for heating	Tol Tol Tol EERcyc	-	°C
Sivalent temperature eating / Average eating / Warmer eating / Colder Sycling interval capacity or cooling or heating	Tbiv Tbiv	- °C - 'C	heating / Average heating / Warmer heating / Colder Cycling interval efficiency for cooling	Tol Tol Tol EERcyc	-	°C
Sivalent temperature eating / Average eating / Warmer eating / Colder Sycling interval capacity or cooling or heating	Tbiv Tbiv Pcycc Pcych	- °C - °C - kW - kW	heating / Average heating / Warmer heating / Colder Cycling interval efficiency for cooling for heating Degradation coefficient	Tol Tol Tol EERcyc COPcyc	-	°C
Bivalent temperature leating / Average leating / Warmer leating / Colder Cycling interval capacity or cooling or heating Degradation coefficient leating	Tbiv Tbiv Pcycc Pcych	- °C °C °C - kW - kW - kW	heating / Average heating / Warmer heating / Colder Cycling interval efficiency for cooling for heating Degradation coefficient	Tol Tol Tol EERcyc COPcyc	-	°C
Bivalent temperature leating / Average leating / Warmer leating / Colder Cycling interval capacity or cooling or heating Degradation coefficient leating Electric power input in power mod	Tbiv Tbiv Pcycc Pcych	- °C °C °C - kW - kW - kW	heating / Average heating / Warmer heating / Colder Cycling interval efficiency for cooling for heating Degradation coefficient heating	Tol Tol Tol EERcyc COPcyc	-	°C
Bivalent temperature	Tbiv Tbiv Pcycc Pcych Cdc	- °C - °C - kW - kW - tive mode'	heating / Average heating / Warmer heating / Colder Cycling interval efficiency for cooling for heating Degradation coefficient heating Annual electricity consumption	Tol Tol Tol EERcyc COPcyc		- - - -
Sivalent temperature leating / Average leating / Warmer leating / Colder Cycling interval capacity or cooling or heating Degradation coefficient looling Electric power input in power mod off mode	Tbiv Tbiv Pcycc Pcych Cdc des other than 'acc Poff	- °C - 'C - kW - kW - tive mode' 20 W	heating / Average heating / Warmer heating / Colder Cycling interval efficiency for cooling for heating Degradation coefficient heating Annual electricity consumption cooling	Tol Tol Tol EERcyc COPcyc	- - - - 0.25	°C °C
Sivalent temperature eating / Average eating / Warmer eating / Colder Sycling interval capacity or cooling or heating Degradation coefficient ooling Electric power input in power mod ff mode tandby mode	Tbiv Tbiv Pcycc Pcych Cdc des other than 'act Poff Psb Pto(cooling)	- °C - 'C - kW - kW - kW tive mode' 20 W 20 W	heating / Average heating / Warmer heating / Colder Cycling interval efficiency for cooling for heating Degradation coefficient heating Annual electricity consumption cooling heating / Average heating / Warmer	Tol Tol Tol EERcyc COPcyc Cdh	- - - 0.25	°C °C - - - - - - - - - - - - - - - - -
Sivalent temperature eating / Average eating / Warmer eating / Colder Cycling interval capacity or cooling or heating Degradation coefficient cooling Electric power input in power mod fiff mode tandby mode nermostat-off mode	Tbiv Tbiv Pcycc Pcych Cdc des other than 'act Poff Psb Pto(cooling) Pto(heating)	- °C - °C - kW - kW 0.25 - tive mode' 20 W 20 W 50 W 70 W	heating / Average heating / Warmer heating / Colder Cycling interval efficiency for cooling for heating Degradation coefficient heating Annual electricity consumption cooling heating / Average	Tol Tol Tol EERcyc COPcyc Cdh Qce Qhe Qhe	- - - - 0.25	°C °C - - - - - - - - - - - - - - - - -
Sivalent temperature eating / Average eating / Warmer eating / Colder Cycling interval capacity or cooling or heating Degradation coefficient cooling Electric power input in power mod fiff mode tandby mode nermostat-off mode	Tbiv Tbiv Pcycc Pcych Cdc des other than 'act Poff Psb Pto(cooling)	- °C - °C - kW - kW 0.25 - tive mode' 20 W 20 W 50 W 70 W	heating / Average heating / Warmer heating / Colder Cycling interval efficiency for cooling for heating Degradation coefficient heating Annual electricity consumption cooling heating / Average heating / Warmer	Tol Tol Tol EERcyc COPcyc Cdh Qce Qhe Qhe	- - - - 0.25	°C °C - - - - - - - - - - - - - - - - -
sivalent temperature eating / Average eating / Warmer eating / Colder Cycling interval capacity or cooling or heating Degradation coefficient cooling electric power input in power mod ff mode tandby mode nermostat-off mode rankcase heater mode	Tbiv Tbiv Pcycc Pcych Cdc des other than 'acc Poff Psb Pto(cooling) Pto(heating) Pck	- °C - °C - kW - kW 0.25 - tive mode' 20 W 20 W 50 W 70 W	heating / Average heating / Warmer heating / Colder Cycling interval efficiency for cooling for heating Degradation coefficient heating Annual electricity consumption cooling heating / Average heating / Warmer heating / colder	Tol Tol Tol EERcyc COPcyc Cdh Qce Qhe Qhe	- - - - 0.25	°C °C - - - - - - - - - - - - - - - - -
sivalent temperature eating / Average eating / Warmer eating / Colder Cycling interval capacity or cooling or heating Degradation coefficient cooling electric power input in power mod ff mode tandby mode nermostat-off mode rankcase heater mode	Tbiv Tbiv Pcycc Pcych Cdc des other than 'acc Poff Psb Pto(cooling) Pto(heating) Pck	- °C - °C - kW - kW 0.25 - tive mode' 20 W 20 W 50 W 70 W	heating / Average heating / Warmer heating / Colder Cycling interval efficiency for cooling for heating Degradation coefficient heating Annual electricity consumption cooling heating / Average heating / Warmer heating / colder	Tol Tol Tol EERcyc COPcyc Cdh Qce Qhe Qhe Qhe Qhe	- - - - - - - - - - - - - - - - - - -	c c c c c c c c c c c c c c c c c c c
sivalent temperature eating / Average eating / Warmer eating / Colder Cycling interval capacity or cooling or heating Degradation coefficient cooling electric power input in power mod ff mode tandby mode nermostat-off mode rankcase heater mode	Tbiv Tbiv Pcycc Pcych Cdc des other than 'acc Poff Psb Pto(cooling) Pto(heating) Pck	- °C - °C - kW - kW 0.25 - tive mode' 20 W 20 W 50 W 70 W	heating / Average heating / Warmer heating / Colder Cycling interval efficiency for cooling for heating Degradation coefficient heating Annual electricity consumption cooling heating / Average heating / Warmer heating / colder Other items Sound power level(indoor)	Tol Tol Tol EERcyc COPcyc Cdh Qce Qhe Qhe Qhe Qhe	- - - - - - - - - - - - - - - - - - -	c c c c c c c c c c c c c c c c c c c
Bivalent temperature leating / Average leating / Warmer leating / Colder Eycling interval capacity or cooling or heating Degradation coefficient leating Electric power input in power mod leating mode leating mode leating mode Trankcase heater mode Capacity control(indicate one of the leating leat	Tbiv Tbiv Tbiv Pcycc Pcych Cdc des other than 'acr Poff Psb Pto(cooling) Pto(heating) Pck pree options)	- °C - °C - kW - kW 0.25 - tive mode' 20 W 20 W 50 W 70 W	heating / Average heating / Warmer heating / Colder Cycling interval efficiency for cooling for heating Degradation coefficient heating Annual electricity consumption cooling heating / Average heating / Warmer heating / colder Other items Sound power level(indoor) Sound power level(outdoor)	Tol Tol Tol EERcyc COPcyc Cdh Qce Qhe Qhe Qhe Qhe Lwa Lwa	- - - - - - - - - - - - - - - - - - -	c c c c c c c c c c c c c c c c c c c
Sivalent temperature eating / Average eating / Warmer eating / Colder Cycling interval capacity or cooling or heating Degradation coefficient cooling Electric power input in power mod fit mode tandby mode nermostat-off mode rankcase heater mode Capacity control(indicate one of the	Tbiv Tbiv Tbiv Pcycc Pcych Cdc des other than 'act Poff Psb Pto(cooling) Pto(heating) Pck nree options)	- °C - °C - kW - kW 0.25 - tive mode' 20 W 20 W 50 W 70 W	heating / Average heating / Warmer heating / Colder Cycling interval efficiency for cooling for heating Degradation coefficient heating Annual electricity consumption cooling heating / Average heating / Warmer heating / colder Other items Sound power level(indoor) Sound power level(outdoor) Global warming potential	Tol Tol Tol EERcyc COPcyc Cdh Qce Qhe Qhe Qhe Qhe		CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
Sivalent temperature leating / Average leating / Warmer leating / Colder Sycling interval capacity or cooling or heating Degradation coefficient looling Electric power input in power mod off mode leandby mode hermostat-off mode crankcase heater mode Capacity control(indicate one of the	Tbiv Tbiv Tbiv Pcycc Pcych Cdc des other than 'acc Poff Psb Pto(cooling) Pto(heating) Pck Arree options)	- °C - °C - kW - kW 0.25 - tive mode' 20 W 20 W 50 W 70 W	heating / Average heating / Warmer heating / Colder Cycling interval efficiency for cooling for heating Degradation coefficient heating Annual electricity consumption cooling heating / Average heating / Warmer heating / colder Other items Sound power level(indoor) Sound power level(outdoor) Global warming potential Rated air flow(indoor)	Tol Tol Tol Tol EERcyc COPcyc Cdh Qce Qhe Qhe Qhe Qhe Qhe Che Che Che Che Che Che Che Che Che C		CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
Sivalent temperature eating / Average eating / Warmer eating / Colder Cycling interval capacity or cooling or heating Degradation coefficient cooling Electric power input in power mod fit mode tandby mode nermostat-off mode rankcase heater mode Capacity control(indicate one of the	Tbiv Tbiv Tbiv Pcycc Pcych Cdc des other than 'act Poff Psb Pto(cooling) Pto(heating) Pck nree options)	- °C - °C - kW - kW 0.25 - tive mode' 20 W 20 W 50 W 70 W	heating / Average heating / Warmer heating / Colder Cycling interval efficiency for cooling for heating Degradation coefficient heating Annual electricity consumption cooling heating / Average heating / Warmer heating / colder Other items Sound power level(indoor) Sound power level(outdoor) Global warming potential	Tol Tol Tol EERcyc COPcyc Cdh Qce Qhe Qhe Qhe Qhe Lwa Lwa		CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
Sivalent temperature eating / Average eating / Warmer eating / Colder Sycling interval capacity or cooling or heating Degradation coefficient cooling Electric power input in power mod ff mode tandby mode nermostat-off mode rankcase heater mode Capacity control(indicate one of the fixed staged variable	Tbiv Tbiv Tbiv Pcycc Pcych Cdc des other than 'acc Poff Psb Pto(cooling) Pto(heating) Pck nree options) No No Yes	- °C - kW - kW - kW 10.25 - tive mode' 20 W 20 W 50 W 70 W 5 W	heating / Average heating / Warmer heating / Colder Cycling interval efficiency for cooling for heating Degradation coefficient heating Annual electricity consumption cooling heating / Average heating / Warmer heating / Colder Other items Sound power level(indoor) Sound power level(outdoor) Global warming potential Rated air flow(indoor) Rated air flow(outdoor)	Tol Tol Tol Tol EERcyc COPcyc Cdh Qce Qhe Qhe Qhe Qhe Che Company Co		CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
Sivalent temperature eating / Average eating / Warmer eating / Colder Cycling interval capacity or cooling or heating Degradation coefficient cooling Electric power input in power mod ff mode tandby mode nermostat-off mode rankcase heater mode Capacity control(indicate one of the fixed staged variable Contact details for obtaining	Tbiv Tbiv Tbiv Pcycc Pcych Cdc des other than 'acr Poff Psb Pto(cooling) Pto(heating) Pck nree options) No No Yes Name and addres	- °C - °C - kW - kW 0.25 - tive mode' 20 W 50 W 50 W 50 W ss of the manufactu	heating / Average heating / Warmer heating / Colder Cycling interval efficiency for cooling for heating Degradation coefficient heating Annual electricity consumption cooling heating / Average heating / Warmer heating / Colder Other items Sound power level(indoor) Sound power level(outdoor) Global warming potential Rated air flow(indoor) Rated air flow(outdoor)	Tol Tol Tol Tol EERcyc COPcyc Cdh Qce Qhe Qhe Qhe Qhe Che Company Co		CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
ivalent temperature eating / Average eating / Warmer eating / Colder cycling interval capacity or cooling or heating legradation coefficient cooling lectric power input in power mod ff mode tandby mode lermostat-off mode rankcase heater mode capacity control(indicate one of the fixed staged variable contact details for obtaining more information	Tbiv Tbiv Tbiv Pcycc Pcych Cdc des other than 'act Poff Psb Pto(cooling) Pto(heating) Pck nree options) No No Yes Name and addres Mitsubishi Heavy	- °C - °C - kW - kW - kW 0.25 - tive mode' 20 W 50 W 50 W 50 W 50 W 40 W 51 W 52 W 53 W 54 W 55 W	heating / Average heating / Warmer heating / Colder Cycling interval efficiency for cooling for heating Degradation coefficient heating Annual electricity consumption cooling heating / Average heating / Warmer heating / Colder Other items Sound power level(indoor) Sound power level(outdoor) Global warming potential Rated air flow(indoor) Rated air flow(outdoor)	Tol Tol Tol Tol EERcyc COPcyc Cdh Qce Qhe Qhe Qhe Qhe		CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC

Model SRK100VSXWPZSX

Model SRK100VSXWPZS	<u>-</u>		
Information to identify the model(s) to			
Indoor unit model name Outdoor unit model name	SRK50ZSX-W(x2 units)	information relates to. Indicated value	
Outdoor unit model name	FDC100VSX-W	heating season at a time. Include at	least the heating season Average
-unction(indicate if present)		Average(mandatory)	Yes
cooling	Yes	Warmer(if designated)	No
neating	Yes	Colder(if designated)	No
	1	oraci (iii accignates)	1 112
tem	symbol value unit	Item	symbol value class
Design load		Seasonal efficiency and energy effic	
ooling	Pdesignc 10.0 kW	cooling	SEER 7.66 A++
eating / Average	Pdesignh 11.2 kW	heating / Average	SCOP/A 4.25 A+
eating / Warmer	Pdesignh - kW	heating / Warmer	SCOP/W
eating / Colder	Pdesignh - kW	heating / Colder	SCOP/C
			unit
Declared capacity at outdoor tempera		Back up heating capacity at outdoor	
leating / Average (-10°C)		heating / Average (-10°C)	elbu 0 kW
leating / Warmer (2°C)	Pdh - kW Pdh - kW	heating / Warmer (2°C)	elbu - kW elbu - kW
eating / Colder (-22°C)	Pdh - kW	heating / Colder (-22°C)	elbu - kW
Declared capacity for cooling, at indo	oor temperature 27(19)°C and	Declared energy efficiency ratio, at i	ndoor temperature 27(19)°C and
outdoor temperature Tj	or temperature 27 (10) 5 and	outdoor temperature Tj	nacor temperature 27 (10) o ano
i=35°C	Pdc 10.00 kW	Tj=35°C	EERd 4.05 -
;;=30°C	Pdc 7.30 kW	Ti=30°C	EERd 6.20 -
i=25°C	Pdc 4.70 kW	Tj=25°C	EERd 10.70 -
j=20°C	Pdc 3.66 kW	Tj=20°C	EERd 17.00 -
<u>-</u>			
Declared capacity for heating / Avera		Declared coefficient of performance	
emperature 20°C and outdoor temper		temperature 20°C and outdoor temp	
_j=-7°C	Pdh 9.91 kW	Tj=-7°C	COPd 2.88 -
-j=2°C	Pdh 6.03 kW	Tj=2°C	COPd 3.86 -
j=7°C	Pdh 3.88 kW	Tj=7°C	COPd 6.12 -
ÿ=12℃	Pdh 2.81 kW	Tj=12°C	COPd 7.42 -
j=bivalent temperature	Pdh 11.20 kW	Tj=bivalent temperature	COPd 2.20 -
j=operating limit	Pdh 8.60 kW	Tj=operating limit	COPd 2.00 -
Declared capacity for heating / Warm		Declared coefficient of performance	
emperature 20°C and outdoor temper		temperature 20°C and outdoor temp	
	Pdh - kW	Tj=2°C	COPd
j=7°C	Pdh - kW	Tj=7°C	COPd
j=12°C	Pdh - kW	Tj=12°C	COPd
j=bivalent temperature	Pdh - kW	Tj=bivalent temperature	COPd
j=operating limit	Pdh - kW	Tj=operating limit	COPd
Declared capacity for heating / Colde	ar soason, at indoor	Declared coefficient of performance	/ Colder season, at indeer
emperature 20°C and outdoor temper		temperature 20°C and outdoor temp	
Fj=-7°C	Pdh - kW	Tj=-7°C	COPd
Γj=2°C	Pdh - kW	Tj=2°C	COPd
Γj=7°C	Pdh - kW	Tj=7°C	COPd
Γj=12°C	Pdh - kW	Tj=12°C	COPd
ij=12 0 ij=bivalent temperature	Pdh - kW	Tj=bivalent temperature	COPd -
ij=operating limit	Pdh - kW	Tj=operating limit	COPd -
i=-15°C	Pdh - kW	Ti=-15°C	COPd -
<u>j</u> - 10 0	1 dii - 104	1]-100	-
Sivalent temperature		Operating limit temperature	
neating / Average	Tbiv -10 °C	heating / Average	Tol -20 °C
eating / Warmer	Tbiv - °C	heating / Warmer	Tol - °C
eating / Colder	Tbiv - °C	heating / Colder	Tol - °C
Cycling interval capacity	Dovos Law	Cycling interval efficiency	EEDovo -
or cooling	Pcycc - kW	for cooling	EERcyc
or heating	Pcych - kW	for heating	COPcyc
Degradation coefficient		Degradation coefficient	
ooling	Cdc 0.25 -	heating	Cdh 0.25 -
			
Electric power input in power modes		Annual electricity consumption	000 457 1348 /
off mode	Poff 20 W	cooling	Qce 457 kWh/a
tandby mode	Psb 20 W	heating / Average	Qhe 3691 kWh/a
nermostat-off mode	Pto(cooling) 50 W	heating / Warmer	Qhe - kWh/a
rankcase heater mode	Pto(heating) 70 W	heating / colder	Qhe - kWh/a
TATINGASE HEALEI HIUUE	1 C/V 3 VV		
Capacity control(indicate one of three	e options)	Other items	
		Sound power level(indoor)	Lwa 59 dB(A)
		Sound power level(outdoor)	Lwa 67 dB(A)
fixed	No	Global warming potential	GWP 675 kgCO ₂
staged	No	Rated air flow(indoor)	- 858 m ³ /h
variable	Yes	Rated air flow(indoor)	- 6000 m ³ /h
variable	169	Tated all How(outdoor)	. 6000 1117/11
		rer or of its authorised representative.	
more information Mit	subishi Heavy Industries Air-Cond	ditioning Europe, Ltd.	
5 T	he Square, Stockley Park, Uxbrid	lge, Middlesex,UB11 1ET, United kingo	lom
		_	
		· · · · · · · · · · · · · · · · · · ·	

Model SRK125VNXWPZSX

Model(s): FDC125VNX-	-W / SRK60ZSX-W	(x2 units)					
Outdoor side heat exchanger of air of	conditioner :	air					
Indoor side heat exchanger of air co	nditioner :	air					
Type: vapour compression							
if applicable : electric motor							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity				Seasonal space	cooling energy		
	Prated,c	12.5	kW	efficiency ηs,c		354.7	%
Declared cooling capacity for part lo	ad at given outdoor	temperatu	res	Declared energy	efficiency ratio or gas utilization	efficiency /	
Tj and indoor 27°C/19°C(dry/wet bull	b)			auxiliary energy	factor for part load at given outdo	oor temperatures	Tj
_			,				т
Tj=+35°C	Pdc	12.5	kW	Tj=+35°C	EERd or	370.0	%
	5.		1		GUEc,bin / AEFc,bin		
Tj=+30°C	Pdc	9.2	kW	Tj=+30°C	EERd or	600.0	%
T' .05°0	Dit		ا ا		GUEc,bin / AEFc,bin		
Tj=+25°C	Pdc	5.9	kW	Tj=+25°C	EERd or	1040.0	%
T:- : 20°0	Ddo	2.7	7,,,,,		GUEc,bin / AEFc,bin		
Tj=+20°C	Pdc	3.7	kW	Tj=+20°C	EERd or	2430.0	%
			, l		GUEc,bin / AEFc,bin		1
Degradation		0.25					
coefficient for	Cdc	0.20	-				
air conditioners**]				
Dower consumpitor in other than los	ativa mada!						
Power consumpiton in other than 'ac	ctive mode						
Off mode	P _{OFF}	0.015	kW	Crankcase heat	er mode P _{CK}	0.005	kW
Thermostat-off mode	P _{TO}	0.000	kW	Standby mode	P _{SB}	0.015	kW
	10		1	,	GB		1
Other items							
				For air-to-air air	conditioner:]
Capacity control		variable		air flow-rate,out		6000	m³/h
			<u> </u>				1
Sound power level,]				
outdoor	L_{WA}	68.0	dB				
		l.]				
If engine driven:			mg/kWh				
Emissions of nitrogen	NOx ***	-	fuel input				
oxides			GCV				
			-				
			_				
GWP of the		675	kg CO₂eq.				
refrigerant		0/3	(100years)				
Contact details Mi	tsubishi heavy indu	stries thern	nal systems,L	.TD			
** If Cdc is not determined by measu	urement then the de	fault degra	dation coeffic	cient air conditione	ers shall be 0,25.		
*** from 26 September 2018							
Where information relates to multi-s	pilt air conditioners,	the test res	sult and perfo	rmance data be o	btained on the basis of the perfor	mance	
of the outdoor unit, with a combination	on of indoor unit(s)	recommen	ded by the m	anufacturer or imp	porter.		

Information to identify the model(s) to which the	e information	relates :		FDC125VN	IX-W / SRK60ZSX-W (x2 units)		
Outdoor side heat exchanger of heat pump :		air						
Indoor side heat exchanger of heat pump :		air						
Indication if the heater is equipped with a supp	lementary he			1	No			
if applicable : electric motor								
Parameters shall be declared for the average h	neating seaso	n , paramete	ers for the w	varmer and o	colder heating seasons	are optional.		
			Unit			Symbol	Value	Unit
Item	Symbol	value	Offic		Item		value	Offic
Rated heating capacity	Prated,h	14.0	kW		Seasonal space neath	ng energy efficiency ηs,h	184.0	%
								, -
Deployed beating association and lead at inde		- 20°0	l	1	Dealered seefficient of			l
Declared heating capacity for part load at indo	or temperatur	e 20 C				performance or gas utilization efficien		
and outdoor temperature Tj					auxiliary energy factor	for part load at given outdoor tempera	atures 13	
T _j =-7°C	Pdh	10.1	kW		T _i =-7°C	COPd or		1
1,, 0	i dii		IKVV		1,7 0		300.0	%
T _j =+2°C	Pdh	6.1	kW		T _i =+2°C	GUEh,bin / AEFh,bin COPd or		
1 _j -+2 C	Pull	0.1]ĸvv		1 _j -+2 C		430.0	%
T-17°C	Ddb	4.0	kW		T = 17°C	GUEh,bin / AEFh,bin		
T _j =+7°C	Pdh	4.0]ĸvv		T _j =+7°C	COPd or	670.0	%
T = 142°C	Dale	2.8	l,		T = 140°0	GUEh,bin / AEFh,bin		
T _j =+12°C	Pdh	2.0	kW		T _j =+12°C	COPd or	860.0	%
T =bivolent tom====t::=	Ddh	11 /	LAM		T =biv=l==t	GUEh,bin / AEFh,bin		
T _{biv} =bivalent temperature	Pdh	11.4	kW		T _{biv} =bivalent temperature	COPd or	230.0	%
To a section to the	D.II	40.0	1			GUEh,bin / AEFh,bin		
T _{OL} =operation limit	Pdh	10.0	kW		T _{OL} =operation limit	COPd or	210.0	%
			1			GUEh,bin / AEFh,bin		
For air-to-water heat pumps :	Pdh	-	kW		For air-to-water heat	COPd or	-	%
T _j =-15°C					pumps:T _j =-15°C	GUEh,bin / AEFh,bin		l
(if T _{OL} <-20°C)					(if T _{OL} <-20°C)			
	_	40.0	l _{o-}		Etttt-			1
Bivalent temperature	T _{biv}	-10.0	°C		For water-to-air heat			°0
			1		pumps:Operation limit		_	℃
Degradation					T _{ol} temperature			
coefficient	C_{dh}	0.25	-					
heat pumps**								
				1				
								1
Power consumpiton in modes other than 'active	e mode'				Supplementary heater	elbu	-	kW
			1		back-up heating capac	city		
Off mode	P _{OFF}	0.015	kW					,
Thermostat-off mode	P _{TO}	0.020	kW		Type of energy input	P _{SB}	0.015	kW
Crankcase heater mode	P _{CK}	0.005	kW		Standby mode			
				_				
Other items								1
			1		For air-to-air heat pum	ips:	6000	m³/h
Capacity control		variable			air flow-rate,outdoor m	neasured		
			1					1
Sound power level,	L_{WA}	70.0	dB		For water-/brine-to-air	heat pumps :		
outdoor measured					Rated brine or water fi	ow-rate,	-	m³/h
			1		outdoor side heat exch	nanger		
Emissions of nitrogen	NOx		mg/kWh					
oxides(if applicable)	***	-	fuel input					
			GCV					
			1					
GWP of the		675	kg CO ₂ eq.					
refrigerant			(100years)					
	heavy indust							
** If Cdh is not determined by measurement the	en the default	degradation	n coefficient	air condition	ners shall be 0,25.			
*** from 26 September 2018								
Where information relates to multi-spilt air con-	ditioners,the t	est result an	nd performa	nce data be	obtained on the basis o	f the performance		
of the outdoor unit, with a combination of indoo	r unit(s) reco	mmended by	y the manufa	acturer or im	porter.			

Model SRK125VSXWPZSX

Model(s): FDC125VS	X-W / SRK60ZSX-W	(x2 units)					
Outdoor side heat exchanger of ai	r conditioner :	air					
Indoor side heat exchanger of air	conditioner :	air					
Type: vapour compression							
if applicable : electric mot	or						
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	Prated,c	12.5	kW	Seasonal space efficiency ηs,c	cooling energy	354.7	%
Declared cooling capacity for part Tj and indoor 27°C/19°C(dry/wet bi	-	temperatu	res		y efficiency ratio or gas utilization factor for part load at given outdo	-	Тј
Tj=+35°C	Pdc	12.5	kW	Tj=+35°C	EERd or GUEc,bin / AEFc,bin	370.0	%
Tj=+30°C	Pdc	9.2	kW	Tj=+30°C	EERd or GUEc,bin / AEFc,bin	600.0	%
Tj=+25°C	Pdc	5.9	kW	Tj=+25°C	EERd or GUEc,bin / AEFc,bin	1040.0	%
Tj=+20°C	Pdc	3.7	kW	Tj=+20°C	EERd or GUEc,bin / AEFc,bin	2430.0	%
Degradation							-
coefficient for	Cdc	0.25	-				
air conditioners**]				
Power consumpiton in other than ' Off mode Thermostat-off mode	active mode' P _{OFF} P _{TO}	0.015 0.000	kW kW	Crankcase heat Standby mode	er mode P _{CK} P _{SB}	0.005 0.015	kW kW
Other items							
Capacity control		variable]	For air-to-air air air flow-rate,out		6000	m³/h
Sound power level,	L_{WA}	68.0	dB				
outdoor	L WA	00.0					
If engine driven: Emissions of nitrogen oxides	NOx ***	-	mg/kWh fuel input GCV				
GWP of the		675	kg CO ₂ eq.				
refrigerant			(100years)				
0	LANGE DESCRIPTION OF THE PROPERTY OF THE PROPE	.12					
** If Cdc is not determined by mea	Mitsubishi heavy indus				ers shall be 0.25		
-	Saromont men me de	iauit ucyid	Ganon Cocili	Sont an Contamont	515 Offall 50 0,20.		
*** from 26 September 2018 Where information relates to multi-	enilt air conditioners	the test rea	sult and norfo	rmance data ha a	htained on the basis of the porfer	mance	
Where information relates to multi-	•		•		•	mance	
of the outdoor unit, with a combina	ation of muoor unit(S)	i econninen	ueu by tile M	anuraciurei OI iMp	one.		

Information to identify the model(s) to which the information relates : FDC125VSX-W / SRK60ZSX-W (x2 units)								
Outdoor side heat exchanger of heat pump :		air						
Indoor side heat exchanger of heat pump :		air						
Indication if the heater is equipped with a supp	lementary he			1	No			
if applicable : electric motor								
Parameters shall be declared for the average I	neating seaso	n , paramete	ers for the w	varmer and o	colder heating seasons	are optional.		
			Unit			Symbol	Value	Unit
Item	Symbol	value	Offic		Item		value	Offic
Rated heating capacity	Prated,h	14.0	kW		Seasonal space neath	ng energy efficiency ηs,h	171.4	%
	,							
Deployed besting sourcity for any load at inde		- 20°0	l	1	Dealered seefficient of	f nonformance on one skillingtion official	/	
Declared heating capacity for part load at indo	or temperatur	e 20 C				f performance or gas utilization efficie		
and outdoor temperature Tj					auxiliary energy factor	for part load at given outdoor tempera	atures 1j	
T _j =-7°C	Pdh	12.1	kW		T _i =-7°C	COPd or		
1,7 6	Full	12	Iv.		1,=-7 C		291.0	%
T _j =+2°C	Pdh	7.4	kW		T _i =+2°C	GUEh,bin / AEFh,bin COPd or		
1,-+2 0	Full	7.4	Iv.		1,-+2 0		411.0	%
T-17°C	Ddb	4.7	kW		T = 17°C	GUEh,bin / AEFh,bin		
T_j =+7°C	Pdh	4.7	I _K vv		T _j =+7°C	COPd or	630.0	%
T . 10%	D.II.	20	1		T .40%	GUEh,bin / AEFh,bin		
T _j =+12°C	Pdh	2.8	kW		T _j =+12°C	COPd or	880.0	%
T biodestance	D.II.	44.0	1		T. Maria	GUEh,bin / AEFh,bin		
T _{biv} =bivalent temperature	Pdh	14.0	kW		T _{biv} =bivalent	COPd or	210.0	%
	5	40.5	l		temperature	GUEh,bin / AEFh,bin		
T _{OL} =operation limit	Pdh	10.9	kW		T _{OL} =operation limit	COPd or	190.0	%
			1			GUEh,bin / AEFh,bin		
For air-to-water heat pumps :	Pdh	-	kW		For air-to-water heat	COPd or	-	%
T _j =-15°C					pumps:T _j =-15°C	GUEh,bin / AEFh,bin		
(if T _{OL} <-20°C)					(if T _{OL} <-20°C)			
			1					
Bivalent temperature	T _{biv}	-10.0	°C		For water-to-air heat			
			1		pumps:Operation limit		-	°C
Degradation					T _{ol} temperature			
coefficient	C_{dh}	0.25	-					
heat pumps**								
Power consumpiton in modes other than 'active	e mode'				Supplementary heater	elbu	_	kW
					back-up heating capac			
Off mode	P_{OFF}	0.015	kW					
Thermostat-off mode	P_{TO}	0.020	kW		Type of energy input	P_{SB}	0.015	kW
Crankcase heater mode	P _{CK}	0.005	kW		Standby mode	r SB	0.013	KVV
			-					
Other items								
					For air-to-air heat pum	nps:	6000	m³/h
Capacity control		variable			air flow-rate,outdoor m		6000	111-711
Sound power level,		70.0	<u> ۱</u> ۵		For water-/brine-to-air	heat pumps :		
outdoor measured	L_{WA}	70.0	dB		Rated brine or water fi		-	m³/h
					outdoor side heat exch	nanger		
Emissions of nitrogen			mg/kWh			-		
oxides(if applicable)	NOx ***	-	fuel input					
			GCV					
			•					
				1				
GWP of the		075	kg CO ₂ eq.					
refrigerant		675	(100years)					
Contact details Mitsubishi	heavy indust	ries thermal	systems.LT	D .				
** If Cdh is not determined by measurement th					ners shall be 0,25.			
*** from 26 September 2018								
Where information relates to multi-spilt air conditioners, the test result and performance data be obtained on the basis of the performance								
of the outdoor unit, with a combination of indoor						. a.s ponormanos		
5. 2.5 Suldoor drift, with a combination of moot	(3) 15001	onaca Dj	, and manule	asiarer or ill	portor.			

Model SRK140VNXWTZSX

Model(s): FDC140VNX-W	/ / SRK50ZSX-W	(x3 units)					
Outdoor side heat exchanger of air conditioner : air							
Indoor side heat exchanger of air cond	ditioner:	air					
Type: vapour compression							
if applicable : electric motor							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity				Seasonal space	cooling energy		
	Prated,c	14.0	kW	efficiency ηs,c		372.9	%
Declared cooling capacity for part load	d at given outdoor	temperatu	res	Declared energy	efficiency ratio or gas utilization of	efficiency /	
Tj and indoor 27°C/19°C(dry/wet bulb)				auxiliary energy	factor for part load at given outdo	or temperatures	Tj
			1				ī
Tj=+35°C	Pdc	14.0	kW	Tj=+35°C	EERd or	390.0	%
T:- + 20°0	Pdc	40.2	16147		GUEc,bin / AEFc,bin]
Tj=+30°C	Puc	10.3	kW	Tj=+30°C	EERd or	600.0	%
Tj=+25°C	Pdc	6.6	kW		GUEc,bin / AEFc,bin		
1]-123 0	i de	0.0],,,	Tj=+25°C	EERd or	1100.0	%
Tj=+20°C	Pdc	3.8	kW	T:- : 20°0	GUEc,bin / AEFc,bin		
1]200	1 40	0.0]	Tj=+20°C	EERd or	2700.0	%
Degradation			1		GUEc,bin / AEFc,bin		1
coefficient for	Cdc	0.25	_				
air conditioners**	Ode						
all conditioners	ı		1				
Power consumpiton in other than 'acti	ve mode'						
Off mode	P_{OFF}	0.015	kW	Crankcase heate	er mode P _{CK}	0.005	kW
Thermostat-off mode	P _{TO}	0.000	kW	Standby mode	P_{SB}	0.015	kW
			-			•	•
Other items							-
			_	For air-to-air air	conditioner:	6000	m³/h
Capacity control		variable]	air flow-rate,outd	loor measured		,
	ı		,				
Sound power level,	L_WA	69.0	dB				
outdoor	WA]				
		1	,				
If engine driven:	NOx		mg/kWh				
Emissions of nitrogen	***	-	fuel input				
oxides			GCV				
			1				
GWP of the		675	kg CO₂eq. (100years)				
refrigerant			(100ycais)				
Contact dataile	.hishi ba - 1-1	-t-i U		TD			
Contact details Mits ** If Cdc is not determined by measure	ubishi heavy indus		-		rs shall he 0.25		
_	anoni ulen ule de	aun ucyid	Ganon COCIII	Sont an conditione	orderial DC 0,20.		
*** from 26 September 2018	t air agaditi	the test so	udt ond	rmanaa data ba at	stained on the basis of the action	manaa	
Where information relates to multi-spilt air conditioners,the test result and performance data be obtained on the basis of the performance of the outdoor unit (s) recommended by the manufacturer or importer.							
ioi the outdoor unit, with a combination	i oi iiiuoof unit(s) i	ecommen	ueu by the m	anulacturer or Imp	urter.		

Information to identify the model(s) to which the information relates : FDC140VNX-W / SRK50ZSX-W (x3 units)								
Outdoor side heat exchanger of heat pump :		air						
Indoor side heat exchanger of heat pump :		air						
Indication if the heater is equipped with a supp	ementary hea			١	No			
if applicable : electric motor								
Parameters shall be declared for the average h	eating seaso	n , paramete	ers for the w	armer and c	colder heating seasons	are optional.		
Item	Symbol	Value	Unit		Item	Symbol	Value	Unit
Rated heating capacity	Oymboi	value	OTIL				Value	Offic
Rated fleating capacity	Prated,h	16.0	kW		Seasonal space neath	ng energy efficiency ηs,h	194.4	%
	,							
Designed basting sourcesty for northead at inde		- 20°0		1	Dealered seefficient of	f norformed as an activities that afficien		l
Declared heating capacity for part load at indoo	or temperature	e 20 C				f performance or gas utilization efficie		
and outdoor temperature Tj					auxiliary energy factor	for part load at given outdoor temper	ratures 1j	
T - 7°0	Pdh	11.5	1,,,,		T - 7°0	0004		1
T _j =-7°C	ruii	11.0	kW		T _j =-7°C	COPd or	310.0	%
T . 202	- I	7.0	1		T	GUEh,bin / AEFh,bin	-	
T _j =+2°C	Pdh	7.0	kW		T _j =+2°C	COPd or	450.0	%
	Ī		1			GUEh,bin / AEFh,bin		
T _j =+7°C	Pdh	4.5	kW		T _j =+7°C	COPd or	730.0	%
	ŗ		1			GUEh,bin / AEFh,bin		
T _j =+12°C	Pdh	2.8	kW		T _j =+12°C	COPd or	920.0	%
						GUEh,bin / AEFh,bin		
T _{biv} =bivalent temperature	Pdh	13.0	kW		T _{biv} =bivalent	COPd or	230.0	%
	-		-		temperature	GUEh,bin / AEFh,bin	250.0	70
T _{OL} =operation limit	Pdh	10.3	kW		T _{OL} =operation limit	COPd or	200.0	0,
	•		•			GUEh,bin / AEFh,bin	220.0	%
For air-to-water heat pumps :	Pdh	-	kW		For air-to-water heat	COPd or		1
T _j =-15°C	ı un		11///		pumps:T _i =-15°C	GUEh,bin / AEFh,bin	-	%
(if T _{OL} <-20°C)					(if T _{OL} <-20°C)			1
(11 TOL \ 20 0)					(11 10) (20 0)			
Bivalent temperature	T _{biv}	-10.0	°C		For water-to-air heat			1
Divalent temperature	biv	-10.0	l c				_	°C
De ave deties	Γ		1		pumps:Operation limit			
Degradation		0.25			T _{ol} temperature			
coefficient	C_{dh}	0.25	-					
heat pumps**	<u> </u>							
				1				
								1
Power consumpiton in modes other than 'active	e mode'				Supplementary heater	elbu	_	kW
					back-up heating capac			
Off mode	P _{OFF}	0.015	kW					-
Thermostat-off mode	P _{TO}	0.020	kW		Type of energy input	P_{SB}	0.015	kW
Crankcase heater mode	P _{CK}	0.005	kW		Standby mode	' SB	0.013	KVV
	-		-					_
Other items								
					For air-to-air heat pum	nps:	0000	3 /la
Capacity control		variable			air flow-rate,outdoor m		6000	m³/h
Capacity control	L		ı		an now rate, outdoor n	icadarea		1
Sound power level,	[1		For water /brine to air	hoat numne :		1
·	L_{WA}	71.0	dB		For water-/brine-to-air		_	m³/h
outdoor measured	<u>l</u>		l		Rated brine or water fi			
	ſ		1		outdoor side heat exch	langer		J
Emissions of nitrogen	NOx	_	mg/kWh					
oxides(if applicable)	***	-	fuel input					
	Ĺ		GCV					
				-				
	ſ		1					
GWP of the		675	kg CO ₂ eq.					
refrigerant	Į.		(100years)					
Contact details Mitsubishi	heavy industr	ies thermal	systems,LT	D				
** If Cdh is not determined by measurement the	en the default	degradation	n coefficient	air condition	ners shall be 0,25.			
*** from 26 September 2018								
Where information relates to multi-spilt air cond	Where information relates to multi-spilt air conditioners, the test result and performance data be obtained on the basis of the performance							
of the outdoor unit, with a combination of indoo								

Model SRK140VSXWTZSX

Model(s): FDC140VSX-W / S							
Outdoor side heat exchanger of air conditioner: And the standard of the standard of the soudificant is a standard of the st							
Indoor side heat exchanger of air condition	oner:	air					
Type: vapour compression							
if applicable : electric motor							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity				Seasonal space	cooling energy		
	Prated,c	14.0	kW	efficiency ηs,c		372.9	%
Declared cooling capacity for part load at	given outdoor	temperatu	ires	Declared energy	efficiency ratio or gas utilization e	efficiency /	
Tj and indoor 27°C/19°C(dry/wet bulb)				auxiliary energy f	factor for part load at given outdo	or temperatures	Tj
	,		_				-
Tj=+35℃	Pdc	14.0	kW	Tj=+35°C	EERd or	390.0	%
			_		GUEc,bin / AEFc,bin		
Tj=+30°C	Pdc	10.3	kW	Tj=+30°C	EERd or	600.0	%
			_		GUEc,bin / AEFc,bin	800.0	70
Tj=+25°C	Pdc	6.6	kW	Tj=+25°C	EERd or	4400.0	0/
			-	'	GUEc,bin / AEFc,bin	1100.0	%
Tj=+20°C	Pdc	3.8	kW	Tj=+20°C	EERd or		1
			_	1,7 120 0	GUEc,bin / AEFc,bin	2700.0	%
Degradation			1		GOEC, DITT AEFC, DIT		1
Degradation	Cdo	0.25					
coefficient for	Cdc	0.20	-				
air conditioners**			_				
Power consumpiton in other than 'active Off mode	mode' P _{OFF}	0.015] _{kW}	Crankcase heate	er mode P _{CK}	0.005	Īĸw
Thermostat-off mode	P _{TO}	0.000	kW	Standby mode	P _{SB}	0.015	kW
memostat-on mode	' 10	0.000	7,44	otaliday mode	, SB	0.013	IKAA
Others							
Other items							ī
Conscituentral		verieble	7	For air-to-air air o		6000	m³/h
Capacity control		variable		air flow-rate,outd	oor measured		1
			ا ا				
Sound power level,	L_{WA}	69.0	dB				
outdoor]				
	1		ا ا				
If engine driven:	NOx		mg/kWh				
Emissions of nitrogen	***	-	fuel input				
oxides			GCV				
			_				
GWP of the		675	kg CO₂eq.				
refrigerant		675	(100years)				
			_				
Contact details Mitsubi	shi heavy indu	stries therr	nal systems.l	.TD			
** If Cdc is not determined by measurement					rs shall be 0,25.		
*** from 26 September 2018		_					
·	ir conditioners	the test ro	cult and perfo	rmance data he ch	stained on the basis of the porform	mance	
Where information relates to multi-spilt air conditioners,the test result and performance data be obtained on the basis of the performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.							
To the outdoor unit, with a combination of	muoor unii(S) I	ecommen	ueu by trie M	anuraciurer or impo	UITCI.		

Information to identify the model(s) to which the information relates : FDC140VSX-W / SRK50ZSX-W (x3 units)								
Outdoor side heat exchanger of heat pump :		air						
Indoor side heat exchanger of heat pump :		air						
Indication if the heater is equipped with a supp	ementary hea			١	No			
if applicable : electric motor								
Parameters shall be declared for the average h	eating seaso	n , paramete	ers for the w	armer and c	older heating seasons	are optional.		
Item	Symbol		Unit		Item	Symbol	Value	Unit
Rated heating capacity	Oymboi	value	OTINE				Value	OTIN
Rated fleating capacity	Prated,h	16.0	kW		Seasonal space neath	ng energy efficiency ηs,h	183.1	%
	,							
Designed basting sourcesty for northead at inde		- 20°0		1	Dealess desettisient of	f nanfarrance as and skillenking afficie		
Declared heating capacity for part load at indoo	or temperature	e 20 C				f performance or gas utilization efficie	•	
and outdoor temperature Tj					auxiliary energy factor	for part load at given outdoor tempe	ratures 1 _j	
T - 7°0	Pdh	13.7	LAM		T - 7°0	0004		1
T _j =-7°C	ruii	13.7	kW		T _j =-7°C	COPd or	280.0	%
T . 202	- I	0.4	l		T	GUEh,bin / AEFh,bin		
T _j =+2°C	Pdh	8.4	kW		T _j =+2°C	COPd or	430.0	%
	Ī		ı			GUEh,bin / AEFh,bin		
T _j =+7°C	Pdh	5.4	kW		T _j =+7°C	COPd or	670.0	%
	ŗ		ī			GUEh,bin / AEFh,bin		
T _j =+12°C	Pdh	2.8	kW		T _j =+12°C	COPd or	920.0	%
	-		1			GUEh,bin / AEFh,bin		
T _{biv} =bivalent temperature	Pdh	15.5	kW		T _{biv} =bivalent	COPd or	230.0	%
					temperature	GUEh,bin / AEFh,bin	200.0	70
T _{OL} =operation limit	Pdh	11.9	kW		T _{OL} =operation limit	COPd or	240.0	0/
						GUEh,bin / AEFh,bin	210.0	%
For air-to-water heat pumps :	Pdh	-	kW		For air-to-water heat	COPd or		<u>.</u>
T _j =-15°C	ı un		1.000		pumps:T _i =-15°C	GUEh,bin / AEFh,bin	-	%
(if T _{OL} <-20°C)					(if T _{OL} <-20°C)			l
(11 TOL < 20 0)					(11 101 < 20 0)			
Bivalent temperature	T _{biv}	-10.0	°C		For water-to-air heat			1
Divalent temperature	biv	-10.0	C		pumps:Operation limit		_	°C
Demodelies	Ī		I					
Degradation		0.25			T _{ol} temperature			ļ
coefficient	C_{dh}	0.25	-					
heat pumps**	<u> </u>							
				1				
								1
Power consumpiton in modes other than 'active	e mode'				Supplementary heater	elbu	_	kW
					back-up heating capac			
Off mode	P _{OFF}	0.015	kW					
Thermostat-off mode	P _{TO}	0.020	kW		Type of energy input	P_{SB}	0.015	kW
Crankcase heater mode	P _{CK}	0.005	kW		Standby mode	· SB	0.013	KVV
	-				-			-
Other items								
					For air-to-air heat pum	nps:	0000	3/la
Capacity control		variable			air flow-rate,outdoor m		6000	m³/h
Capacity control	L		ı		all now rate,outdoor ii	leadarea		ı
Sound power level,	[For water /brine to air	hoat numpe :		1
·	L_{WA}	71.0	dB		For water-/brine-to-air		_	m³/h
outdoor measured	L		l		Rated brine or water fi			
	ſ				outdoor side heat exch	nanger		l
Emissions of nitrogen	NOx	_	mg/kWh					
oxides(if applicable)	***	-	fuel input					
	Ĺ		GCV					
				-				
	ī	1	ı					
GWP of the		675	kg CO ₂ eq.					
refrigerant			(100years)					
Contact details Mitsubishi	heavy industr	ies thermal	systems,LT	D				
** If Cdh is not determined by measurement the	en the default	degradation	n coefficient	air condition	ners shall be 0,25.			
*** from 26 September 2018								
Where information relates to multi-spilt air cond	Where information relates to multi-spilt air conditioners, the test result and performance data be obtained on the basis of the performance							
of the outdoor unit, with a combination of indoo								

Models SRK50ZSX-W, 60ZSX-W, 100ZR-W

Model(s): SRK50ZSX-W							
Item	Symbol	Vaiue	Unit	Item	Symbol	Vaiue	Unit
Cooling capacity (sensible)	$P_{rated,c}$	4.0	kW	Total electric power input	P_{elec}	0.030	kW
Cooling capacity (latent)	P _{rated,c}	1.0	kW	Sound power level (per speed setting,if applicable)	L_{WA}	59.0	dB
Heating capacity	$P_{rated,h}$	6.0	kW				
Contact details	Mitsubishi h	Mitsubishi heavy industries thermal systems,LTD					

Model(s): SRK60ZSX-W							
Item	Symbol	Vaiue	Unit	Item	Symbol	Vaiue	Unit
Cooling capacity (sensible)	$P_{rated,c}$	4.7	kW	Total electric power input	P_{elec}	0.040	kW
Cooling capacity (latent)	P _{rated,c}	1.4	kW	Sound power level (per speed setting,if applicable)	L_{WA}	62.0	dB
Heating capacity	$P_{\text{rated},h}$	6.8	kW				
Contact details	Mitsubishi h	Mitsubishi heavy industries thermal systems,LTD					

Model(s): SRK100ZR-W							
ltem	Symbol	Vaiue	Unit	Item	Symbol	Vaiue	Unit
Cooling capacity (sensible)	$P_{rated,c}$	7.4	kW	Total electric power input	P_{elec}	0.060	kW
Cooling capacity (latent)	$P_{\text{rated,c}}$	2.6	kW	Sound power level (per speed setting,if applicable)	L_WA	63.0	dB
Heating capacity	$P_{rated,h}$	11.2	kW				
Contact details	Mitsubishi h	Mitsubishi heavy industries thermal systems,LTD					

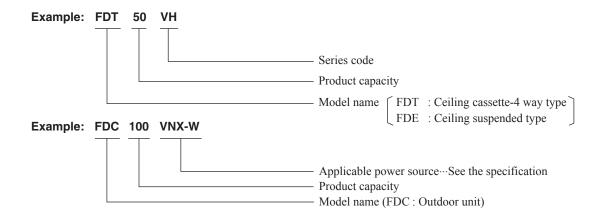
2. V MULTI SYSTEM

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2.1 GENERAL INFORMATION

2.1.1 How to read the model name



2.1.2 Table of models

Model Capacity	50	60	71
Ceiling cassette-4 way type (FDT)	0	0	0
Ceiling suspended type (FDE)	0	0	0
Outdoor unit to be combined (FDC)		FDC125VNX-W FDC125VSX-W (5 HP)	FDC140VNX-W FDC140VSX-W (6 HP)

2.1.3 Table of system combinations

Outdoor unit	Туре	Indoor unit assembly capacity	Branch pipe set (Option)		
FDC100VNX-W FDC100VSX-W	50+50				
FDC125VNX-W FDC125VSX-W	Twin	60+60 50+71	DIS-WA1G		
	Twin	71+71			
FDC140VNX-W FDC140VSX-W	Triple	50+50+50	DIS-TA1G or DIS-WA1G×2 sets		

Notes(1) Always use the branch piping set (option) at branches in the refrigerant piping.

⁽²⁾ If wireless specifications are used, use 1 wireless indoor unit in combination with wired indoor units.

⁽³⁾ The combinations except the above table forbids.

2.2 SPECIFICATIONS

(1) Indoor units

(a) Ceiling cassette-4 way type (FDT)

Item			Model	FDT50VH				
Power source	ce			1 Phase 220-240V 50Hz / 220V 60Hz				
	Nominal cooling capacit	tv	kW	5.0				
	Nominal heating capacit	<u> </u>	kW	5.4				
	<u> </u>	Cooling		55				
Operation	Sound power level	Heating		56				
data		Cooling	dB(A)	P-Hi: 41 Hi: 33 Me: 30 Lo: 26				
	Sound pressure level	Heating	uD()	P-Hi: 42 Hi: 33 Me: 28 Lo: 20				
	Silent mode sound pres			_				
	Cheffe friede dearra pred	0410 10401		Unit 236 × 840 × 840				
Exterior dim	ensions (Height x Width	x Depth)	mm	Panel 35 × 950 × 950				
Fortanian and				Plaster white				
Exterior app				(6.8Y8.9/0.2) near equivalent				
(RAL color				(RAL 9003) near equivalent				
(NAL COIOI)			· , , , , , , , , , , , , , , , , , , ,				
Net weight	ight				kg	Unit 19		
			Panel 5					
Heat exchanger			Louver fin & inner grooved tubing					
Fan type & Q'ty		147	Turbo fan ×1					
Fan motor (Starting method)		W	50 < Direct line start >					
Air flow Cooling Heating		m³/min	P-Hi: 22 Hi: 16 Me: 13 Lo: 10					
Available external static pressure		Pa	0					
Outside air intake			Possible					
Air filter, Qu	ality / Quantity			Pocket plastic net ×1(Washable)				
Shock & vib	ration absorber			Rubber sleeve(for fan motor)				
Electric hea	ter		W	-				
O	Remote control			(Option) Wired: RC-EX3A, RC-E5, RCH-E3 Wireless: RCN-T-5AW-E2				
Operation control	Room temperature cont	rol		Thermostat by electronics				
COLLLOI	Operation display			<u>-</u>				
0 ()				Internal thermostat for fan motor.				
Safety equip	oments			Frost protection thermostat				
	D () /	0.0.\		Liquid line: φ 6.35 (1/4")				
	Refrigerant piping size (O.D.)	mm	Gas line: ϕ 12.7 (1/2")				
Installation	Connecting method			Flare piping				
data	Attached length of pipin	q	m	_				
	Insulation for piping			Necessary (both Liquid & Gas lines)				
	Drain hose			Hose connectable VP25(O.D.32)				
Drain pump	, max lift height	4	mm	Built-in drain pump, 850				
IP number	,	-		IPX0				
Standard ac	ccessories			Mounting kit, Drain hose				
Option parts			Motion sensor : LB-T-5W-E					
				monori concor. ED 1 ove E				

()					
Item	Indoor air t	emperature	Outdoor air	temperature	Standards
Operation	DB	WB	DB	WB	Standards
Cooling	27°C	19°C	35°C	24°C	ISO5151-T1
Heating	20°C	_	7°C	6°C	ISO5151-H1

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.
- (3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
- (4) The operation data indicate when the air-conditioner is operated at 230V 50Hz or 220V 60Hz.

Item			Model	FDT60VH
Power source				1 Phase 220-240V 50Hz / 220V 60Hz
	Nominal cooling capacity		kW	5.6
	Nominal heating capacity	/	kW	6.7
O	Sound power level	Cooling		58
Operation data	Sourid power level	Heating		59
uaia	Sound pressure level	Cooling	dB(A)	P-Hi:44 Hi:34 Me:30 Lo:27
	Sourid pressure level	Heating		P-Hi:44 Hi:34 Me:30 Lo:23
	Silent mode sound press	ure level		-
Exterior dim	nensions (Height x Width x	Depth)	mm	Unit $236 \times 840 \times 840$ Panel $35 \times 950 \times 950$
Exterior app	pearance			Plaster white
(Munsell co				(6.8Y8.9/0.2) near equivalent
(RAL color)			(RAL 9003) near equivalent
Net weight			kg	Unit 21
INEL WEIGHT			Ny	Panel 5
Heat excha				Louver fin & inner grooved tubing
Fan type &				Turbo fan ×1
Fan motor (Starting method)		W	50 < Direct line start >
Air flow		Cooling Heating	m³/min	P-Hi: 26 Hi: 17 Me: 14 Lo: 11
Available ex	ternal static pressure	`	Pa	0
Outside air	intake			Possible
	ality / Quantity			Pocket plastic net ×1(Washable)
Shock & vib	oration absorber			Rubber sleeve(for fan motor)
Electric hea			W	-
Operation	Remote control			(Option) Wired: RC-EX3A, RC-E5, RCH-E3 Wireless: RCN-T-5AW-E2
control	Room temperature contr	ol		Thermostat by electronics
	Operation display			-
Safety equi	pments			Internal thermostat for fan motor.
oaroty oqui				Frost protection thermostat
	Refrigerant piping size (O.D.)	mm -	Liquid line: φ 6.35 (1/4")
				Gas line: ϕ 12.7 (1/2")
Installation	Connecting method			Flare piping
data	Attached length of piping]	m	
	Insulation for piping			Necessary (both Liquid & Gas lines)
Drain hose Drain pump, max lift height			Hose connectable VP25(O.D.32)	
	, max iiπ neignt		mm	Built-in drain pump, 850
IP number Standard ad				IPX0
				Mounting kit, Drain hose Motion sensor : LB-T-5W-E
Option part	8			IVIOTION SENSOr : LB-1-3W-E

Item	Indoor air te	emperature	Outdoor air	temperature	Standards
Operation	DB	WB	DB	WB	Staridards
Cooling	27°C	19℃	35°C	24°C	ISO5151-T1
Heating	20°C	_	7°C	6°C	ISO5151-H1

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.
- (3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.

 (4) The operation data indicate when the air-conditioner is operated at 230V 50Hz or 220V 60Hz.

Item			Model	FDT71VH
Power source				1 Phase 220-240V 50Hz / 220V 60Hz
	Nominal cooling capacity		kW	7.1
	Nominal heating capacity	/	kW	8.0
	0	Cooling		59
Operation	Sound power level	Heating	ĺ	60
data	0 1 1	Cooling	dB(A)	P-Hi: 46 Hi: 34 Me: 31 Lo: 26
	Sound pressure level	Heating	1 `	P-Hi: 46 Hi: 34 Me: 31 Lo: 26
	Silent mode sound press	ure level		_
Exterior dim	nensions (Height x Width)	(Depth)	mm	Unit 236 × 840 × 840 Panel 35 × 950 × 950
Exterior app	pearance			Plaster white
(Munsell co				(6.8Y8.9/0.2) near equivalent
(RAL color)			(RAL 9003) near equivalent
N1 - 4 ! l - 4			1	Unit 21
Net weight			kg	Panel 5
Heat excha	nger			Louver fin & inner grooved tubing
Fan type &	Q'ty			Turbo fan ×1
Fan motor (Starting method)		W	50 < Direct line start >
Air flow		Cooling Heating	m³/min	P-Hi:28 Hi:18 Me:15 Lo:12
Available ex	ternal static pressure		Pa	0
Outside air	intake			Possible
Air filter, Qu	ality / Quantity			Pocket plastic net ×1(Washable)
Shock & vib	oration absorber			Rubber sleeve(for fan motor)
Electric hea	iter		W	-
Operation	Remote control			(Option) Wired: RC-EX3A, RC-E5, RCH-E3 Wireless: RCN-T-5AW-E2
control	Room temperature contr	ol		Thermostat by electronics
CONTROL	Operation display			-
Safety equi	nmonto			Internal thermostat for fan motor.
Salety equi	pinents			Frost protection thermostat
	Refrigerant piping size (2.0.\		Liquid line: φ 9.52 (3/8")
	Reingerant piping size (J.D.)	mm -	Gas line: φ 15.88 (5/8")
Installation	Connecting method			Flare piping
data	Attached length of piping	9	m	-
	Insulation for piping			Necessary (both Liquid & Gas lines)
Drain hose			Hose connectable VP25(O.D.32)	
Drain pump, max lift height		mm	Built-in drain pump, 850	
IP number				IPX0
Standard ad	ccessories			Mounting kit, Drain hose
Option part	S			Motion sensor : LB-T-5W-E
	Option parts			<u> </u>

Item	Indoor air te	emperature	Outdoor air	temperature	Standards
Operation	DB	WB	DB	WB	Staridards
Cooling	27°C	19℃	35°C	24°C	ISO5151-T1
Heating	20°C	_	7°C	6°C	ISO5151-H1

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.
- (3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.

 (4) The operation data indicate when the air-conditioner is operated at 230V 50Hz or 220V 60Hz.

(b) Ceiling suspended type (FDE)

Item			Model	FDE50VH	
Power source				1 Phase 220-240V 50Hz / 220V 60Hz	
Nominal cooling capacity		kW	5.0		
	Nominal heating capacity	у	kW	5.4	
Operation data	Sound power level	Cooling Heating		60	
uata	Sound pressure level	Cooling Heating	dB(A)	P-Hi: 46 Hi: 38 Me: 36 Lo: 31	
	Silent mode sound press	sure level		_	
Exterior dim	ensions (Height x Width x	(Depth)	mm	210 × 1070 × 690	
Exterior appearance (Munsell color)				Plaster white (6.8Y8.9/0.2) near equivalent	
(RAL color))			(RAL 9003) near equivalent	
Net weight			kg	28	
Heat exchar	nger			Louver fin & inner grooved tubing	
Fan type & 0	Q'ty			Centrifugal fan ×2	
Fan motor (S	Starting method)		W	30 < Direct line start >	
Air flow Cooling Heating		Cooling Heating	m³/min	P-Hi:13 Hi:10 Me:9 Lo:7	
Available ex	ternal static pressure		Pa	0	
Outside air i	ntake			Not possible	
Air filter, Qua	ality / Quantity			Pocket plastic net ×2(Washable)	
Shock & vib	ration absorber			Rubber sleeve(for fan motor)	
Electric heat	ter		W	_	
Operation	Remote control			(Option) Wired: RC-EX3A, RC-E5, RCH-E3 Wireless: RCN-E-E3	
control	Room temperature contr	ol		Thermostat by electronics	
CONTRIO	Operation display			_	
Safety equip	oments			Overload protection for fan motor Frost protection thermostat	
	Refrigerant piping size (O.D.)	mm	Liquid line: φ 6.35 (1/4") Gas line: φ 12.7 (1/2")	
Installation	Connecting method			Flare piping	
data	Attached length of piping]	m	_	
	Insulation for piping			Necessary (both Liquid & Gas lines)	
Drain hose			Hose connectable VP20(O.D.26)		
Drain pump,	, max lift height		mm		
IP number				IPX0	
Standard accessories		 	Mounting kit, Drain hose		
Standard ac	Option parts				

Item	Indoor air t	emperature	Outdoor air	temperature	Standards
Operation	DB	WB	DB	WB	Standards
Cooling	27°C	19°C	35°C	24°C	ISO5151-T1
Heating	20°C	-	7°C	6°C	ISO5151-H1

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.
- (3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
- (4) The operation data indicate when the air-conditioner is operated at 230V 50Hz or 220V 60Hz.

Item			Model	FDE60VH
Power sour	200			1 Phase 220-240V 50Hz / 220V 60Hz
		kW	5.6	
Nominal cooling capacity Nominal heating capacity		kW	6.7	
	Nominal neating capacity		KVV	0.7
Operation data	Sound power level	Cooling Heating		60
data	Sound pressure level	Cooling Heating	dB(A)	P-Hi: 47 Hi: 41 Me: 37 Lo: 32
	Silent mode sound press	ure level		-
Exterior din	nensions (Height x Width x	Depth)	mm	210 × 1320 × 690
Exterior app	pearance			Plaster white
(Munsell co				(6.8Y8.9/0.2) near equivalent
(RAL color				(RAL 9003) near equivalent
Net weight	<u>, </u>		kg	33
Heat excha	nger			Louver fin & inner grooved tubing
Fan type &	Q'tv			Centrifugal fan ×4
Fan motor (Starting method)		W	50 < Direct line start >
Air flow	,	Cooling Heating	m³/min	P-Hi: 20 Hi: 16 Me: 13 Lo: 10
Available ex	kternal static pressure	, ,	Pa	0
Outside air	intake			Not possible
Air filter, Qu	ality / Quantity			Pocket plastic net ×2(Washable)
Shock & vib	oration absorber			Rubber sleeve(for fan motor)
Electric hea	iter		W	_
Operation	Remote control			(Option) Wired: RC-EX3A, RC-E5, RCH-E3 Wireless: RCN-E-E3
Operation control	Room temperature contr	ol		Thermostat by electronics
COLLIO	Operation display			_
Safety equi	pments			Overload protection for fan motor Frost protection thermostat
				Liquid line: φ 6.35 (1/4")
	Refrigerant piping size (J.D.)	mm -	Gas line: φ 12.7 (1/2")
Installation	Connecting method			Flare piping
data	Attached length of piping	1	m	_
	Drain hose			Hose connectable VP20(O.D.26)
Drain pump	, max lift height		mm	_ ` '
IP number				IPX0
Standard ad	ccessories			Mounting kit, Drain hose
Option part	S			Motion sensor : LB-E

Item	Indoor air t	emperature	Outdoor air	temperature	Standards
Operation	DB	WB	DB	WB	Staridards
Cooling	27°C	19°C	35°C	24°C	ISO5151-T1
Heating	20°C	_	7°C	6°C	ISO5151-H1

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.(3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat
- higher due to ambient conditions.

 (4) The operation data indicate when the air-conditioner is operated at 230V 50Hz or 220V 60Hz.

Heat exchanger Fan type & Q'ty Fan motor (Starting method) Air flow Cooling Heating Heating Heating Ava Heating Heating Available external static pressure Outside air intake Air filter, Quality / Quantity Shock & vibration absorber Coperation control Operation control Operation control Operation display Safety equipments Refrigerant piping size (O.D.) Installation data Attached length of piping Insulation for piping Drain pump, max lift height My	Item			Model	FDE71VH		
Nominal heating capacity (range) KW Sound power level Heating Gooling Heating Sound pressure level Heating Gooling Heating Silent mode sound pressure level Heating Silent mode sound pressure level Heating Silent mode sound pressure level The stripping size (o.p.) The stripping size (o.p.) The stripping size (o.p.) The stripping size (o.p.) The stripping size (o.p.) The stripping size (o.p.) The stripping size (o.p.) The stripping size (o.p.) The stripping size (o.p.) The stripping size of the st	Power sour	ce			1 Phase 220-240V 50Hz / 220V 60Hz		
Sound power level Cooling Heating Sound pressure level Cooling Heating Heati	Nominal cooling capacity (range)		kW	7.1			
Sound pressure level Heating Sound pressure level Heating Sound pressure level Heating Silent mode sound pressure level		Nominal heating capacity	(range)	kW	8.0		
Sound pressure level Cooling Silent mode sound pressure level Exterior dimensions (Height x Width x Depth) mm 210 x 1320 x 690					60		
Exterior dimensions (Height x Width x Depth) mm 210 x 1320 x 690 Exterior appearance (Munsell color) Plaster white (6.8Y8.9/0.2) near equivalent (RAL 9003)	data	<u>'</u>	Heating	dB(A)	P-Hi: 47 Hi: 41 Me: 37 Lo: 32		
Exterior appearance (Munsell color) (6.8Y8.9/0.2) near equivalent (6.8Y8.9/0.2) near equiv		Silent mode sound pressi	ure level		_		
(Munsell color) (6.8Y8.9/0.2) near equivalent (RAL polos)	Exterior din	nensions (Height x Width x	Depth)	mm	210 × 1320 × 690		
RAL color RAL good near equivalent	Exterior app	pearance			Plaster white		
Net weight					(6.8Y8.9/0.2) near equivalent		
Heat exchanger Fan type & Q'ty Fan motor (Starting method) Air flow Cooling Heating Heating Heating Heating Heating Heating Heating Heating Available external static pressure Outside air intake Air filter, Quality / Quantity Shock & vibration absorber Bemote control Operation control Agendate of the properties	(RAL color)			(RAL 9003) near equivalent		
Fan type & Q'ty Fan motor (Starting method) Air flow Cooling Heating Heating Heating Heating Available external static pressure Outside air intake Air filter, Quality / Quantity Shock & vibration absorber Electric heater Operation control Operation tontrol Operation display Safety equipments Refrigerant piping size (O.D.) Installation data Attached length of piping Drain pump, max lift height Drain pump, max lift height Pa	Net weight			kg	33		
Fan type & Q'ty Fan motor (Starting method) Air flow A	Heat excha	nger			Louver fin & inner grooved tubing		
Air flow Cooling Heating M³/min P-Hi : 20 Hi : 16 Me : 13 Lo : 10 Available external static pressure Pa 0 Outside air intake Not possible Air filter, Quality / Quantity Pocket plastic net x2(Washable) Shock & vibration absorber Rubber sleeve(for fan motor) Electric heater W Operation control Room temperature control Operation display Safety equipments Paffigerant piping size (O.D.) mm Gas line: \$\phi\$ 15.88 (5/8") Installation data Attached length of piping Mecessary (both Liquid & Gas lines) Drain pump, max lift height mm IP number Standard accessories Mounting kit, Drain hose Pa 0 O Heating M³/min P-Hi : 20 Hi : 16 Me : 13 Lo : 10 Attached length of piping Pa 0 Overload protection fer an motor Face protection for fan motor Frost protection thermostat Liquid line: \$\phi\$ 9.52 (3/8") Gas line: \$\phi\$ 15.88 (5/8") Necessary (both Liquid & Gas lines) Hose connectable VP20(O.D.26) Mounting kit, Drain hose Mounting kit, Drain hose					Centrifugal fan ×4		
Ar flow Available external static pressure Outside air intake Air filter, Quality / Quantity Shock & vibration absorber Electric heater Operation control Operation display Refrigerant piping size (O.D.) Installation data Attached length of piping Insulation for piping Drain pump, max lift height Drain pump, max lift height Insulation standard accessories Residence control Pa	Fan motor ((Starting method)		W	50 < Direct line start >		
Outside air intake Air filter, Quality / Quantity Shock & vibration absorber Electric heater Operation control Safety equipments Refrigerant piping size (O.D.) Installation data Attached length of piping Insulation for piping Drain pump, max lift height Drain pump, max lift height Telectric heater W Concetting Rubber sleeve(for fan motor) Rubber sleeve(for fan motor) Rubber sleeve(for fan motor) Rubber sleeve(for fan motor) Rubber sleeve(for fan motor) Rubber sleeve(for fan motor) (Option) Wired: RC-EX3A, RC-E5, RCH-E3 Wireless: RCN-E-E3 Overload protection: Attached length of piping size (O.D.) Mm Gas line: \$\phi\$ 9.52 (3/8") Refrigerant piping size (O.D.) Room temperature control Overload protection for fan motor Frost protection thermostat Liquid line: \$\phi\$ 9.52 (3/8") Gas line: \$\phi\$ 15.88 (5/8") Necessary (both Liquid & Gas lines) Drain pump, max lift height Mounting kit, Drain hose House connectable VP20(O.D.26) Standard accessories Mounting kit, Drain hose	Air flow			m³/min	P-Hi:20 Hi:16 Me:13 Lo:10		
Air filter, Quality / Quantity Shock & vibration absorber Electric heater Operation control Raemote control Operation display Safety equipments Refrigerant piping size (O.D.) Installation data Attached length of piping Drain pump, max lift height Drain pump, max lift height Telectric heater W Option) Wired: RC-EX3A, RC-E5, RCH-E3 Wireless: RCN-E-E3 (Option) Wired: RC-EX3A, RC-E5, RCH-E3 Wireless: RCN-E-E3 Overload Protection to fram motor Frost protection thermostat Liquid line: \$\phi\$ 9.52 (3/8") Gas line: \$\phi\$ 15.88 (5/8") Necessary (both Liquid & Gas lines) Drain pump, max lift height Mounting kit, Drain hose Mounting kit, Drain hose	Available ex	kternal static pressure		Pa	0		
Shock & vibration absorber Electric heater Operation control Operation control Remote control Operation display Safety equipments Refrigerant piping size (O.D.) Installation data Attached length of piping Insulation for piping Drain pump, max lift height Drain pump, max lift height Remote control (Option) Wired: RC-EX3A, RC-E5, RCH-E3 Wireless: RCN-E-E3 (Option) Wirel: RC-EX3A, RC-E5, RCH-E3 Wireless: RCN-E-E3 (Option) Wirel: RC-EX3A, RC-E5, RCH-E3 Wireless: RCN-E-E3 (Option) Wirel: RC-EX3A, RC-E5, RCH-E3 Wireless: RCN-E-E3 (Option) Wirel: RC-EX3A, RC-E5, RCH-E3 Wireless: RCN-E-E3 (Option) Wirel: RC-EX3A, RC-E5, RCH-E3 Wireless: RCN-E-E3 (Option) Wirel: RC-EX3A, RC-E5, RCH-E3 Wireless: RCN-E-E3 (Option) Wirel: RC-EX3A, RC-E5, RCH-E3 Wireless: RCN-E-E3 (Option) Part of the Manual And And And And And And And And And And	Outside air	intake					
Electric heater	Air filter, Qu	ality / Quantity			Pocket plastic net ×2(Washable)		
Operation control Remote control (Option) Wired: RC-EX3A, RC-E5, RCH-E3 Wireless: RCN-E-E3 Room temperature control Thermostat by electronics Operation display — Safety equipments Overload protection for fan motor Frost protection thermostat Installation data Refrigerant piping size (O.D.) mm Installation data Attached length of piping m Insulation for piping Necessary (both Liquid & Gas lines) Drain pump, max lift height mm — IP number IPX0 Standard accessories Mounting kit, Drain hose	Shock & vib	oration absorber			Rubber sleeve(for fan motor)		
Operation control Room temperature control Thermostat by electronics Operation display — Safety equipments Overload protection for fan motor Frost protection thermostat Refrigerant piping size (O.D.) mm Liquid line: φ 9.52 (3/8") Gas line: φ 15.88 (5/8") Flare piping data Attached length of piping m Insulation for piping Necessary (both Liquid & Gas lines) Drain pump, max lift height mm — IP number IPX0 Standard accessories Mounting kit, Drain hose	Electric hea	ater		W	_		
Refrigerant piping size (O.D.) mm Gas line: \$\phi\$ 15.88 (5/8")	Operation	Remote control			(Option) Wired: RC-EX3A, RC-E5, RCH-E3 Wireless: RCN-E-E3		
Operation display	1 '	Room temperature contro	ol		Thermostat by electronics		
Refrigerant piping size (O.D.) mm	CONTRO	Operation display			_		
Installation data Connecting method Flare piping	Safety equi	pments					
Installation data Connecting method		Refrigerant piping size (C).D.)	mm			
data Attached length of piping m — Insulation for piping Mecessary (both Liquid & Gas lines) Drain hose Hose connectable VP20(O.D.26) Drain pump, max lift height mm — IPX0 Standard accessories Mounting kit, Drain hose	Installation	Connecting method			. , ,		
Insulation for piping Necessary (both Liquid & Gas lines) Drain hose Hose connectable VP20(O.D.26) Drain pump, max lift height mm — IP number IPX0 Standard accessories Mounting kit, Drain hose		<u> </u>		m			
Drain hose Hose connectable VP20(O.D.26) Drain pump, max lift height mm — IP number IPX0 Standard accessories Mounting kit, Drain hose		0 11 0			Necessary (both Liquid & Gas lines)		
Drain pump, max lift height mm — IP number IPX0 Standard accessories Mounting kit, Drain hose				, , , , , , , , , , , , , , , , , , , ,			
IP number IPX0 Standard accessories Mounting kit, Drain hose	Drain pump	, max lift height		mm	-		
	IP number				IPX0		
	Standard ad	ccessories			Mounting kit, Drain hose		
	Option part	S					

Item	Indoor air t	emperature	Outdoor air	temperature	Standards
Operation	DB	WB	DB	WB	Staridards
Cooling	27°C	19°C	35°C	24°C	ISO5151-T1
Heating	20°C	_	7°C	6°C	ISO5151-H1

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.
- (3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.(4) The operation data indicate when the air-conditioner is operated at 230V 50Hz or 220V 60Hz.

(2) Outdoor units

Item			Model	FDC100	VNX-W
Power source				1 Phase 220-240V	50Hz / 220V 60Hz
Nominal cooling capacity (range)			kW	10.0 [3.5(Min	.)-11.2(Max.)]
	Nominal heating capacit		kW	11.2 [2.7(Min.)-12.5(Max.)]	
Operation	Sound power level	Cooling Heating		6	7
data	Sound pressure level	Cooling	dB(A)	5	<u> </u>
	•	Heating	` ` /	5	<u>-</u>
	Silent mode	Cooling		49 / 48 (Nor	
	sound pressure level	Heating		48 / 48 (Nor	mal / Silent)
Exterior dim	nensions (Height x Width	x Depth)	mm	1300×9	70×370
Exterior app	pearance			Stucco	white
Munsell co				(4.2Y7.5/1.1) r	
RAL color)			(RAL 7044) n	ear equivalent
Net weight			kg	9	7
Compressor type & Q'ty				RMT5134SWP3(To	win rotary type)×1
Compresso	r motor (Starting method))	kW	Direct li	ne start
Refrigerant	oil (Amount, type)		L	0.9 (M-	MB75)
Refrigerant	(Type, amount, pre-charge	ge length)	kg	R32 4.0 in outdoor unit (Incl. the	e amount for the piping of 30m)
leat exchai	nger			M shape fin & inne	er grooved tubing
Refrigerant	control			Electronic exp	pansion valve
an type & (Q'ty			Propeller fan ×2	
an motor (Starting method)		W	86 x 2 < Direct line start >	
Air flow	,	Cooling Heating	m³/min	100	
Shock & vib	ration absorber	•		Rubber sleeve(for fan	motor & compressor)
Electric hea	ter		W	20(Crank c	ase heater)
Safety equip	omonte			Internal thermos	
Jaiety equip	omento			Abnormal discharge temperature protection	
	Refrigerant piping size (O D)	mm –	Liquid line:	
	herrigerant piping size (O.D.)	111111	Gas line:	φ 15.88 (5/8")
	Connecting method			Flare	piping
nstallation	Attached length of pipin	g	m	_	-
data	Insulation for piping			Necessary (both L	
	Refrigerant line (one wa		m	Min.3, N	
	Vertical height diff. between	O/U and I/U	m	Max.50 (Outdoor unit is higher)	Max.15 (Outdoor unit is lower)
	Drain hose			Hole size ϕ	
IP number				IP2	24
Standard ac	ccessories			_	-
Option parts	s			-	-

Notes (1) The data are measured at the following conditions.

Item	Indoor air t	emperature	Outdoor air	temperature	Standards
Operation	DB	WB	DB	WB	Standards
Cooling	27°C	19℃	35°C	24°C	ISO5151-T1
Heating	20°C		7°C	6°C	ISO5151-H1

⁽²⁾ This air-conditioner is manufactured and tested in conformity with the ISO.
(3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.

(4) The operation data indicate when the air-conditioner is operated at 230V 50Hz or 220V 60Hz.

Item			Model	FDC100VSX-W
Power source	ce			3 Phase 380-415V 50Hz / 380V 60Hz
	Nominal cooling capacity	/ (range)	kW	10.0 [3.5(Min.)-11.2(Max.)]
	Nominal heating capacity	/ (range)	kW	11.2 [2.7(Min.)-16.0(Max.)]
Operation	Sound power level	Cooling Heating		67
data	Sound pressure level	Cooling	dB(A)	53
	Souria pressure level	Heating		51
	Silent mode	Cooling		49 / 48 (Normal / Silent)
	sound pressure level	Heating		48 / 48 (Normal / Silent)
Exterior dim	ensions (Height x Width >	Depth)	mm	1300×970×370
Exterior app	earance			Stucco white
(Munsell co	olor)			(4.2Y7.5/1.1) near equivalent
(RAL color))			(RAL 7044) near equivalent
Net weight			kg	99
Compressor	Compressor type & Q'ty			RMT5134SWP4(Twin rotary type)×1
Compressor	Compressor motor (Starting method)		kW	Direct line start
Refrigerant oil (Amount, type)		L	0.9 (M-MB75)	
Refrigerant (Type, amount, pre-charge length)		kg	R32 4.0 in outdoor unit (Incl. the amount for the piping of 30m)	
Heat exchanger			M shape fin & inner grooved tubing	
Refrigerant of	Refrigerant control			Electronic expansion valve
Fan type & 0	Q'ty			Propeller fan ×2
Fan motor (S	Starting method)		W	86 x 2 < Direct line start >
Air flow	-	Cooling Heating	m³/min	100
Shock & vib	ration absorber			Rubber sleeve(for fan motor & compressor)
Electric heat	ter		W	20(Crank case heater)
Safety equip	oments			Internal thermostat for fan motor Abnormal discharge temperature protection
	Refrigerant piping size (O.D.)	mm	Liquid line: φ 9.52 (3/8") Gas line: φ 15.88 (5/8")
	Connecting method			Flare piping
Installation	Attached length of piping	7	m	<u> </u>
data	Insulation for piping			Necessary (both Liquid & Gas lines)
	Refrigerant line (one way	/) length	m	Min.3, Max.100
	Vertical height diff. between (m	Max.50 (Outdoor unit is higher) Max.15 (Outdoor unit is lower)
	Drain hose			Hole size φ 20 x 3 pcs
IP number				IP24
Standard ac	cessories			-
Option parts				_

Item	Indoor air t	emperature	Outdoor air	temperature	Standards
Operation	DB	WB	DB	WB	Standards
Cooling	27°C	19°C	35°C	24°C	ISO5151-T1
Heating	20°C	_	7°C	6°C	ISO5151-H1

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.
 (3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
 (4) The operation data indicate when the air-conditioner is operated at 400V 50Hz or 380V 60Hz.

Item			Model	FDC125VNX-W		
Power source	ce			1 Phase 220-240V 50Hz / 220V 60Hz		
Nominal cooling capacity (range)		kW	12.5 [3.5(Min.)-14.0(Max.)]			
	Nominal heating capacity		kW	14.0 [2.7(Min.)-17.0(Max.)]		
		Cooling		68		
Operation	Sound power level	Heating	İ	70		
data		Cooling	dB(A)	53		
	Sound pressure level	Heating	1	54		
	Silent mode	Cooling	1 [50 / 49 (Normal / Silent)		
	sound pressure level	Heating		50 / 48 (Normal / Silent)		
Exterior dim	nensions (Height x Width x	Depth)	mm	1300×970×370		
Exterior app	pearance			Stucco white		
(Munsell co	olor)			(4.2Y7.5/1.1) near equivalent		
(RAL color))			(RAL 7044) near equivalent		
Net weight			kg	97		
Compresso	Compressor type & Q'ty			RMT5134SWP3(Twin rotary type)×1		
Compresso	r motor (Starting method)		kW	Direct line start		
Refrigerant oil (Amount, type)		L	0.9 (M-MB75)			
Refrigerant (Type, amount, pre-charge length)		kg	R32 4.0 in outdoor unit (Incl. the amount for the piping of 30m)			
Heat exchar	Heat exchanger			M shape fin & inner grooved tubing		
Refrigerant	control			Electronic expansion valve		
Fan type & 0	Q'ty			Propeller fan ×2		
Fan motor (Starting method)		W	86 x 2 < Direct line start >		
Air flow		Cooling Heating	m³/min	100		
Shock & vib	ration absorber	`		Rubber sleeve(for fan motor & compressor)		
Electric heat	ter		W	20(Crank case heater)		
Safety equip	oments			Internal thermostat for fan motor Abnormal discharge temperature protection		
	Refrigerant piping size (D.D.)	mm	Liquid line: φ 9.52 (3/8") Gas line: φ 15.88 (5/8")		
	Connecting method			Flare piping		
Installation	Attached length of piping	1	m	_		
data	Insulation for piping			Necessary (both Liquid & Gas lines)		
	Refrigerant line (one way) length	m	Min.3, Max.100		
	Vertical height diff. between C		m	Max.50 (Outdoor unit is higher) Max.15 (Outdoor unit is lower)		
	Drain hose			Hole size φ 20 x 3 pcs		
IP number				IP24		
Standard ac	ccessories			_		
Option parts	S			_		

Item	Indoor air t	emperature	Outdoor air	temperature	Standards
Operation	DB	WB	DB	WB	Standards
Cooling	27°C	19℃	35°C	24°C	ISO5151-T1
Heating	20°C	_	7°C	6°C	ISO5151-H1

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.
- (2) This all-conditions is manufactured and tested in conformity with the ISO.(3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.(4) The operation data indicate when the air-conditioner is operated at 230V 50Hz or 220V 60Hz.

Item			Model	FDC125VSX-W
Power source	De .			3 Phase 380-415V 50Hz / 380V 60Hz
Nominal cooling capacity (range)		kW	12.5 [3.5(Min.)-14.0(Max.)]	
	Nominal heating capacit	y (range)	kW	14.0 [2.7(Min.)-18.0(Max.)]
	0 1 1 1	Cooling		68
Operation	Sound power level	Heating		70
data		Cooling	F	53
	Sound pressure level	Heating	dB(A)	54
	Silent mode	Cooling		50 / 49 (Normal / Silent)
	sound pressure level	Heating		50 / 48 (Normal / Silent)
Exterior dim	ensions (Height x Width)	(Depth)	mm	1300×970×370
Exterior app	earance			Stucco white
Munsell co	lor)			(4.2Y7.5/1.1) near equivalent
RAL color))			(RAL 7044) near equivalent
Net weight			kg	99
Compressor type & Q'ty			RMT5134SWP4 (Twin rotary type)×1	
Compressor motor (Starting method)		kW	Direct line start	
Refrigerant oil (Amount, type)		L	0.9 (M-MB75)	
Refrigerant (Type, amount, pre-charge length)		kg	R32 4.0 in outdoor unit (Incl. the amount for the piping of 30m)	
Heat exchanger			M shape fin & inner grooved tubing	
Refrigerant control			Electronic expansion valve	
an type & 0	Q'ty			Propeller fan ×2
an motor (Starting method)		W	86 x 2 < Direct line start >
Air flow	,	Cooling Heating	m³/min	100
Shock & vib	ration absorber			Rubber sleeve(for fan motor & compressor)
Electric heat	ter		W	20(Crank case heater)
Pofoty occil	monto			Internal thermostat for fan motor
Safety equip	nnents			Abnormal discharge temperature protection
	Refrigerant piping size (0.0.)	mm	Liquid line: φ 9.52 (3/8")
	Reingerant piping size (O.D.)	mm -	Gas line: φ 15.88 (5/8")
	Connecting method			Flare piping
nstallation	Attached length of piping	9	m	-
data	Insulation for piping			Necessary (both Liquid & Gas lines)
	Refrigerant line (one way		m	Min.3, Max.100
	Vertical height diff. between	O/U and I/U	m	Max.50 (Outdoor unit is higher) Max.15 Outdoor unit is lower)
	Drain hose			Hole size φ 20 x 3 pcs
IP number				IP24
Standard ac	cessories			_
Option parts	3			-

Item	Indoor air t	emperature	Outdoor air	temperature	Standards
Operation	DB	WB	DB	WB	Standards
Cooling	27°C	19℃	35°C	24°C	ISO5151-T1
Heating	20°C	-	7°C	6°C	ISO5151-H1

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.
 (3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.

 (4) The operation data indicate when the air-conditioner is operated at 400V 50Hz or 380V 60Hz.

Item			Model	FDC140VNX-W		
Power sour	rce			1 Phase 220-240V 50Hz / 220V 60Hz		
Nominal cooling capa		y (range)	kW	14.0 [3.5(Min.)-16.0(Max.)]		
	Nominal heating capacit		kW	16.0 [2.7(Min.)-18.0(Max.)]		
	0	Cooling		69		
Operation	Sound power level	Heating		71		
data		Cooling	-ID(A)	54		
	Sound pressure level	Heating	dB(A)	54		
	Silent mode	Cooling		50 / 49 (Normal / Silent)		
	sound pressure level	Heating		51 / 48 (Normal / Silent)		
Exterior din	nensions (Height x Width)	x Depth)	mm	1300×970×370		
Exterior app	pearance			Stucco white		
Munsell co				(4.2Y7.5/1.1) near equivalent		
RAL color				(RAL 7044) near equivalent		
let weight			kg	97		
Compressor type & Q'ty				RMT5134SWP3(Twin rotary type)×1		
Compressor motor (Starting method)			kW	Direct line start		
Refrigerant oil (Amount, type)		L	0.9 (M-MB75)			
Refrigerant (Type, amount, pre-charge length)		kg	R32 4.0 in outdoor unit (Incl. the amount for the pig	oing of 30m)		
Heat exchanger			M shape fin & inner grooved tubing	g,		
Refrigerant control			Electronic expansion valve			
an type &				Propeller fan ×2		
	(Starting method)		w	86 x 2 < Direct line start >		
Air flow	(2	Cooling Heating	m³/min	100		
Shock & vib	oration absorber			Rubber sleeve(for fan motor & compresso	or)	
Electric hea	ater		W	20(Crank case heater)	·	
Safety equi	pments			Internal thermostat for fan motor Abnormal discharge temperature protecti	ion	
	Refrigerant piping size (O.D.)	mm —	Liquid line: φ 9.52 (3/8") Gas line: φ 15.88 (5/8")		
	Connecting method			Flare piping		
nstallation	Attached length of piping	a q	m			
lata	Insulation for piping			Necessary (both Liquid & Gas lines)		
	Refrigerant line (one war	y) length	m	Min.3, Max.100		
	Vertical height diff. between		m		utdoor unit is lower)	
	Drain hose			Hole size φ 20 x 3 pcs		
P number				IP24		
Standard a	ccessories					
Option part						
	-					

Item	Indoor air t	emperature	Outdoor air	temperature	Standards
Operation	DB	WB	DB	WB	Staridards
Cooling	27°C	19°C	35°C	24°C	ISO5151-T1
Heating	20°C	_	7°C	6°C	ISO5151-H1

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.(3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
- (4) The operation data indicate when the air-conditioner is operated at 230V 50Hz or 220V 60Hz.

tem			Model	FDC140	VSX-W	
Power sour	ce			3 Phase 380-415V	50Hz / 380V 60Hz	
Nominal cooling capacity (range)		kW	- [(
	Nominal heating capacity	/ (range)	kW	16.0 [2.7(Min.)-20.0(Max.)]		
		Cooling		6	9	
Operation	Sound power level	Heating	1	7	1	
data		Cooling	1 15(4)	5-	4	
	Sound pressure level	Heating	dB(A)	5-	4	
	Silent mode	Cooling		50 / 49 (Nor	mal / Silent)	
	sound pressure level	Heating		51 / 48 (Nor		
Exterior dim	nensions (Height x Width x	Depth)	mm	1300×9	70×370	
Exterior app	pearance			Stucco	white	
Munsell co	olor)			(4.2Y7.5/1.1) r	near equivalent	
RAL color)			(RAL 7044) n	ear equivalent	
let weight			kg	99		
Compressor type & Q'ty				RMT5134SWP4(Twin rotary type)×1		
	r motor (Starting method)		kW	Direct lii		
Refrigerant oil (Amount, type)			0.9 (M-			
Refrigerant (Type, amount, pre-charge length)		kg	R32 4.0 in outdoor unit (Incl. the	e amount for the piping of 30m)		
Heat exchanger			M shape fin & inne			
Refrigerant control			Electronic exp			
an type &				Propeller fan ×2		
	Starting method)		W	86 x 2 < Direct line start >		
ir flow	<u> </u>	Cooling Heating	m³/min	100		
Shock & vib	ration absorber			Rubber sleeve(for fan	motor & compressor)	
lectric hea	ter		W	20(Crank ca	ase heater)	
Safety equip	oments			Internal thermos Abnormal discharge to		
	Refrigerant piping size (O.D.)	mm —	Liquid line: Gas line:	φ 9.52 (3/8") φ 15.88 (5/8")	
	Connecting method			Flare		
nstallation	Attached length of piping	7	m	-	-	
lata	Insulation for piping			Necessary (both L	iquid & Gas lines)	
	Refrigerant line (one way	/) length	m	Min.3, N		
	Vertical height diff. between 0		m	Max.50 (Outdoor unit is higher)	Max.15 (Outdoor unit is lower)	
	Drain hose			Hole size ϕ		
P number				IP2		
Standard ac	cessories			_	-	

Item	Indoor air t	emperature	Outdoor air	temperature	Standards
Operation	DB	WB	DB	WB	Standards
Cooling	27°C	19°C	35°C	24°C	ISO5151-T1
Heating	20°C	_	7°C	6°C	ISO5151-H1

- (2) This air-conditioner is manufactured and tested in conformity with the ISO.(3) Sound level indicates the value in an anechoic chamber. During operation these values are somewhat higher due to ambient conditions.
- (4) The operation data indicate when the air-conditioner is operated at 400V 50Hz or 380V 60Hz.

(3) Operation chart

The V Multi is a system that allows for different models and capacities of indoor units to be connected so the individual operating characteristics of the indoor and outdoor are provided. Use the procedure shown in item (c) to calculate the combined operating characteristics.

(a) Operating characteristic of outdoor unit

(220-240V 50Hz/220V 60Hz)

Item	Model	FDC100VNX-W	FDC125VNX-W	FDC140VNX-W
Cooling power consumption	kW	2.38	3.33	4.00
Heating power consumption	K VV	2.78	3.11	3.96
Cooling running current		10.0/10.5	13.4/14.6	16.2/17.7
Heating running current	A	11.6/12.4	12.5/13.6	16.1/17.5
Inrush current < Max. running current>	A	5 <25>	5 <	<27>

(380-415V 50Hz/380V 60Hz)

Item	Model	FDC100VSX-W	FDC125VSX-W	FDC140VSX-W
Cooling power consumption	kW	2.38	3.33	4.00
Heating power consumption	K VV	2.78	3.11	3.96
Cooling running current		3.9/4.1	4.7/5.0	5.8/6.1
Heating running current	А	4.5/4.8	4.6/4.9	6.4/6.8
Inrush current < Max. running current>	A	5 <14>		

Note(1) This packaged air-conditioner is manufactured and tested in conformity with the following standard. ISO5151-T1 "UNITARY AIR-CONDITIONERS"

(b) Operating characteristic of indoor unit

FDT Series

(220-240V 50Hz/220V 60Hz)

Item	/lodel	FDT50VH	FDT60VH	FDT71VH
Cooling power consumption	kW	0.04-0.04/0.04	0.07-0.07/0.07	0.08-0.08/0.08
Heating power consumption	K W	0.04-0.04/0.04	0.07-0.07/0.07	0.08-0.08/0.08
Cooling running current		0.36-0.33/0.36	0.62-0.57/0.62	0.70-0.64/0.70
Heating running current	A	0.36-0.33/0.36	0.62-0.57/0.62	0.70-0.64/0.70

FDE Series

(220-240V 50Hz/220V 60Hz)

Item	lodel	FDE50VH	FDE60VH	FDE71VH
Cooling power consumption	kW	0.05-0.05/0.05	0.08-0.08/0.08	0.08-0.08/0.08
Heating power consumption	K VV	0.05-0.05/0.05	0.08-0.08/0.08	0.08-0.08/0.08
Cooling running current		0.50-0.50/0.50	0.75-0.75/0.75	0.75-0.75/0.75
Heating running current	A	0.50-0.50/0.50	0.75-0.75/0.75	0.75-0.75/0.75

Notes(1) This packaged air-conditioner is manufactured and tested in conformity with the following standard. ISO-T1 "UNITARY AIR-CONDITIONERS"

⁽²⁾ The values shown in the above table are common to both cooling and heating operations.

(c) Calculation of total operation characteristics

Since the operation characteristics of V Multi system depend on combination of indoor unit, calculate the total operation characteristics of the system by using the formulas below according to speciations of each indoor unit or outdoor unit.

(i) 1 Phase models

1) Total power consumption

Total power consumption (kW) = Power consumption of outdoor unit + Σ (Power consumption of indoor unit)

2) Total running current

Total running current (A) = Running current of outdoor unit + \sum (Running current of indoor unit)

3) Total power factor

Total power factor (%) = [Total power consumption (W) / Total running current (A) \times Power source] \times 100 Total operation characteristics = Operation characteristic value of outdoor unit + Operation characteristic value of indoor unit

[Example]

(Conditions) Operation voltage Indoor unit: 220 V, 60 Hz

Outdoor unit: 220 V, 60 Hz

Operation mode Cooling and Heating

Unit------ Outdoor unit: FDC140VNX-W × 1 unit

Indoor unit: FDT71VH \times 2 units

Operation characteristics of each unit

(Cooling/Heating)

ltem Model	FDC140VNX-W	FDT71VH
Power consumption (kW)	4.00/3.96	0.08/0.08
Running current (A)	17.7/17.5	0.70/0.70

① Total power consumption (kW)

(Cooling)
$$4.00 + (0.08 \times 2) = 4.16$$

(Heating)
$$3.96 + (0.08 \times 2) = 4.12$$

② Total running current (A)

(Cooling)
$$17.7 + (0.70 \times 2) = 19.1$$

(Heating)
$$17.5 + (0.70 \times 2) = 18.9$$

3 Total power factor (%)

(Cooling)
$$\frac{4.16 \times 1000}{19.1 \times 220} \times 100 = 99 \%$$

(Heating)
$$\frac{4.12 \times 1000}{18.9 \times 220} \times 100 = 99 \%$$

(ii) 3 Phase models

1) Total power consumption

Total power consumption (kW) = Power consumption of outdoor unit + \sum (Power consumption of indoor unit)

2) Total running current

Total running current (A) = Running current of outdoor unit + $[\Sigma (Running current of indoor unit) \times 1/3]$

3) Total power factor

Total power factor (%) = [Total power consumption (W) / $\sqrt{3}$ × Total running current (A) × Power source] × 100 Total operation characteristics = Operation characteristic value of outdoor unit + Operation characteristic value of indoor unit

[Example]

(Conditions) Operation voltage Indoor unit: 220 V, 60 Hz

Outdoor unit: 380 V, 60 Hz

Operation mode Cooling and Heating

Unit------Outdoor unit: FDC125VSX-W × 1 unit

Indoor unit: FDT50VH \times 1 unit, FDT71VH \times 1 unit

Operation characteristics of each unit

(Cooling/Heating)

Item Model	FDC125VSX-W	FDT50VH	FDT71VH
Power consumption (kW)	3.33/3.11	0.04/0.04	0.08/0.08
Running current (A)	5.0/4.9	0.36/0.36	0.70/0.70

① Total power consumption (kW)

(Cooling)
$$3.33 + 0.04 + 0.08 = 3.45$$
 (kW)

(Heating)
$$3.11 + 0.04 + 0.08 = 3.23$$
 (kW)

② Total running current (A)

(Cooling)
$$5.0 + \left[(0.36 + 0.70) \times \frac{1}{3}) \right] = 5.4 \text{ (A)}$$

(Heating) $4.9 + \left[(0.36 + 0.70) \times \frac{1}{3}) \right] = 5.3 \text{ (A)}$

(Heating)
$$4.9 + \left[(0.36 + 0.70) \times \frac{1}{3} \right] = 5.3 \text{ (A)}$$

3 Total power factor (%)

(Cooling)
$$\frac{3.45 \times 1000}{\sqrt{3} \times 5.4 \times 380} \times 100 = 97 \%$$

(Heating)
$$\frac{3.23 \times 1000}{\sqrt{3} \times 5.3 \times 380} \times 100 = 93 \%$$

2.3 EXTERIOR DIMENSIONS			
(1) Indoor units			
(a) Ceiling cassette-4 way type (FDT)	.See	page	66
(b) Ceiling suspended type (FDE)	.See	page	73
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(1) Indoor units			
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(2) Outdoor units	.See	page	98
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3.1 WIRELESS KIT

3.1.1 FDT series (RCN-T-5AW-E2)

Notes

Following function of FDT indoor unit series are not able to be set with this wireless remote control (RCN-T-5AW-E2).

1. Individual flap control system

PJF012D035

Safety precautions

•Please read this manual carefully before starting installation work to install the unit properly. Every one of the followings is important information to be observed strictly.

MARNING Failure to follow these instructions properly may result in serious consequences such as death, severe injury, etc.

⚠CAUTION Failure to follow these instructions properly may cause injury or property damage. It could have serious consequences depending on the circumstances.

•The following pictograms are used in the text.



Never do.



Always follow the instructions given.

• Keep this manual at a safe place where you can consult with whenever necessary. Show this manual to installers when moving or repairing the unit. When the ownership of the unit is transferred, this manual should be given to a new owner.

↑ WARNING



• Consult your dealer or a professional contractor to install the unit.

Improper installation made on your own may cause electric shocks, fire or dropping of the unit.



• Installation work should be performed properly according to this installation manual. Improper installation work may result in electric shocks, fire or break-down.



• Be sure to use accessories and specified parts for installation work.
Use of unspecified parts may result in drop, fire or electric shocks.



• Install the unit properly to a place with sufficient strength to hold the weight. If the place is not strong enough, the unit may drop and cause injury.



• Be sure to have the electrical wiring work done by qualified electrical installer, and use exclusive circuit. Power source with insufficient and improper work can cause electric shock and fire.



• Shut OFF the main power source before starting electrical work. Otherwise, it could result in electric shocks, break-down or malfunction.



• Do not modify the unit.

It could cause electric shocks, fire, or break-down.



Be sure to turn OFF the power circuit breaker before repairing/inspecting the unit.
 Repairing/inspecting the unit with the power circuit breaker turned ON could cause electric shocks or injury.



• Do not install the unit in appropriate environment or where inflammable gas could generate, flow in, accumulate or leak.

If the unit is used at places where air contains dense oil mist, steam, organic solvent vapor, corrosive gas (ammonium, sulfuric compound, acid, etc) or where acidic or alkaline solution, special spray, etc. are used, it could cause electric shocks, break-down, smoke or fire as a result of significant deterioration of its performance or corrosion.



• Do not install the unit where water vapor is generated excessively or condensation occurs. It could cause electric shocks, fire, or break-down.



• Do not use the unit in a place where it gets wet, such as laundry room. It could cause electric shocks, fire, or break-down.



• Do not operate the unit with wet hands.

It could cause electric shocks.

↑ WARNING



Do not wash the unit with water.

It could cause electric shocks, fire, or break-down.



 Use the specified cables for wiring, and connect them securely with care to protect electronic parts from external forces.

Improper connections or fixing could cause heat generation, fire, etc.



When installing the unit at a hospital, telecommunication facility, etc., take measures to suppress electric noises.

It could cause malfunction or break-down due to hazardous effects on the inverter, private power generator, high frequency medical equipment, radio communication equipment, etc. The influences transmitted from the remote control to medical or communication equipment could disrupt medical activities, video broadcasting or cause noise interference.



• Do not leave the remote control with its PCB case removed. If dew, water, insect, etc. enters through the hole, it could cause electric shocks, fire or break-down.

⚠ CAUTION

- Do not install the wireless kit at the following places in order to avoid malfunction. It could cause break-down or deformation of remote control.
 - (1) Places exposed to direct sunlight
 - (2) Places near heat devices
 - (3) High humidity places
 - generate condensation
 - (5) Places exposed to oil mist or steam directly (10) Places where some object may obstruct the
 - (6) Uneven surface
 - (7) Places affected by the direct air flow of the AC unit
- (8) Places where the receiver is influenced by the fluorescent lamp (especially inverter type) or sunlight
 - (4) Hot surface or cold surface enough to (9) Places where the receiver is affected by infrared rays of any other communication devices

 - communication with the remote control

1)Accessories

Please make sure that you have all of the following accessories.

① Receiver	1	
② Parts set (A)	1	
③ Installation manual	1	

① Wireless remote control (RCN-E2)		1
② Remote control holder		1
③ Screw for holder	\$	2
④ AAA dry cell battery (LR03)	Q	2
⑤ User's manual		1

②Preparation before installation

Setting on site

PCB on the receiver has the following switches to set the function. Default setting is shown with ____ mark.

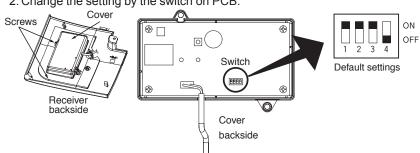
SW1	Prevents interference during plural setting	ON : Normal	OFF : Customized
SW2	Receiver master/ slave setting	ON : Master	OFF : Slave
SW3	Buzzer	ON : Valid	OFF : Invalid
SW4	Auto restart	ON : Valid	OFF : Invalid

2 Preparation before installation (continued)

To change setting

Master/Slave setting when using plural remote controls 1. Remove the cover by unscrewing two screws from the back of receiver.

2. Change the setting by the switch on PCB.



Up to two receiver or wired remote control can be installed in one indoor unit group. When two receiver or

wired remote control are used, it is necessary to change SW on the PCB to set it as slave.

3. When SW1 is turned to OFF position, change the wireless remote control setting. For the method of changing the setting, refer to Setting to avoid mixed communication of (4) Wireless remote control .

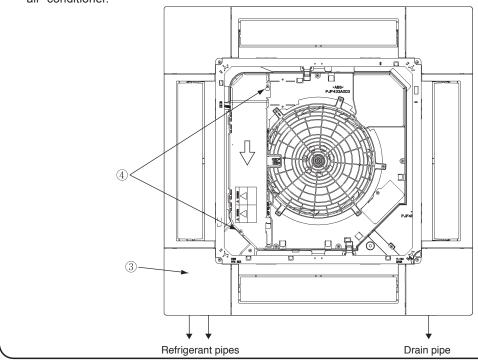
*The receivable area of the signal refer to 5 Receiver .

(3) How to install the receiver

The receiver can be installed by replacing with a corner panel on the applicable decorative panel.

Preparation before installation

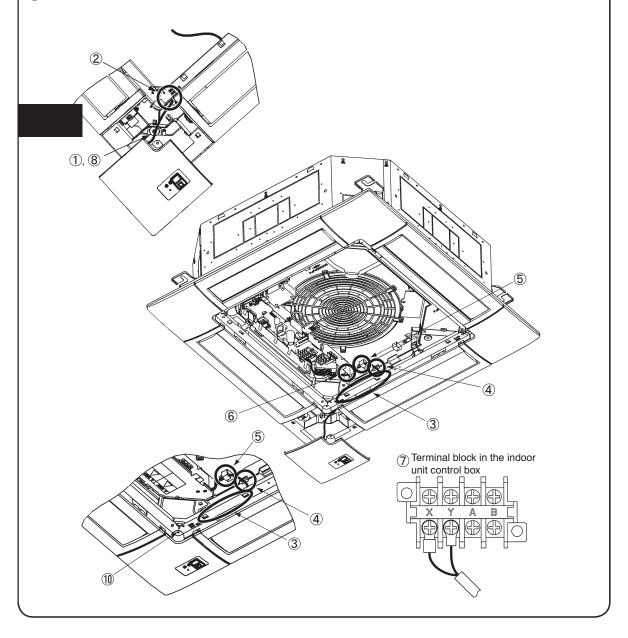
- ① Attach the decorative panel onto the air-conditioner according to the installation manual for the panel.
- 2 Remove the air return grille.
- ③ Remove a corner panel located on the refrigerant pipes side.
- ④ Remove three screws and detach the cover (indicated as shadowed area) from the control box of the air- conditioner.



③ How to install the receiver(continued)

Installation of the receiver

- ① Loosen the bolts which fix the panel and make a gap between the panel and the indoor unit.
- 2 Put the wiring of the receiver through the opening.
- ③ Put the wiring on the notch on the control box so as not to be pinched by the control box and lid as shown below.
- 4 Connect the wiring to the terminal block provided in the control box. (No polarity)
- ⑤ Attach the receiver to the panel according to the panel installation manual.
- ⑥ Fix the wiring with the clamp so that the wiring do not contact the edge of control box's metal sheet.
- ? Reattach the control box lid with 3 screws removed.

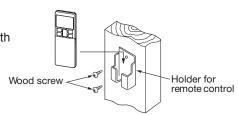


(4) Wireless remote control

Installation tips for the remote control holder

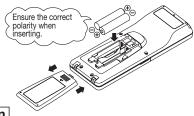
Fix the remote control holder using the screws supplied with this product.

- * Precautions for installing the holder
- Adjust the position so that it is upright.
- Ensure that the screw heads are not protruding.
- Do not attach the holder on plaster wall



How to insert batteries

- 1. Detach the back lid.
- 2. Insert the batteries. (two AAA batteries)
- 3. Reattach the back lid.



Setting to avoid mixed communication

- 1. Detach the back lid, and remove the batteries.
- 2. Cut off the switching wire in the battery compartment using nippers.
- 3. Insert the batteries, and attach the back lid.



Changing the remote control setting

How to change the Auto Run setting

The Auto Run mode is not available on the building air-conditioning and gas heat pump series (excluding the cooling/heating free multi system).

When using the remote control to operate those models, set the remote control to disable the Auto Run mode.

To disable the Auto Run mode, press the ACL switch while holding down the MODE button, or insert batteries while holding down the MODE button.

* Note: Once the batteries are removed, the setting is reset to the factory default. When the batteries are removed, repeat the steps described above.

Indoor function settings

- 1. How to set indoor functions
 - 1) Press the ON/OFF button to stop the unit.
 - ② Press the desired one of the buttons shown item 2. while holding down the FUNCTION SETTING switch.
 - ③ Use the selection buttons, ▲ and ▼, to change the setting.
 - 4 Press the SET button.

The buzzer on the remote control signal receiver beeps twice, and the LED lamp flashes four times at two-second intervals.



SLENT (NOR) (THE

4 Wireless remote control (continued)

Setting details
 The following functions can be set.

Button	Number indicator	Function setting
	00	Fun speed setting : Standard
FAN SPEED 01		Fun speed setting: Setting 1 *
	02	Fun speed setting: Setting 2 *
	00	Room heating temperature adjustment : Disable
MODE	01	Room heating temperature adjustment : +1°C
MODE	02	Room heating temperature adjustment : +2°C
	03	Room heating temperature adjustment : +3°C
	00	Filter sign display : OFF
	01	Filter sign display : 180 hours
FILTER	02	Filter sign display: 600 hours
	03	Filter sign display : 1000 hours
	04	Filter sign display : Operation stop after 1000 hours have elapsed
U/P	00	Anti draft setting : Disable
(Up/Down)	01	Anti draft setting : Enable
SILENT	00	Infrared sensor setting (Motion sensor setting) : Disable
SILENT	01	Infrared sensor setting (Motion sensor setting) : Enable
	00	Infrared sensor control (Motion sensor control) : Disable
LILDOMED	01	Infrared sensor control (Motion sensor control): Power control only
HI POWER	02	Infrared sensor control (Motion sensor control): Auto OFF only
	03	Infrared sensor control (Motion sensor control): Power control and Auto OFF
	00	Cooling fan residual-period running : Disable
ON TIMER	01	Cooling fan residual-period running : 0.5 hours
ON TIMER	02	Cooling fan residual-period running : 2 hours
	03	Cooling fan residual-period running : 6 hours
	00	Heating fan residual-period running : Disable
OFF TIMED	01	Heating fan residual-period running : 0.5 hours
OFF TIMER	02	Heating fan residual-period running : 2 hours
	03	Heating fan residual-period running : 6 hours
	00	Remote control signal receiver LED : Brightness High
NIGHT SETBACK	01	Remote control signal receiver LED : Brightness Low
SETBACK	02	Remote control signal receiver LED : OFF

^{*} Refer to service manual.

(5) Receiver

1 Control plural indoor units with one remote control

Up to 16 indoor units can be connected.

- 1. Connect the XY terminal with 2 cores wire. As for the size, refer to the following note.
- For Packaged air-conditioner series, set the indoor unit address with SW2 on the indoor unit PCB from [0] to [F] so as not to duplicate.

Restrictions on the thickness and length of wire (Maximun total extension 600m.)

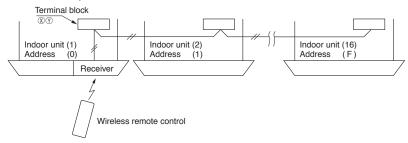
Standard Within 0.3 mm² × 100m

Within $0.5 \text{ mm}^2 \times 200 \text{m}$ Within $0.75 \text{mm}^2 \times 300 \text{m}$

Within 1.25mm² × 400m Within 2.0 mm² × 600m

For the shop series

For VRF series, set the indoor unit address with SW1, SW2 and SW5-2 on the indoor unit PCB from [000] to [127] so as not to duplicate.

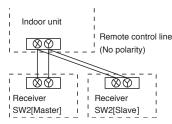


For the building air-conditioning and gas heat pump series

Set the indoor unit and outdoor unit numbers by manually specifying the addresses. Use the rotary switches SW1 and SW2 provided on the indoor unit PCB (printed circuit board) to set the indoor unit numbers so that they are not duplicated.

Master/Slave setting when using plural remote control

Up to two receivers can be installed in one indoor unit group.

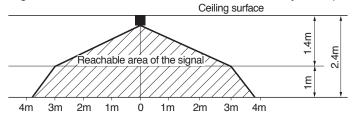


Switch	Setting	Function
SW2	ON	Master
3442	OFF	Slave

Wireless remote control's operable area

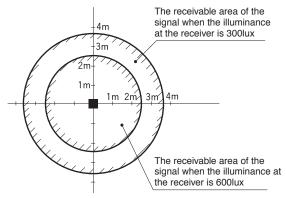
Standard reachable area of the signal [condition] Illuminance at the receiver: 300lux

(when no lighting is installed within 1m of the receiver in an ordinary office.)



5 Receiver (continued)

2. Correlation between illuminance at the receiver and reachable area of the signal in a plain view. The drawing in the right shows the correlation between the reachable area of the signal and illuminance at the receiver when the remote control is operated at 1.0m high under the condition of ceiling height of 2.4m. When the illuminance becomes double, the area is narrowed down to two thirds.



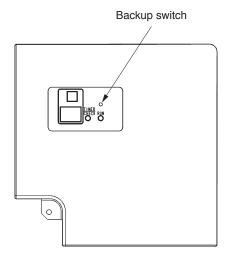
3. Installation tips when several receivers are installed close
Minimum distance between the indoor units which can avoid cross communication is 5m under the condition
of 300lux of illuminance at the receiver.

(When no lighting is installed within 1m of the receiver in an ordinary office)

Backup switch

A backup switch is provided on the receiver. Even when the operation from the wireless remote control is not possible (due to flat batteries, control lost, or control failure), still it possible to operate as temporary means. Press the switch directly when operating it.

- The air-conditioner starts the operation with the condition of Auto mode, 23°C of set point, High fan speed and horizontal louver position.
- 2. The air-conditioner stops the operation when the switch is pressed when in operation.



Cooling test run operation

- After safety confirmation, turn on the power.
- Transmit a cooling operation command with the wireless remote control unit, while the backup switch
 on the receiver is depressed.
- If the backup switch on the receiver is pressed during a test run, it will end the test run.
- If you cannot operate the unit properly during a test run, please check wiring by consulting with inspection guides.

How to read the 2-digit display

On the receiver of a wireless kit, a two-digit (7-segment) display is provided.

- 1. An indication will be displayed for one hour after power on.
- 2. An indication will be displayed for 3.5 seconds after transmitting a "STOP" command from the wireless remote control or the operation of the backup switch to stop the unit.
- 3. An indication appearing in (1) or (2) above will go off as soon as the unit starts operation.
- 4. When there are no error records to indicate, addresses of all the connected units are displayed.
- 5. When there are some error records remaining, the error records are displayed.
- 6. Error records can be cleared by transmitting a "STOP" command from the wireless remote control, while the backup button is pressed.

3.1.2 FDTC series (RCN-TC-5AW-E2)

Safety precautions

•Please read this manual carefully before starting installation work to install the unit properly. All of the following are important information to be observed strictly.

⚠WARNING Failure to follow these instructions properly may result in serious consequences such as death, severe injury, etc.

<u>^</u>CAUTION Failure to follow these instructions properly may cause injury or property damage. It could have serious consequences depending on the circumstances.

•The following symbols are used in the text.



Never do.



Always follow the instructions given.

•Keep this manual at a safe place where you can consult with whenever necessary. Show this manual to installers when moving or repairing the unit. When the ownership of the unit is transferred, this manual should be given to the new owner.

WARNING



• Consult your dealer or a professional contractor to install the unit.

Improper installation made on your own may cause electric shocks, fire or dropping of the unit.



• Installation work should be performed properly according to this installation manual. Improper installation work may result in electric shocks, fire or break-down.



• Be sure to use accessories and specified parts for installation work.

Use of unspecified parts may result in drop, fire or electric shocks.



• Install the unit properly to a place with sufficient strength to hold the weight. If the place is not strong enough, the unit may drop and cause injury.



• Be sure to have the electrical wiring work done by qualified electrical installer, and use exclusive circuit.

Power source with insufficient and improper work can cause electric shock and fire.



• Shut OFF the main power source before starting electrical work. Otherwise, it could result in electric shocks, break-down or malfunction.



Do not modify the unit.

It could cause electric shock

It could cause electric shocks, fire, or break-down.



• Be sure to turn OFF the power circuit breaker before repairing/inspecting the unit.

Repairing/inspecting the unit with the power circuit breaker turned ON could cause electric shocks or injury.



• Do not install the unit in appropriate environment or where inflammable gas could generate, flow in, accumulate or leak.

If the unit is used at places where air contains dense oil mist, steam, organic solvent vapor, corrosive gas (ammonium, sulfuric compound, acid, etc) or where acidic or alkaline solution, special spray, etc. are used, it could cause electric shocks, break-down, smoke or fire as a result of significant deterioration of its performance or corrosion.



• Do not install the unit where water vapor is generated excessively or condensation occurs. It could cause electric shocks, fire, or break-down.



• Do not use the unit in a place where it gets wet, such as laundry room. It could cause electric shocks, fire, or break-down.



• Do not operate the unit with wet hands. It could cause electric shocks.

⚠ WARNING



Do not wash the unit with water.

It could cause electric shocks, fire, or break-down.



Use the specified cables for wiring, and connect them securely with care to protect electronic parts from external forces.

Improper connections or fixing could cause heat generation, fire, etc.



When installing the unit at a hospital, telecommunication facility, etc., take measures to suppress electric noises.

It could cause malfunction or break-down due to hazardous effects on the inverter, private power generator, high frequency medical equipment, radio communication equipment, etc. The influences transmitted from the remote control to medical or communication equipment could disrupt medical activities, video broadcasting or cause noise interference.



Do not leave the remote control with its PCB case removed.

If dew, water, insect, etc. enter through the hole, it could cause electric shocks, fire or break-down.

♠ CAUTION

- Do not install the wireless kit at the following places in order to avoid malfunction. It could cause break-down or deformation of remote control.
 - (1) Places exposed to direct sunlight
 - (2) Places near heat-generating devices
 - (3) High humidity places
 - (4) Hot surface or cold surface enough to (9) Places where the receiver is affected by infrared generate condensation
 - (5) Places exposed to oil mist or steam directly (10) Places where some object may obstruct the
 - (6) Uneven surface
 - (7) Places affected by the direct air flow of the AC unit
- (8) Places where the receiver is influenced by fluorescent lamp (especially inverter type) or sunlight
 - rays of any other communication devices
 - communication with the remote control

1 Accessories Please make sure that you have all of the following accessories. 1) Wireless remote control (RCN-E2) Receiver 1 ⑤ Bracket mounting screw 2 Remote control holder 1 2 PCB 6 Wiring (For communication) 1 (3) Screw for holder 2 4 AAA dry cell battery (LR03) 2 ③ PCB mounting support Wiring (For receiving) 1 ⑤ User's manual 1 ④ Bracket (Sheet metal) 8 Installation manual 9 Parts set

(2) Preparation before installation

Setting of PCB

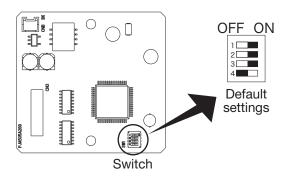
Accessory PCB has the following switches to set the functions. Default setting is shown with

SW1	Prevents interference during multiple setting	ON : Normal OFF : Remote
SW2	Receiver master/slave setting	ON : Master OFF : Slave
SW3	Buzzer	ON : Valid OFF : Invalid
SW4	Auto restart	ON : Valid OFF : Invalid

② Preparation before installation (continued)

To change setting

1. Change the setting of switches on the accessory PCB.



Master/Slave setting when using multiple remote controls

Up to two receivers or wired remote controls can be installed on one indoor unit group. In such occasion, it is necessary to change the setting to slave on either one.

To change the setting on the receiver, refer to the instruction manual of the receiver.

When SW1 is turned to OFF position, change the wireless remote control setting.
 For the method of changing the setting, refer to Setting to avoid mixed communication of Wireless remote control.

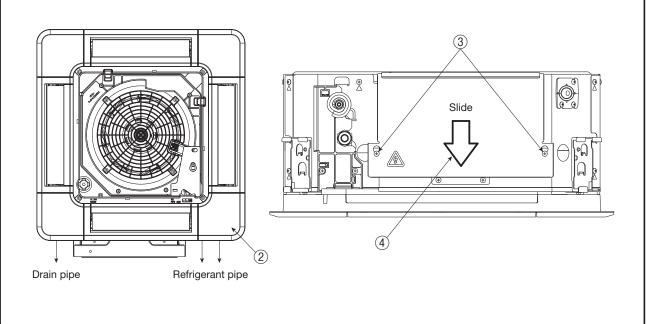
*For the receivable area of the signal, refer to ⑤ Receiver .

(3) How to install the receiver

It is possible to install the receiver by replacing the corner lid on the panel.

Preparation before installation

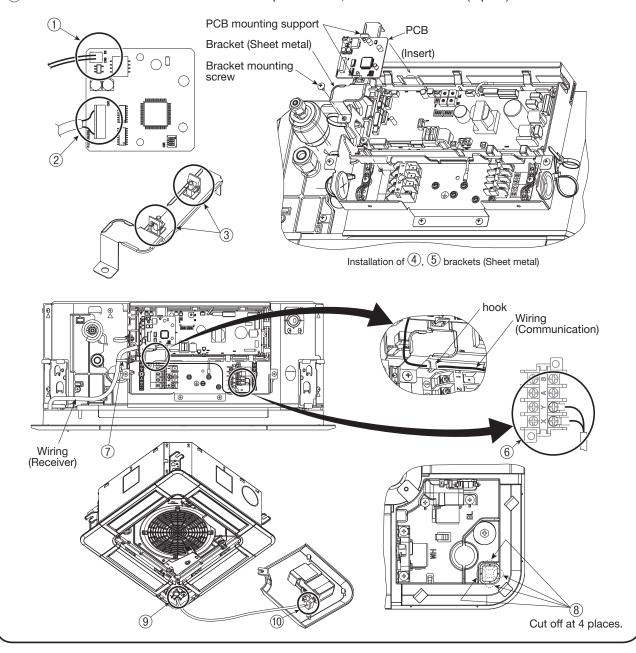
- ① Remove the inlet grille according to the installation manual of the panel.
- ② Remove the corner lid at the refrigerant pipe side.
- 3 Loosen screws (2 pcs.) on the control box of the unit.
- 4 Slide the control lid in the arrow direction, and remove it.



3 How to install the receiver (continued)

Installation of the receiver

- (1) Connect the wire connector (Communication) to CNB on PCB.
- (2) Connect the wire connector (Receiver) to CN3 on PCB.
- (3) Install the PCB mounting supports on the bracket (Sheet metal).
- (4) Install PCB on the PCB mounting supports.
- (5) Insert the bracket (Sheet metal) in one side of control box, and fix the other side with screws as shown in the figure.
- 6 Connect round terminals of wires (Communication) to the terminal block (X, Y) in the control box. The wires have no polarity.
- (7) Fix wires with bands as shown in the figure.
- (8) Cut off the half-blanks on the panel (at 4 places) as shown in the figure.
- (9) Pass the wiring (Communication) through the opening on the panel.
- (ii) Connect connectors of the wiring (Communication) and the receiver.
- (i) Install the receiver on the panel according to the installation manual of the panel.
- (2) Install the control box lid with care not to pinch wires, and fix with screws (2 pcs.).

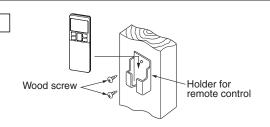


Wireless remote control

Installation tips for the remote control holder

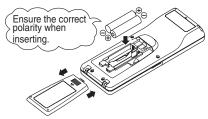
Fix the remote control holder using the screws supplied with this product.

- * Precautions for installing the holder
- · Adjust the position so that it is upright.
- · Ensure that the screw heads are not protruding.
- · Do not attach the holder on plaster wall.



How to insert batteries

- 1. Detach the back lid.
- 2. Insert the batteries. (two AAA batteries)
- 3. Reattach the back lid.



Setting to avoid mixed communication

- 1. Detach the back lid, and remove the batteries.
- 2. Cut off the switching wire in the battery compartment using nippers.
- 3. Insert the batteries, and attach the back lid.



Changing the remote control setting

How to change the Auto Run setting

The Auto Run mode is not available on the building air-conditioning and gas heat pump series (excluding the cooling/heating free multi system).

When using the remote control to operate those models, set the remote control to disable the Auto Run mode.

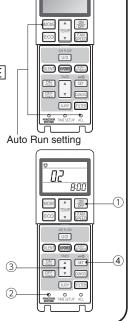
To disable the Auto Run mode, press the ACL switch while holding down the MODE button, or insert batteries while holding down the MODE button.

* Note: Once the batteries are removed, the setting is reset to the factory default. When the batteries are removed, repeat the steps described above.

Indoor function settings

- 1. How to set indoor functions
 - 1) Press the ON/OFF button to stop the unit.
 - 2 Press the desired one of the buttons shown item 2. while holding down the FUNCTION SETTING switch.
 - ③ Use the selection buttons ▲ and ▼ to change the setting.
 - 4 Press the SET button.

The buzzer on the remote control signal receiver beeps twice, and the LED lamp flashes four times at two-second intervals.



4 Wireless remote control (continued)

2. Setting details The following functions can be set.

Button	Number indicator	Function setting		
	00	Fan speed setting : Standard		
FAN SPEED	01	Fan speed setting: Setting 1 *		
	02	Fan speed setting: Setting 2 *		
	00	Room heating temperature adjustment : Disable		
MODE	01	Room heating temperature adjustment : +1°C		
MODE	02	Room heating temperature adjustment : +2°C		
	03	Room heating temperature adjustment: +3°C		
	00	Filter sign display: OFF		
	01	Filter sign display: 180 hours		
FILTER	02	Filter sign display: 600 hours		
	03	Filter sign display: 1000 hours		
	04	Filter sign display: Operation stop after 1000 hours have elapsed		
U/D	00	Anti draft setting : Disable		
(Up/Down) 01 Anti draft setting : Enable		Anti draft setting : Enable		
OII ENT	00	Infrared sensor setting (Motion sensor setting) : Disable		
SILENT	01	Infrared sensor setting (Motion sensor setting) : Enable		
	00	Infrared sensor control (Motion sensor control) : Disable		
LII DOWED	01	Infrared sensor control (Motion sensor control) : Power control only		
HI POWER	02	Infrared sensor control (Motion sensor control) : Auto OFF only		
	03	Infrared sensor control (Motion sensor control) : Power control + Auto OFF		
	00	Cooling fan residual-period running : Disable		
ON TIMER	01	Cooling fan residual-period running : 0.5 hours		
ON HIVIER	02	Cooling fan residual-period running : 2 hours		
	03	Cooling fan residual-period running : 6 hours		
	00	Heating fan residual-period running : Disable		
OFF TIMED	01	Heating fan residual-period running : 0.5 hours		
OFF TIMER	02	Heating fan residual-period running : 2 hours		
	03	Heating fan residual-period running : 6 hours		
	00	Remote control signal receiver LED : Brightness High		
NIGHT SETBACK	01	Remote control signal receiver LED : Brightness Low		
SLIDAUN	02	Remote control signal receiver LED : OFF		

5 Receiver

1 Control multiple indoor units with one remote control

Up to 16 indoor units can be connected.

- 1. Connect the XY terminal with 2 cores wire. As for the size, refer to the note on the right.
- 2. For Packaged air-conditioner series, set the indoor unit address with SW2 on the indoor unit PCB from [1] to [F] so as not to duplicate.

Restrictions on the thickness and length of wire (Maximum length is 600m.)

Standard Within 0.3 mm² × 100m

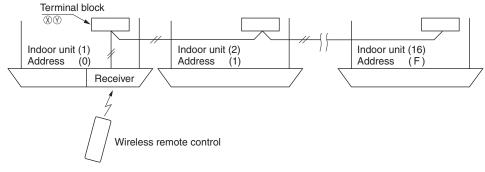
Within $0.5 \text{ mm}^2 \times 200 \text{m}$

Within $0.75mm^2 \times 300m$ Within $1.25mm^2 \times 400m$

Within 2.0 mm² × 600m

For the shop series

For VRF series, set the indoor unit address with SW1, SW2 and SW5-2 on the indoor unit PCB from [000] to [127] so as not to duplicate.



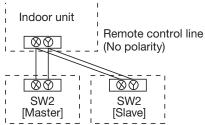
For the building air-conditioning and gas heat pump series

Set the indoor unit and outdoor unit numbers by manually specifying the addresses.

Use the rotary switches SW1 and SW2 provided on the indoor unit PCB (printed circuit board) to set the indoor unit numbers so that they are not duplicated.

Master/Slave setting when using multiple remote control

Up to two receivers can be installed in one indoor unit group.



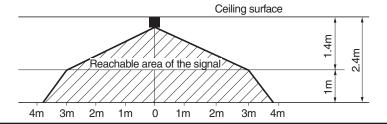
Switch	Setting	Function
SW2	ON	Master
3002	OFF	Slave

Wireless remote control's operable area

1. Standard reachable area of the signal

[Condition] Illuminance at the receiver: 300lux

(When no lighting is installed within 1m of the receiver in an ordinary office)



(5) Receiver (continued)

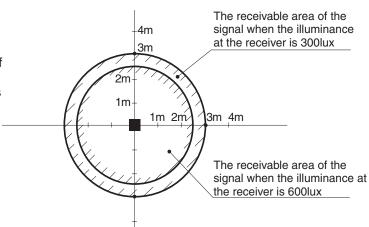
2. Correlation between illuminance at the receiver and reachable area of the signal in a plain view.

The drawing in the right shows the correlation between the reachable area of the signal and illuminance

at the receiver when the remote control is operated at 1m high

under the condition of ceiling height of 2.4m.

When the illuminance becomes double, the area is narrowed down to two thirds.



3. Installation tips when several receivers are installed close to one another.

Minimum distance between the indoor units which can avoid cross communication is 5m under the condition of 300lux of illuminance at the receiver.

(When no lighting is installed within 1m of the receiver in an ordinary office)

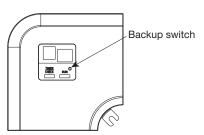
Backup switch

A backup switch is provided on the receiver section of the panel surface.

When operation from the wireless remote control unit is not possible (due to flat batteries, a mislaid unit, a unit failure), you can use it as an emergency means. You should operate this switch manually.

If pressed while the air-conditioner is in a halt, it will cause the air-conditioner to start operation in the automatic mode (In case of cooling only, it is in the cooling mode).
 Wind speed: Hi fan, Temperature setting: 23°C, Louver: horizontal

2. If pressed while the air-conditioner is in operation, it will stop the air-conditioner.



Cooling test run operation

- · After safety confirmation, turn on the power.
- Transmit a cooling operation command with the wireless remote control unit, while the backup switch on the receiver is pressed.
- If the backup switch on the receiver is pressed during a test run, it will end the test run.
- If you cannot operate the unit properly during a test run, please check wiring by consulting with inspection guides.

How to read the two-digit display

On the receiver of a wireless kit, a two-digit (7-segment) display is provided.

- 1. An indication will be displayed for one hour after power on.
- 2. An indication will be displayed for 3.5 seconds after transmitting a "STOP" command from the wireless remote control or the operation of the backup switch to stop the unit.
- 3. An indication appearing in (1) or (2) above will go off as soon as the unit starts operation.
- 4. When there are no error records to indicate, addresses of all the connected units are displayed.
- 5. When there are some error records remaining, the error records are displayed.
- 6. Error records can be cleared by transmitting a "STOP" command from the wireless remote control, while the backup button is pressed.

3.1.3 FDU, FDUM series (RCN-KIT4-E2)

PJZ012D112 🗥

Safety precautions

•Please read this manual carefully before starting installation work to install the unit properly. Every one of the followings is important information to be observed strictly.

MARNING Failure to follow these instructions properly may result in serious consequences such as death, severe injury, etc.

⚠ CAUTION Failure to follow these instructions properly may cause injury or property damage. It could have serious consequences depending on the circumstances.

•The following pictograms are used in the text.

0
\smile

Never do.



Always follow the instructions given.

•Keep this manual at a safe place where you can consult with whenever necessary. Show this manual to installers when moving or repairing the unit. When the ownership of the unit is transferred, this manual should be given to a new owner.

↑ WARNING



• Consult your dealer or a professional contractor to install the unit.

Improper installation made on your own may cause electric shocks, fire or dropping of the unit.



• Installation work should be performed properly according to this installation manual. Improper installation work may result in electric shocks, fire or break-down.



• Be sure to use accessories and specified parts for installation work.

Use of unspecified parts may result in drop, fire or electric shocks.



• Install the unit properly to a place with sufficient strength to hold the weight. If the place is not strong enough, the unit may drop and cause injury.



• Be sure to have the electrical wiring work done by qualified electrical installer, and use exclusive circuit. Power source with insufficient and improper work can cause electric shock and fire.



• Shut OFF the main power source before starting electrical work. Otherwise, it could result in electric shocks, break-down or malfunction.



• Do not modify the unit.

It could cause electric shocks, fire, or break-down.



• Be sure to turn OFF the power circuit breaker before repairing/inspecting the unit.

Repairing/inspecting the unit with the power circuit breaker turned ON could cause electric shocks or injury.



• Do not install the unit in appropriate environment or where inflammable gas could generate, flow in, accumulate or leak.

If the unit is used at places where air contains dense oil mist, steam, organic solvent vapor, corrosive gas (ammonium, sulfuric compound, acid, etc) or where acidic or alkaline solution, special spray, etc. are used, it could cause electric shocks. break-down, smoke or fire as a result of significant deterioration of its performance or corrosion.



• Do not install the unit where water vapor is generated excessively or condensation occurs. It could cause electric shocks, fire, or break-down.



• Do not use the unit in a place where it gets wet, such as laundry room. It could cause electric shocks, fire, or break-down.



Do not operate the unit with wet hands.
It could cause electric shocks.

WARNING



• Do not wash the unit with water.

It could cause electric shocks, fire, or break-down.



 Use the specified cables for wiring, and connect them securely with care to protect electronic parts from external forces.

Improper connections or fixing could cause heat generation, fire, etc.



• When installing the unit at a hospital, telecommunication facility, etc., take measures to suppress electric noises. It could cause malfunction or break-down due to hazardous effects on the inverter, private

power generator, high frequency medical equipment, radio communication equipment, etc. The influences transmitted from the remote control to medical or communication equipment could disrupt medical activities, video broadcasting or cause noise interference.



• Do not leave the remote control with its PCB case removed.

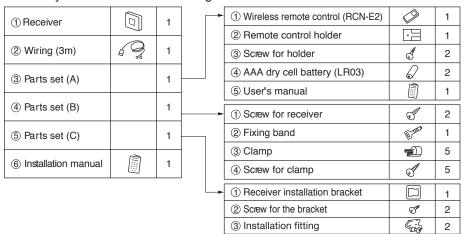
If dew, water, insect, etc. enters through the hole, it could cause electric shocks, fire or break-down.

♠CAUTION

- Do not install the wireless kit at the following places in order to avoid malfunction. It could cause break-down or deformation of remote control.
 - (1) Places exposed to direct sunlight
 - (2) Places near heat devices
 - (3) High humidity places
 - generate condensation
 - (5) Places exposed to oil mist or steam directly (10) Places where some object may obstruct the
 - (6) Uneven surface
 - (7) Places affected by the direct air flow of the AC unit
- (8) Places where the receiver is influenced by the fluorescent lamp (especially inverter type) or sunlight
 - (4) Hot surface or cold surface enough to (9) Places where the receiver is affected by infrared rays of any other communication devices
 - communication with the remote control

1 Accessories

Please make sure that you have all of the following accessories.



2 Preparation before installation

Setting on site

PCB on the receiver has the following switches to set the function. Default setting is shown with mark.

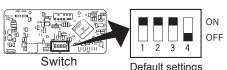
SW1	Prevents interference during plural setting	ON : Normal	OFF : Customized
SW2	Receiver master/ slave setting	ON : Master	OFF : Slave
SW3			
SW4	Auto restart	ON : Valid	OFF : Invalid

② Preparation before installation (continued)

To change setting

- 1. Remove one screws located on the under of the receiver and detach the board.
- 2. Change the setting by the switch on PCB.





3. When SW1 is turned to OFF position, change the wireless remote control setting.

For the method of changing the setting, refer to Setting to avoid mixed communication of Wireless remote control.

*The receivable area of the signal refer to ⑤ Receiver

Master/Slave setting when using plural remote controls

Up to two receiver or wired remote control can be installed in one indoor unit group.

When two receiver or wired remote control are used, it is necessary to change SW on the PCB to set it as slave.

(3) How to install the receiver

The following two methods can be used to install the receiver onto a ceiling or a wall. Select a method according to the installation position.

<Installation position>

- (A) Direct installation onto the ceiling with wood screws.
- (B) Installation with accessory's bracket

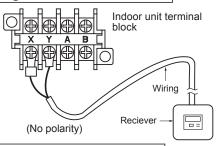
(1) Drilling of the ceiling (ceiling opening)

Drill the receiver installation holes with the dimensions shown right at the ceiling position where wires can be connected.



(A) Direct installation onto the ceiling with wood screws.	88mm(H)×101mm(W)	
(B) Installation with enclosed bracket	108mm(H)×108mm(W)	

(2) Wiring connection of receiver



⚠ Caution

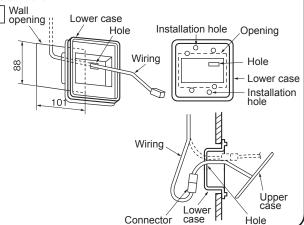
Do not connect the wiring to the power source of the terminal block. If it is connected, printed board will be damaged.

(3) Installation of the receiver

Remove the screw on the side of the receiver and sprit it into the upper case and lower case. Install the receiver with one of the two installation methods (A) to (C) shown below.

(A) Direct installation onto the ceiling with screws

- Use this installation method when the ceiling is wooden, and there is no problem for strength in installing directly with wood screws.
- ① Put through the wiring from the back side to the hole of the lower case.
- ② Fit the lower case into the ceiling opening. Make sure that the clearance between the convex part of the back of the lower case and the ceiling opening must be as equal as possible on both sides.
- ③ Using the two installation holes shown right, fix the lower case onto the ceiling with the enclosed wood screws. (The other four holes are not used.)
- 4 Connect the wiring with the wiring from the upper case by the connector.

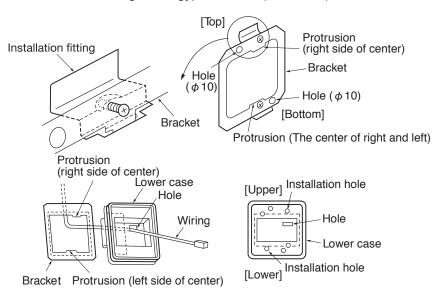


③ How to install the receiver(continued)

- 5 Take out the connector to the backside from the hole of the lower case putting through the wiring at 1).
- (6) Fit the upper case and the lower case, and tighten the screws.

(B) Installation with enclosed bracket

Use this method when installaing onto a gypsum board (7 to 18mm), etc.

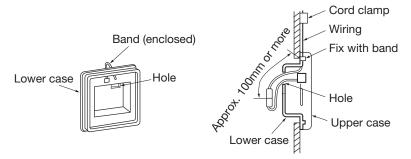


- ① Catch the two protrusion of the enclosed bracket onto the fitting as shown above, and temporarily fix with the screws. (The bracket has an Upper/Lower and front/back orientation. Confirm the Upper/Lower protrusion positions and the positional relation of the ϕ 10 holes on the bracket and the installation hole on the lower case with the above drawing.)
- ② Insert the end of the installation fitting into the back of the ceiling from the opening, and tighten the screws to fix the bracket onto the ceiling.
- 3 Pass the wiring from the rear side through the hole on the lower case.
- 4 Fit the lower case onto the bracket, and fix the lower case to the bracket using the two installation holes shown above. (The other four holes are not used.)
- 5 Follow step 1 to 6 for (A) to complete the installation.

③ How to install the receiver (continued)

(C) Exposed installation

Use the following procedure when installing the case with the wiring exposed.



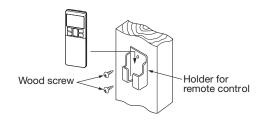
- ① Cut off the thin section on the side of the upper case with a pair of nippers or a knife, and remove the burrs with a file, etc. (The wiring is passed through this section.)
- ② Pass the enclosed band through the wiring outlet hole on the lower case.
- ③ Use on of the light detection adaptor installation methods (A) or (B) explained in section 3, and fix the lower case onto the wall. Do not pass the wiring through the hole on the lower case.
- 4 Fix the wiring using the band while leaving the wiring length from the band fixing section to the end of the wiring connector at 100mm or more.
- (5) Connect the wiring with the wiring protruding front the upper case using a connector.
- (6) Pass the connected connector and the excess wiring through the hole on the lower case.
- Tit the upper case onto the lower case, and tighten the screws.
- Adequately fix the wiring with the enclesed cord clamp.

(4) Wireless remote control

Installation tips for the remote control holder

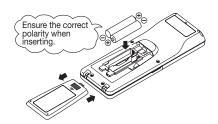
Fix the remote control holder using the screws supplied with this product.

- * Precautions for installing the holder
- Adjust the position so that it is upright.
- Ensure that the screw heads are not protruding.
- Do not attach the holder on plaster wall.



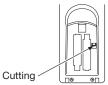
How to insert batteries

- 1. Detach the back lid.
- 2. Insert the batteries. (two AAA batteries)
- 3. Reattach the back lid.



Setting to avoid mixed communication

- 1. Detach the back lid, and remove the batteries.
- 2. Cut off the switching wire in the battery compartment using nippers.
- 3. Insert the batteries, and attach the back lid.



4 Wireless remote control (continued)

Changing the wireless remote control setting

How to change the Auto Run setting

The Auto Run mode is not available on the building air-conditioner and gas heat pump series (excluding the cooling/heating free multi system).

When using the wireless remote control to operate those models, set the wireless remote control to disable the Auto Run mode.

To disable the Auto Run mode, press the ACL switch while holding down the MODE button, or insert batteries while holding down the MODE button.

* Note: Once the batteries are removed, the setting is reset to the factory default. When the batteries are removed, repeat the steps described above.

Indoor function settings

- 1. How to set indoor functions
 - 1) Press the ON/OFF button to stop the unit.
 - Press the desired one of the buttons shown below while holding down the FUNCTION SETTING switch.
 - ③ Use the selection buttons, ▲ and ▼, to change the setting.

Infrared sensor setting (Motion sensor setting): Enable

Infrared sensor control (Motion sensor control) : Disable

Infrared sensor control (Motion sensor control):

Infrared sensor control (Motion sensor control):

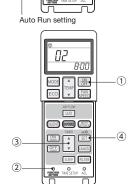
Infrared sensor control (Motion sensor control):

(4) Press the SET button.

The buzzer on the wireless remote control signal receiver beeps twice, and the LED lamp flashes four times at two-second intervals.

2. Setting details

The following functions can be set.



SIENT (IVVIE) (#

Button	Number indicator	Function setting	Button	Number indicator	Function setting
	00	Fan speed setting : Standard		00	Cooling fan residual-period running : Disable
FAN SPEED	01	Fan speed setting : Setting 1 *	ON TIMER	01	Cooling fan residual-period running : 0.5 hours
	02	Fan speed setting : Setting 2 *	ON THIVILIN	02	Cooling fan residual-period running : 2 hours
	00	Room heating temperature adjustment : Disable		03	Cooling fan residual-period running : 6 hours
	01	Room heating temperature adjustment : +1°C		00	Heating fan residual-period running : Disable
	02	Room heating temperature adjustment : +2°C	OFF TIMER	01	Heating fan residual-period running : 0.5 hours
	03	Room heating temperature adjustment : +3°C	OFF HIMER	02	Heating fan residual-period running : 2 hours
	00	Filter sign display : OFF	1	03	Heating fan residual-period running : 6 hours
	01	Filter sign display : 180 hours	NIOLIT	00	Remote control signal receiver LED : Brightness High
FILTER	02	Filter sign display : 600 hours	NIGHT SETBACK	01	Remote control signal receiver LED : Brightness Low
TILILIX	03	Filter sign display : 1000 hours	SETBACK	02	Remote control signal receiver LED : OFF
	04 Filter sign display :	* Refer to service manual.			
	04	Operation stop after 1000 hours have elapsed	1101011030	rvice mandai	
U/D	00	Anti draft setting : Disable			
(Up/Down)	01	Anti draft setting : Enable			
CILENT	00	Infrared sensor setting (Motion sensor setting) : Disable]		

5 Receiver

SILENT

HI POWER

1 Control plural indoor units with one remote control

Power control only

Power control and Auto OFF

Auto OFF only

Up to 16 indoor units can be connected.

01

00

01

02

03

- 1. Connect the XY terminal with 2 cores wire. As for the size, refer to the following note.
- 2. For Packaged air-conditioner series, set the indoor unit address with SW2 on the indoor unit PCB from [0] to [F] so as not to duplicate.

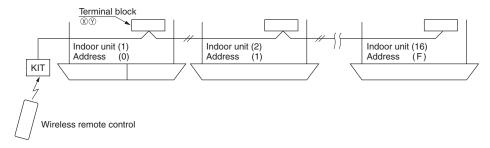
Restrictions on the thickness and length of wire (Maximun total extension 600m.)

Standard Within $0.3 \text{ mm}^2 \times 100 \text{m}$ Within $0.5 \text{ mm}^2 \times 200 \text{m}$ Within $0.75 \text{mm}^2 \times 300 \text{m}$ Within $1.25 \text{mm}^2 \times 400 \text{m}$ Within $2.0 \text{ mm}^2 \times 600 \text{m}$

5 Receiver (continued)

For the shop series

For VRF series, set the indoor unit address with SW1, SW2 and SW5-2 on the indoor unit PCB from [000] to [127] so as not to duplicate.

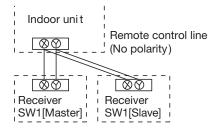


For the building air-conditioner and gas heat pump series

Set the indoor unit and outdoor unit numbers by manually specifying the addresses. Use the rotary switches SW1 and SW2 provided on the indoor unit PCB (printed circuit board) to set the indoor unit numbers so that they are not duplicated.

Master/Slave setting when using plural remote control

Up to two receivers can be installed in one indoor unit group.

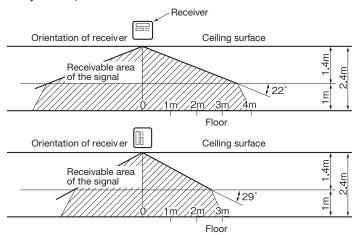


Switch	Setting	Function
SW2	ON	Master
3002	OFF	Slave

When installed on ceiling

1. Standard reachable area of the signal

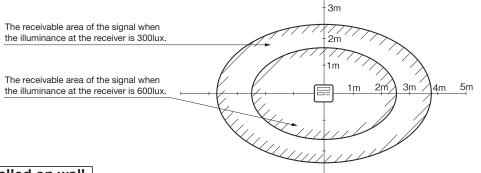
[Condition] Illuminance at the receiver: **300lux** (when no lighting is installed within 1m of the receiver in an ordinary office.)



2. Correlation between illuminance at the receiver and reachable area of the signal in a plain view.

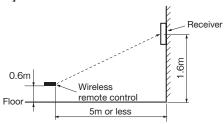
[Condition] Correlation between the reachable area of the signal and illuminance at the receiver when the wireless remote control is operated at 1m high under the condition of ceiling height of 2.4m. When the illuminance becomes double, the area is narrowed down to two third.

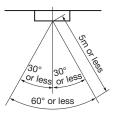
(5) Receiver (continued)



When installed on wall

[Condition] Illuminance at the receiver: 800lux.

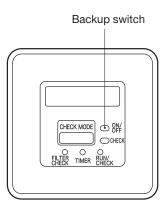




Backup switch

A backup switch is provided on the receiver section of the panel surface. When operation from the wireless remote control unit is not possible (due to flat batteries, a mislaid unit, a unit failure), you can use it as an emergency means. You should operate this switch manually.

- If pressed while the air-conditioner is in a halt, it will cause the air-conditioner to start operation in the automatic mode (in the case of cooling only, in the cooling mode). Wind speed: Hi fan, Temperature setting: 23°C, Louver: horizontal
- If pressed while the air-conditioner is in operation, it will stop the airconditioner.



Cooling test run operation

- After safety confirmation, turn on the power.
- Transmit a cooling operation command with the wireless remote control unit, while the backup switch on the receiver is depressed.
- If the backup switch on the receiver is pressed during a test run, it will end the test run.
- If you cannot operate the unit properly during a test run, please check wiring by consulting with inspection guides.

How to read the 6-digit display

A 6-digit indicator (7-segment indicator) is provided on the receiver section.

- 1. An indication will be displayed for one hour after power on.
- 2. An indication appears for 3.5 seconds when a "Stop" command is sent from the wireless remote control unit while the air-conditioner is not running.
- 3. An indication appearing in (1) or (2) above will go off as soon as the unit starts operation.
- 4. When there are no error records to indicate, addresses are displayed for all of the connected units.
- 5. When there are some error records remaining, the error records are displayed.
- 6. Error records can be cleared by transmitting a "Stop" command from the wireless remote control unit, while the backup switch is depressed.

PFA012D635

3.1.4 FDE series (RCN-E-E3)

Safety precautions

•Please read this manual carefully before starting installation work to install the unit properly. Every one of the followings is important information to be observed strictly.

MARNING Failure to follow these instructions properly may result in serious consequences such as death, severe injury, etc.

⚠CAUTION Failure to follow these instructions properly may cause injury or property damage. It could have serious consequences depending on the circumstances.

•The following pictograms are used in the text.

 \bigcirc

Never do.



Always follow the instructions given.

• Keep this manual at a safe place where you can consult with whenever necessary. Show this manual to installers when moving or repairing the unit. When the ownership of the unit is transferred, this manual should be given to a new owner.

WARNING



• Consult your dealer or a professional contractor to install the unit.

Improper installation made on your own may cause electric shocks, fire or dropping of the unit.



• Installation work should be performed properly according to this installation manual. Improper installation work may result in electric shocks, fire or break-down.



• Be sure to use accessories and specified parts for installation work.
Use of unspecified parts may result in drop, fire or electric shocks.



• Install the unit properly to a place with sufficient strength to hold the weight. If the place is not strong enough, the unit may drop and cause injury.



• Be sure to have the electrical wiring work done by qualified electrical installer, and use exclusive circuit. Power source with insufficient and improper work can cause electric shock and fire.



Shut OFF the main power source before starting electrical work.
 Otherwise, it could result in electric shocks, break-down or malfunction.



Do not modify the unit.

It could cause electric shocks, fire, or break-down.



• Be sure to turn OFF the power circuit breaker before repairing/inspecting the unit.

Repairing/inspecting the unit with the power circuit breaker turned ON could cause electric shocks or injury.



• Do not install the unit in appropriate environment or where inflammable gas could generate, flow in, accumulate or leak.

If the unit is used at places where air contains dense oil mist, steam, organic solvent vapor, corrosive gas (ammonium, sulfuric compound, acid, etc) or where acidic or alkaline solution, special spray, etc. are used, it could cause electric shocks, break-down, smoke or fire as a result of significant deterioration of its performance or corrosion.



• Do not install the unit where water vapor is generated excessively or condensation occurs. It could cause electric shocks, fire, or break-down.



• Do not use the unit in a place where it gets wet, such as laundry room. It could cause electric shocks, fire, or break-down.



• Do not operate the unit with wet hands. It could cause electric shocks.

⚠ WARNING



• Do not wash the unit with water.

It could cause electric shocks, fire, or break-down.



• Use the specified cables for wiring, and connect them securely with care to protect electronic parts from external forces.

Improper connections or fixing could cause heat generation, fire, etc.



When installing the unit at a hospital, telecommunication facility, etc., take measures to suppress electric noises.

It could cause malfunction or break-down due to hazardous effects on the inverter, private power generator, high frequency medical equipment, radio communication equipment, etc. The influences transmitted from the remote control to medical or communication equipment could disrupt medical activities, video broadcasting or cause noise interference.



Do not leave the remote control with its PCB case removed.

If dew, water, insect, etc. enters through the hole, it could cause electric shocks, fire or break-down.

!\CAUTION

- Do not install the wireless kit at the following places in order to avoid malfunction. It could cause break-down or deformation of remote control.
 - (1) Places exposed to direct sunlight
 - (2) Places near heat devices

 - (3) High humidity places
 - generate condensation

 - (6) Uneven surface
 - (7) Places affected by the direct air flow of the AC unit.
- (8) Places where the receiver is influenced by the fluorescent lamp (especially inverter type) or sunlight.
 - (4) Hot surface or cold surface enough to (9) Places where the receiver is affected by infrared rays of any other communication devices.
 - (5) Places exposed to oil mist or steam directly (10) Places where some object may obstruct the communication with the remote control

1 Accessories

Please make sure that you have all of the following accessories.

① Receiver	E.:	1	
② Parts set		1	
③ Installation manual		1	
4 Wiring		1	

-	① Wireless remote control (RCN-E2)	1
	② Remote control holder	1
	3 Screw for holder	\$ 2
	④ AAA dry cell battery (LR03)	2
	⑤ User's manual	1

(2) Preparation before installation

Setting on site

PCB on the receiver has the following switches to set the function.

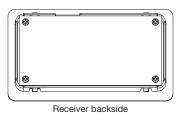
Default setting is shown with mark.

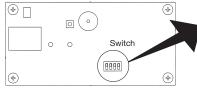
SW1	Prevents interference during plural setting	ON : Normal OFF : Customized
SW2	Receiver master/slave setting	ON : Master OFF : Slave
SW3	Buzzer	ON : Valid OFF : Invalid
SW4	Auto restart	ON : Valid OFF : Invalid

(2) Preparation before installation (continued)

To change setting

- 1. Remove four screws located on the back of the receiver and detach the board.
- 2. Change the setting by the switch on PCB.







Master/Slave setting when using plural remote controls

Up to two receiver or wired remote OFF control can be installed in one Default settings indoor unit group. When two receiver or wired remote control are used, it is necessary to change SW on the PCB to set it as slave.

3. When SW1 is turned to OFF position, change the wireless remote control setting. For the method of changing the setting, refer to Setting to avoid mixed communication of (5) Wireless remote control

*The receivable area of the signal refer to 6 Receiver

(3) How to install the receiver

The receiver can be installed by replacing with a cover of the panel. CAUTION: When installing the receiver after unit has been fixed, injury due to falling may result because of working at high place.

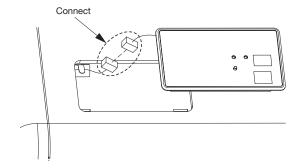
1 Remove the cover

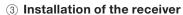
Insert a flat-blade screwdriver into the dented part (2 places), and wrench slightly so as not to damage panel surface.

(2) Connect the wiring

Connect wiring of the receiver to the wiring in the back.

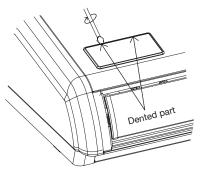
ATTENTION: Do not remove the clamp fixed the wiring.

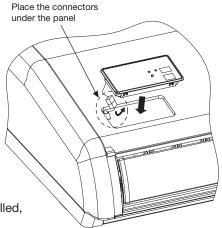




Check direction of the receiver, and fix to the panel.

CAUTION: Connect the connectors before installing the receiver. In case of connecting after the receiver had been installed, it will be necessary to remove the panel.

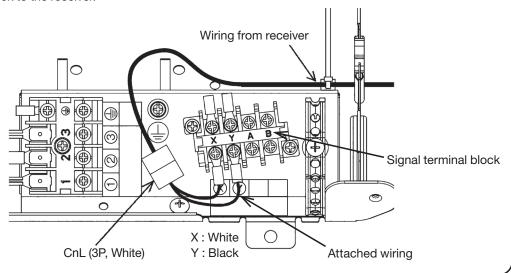




4 How to connect the wiring for control box

Connect the attached wiring to the signal terminal block primary side XY (for grill side) in the control box, and connect to the CNL connector (3P white) from the receiver .

* This installation is unnecessary for indoor unit that have wiring is already connected from the signal terminal block to the receiver.

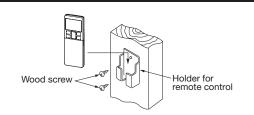


(5) Wireless remote control

Installation tips for the remote control holder

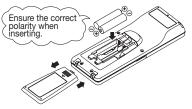
Fix the remote control holder using the screws supplied with this product.

- * Precautions for installing the holder
- Adjust the position so that it is upright.
- Ensure that the screw heads are not protruding.
- Do not attach the holder on plaster wall.



How to insert batteries

- 1. Detach the back lid.
- 2. Insert the batteries. (two AAA batteries)
- 3. Reattach the back lid.



Setting to avoid mixed communication

- 1. Detach the back lid, and remove the batteries.
- 2. Cut off the switching wire in the battery compartment using nippers.
- 3. Insert the batteries, and attach the back lid.



Changing the remote control setting

How to change the Auto Run setting

The Auto Run mode is not available on the building air conditioning and gas heat pump series (excluding the cooling/heating free multi system).

When using the remote control to operate those models, set the remote control to disable the Auto Run mode.

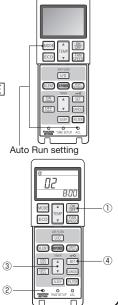
To disable the Auto Run mode, press the ACL switch while holding down the MODE button, or insert batteries while holding down the MODE button.

* Note: Once the batteries are removed, the setting is reset to the factory default. When the batteries are removed, repeat the steps described above.

Indoor function settings

- 1. How to set indoor functions
 - ① Press the ON/OFF button to stop the unit.
 - Press the desired one of the buttons shown item 2. while holding down the FUNCTION SETTING switch.
 - ③ Use the selection buttons, ▲ and ▼, to change the setting.
 - 4 Press the SET button.

The buzzer on the remote control signal receiver beeps twice, and the LED lamp flashes four times at two-second intervals.



(5) Wireless remote control (continued)

Setting details The following functions can be set.

Button	Number indicator	Function setting		
	00	Fan speed setting : Standard		
FAN SPEED	01	Fan speed setting: Setting 1 *		
	02	Fan speed setting: Setting 2 *		
	00	Room heating temperature adjustment : Disable		
MODE	01	Room heating temperature adjustment : +1°C		
MODE	02	Room heating temperature adjustment : +2°C		
	03	Room heating temperature adjustment : +3°C		
	00	Filter sign display : OFF		
	01	Filter sign display: 180 hours		
FILTER	02	Filter sign display: 600 hours		
	03	Filter sign display: 1000 hours		
	04	Filter sign display: Operation stop after 1000 hours have elapsed		
U/D	00	Anti draft setting : Disable		
(Up/Down) 01 A		Anti draft setting : Enable		
SILENT	00	Infrared sensor setting (Motion sensor setting) : Disable		
SILLINI	01	Infrared sensor setting (Motion sensor setting) : Enable		
	00	Infrared sensor control (Motion sensor control) : Disable		
HI POWER	01	Infrared sensor control (Motion sensor control) : Power control only		
TIIT OVVEIX	02	Infrared sensor control (Motion sensor control) : Auto OFF only		
	03	Infrared sensor control (Motion sensor control) : Power control + Auto OFF		
	00	Cooling fan residual-period running : Disable		
ON TIMER	01	Cooling fan residual-period running : 0.5 hours		
OIV TIMET	02	Cooling fan residual-period running : 2 hours		
	03	Cooling fan residual-period running : 6 hours		
	00	Heating fan residual-period running : Disable		
OFF TIMER	01	Heating fan residual-period running : 0.5 hours		
OIT THVILIT	02	Heating fan residual-period running : 2 hours		
	03	Heating fan residual-period running : 6 hours		
NICLIT	00	Remote control signal receiver LED : Brightness High		
NIGHT SETBACK	01	Remote control signal receiver LED : Brightness Low		
52.27010	02	Remote control signal receiver LED : OFF		

^{*} Refer to service manual.

6 Receiver

1 Control plural indoor units with one remote control

Up to 16 indoor units can be connected.

- 1. Connect the XY terminal with 2 cores wire. As for the size, refer to the following note.
- For Packaged air conditioner series, set the indoor unit address with SW2 on the indoor unit PCB from [1] to [F] so as not to duplicate.

Restrictions on the thickness and length of wire (Maximun total extension 600m.)

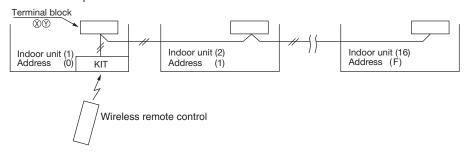
Standard Within 0.3 mm² × 100m

Within $0.5 \text{ mm}^2 \times 200 \text{m}$ Within $0.75 \text{mm}^2 \times 300 \text{m}$ Within $1.25 \text{mm}^2 \times 400 \text{m}$

Within $2.0 \text{ mm}^2 \times 600 \text{m}$

For the shop series

For VRF series, set the indoor unit address with SW1, SW2 and SW5-2 on the indoor unit PCB from [000] to [127] so as not to duplicate.



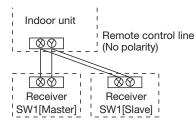
For the building air-conditioning and gas heat pump series

Set the indoor unit and outdoor unit numbers by manually specifying the addresses.

Use the rotary switches SW1 and SW2 provided on the indoor unit PCB (printed circuit board) to set the indoor unit numbers so that they are not duplicated.

Master/Slave setting when using plural remote control

Up to two receivers can be installed in one indoor unit group.



Switch	Setting	Function
SW2	ON	Master
3002	OFF	Slave

6 Receiver (continued)

Wireless remote control's operable area

 Standard signal receiving range [Condition]

Illuminance at the receiver area: 300 lux. (When no lighting fixture is located within 1m of indoor unit in an ordinary office)

Wireless remote control unit

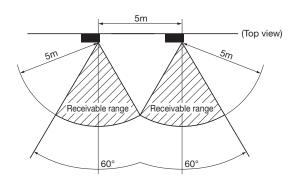
Within 5m

Receivable range

Receivable range

Points for attention in connecting a plural number of indoor units [Condition]

Illuminance at the receiver area: 300 lux.



Backup switch

A backup switch is provided on the receiver section of the panel surface.

When operation from the wireless remote control unit is not possible (due to flat batteries, a mislaid unit, a unit failure), you can use it as an emergency means. You should operate this switch manually.

 If pressed while the air-conditioner is in a halt, it will cause the air-conditioner to start operation in the automatic mode (in the case of cooling only, in the cooling mode).

Wind speed: Hi fan, Temperature setting: 23°C, Louver: horizontal.

TIMER CHECK RUN Backup switch

2. If pressed while the air-conditioner is in operation, it will stop the air-conditioner.

Cooling test run operation

- After safety confirmation, turn on the power.
- Transmit a cooling operation command with the wireless remote control unit, while the backup switch on the receiver is depressed.
- If the backup switch on the receiver is pressed during a test run, it will end the test run.
- If you cannot operate the unit properly during a test run, please check wiring by consulting with inspection guides.

How to read the two-digit display

A two-digit indicator (7-segment indicator) is provided on the receiver section.

- 1. An indication will be displayed for one hour after power on.
- 2. An indication appears for 3.5 seconds when a "Stop" command is sent from the wireless remote control unit while the air-conditioner is not running.
- 3. An indication appearing in (1) or (2) above will go off as soon as the unit starts operation.
- 4. When there are no error records to indicate, addresses are displayed for all of the connected units.
- 5. When there are some error records remaining, the error records are displayed.
- 6. Error records can be cleared by transmitting a "Stop" command from the wireless remote control unit, while the backup switch is depressed.

3.2 MOTION SENSOR KIT

3.2.1 FDT series (LB-T-5W-E)

PJF012D036 ∕€\

⚠ WARNING

 Connect the wiring to the PCB in the control box on the indoor unit and hold the wiring securely so as not to apply unexpected stress on the PCB.
 Loose connection or hold will cause abnormal heat generation or fire.



Make sure the power source is turned off when electric wiring work.
 Otherwise, electric shock, malfunction and improper running may occur.



A CAUTION

- Do not install the motion sensor kit at the following places in order to aboid malfunction.
 - (1) Places exposed to direct sunlight
 - (2) Places near heat devices
 - (3) High humidity places
 - (4) Hot surface or cold surface enough to generate condensation
 - (5) Places exposed to oil mist or steam directly
 - (6) Places affected by the direct air flow of the Indoor unit
- (7) Places where the motion sensor is influenced by the fluorescent lamp or sunlight
- (8) Places where the motion sensor is affected by infrared rays of any other communication devices



- (9) Places where some object may obstruct the motion sensor
- Do not leave the motion sensor without the cover.
 In case the cover needs to be detached, protect the motion sensor with a packaging or bag.
 In order to keep it away from water and dust.



Attention

- · Instruct the customer how to operate it correctly referring to the instruction manual.
- For the installation method of the air-conditioner itself, refer to the installation manual enclosed in the package.

① Accessories

Please make sure that you have the motion sensor.

Motion sensor

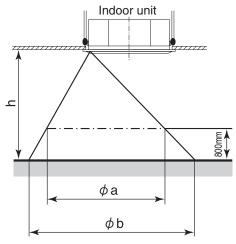


1

2 Installing the motion sensor

It is possible to install the motion sensor by replacing with a corner lid on the panel.

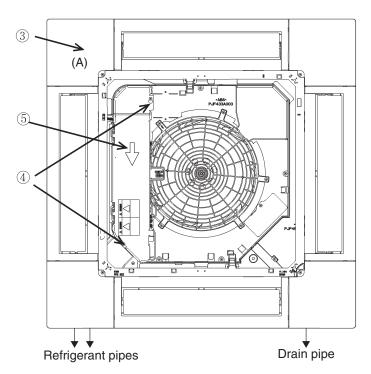
Aim of the detectable scope



Hight of the ceiling	h[m]	2.7	3.5	4.0
Detectable scope①	ϕ a[m]	about 4.5	about 6.4	about 7.6
Detectable scope2	ϕ b[m]	about 6.4	about 8.3	about 9.5

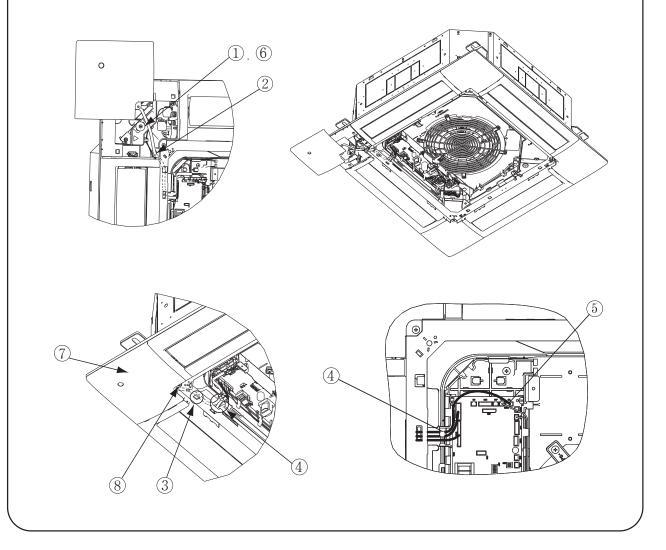
Preparation before installation

- ① Install the panel onto the indoor unit according to the installation manual for the panel.
- 2 Remove the inlet grille.
- 3 Remove the corner lid (A) located on the panel.
- 4 Loosen 2 screws for the control lid. (It is unnecessury to remove the screws.)
- 5 Slide the control lid, and open and remove it.



Installation of the motion sensor

- ① Loosen the bolts which fix the panel, and make a gap between the panel and the indoor unit.
- 2 Pass the wiring of the motion sensor through the opening of the panel.
- 3 Hang the wiring on the hook which is on the panel's inside.
- 4 Pass the wiring through the opening of the control box.
- 5 Connect the connecter to CNL(3P,Black) on PWB in the contorl box.
- 6 Tighten the bolts which fix the panel.
- 7 Install the motion sensor on the panel.
- 8 Fix the motion sensor by the screw.
- 9 Reinstall the control lid, and tighten 2 screws.



3 Setting the motion sensor

The motion sensor will not function if it is only installed. Set the function of the motion sensor by the wired or wireless remote control. Refer to the manual instruction of each remote control for the setting procedure.

Note: It is not possible to set by the following remote control models or older.

Wired:RC-EX1A, RC-E5, RCH-E3

Wireless: RCN-E1R

PJF012D504/A

3.2.2 FDTC series (LB-TC-5W-E)

↑ WARNING

 Connect the wiring to the PCB in the control box on the indoor unit and fix the wiring securely so as not to apply unexpected stress on the PCB.
 Loose connection or fixing will cause abnormal heat generation or fire.



Make sure the power source is turned off during electrical wiring work.
 Otherwise, electric shock, malfunction and abnomal operation may occur.



A CAUTION

- Do not install the motion sensor kit at the following places in order to avoid malfunction.
 - (1) Places exposed to direct sunlight
 - (2) Places near heat-generating devices
 - (3) High humidity places
 - (4) Hot surface or cold surface enough to generate condensation
 - (5) Places directly exposed to oil mist or steam
 - (6) Places affected by the direct air flow of the indoor unit
 - (7) Places where the motion sensor may be influenced by fluorescent lamp or sunlight
- (8) Places where the motion sensor may be affected by infrared rays of any other communication devices



- (9) Places where some object may obstruct the motion sensor
- (10) Places where there may be impact on the motion sensor
- (11) Places with strong radio wave or static electricity
- (12) Dusty place where the motion sensor lens may become tainted or be damaged
- Do not leave the motion sensor without the cover. In case the cover needs to be detached, protect the motion sensor with a packaging or bag in order to keep it away from water and dust.



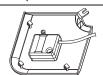
Attention

- Instruct the customer how to operate the motion sensor kit correctly by referring to the instruction manual.
- For the installation method of the air-conditioner itself, refer to the installation manual enclosed in the package.

1 Accessories

Please make sure that all components are in the package.

Motion sensor

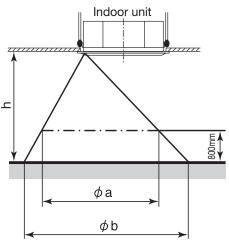


1

2 Installing the motion sensor

It is possible to install the motion sensor by replacing the corner lid on the panel.

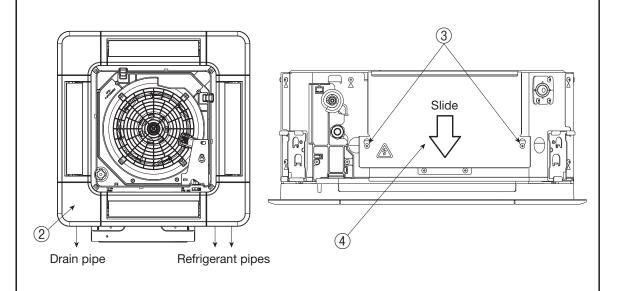
The detectable area



Height of the ceiling	h[m]	2.7	3.5	4.0
Detectable area①	ϕ a[m]	about 4.5	about 6.4	about 7.6
Detectable area②	ϕ b[m]	about 6.4	about 8.3	about 9.5

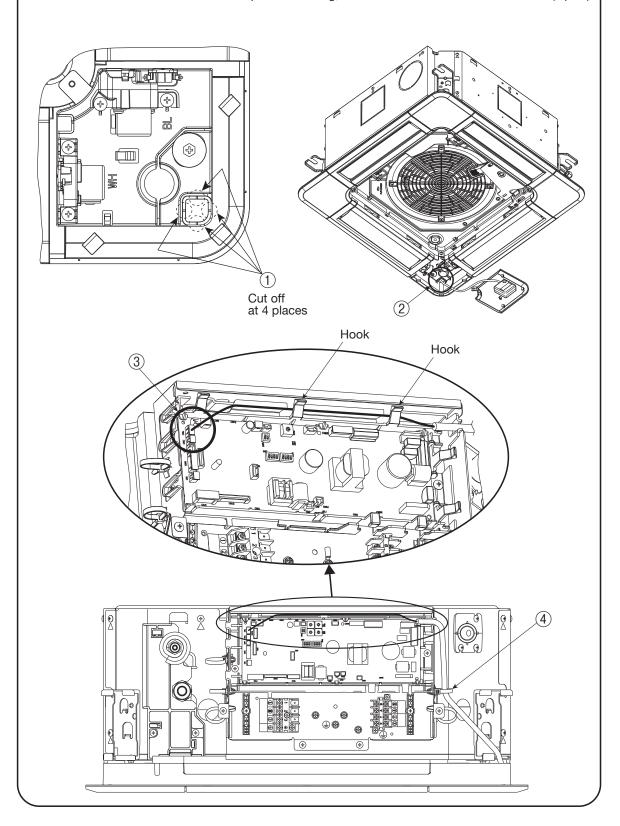
Preparation before installation

- ① Remove the inlet grille according to the installation manual of the panel.
- ② Remove the corner lid at the drain pipe side.
- 3 Loosen screws (2 pcs) on the control box of the unit. (It is not necessary to remove the screws.)
- 4) Slide the control lid in the arrow direction, and remove it.



Installation of the motion sensor

- ① Cut the half blanking (4 sections) of the panel as shown in the following figure.
- ② Pass the motion sensor wiring through the opening of the panel.
- 3 Connect the wiring connector to CNL (3P, black) on the PCB in the control box.
- 4 Fix the wiring with a band as shown below.
- ⑤ Install the motion sensor on the panel according to the installation manual of the panel.
- (i) Install the control lid with care not to pinch the wiring, and reinstall the control lid with screws (2 pcs.).



3 Setting the motion sensor

The motion sensor will not function if it is only installed. Set the function of the motion sensor by the wired or wireless remote control. Refer to the manual instruction of each remote control for the setting procedure.

Note: It is not possible to set by the following remote control models or older ones.

Wired:RC-EX1A, RC-E5, RCH-E3

Wireless: RCN-E1R

PJZ012D122 🛕

3.2.3 FDU, FDUM series (LB-KIT)

⚠ WARNING

Connect the wiring to the PCB in the control box on the indoor unit and hold the wiring securely so as not to apply unexpected stress on the PCB.

Loose connection or hold will cause abnormal heat generation or fire.



Make sure the power source is turned off when electric wiring work.
 Otherwise, electric shock, malfunction and improper running may occur.



A CAUTION

- Do not install the motion sensor kit at the following places in order to avoid malfunction.
- (1) Places exposed to direct sunlight
- (2) Places near heat devices
- (3) High humidity places
- (4) Hot surface or cold surface enough to generate condensation
- (5) Places exposed to oil mist or steam directly
- (6) Places affected by the direct air flow of the Indoor unit
- (7) Places where the motion sensor is influenced by the fluorescent lamp or sunlight
- (8) Places where the motion sensor is affected by infrared rays of any other communication devices
- (9) Places where some object may obstruct the motion sensor



- (10) Place that the motion sensor have a shock
- (11) Place with the strong radio wave or Static electricity
- (12) Place that motion sensor lens become tainted or have damaged. Dusty place
- (13) Place where it runs in parallel with strong voltage lines such as power source wiring
- Do not leave the motion sensor without the cover.
 In case the cover needs to be detached, protect the motion sensor with a packaging or bag.
 In order to keep it away from water and dust.



Attention

- · This manual describes how to install the motion sensor kit.
- Instruct the customer how to operate it correctly referring to the instruction manual.
- For the installation method of the air-conditioner itself, refer to the installation manual enclosed in the package.

1 Accessories

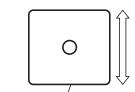
Please make sure that all components are in the package.

Motion sensor	Wiring <1>	Wiring <2>	2 screws	Manual
0	In case of CnL connector on the indoor unit PCB (FDT/FDK/FDTC)	In case of CnL connector is not on the indoor unit PCB	OD OD	

* Please prepare a relay wiring for connecting the motion sensor and indoor unit on site. (0.2 mm² or thicker, triplex (red, white and black) cable for communication, with the maximum length of 8 m.)

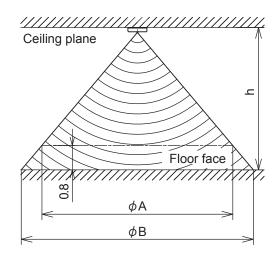
2 Installing the motion sensor

- The recommended height is lower than 4000 mm for motion sensor. When the installation height is higher, motion detection accuracy might be reduced.
- · Sensor will detect the object with a different temperature from the surrounding.
- Sensor may not detect small children or infants with little motion.
- · Although motion sensor can be installed on a wall, it is recommended to install it on the ceiling plane.
- If the sensor is installed on the wall, the sensing distance in the front direction is about 5 m, covering the angle of about 100 degrees.



Side of screws for fixing the case

The detectable area



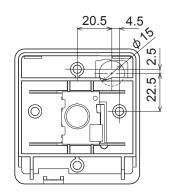
Height of the ceiling	h (m)	2.7	3.5	4.0
Detectable area	ϕ A (m)	4.5	6.4	7.6
Detectable area	ϕ B (m)	6.4	8.3	9.5

Installing the motion sensor

There are the following 3 methods to install the motion sensor on the ceiling plane or wall surface (hereinafter called "ceiling plane"). Select the method according to the installation position.

<How to install>

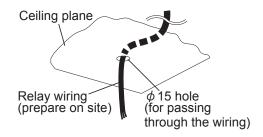
- (A) Direct installation by screws to the ceiling plane with the wiring in the ceiling space.
- (B) Direct installation by screws to the ceiling plane with the wiring in the room.
- (C) Installation with switch box (prepare at the site)

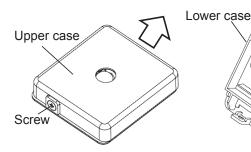


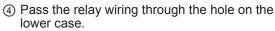
Positional relation for pulling out relay wiring hole and installing holes.

Option (A)

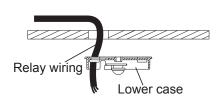
- ► Select this method if the ceiling plane has sufficient strength to install the motion sensor directly with screws.
- ① Prepare a relay wiring on site and lay out the wiring in advance.
- ② Remove the screw at the side of the motion sensor and slide the upper case in the direction of the arrow.
- (3) Pull the wiring of the motion sensor as below.

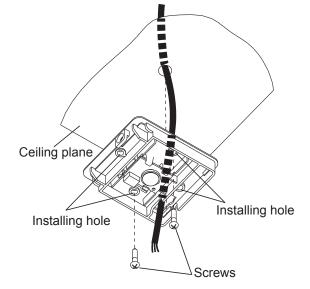






(5) When fixing the lower case to the ceiling plane, tighten it in 2 locations of the installing holes (4 locations) with the attached screws.





(6) Using a crimping terminal, etc., connect the same color to the relay wiring (prepare on site) and the wiring of motion sensor.



- Place the connecting part inside of the ceiling space.
- Seal the wiring hole on the lower case with putty.
- (9) Taking care not to pinch the wirings, slip the upper case into the lower case, and tighten the screws.

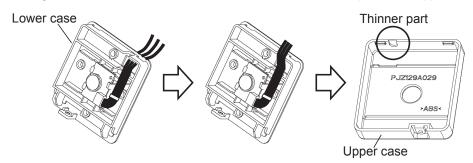


Caution:

In order to prevent tracking, be sure to perform construction so as not to clog up the connecting part with dust, etc.

Option (B)

- ► Select this method if the ceiling plane has sufficient strength to install the motion sensor directly with screws.
- ① Remove the screw at the side of the motion sensor and slide the upper case in the direction of the arrow. (The same as ② of Option (A))
- (2) Pull the wiring of the motion sensor toward the side. Cut off the thinner part of the upper case.



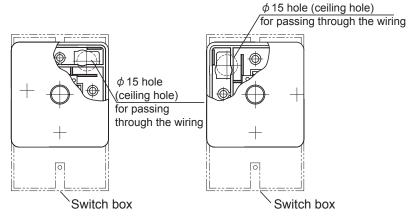
- ③ When fixing the lower case to the ceiling plane, tighten it in 2 locations of the installing holes (4 locations) with the attached screws. (The same as ⑤ of Option (A))
- 4 Using a crimping terminal, etc., connect the same color to the relay wiring (prepare on site) and the wiring of motion sensor.
 - (The same as ⑥ of Option (A))
- ⑤ Taking care not to pinch the wirings, slip the upper case into the lower case, and tighten the screws. (The same as ⑨ of Option (A))
- 6 Seal the cut part at Step ② with putty.



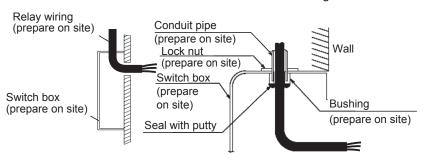
Option (C)

① Set up the switch box and relay wiring (prepare on site) in advance.

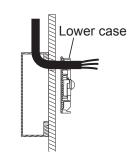
Seal the relay wiring inlet with putty.

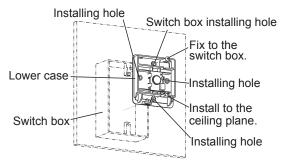


Positional relation for the switch box and installing holes



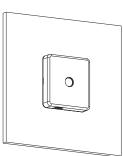
- ② Remove the screw at the side of the motion sensor and slide the upper case in the direction of the arrow. (The same as ② of Option (A))
- ③ Pull the wiring of the motion sensor. (The same as ③ of Option (A))
- ④ Pass the relay wiring through the hole on the lower case from switch box.
- (5) Fix the lower case to switch box using the installing hole (1 place).





- © Connect the same color to the relay wiring (prepare on site) and the wiring of motion sensor.(The same as ⑥ of Option (A))
- ⑦ Place the connecting part between switch box and the hole of the lower case through passed the wiring at step ④.
- Taking care not to pinch the wirings, slip the upper case into the lower case, and tighten the screws. (The same as (9) of Option (A))



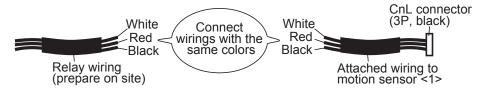


Wiring connection in the control box of indoor unit

CAUTION: Attached wirings to the motion sensor vary depending on the model of the indoor unit. Make sure your model before installing.

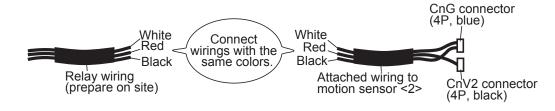
<In case of the CnL connector is on the indoor unit PCB (FDT/FDK/FDTC)>

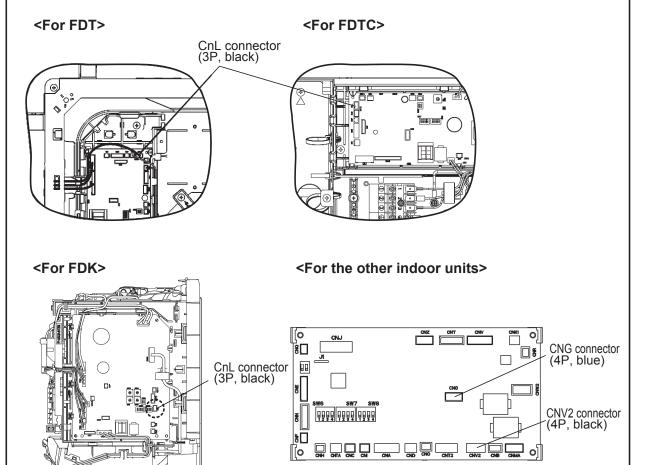
- ① Connect the same color to the relay wiring (prepare on site) and the attached wiring <1>.
- 2 Remove the control box cover from the indoor unit.
- 3 Connect CnL connector (3P, black) to the PCB.



<Incase of the CnL connector is not on the indoor unit PCB>

- ① Connect the same color to the relay wiring (prepare on site) and the attached wiring <2>.
- ② Remove the control box cover from the indoor unit.
- 3 Connect CnG connector (4P, blue) to the PCB.
- 4 Connect CnV2 connector (4P, black) to the PCB.





3 Setting the motion sensor

The motion sensor will not function if it is only installed.

Set the function of the motion sensor by the wired or wireless remote control. Refer to the manual instruction of each remote control for the setting procedure.

Note: It is not possible to set by the following remote control models or older.

Wired:RC-EX1A, RC-E5, RCH-E3

Wireless: RCN-E1R

PFA012D633 🗥

3.2.4 FDE series (LB-E)

⚠ WARNING

Connect the wiring to the PCB in the control box on the indoor unit and hold the wiring securely so as not to apply unexpected stress on the PCB. Loose connection or hold will cause abnormal heat generation or fire.



Make sure the power source is turned off when electric wiring work. Otherwise, electric shock, malfunction and improper running may occur.



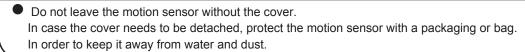
⚠ CAUTION

- Do not install the motion sensor kit at the following places in order to avoid malfunction.
 - (1) Places exposed to direct sunlight
 - (2) Places near heat devices
 - (3) High humidity places
 - (4) Hot surface or cold surface enough to generate condensation

 - (6) Places affected by the direct air flow of the Indoor unit
 - Places where the motion sensor is influenced by the fluorescent lamp or sunlight
- (8) Places where the motion sensor is affected by infrared rays of any other communication devices
- (9) Places where some object may obstruct the motion sensor



- (11) Place with the strong radio wave or Static electricity
- (12) Place that motion sensor lens become tainted or have damaged. Dusty place





Attention

- · This manual describes how to install the motion sensor kit.
- Instruct the customer how to operate it correctly referring to the instruction manual.
- For the installation method of the air-conditioner itself, refer to the installation manual enclosed in the package.

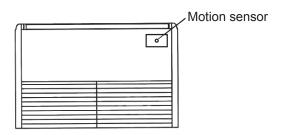
1 Accessories

Please make sure that all components are in the package.

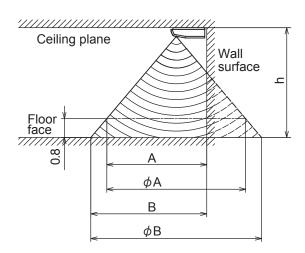
Motion sensor (*) Manual Attached wiring to the motion sensor kit * Wiring from the motion sensor and the attached wiring to the motion sensor kit have been connected when shipped from the factory. Remove the connector at the position of \bigcirc mark and connect it to the attached wiring to the indoor unit before use.

2 Installing the motion sensor

- It is possible to install the motion sensor by replacing the indoor unit.
- The recommended height is lower than 4000 mm for motion sensor. When the installation height is higher, motion detection accuracy might be reduced.
- Sensor will detect the object with a different temperature from the surrounding.
- Sensor may not detect small children or infants with little motion.
- Use the separate motion sensor so that person's activity can be detected when the detectable area differs from the person's activity area.
- Use the separate motion sensor when using both wireless remote control and motion sensor together.



The detectable area



Height of the ceiling	h (m)	2.7	3.5	4.0
Detectable area	A (m)	2.9	3.9	4.5
Detectable area	φ A (m)	4.5	6.4	7.6
Detectable area	B (m)	3.9	4.8	5.4
Detectable area	φ B (m)	6.4	8.3	9.5

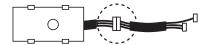
Installing the motion sensor (before installing the unit)

Motion sensor can be installed by replacing with a cover of the panel.

CAUTION: Install the motion sensor before installing the unit.

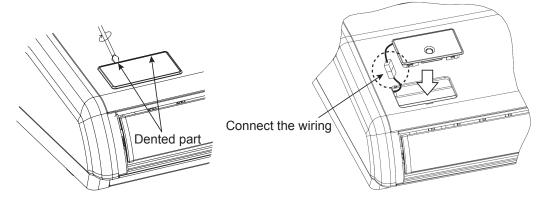
When installing the motion sensor after unit has been fixed, injury due to falling may result because of working at high place.

① Remove the connector that connects the motion sensor and the wiring.



- ② Insert a tool into the dented part (2 places) of the panel cover, and wrench slightly not to damage the paintwork of the panel to remove the cover.
- ③ Connect the wiring from the panel's hole (attached to the indoor unit, color of the wiring: white, red and black, connector: 3P, white) to the wiring from the motion sensor. Make sure to install the motion sensor in the correct direction.

CAUTION: Do not remove the clamp fixed the wiring.



(4) Install the motion sensor

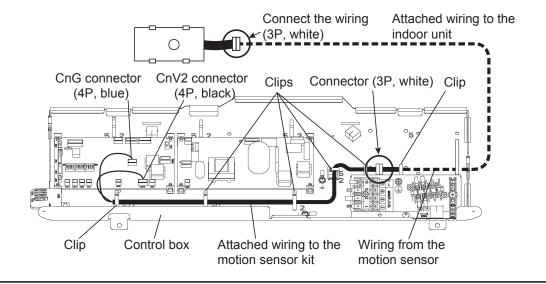
Place the connector under the panel and install it to the panel with careful attention to the direction of the motion sensor.

CAUTION: Connect the connectors before installing the motion sensor.

In case of connecting after the motion sensor has been installed, it will be necessary to remove the panel.

Wiring connection in the control box

- ① Connect the wiring from the motion sensor (attached to the indoor unit, color of the wiring: white, red and black, connector: 3P, white) to the attached wiring to the motion sensor kit.
- ② Fix the wiring with clips (6 places).
- 3 Connect CnG connector (4P, blue) to the PCB.
- 4 Connect CnV2 connector (4P, black) to the PCB.



Setting the motion sensor

The motion sensor will not function if it is only installed.

Set the function of the motion sensor by the wired or wireless remote control. Refer to the manual instruction of each remote control for the setting procedure.

Note: It is not possible to set by the following remote control models or older.

Wired:RC-EX1A, RC-E5, RCH-E3

Wireless: RCN-E1R

SAFETY PRECAUTIONS

⚠ WARNING

If a child, person with disease or other persons needed for assist uses this product, people around the person should take sufficient care.



A halt of the air-conditioner due to abnormal situation or motion sensor's control may cause a feeling of sickness or accident.

ATTENTION

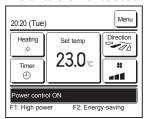
- The sensor may not detect a person near the border of detection range.
- Installation near an object with a different temperature from the surrounding may cause a false detection of human.
- Due to correction of temperature setting, some people may feel chilly.

This product uses infrared sensor to detect person's activity level to support control of air-conditioner. Please set the control you like from the remote control.

Indoor unit control	Detective situation	Description of control	Display of eco touch remote control
① Power control	Activity level is large	Lower the indoor temperature setting for comfort.	Power control ON
Tower control	Activity level is small	Raise the indoor temperature setting for energy-saving.	Power control ON
② Auto-off	No one is detected for 1 hour.	Stop operation and stand by	In auto-off mode
2 Auto-on	No one is detected for 12 hours.	Stop operation	-
1 + 2	Any combination of the above	Any of the above	Any of the above
All disabled (default setting)	-	Standard control	-

If the sensor is disconnected or defective, the control will be set as if it no detects (or less) activity level.

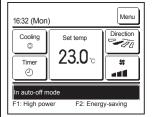
Refer to the next section for setting method.



When power control is enabled

The amount of human motion is detected by a motion sensor to adjust the Set temp.

During power control, "Power control ON" will be displayed on the message display.



When auto-off is enabled

The unit will enter the "Operation wait" state when an hour has elapsed since the last time a human presence was detected and will be in "Complete stop" state after another 12 hours.

"Operation wait"...The unit stops but will resume operation when human presence is detected. When the unit is in "Complete stop", "In auto-off mode" will be displayed on the message display.

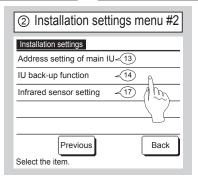
"Complete stop"...When auto-off is enabled, the unit stops. The unit will not resume operation even when human presence is detected.

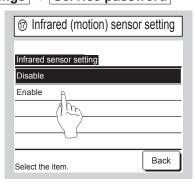
The message "In auto-off mode" will disappear from the message display, and the operation lamp will turn off.

Control setting (from eco touch remote control)

Refer to the installation manual for eco touch remote control to activate the infrared sensor (motion sensor).
 TOP screen Menu ⇒ Service setting ⇒ Installation settings ⇒ Service password

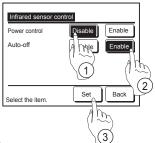






- Refer to the installation manual for eco touch remote control to set control mode.
- Infrared sensor (motion sensor) control (for IUs with motion sensors)

 Presence of humans and the amount of motion are detected by a motion sensor to perform various controls.
- When the R/C is set as the sub R/C, the infrared sensor (motion sensor) control cannot be set.



Tap the Menu button on the TOP screen and select Energy-saving setting
⇒ Infrared sensor control or Motion sensor control.

The Infrared sensor control screen and contents of the current settings are displayed.

- 1) Enable/disable power control.
- ② Enable/disable auto-off.
- 3 After you set each item, tap the Set button. The display returns to the Energy-saving setting menu screen.

Control setting (from wireless remote control)

Refer to the installation manual for wireless remote control to enable motion sensor in Indoor function settings

Indoor function settings

- 1. How to set indoor functions
 - ① Press the ON/OFF button to stop the unit.
 - ② Press the desired one of the buttons shown item **2**. while holding down the FUNCTION SETTING switch.
 - ③ Use the selection buttons, ▲ and ▼, to change the setting.
 - 4) Press the SET button.

The buzzer on the remote control signal receiver beeps twice, and the LED lamp flashes four times at two-second intervals.



2. Setting details

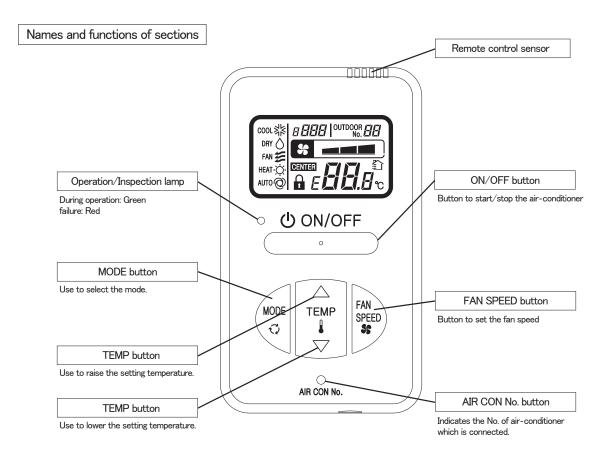
Button	Number indicator	Function setting
SILENT	00	Infrared sensor setting (Motion sensor setting) : Disable
SILLINI	01	Infrared sensor setting (Motion sensor setting) : Enable
	00	Infrared sensor control (Motion sensor control) : Disable
HI POWER	01	Infrared sensor control (Motion sensor control): Power control only
HIPOWER	02	Infrared sensor control (Motion sensor control) : Auto OFF only
	03	Infrared sensor control (Motion sensor control): Power control and Auto OFF

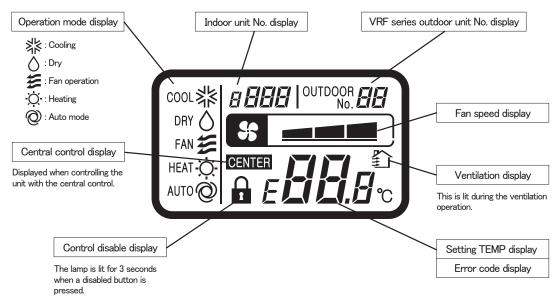
3.3 SIMPLE WIRED REMOTE CONTROL (RCH-E3)

Note:

Following functions of FDU indoor unit series are not able to be set with this simple wired remote control (RCH-E3).

1. 4-fan speed setting (P-Hi/Hi/Me/Lo) → 3-fan speed setting (Hi/Me/Lo)





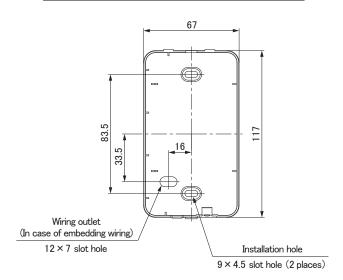
Installation of remote control

Do not install the remote control at the following places in order to avoid malfunction.

- (1) Places exposed to direct sunlight
- (2) Places near heat devices
- (3) High humidity places
- (4) Hot surface or cold surface enough to generate condensation
- (5) Places exposed to oil mist or steam directly
- (6) Uneven surface

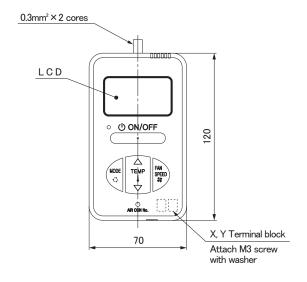
PJZ000Z272

Remote control installation dimensions

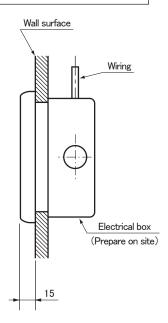


Note: Installation screw for remote control M4 screw (2 pieces)

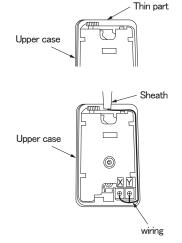
In case of exposing wiring



In case of embedding wiring

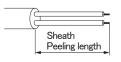


The remote control wiring can be extracted from the upper center. After the thin part in the upper side of the remote control upper case is scraped with a nipper or knife, remove burr with a file.



The peeling length of each wiring is as follows:

X wiring : 160mm Y wiring : 150mm



Wiring specifications

- (1) Wiring of remote control should use $0.3 \text{mm}^2 \times 2$ cores wires or cables. (on–site configuration)
- (2) Maximum prolongation of remote control wiring is 600m.

If the prolongation is over 100m, change to the size below.

But, the wiring in the remote control case should be 0.3mm^2 (recommended) to 0.5mm^2 .

Change the wire size outside of the case according to wire connecting. Waterproof treatment is necessary at the wire connecting section. Be careful about contact failure.

Length	Wiring thickness
100 to 200m	0.5mm² × 2 cores
Under 300m	0.75mm ² × 2 cores
Under 400m	1.25mm² × 2 cores
Under 600m	2.0mm ² × 2 cores

Unit:mm

Adapted to **RoHS** directive

Simple Remote Control Installation Manual

PJZ012D069 A

Read together with indoor unit's installation manual.

<u>∧</u>WARNING

• Fasten the wiring to the terminal securely and hold the cable securely so as not to apply unexpected stress on the terminal.

Loose connection or hold will cause abnormal heat generation or fire.

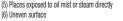
Make sure the power source is turned off when electric wiring work. Otherwise, electric shock, malfunction and improper running may occur.

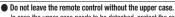


⚠ CAUTION

Do not install the remote control at the following places in order to avoid malfunction.

- (1) Places exposed to direct sunlight
- (4) Hot surface or cold surface enough to generate condensation
- (2) Places near heat devices (3) High humidity places
- (5) Places exposed to oil mist or steam directly





In case the upper cace needs to be detached, protect the remote control with a packaging box or bag in order to keep it away from water and dust.



Accessories	Remote control, wood screw (ϕ 3.5 \times 16) 2 pieces	
Prepare on site	Remote control cord (2 cores) (Refer to [2. Installation and wiring of remote control]) [In case of embedding cord] Electrical box, M4 screw (2 pieces) [In case of exposing cord] Cord clamp (if needed)	

1. Installation procedure

In case of embedding cord

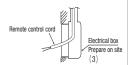
(1) Make certain to remove the screw on the bottom surface of the remote control



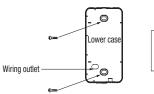
(2) Remove the upper case of the remote control. Insert a flat-blade screwdriver to a concave portion of the bottom surface of the remote control and slightly twist it, and the case is

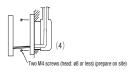


(3) Pre-bury the electrical box and remote control cord.



(4) Prepare two M4 screws (recommended length: 12 - 16mm), and install the lower case to the electrical box. Do not use a screw whose screw head is larger than the height of the wall around the screw hole.





- (5) Connect the remote control cord to the terminal block. Connect the terminals (X and Y) of the remote control and the terminals (X and Y) of the indoor unit. (No polarity of X and Y)
- (6) Mount the upper case for restoring to its former state so as not to crimp the remote control cord, and secure with the removed screw.

In case of exposing cord

Make certain to remove a screw on the bottom surface of the



(2) Remove the upper case of the remote control. Insert a flat-blade screwdriver to a concave portion of the bottom surface of the remote control and slightly twist it and the case is removed.

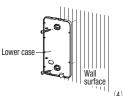


(3) The remote control cord can be extracted from the

After the thin part in the upper side of the remote control upper case is scraped with a nipper or knife, remove burr with a file.



(4) The lower case of the remote control is mounted to a flat wall with two accessory wood screws.



(5) Connect the remote control cord to the terminal block Connect the terminals (X and Y) of the remote control and the terminals (X and Y) of the indoor unit. (No polarity of X and

The wiring route is as shown in the right.



The wiring in the remote control case should be 0.3 mm² (recommended) to 0.5 mm² at maximum.

Further, peel off the sheath.

The peeling length of each wiring is as follows:

X wiring: 160mm Y wiring: 150mm



- (6) Mount the upper case for restoring to its former state so as not to crimp the remote control cord, and secure with the removed screw.
- In the case of exposing installation, secure the remote control cord to the wall surface with a cord clamp so as not to loosen the remote control cord

2. Installation and wiring of remote control

- (1) Wiring of remote control should use 0.3mm² × 2 cores wires or cables, (on-site configuration)
- (2) Maximum prolongation of remote control wiring is 600 m.

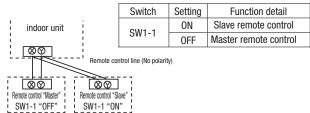
If the prolongation is over 100m, change to the size below.

But, the wiring in the remote control case should be 0.3mm² (recommended) to 0.5mm². Change the wire size outside of the case according to wire connecting. Waterproof treatment is necessary at the wire connecting section. Be careful about contact failure.

100 - 200m······0.5mm² × 2 cores Under 300m·············0.75mm² × 2 cores Under 400m······1.25mm² × 2 cores Under 600m······2.0mm² × 2 cores

3. Master/ slave setting when more than one remote control are used

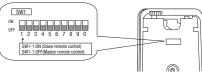
Up to two remote controls can be connected to one unit (or one group) of indoor unit.



(2) Set the switch SW1-1 of the slave remote control is "Slave" (ON). The factory default is set as "Master" (OFF). (Note) • The remote control temperature sensor enabled setting can be set only to the master remote control.

• Install the master remote control at the position to detect room temperature.

• The air-conditioner operation follows the last operation of the remote control in case of the master / slave setting.



4. The indication when power source is supplied

At the time of turning the power source on, after the light is on for the first 2 seconds, the display becomes as shown below.

The number displayed on the upper side of LCD in the remote control is the software number,

and this is not an error code.



Software number

(The number in the left is one example. Another number may be shown.)

- (2) Then, "88.0 °C" blinks on the remote control until the communication between the remote control and the indoor unit is established.
- In the case of connecting one remote control with one unit (or one group) of indoor unit, make certain to set the master remote control (factory default). If the slave remote control is set, a communication cannot be established.
- If a state where the communication between the remote control and the indoor unit cannot be established continues about for 30 minutes, "E" is displayed. Confirm the wiring of the indoor unit and the outdoor unit and master/slave setting of the remote control.



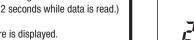
5. Confirmation method for return air temperature

Return air temperature can be confirmed by the remote control operation.

Press AIR CON No. button for over 5 seconds.

"88" blinks on the temperature setting indicator.

("88" blinks for approximately 2 seconds while data is read.)



Then, the return air temperature is displayed. (Example) return air temperature: "27 °C" (blinking)

(Note) For the return air temperature, in the normal case, the return air temperature of the indoor unit is displayed; however, in the case that the remote control temperature sensor is effective, detected temperature by the remote control temperature sensor is displayed.

Press () ON/OFF button. Fnd.

[In the case that the remote temperature sensor is ineffective and plural indoor units are connected to one remote control]

(1) Press AIR CON No. button for over 5 seconds. indoor unit No. indicator: "U 000" (blinking) (Among the connected indoor units, the lowest number is displayed.)



(2) Press TEMP△ or TEMP▽ button. Select the indoor unit No.

Press MODE button.

Dectder the indoor unit No.

(Example) indoor unit No. indicator: "U 000"

"88" blinks on the temperature setting indicator. (blinking for approximately 2 to 10 seconds while data is read) Then, the return air temperature is displayed. When AIR CON No. is pressed, return to the indoor unit selection display (example, "U 000").

Press ON/OFF button. End.

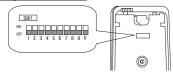
6. Function setting

Each function of the remote control and the indoor unit is automatically set to the initial setting, which is the standard use, on the occasion of connecting the remote control with the indoor unit. In the case of the standard use, the setting change is unnecessary. However, if you whould like to change the initial setting "O", change the setting for only the item of the function number. Record the setting contents and stored them.

(1) Function setting item by switch on PCB

Switch No.	Setting	Setting detail	Initial setting
SW1-1	ON	Slave remote control	
OFF OFF		Master remote control	0
SW1-2	ON	Remote control temperature sensor enabled	
3W1-2	0FF	Remote control temperature sensor disabled	0
SW1-3	ON	"MODE" button prohibited	
3W1-3	0FF	"MODE" button enabled	0
SW1-4 ON		"ON/OFF" button prohibited	
3W1-4	0FF	"ON/OFF" button enabled	0

Switch No.	Setting	Setting detail Initial set	
SW1-5	ON	"TEMP" button prohibited	
OFF OFF		"TEMP" button enabled	0
SW1-6	ON	"FAN SPEED" button prohibited	※ Note 1
5W1-6	0FF	"FAN SPEED" button enabled	፠ Note 1
SW1-7	ON	Auto restart function enabled	
3W1-7	0FF	Auto restart function disabled	0
SW1-8, 9, 0	ON	Not used	
5W1-8, 9, 0 OFF		NOT USEU	



- As for the slave remote control, function setting is impossible other than SW1-1.
- In the indoor unit with only one fan speed, "FAN SPEED" button cannot

(2) Function setting item by button operation

Classification	Function No.	Function	Setting No.	Setting	Initial setting	Remarks
			01	Fan speed: three steps	፠ Note 1	The fan speed is three steps, \$\$ == 1 - \$\$ = 1.
	01 Indoor unit fan spe	Indoor unit fan speed	02	Fan speed: two steps (Hi-Lo)	※ Note 1	The fan speed is two steps, \$ ■■■ - \$ ■.
	01 Illuuur unit tan speeu		03	Fan speed: two steps (Hi-Me)		The fan speed is two steps, * == - * == .
		04	Fan: one step	※ Note 1	The fan speed is fixed to one step.	
			01	Remote control temperature sensor: no offset	0	
			02	Remote control temperature sensor: +3.0 °C		At the time of cooling, in the case of remote control temperature sensor enabled, offset temperature at +3.0°C.
		Remote control	03	Remote control temperature sensor: +2.0 °C		At the time of cooling, in the case of remote control temperature sensor enabled, offset temperature at +2.0°C.
	03	thermistor at the time	04	Remote control temperature sensor: +1.0 °C		At the time of cooling, in the case of remote control temperature sensor enabled, offset temperature at +1.0°C.
		of cooling	05	Remote control temperature sensor: -1.0 °C		At the time of cooling, in the case of remote control temperature sensor enabled, offset temperature at -1.0°C.
			06	Remote control temperature sensor: -2.0 °C		At the time of cooling, in the case of remote control temperature sensor enabled, offset temperature at -2.0°C.
Remote			07	Remote control temperature sensor: -3.0 °C		At the time of cooling, in the case of remote control temperature sensor enabled, offsett temperature at -3.0°C.
control			01	Remote control temperature sensor: no offset	0	
function			02	Remote control temperature sensor: +3.0 °C		At the time of heating, in the case of remote control temperature sensor enabled, offset temperature at +3.0°C.
		Remote control	03	Remote control temperature sensor: +2.0 °C		At the time of heating, in the case of remote control temperature sensor enabled, offset temperature at +2.0°C.
	04	thermistor at the time	04	Remote control temperature sensor: +1.0 °C		At the time of heating, in the case of remote control temperature sensor enabled, offset temperature at +1.0°C.
		of heating	05	Remote control temperature sensor: -1.0 °C		At the time of heating, in the case of remote control temperature sensor enabled, offset temperature at -1.0°C.
			06	Remote control temperature sensor: -2.0 °C		At the time of heating, in the case of remote control temperature sensor enabled, offset temperature at -2.0°C.
			07	Remote control temperature sensor: -3.0 °C		At the time of heating, in the case of remote control temperature sensor enabled, offset temperature at -3.0°C.
			01	No ventilator connection	0	
	05	Ventilation setting	02	Ventilator links air-conditioner		In case of Single split series, by connecting ventilation device to CNT of the indoor printed circuit board (in case of VRF series, b connecting it to CND of the indoor printed circuit board), the operation of ventilation device is linked with the operation of indoor unit.
	06	"Auto" operation	01	"Auto" operation enabled	※ Note 1	
	00	setting	02	"Auto" operation disabled		"Auto" operation disabled
	07	Operation permission/	01	Disabled	0	
	07	prohibition	02	Enabled		Operation permission/prohibition control is enabled.
	08	External input	01	Level input	0	
	00	External input	02	Pulse input		
			01	Standard	※ Note 2	
	09	Fan speed setting	02	High speed 1	※ Note 2	
			03	High speed 2	※ Note 2	
		Fan annalaina	01	No remaining operation	0	After cooling stopped, no fan remaining operation
	10	Fan remaining operation at the time	02	0.5 hours		After cooling stopped, fan remaining operation for 0.5 hours
	10	of cooling	03	1 hour		After cooling stopped, fan remaining operation for 1 hour
		5	04	6 hours		After cooling stopped, fan remaining operation for 6 hours
		Fan remaining	01	No remaining operation	0	After heating stopped or after heating thermostat OFF, no fan remaining operation
	11	operation at the time	02	0.5 hours		After heating stopped or after heating thermostat OFF, fan remaining operation for 0.5 hours
		of heating	03	2 hours		After heating stopped or after heating thermostat OFF, fan remaining operation for 2 hours
Indoor unit		·	04	6 hours		After heating stopped or after heating thermostat OFF, fan remaining operation for 6 hours
function		Setting temperature	01	No offset	0	
	12	offset at the time of	02	Setting temperature offset + 3.0 °C		The setting temperature at the time of heating is offset by +3.0 °C.
	12	heating	03	Setting temperature offset + 2.0 °C		The setting temperature at the time of heating is offset by +2.0 °C.
		5	04	Setting temperature offset + 1.0 °C		The setting temperature at the time of heating is offset by +1.0 °C.
			01	Low fan speed	※ Note 1	At the time of heating thermostat OFF, operate with low fan speed.
		L	02	Setting fan speed		At the time of heating thermostat OFF, operate with the setting fan speed.
	13	Heating fan controller	03	Intermittent operation	፠ Note 1	At the time of heatingr thermostat OFF, intermittently operate.
			04	Fan off		At the time of heating thermostat OFF, a fan will be stopped. When the remote control thermistor is enabled, automatically set to "Fan off". Do not set at the time of the indoor unit temperature senso
			01	No offset	0	
			02	Return air temperature offset +2.0 °C		Offset the return air temperature of the indoor unit by +2.0 °C.
	B	Return air temperature	03	Return air temperature offset +1.5 °C		Offset the return air temperature of the indoor unit by +1.5 °C.
	14	offset	04	Return air temperature offset +1.0 °C		Offset the return air temperature of the indoor unit by +1.0 °C.
		5501	05	Return air temperature offset -1.0 °C		Offset the return air temperature of the indoor unit by -1.0 °C.
			06	Return air temperature offset -1.5 °C		Offset the return air temperature of the indoor unit by -1.5 °C.
		1	07	Return air temperature offset -2.0 °C		Offset the return air temperature of the indoor unit by -2.0 °C.

Note 1: The symbol " 💥 " in the initial setting varies depending upon the indoor unit and the outdoor unit to be connected, and this is

automatically dete	automatically determined as follows:					
Swith No. Function No.	Function	Setting	Product model			
	"FAN SPEED"	"FAN SPEED" button prohibited	Product model whose indoor fan speed is only one step			
SW1-6	button	"FAN SPEED" button enabled	Product model whose indoor fan speed is two steps or three steps			
		Fan speed: three steps	Product model whose indoor unit fan speed is three steps			
Remote control function 01	Indoor unit fan	Fan speed: two steps (Hi-Lo)	Product model whose indoor unit fan speed is two steps			
hemote control function of	speed	Fan speed: two steps (Hi-Me)				
		Fan: one step	Product model whose indoor unit fan speed is only one step			
Remote control function 06	"Auto" operation	"Auto" operation enabled	Product model where "Auto" mode is selectable			
nemote control function of	setting	"Auto" operation disabled	Product model without "Auto" mode			
Indoor unit function 13	Heating fan	Low fan speed	Product model except FDUS			
illuuut ullit lulletioli 13	control	Intermittent operation	FDUS			

Note 2. I all speed of	riigii apeeu aettiiig		
Indoor unit fan speed setting			
Fan speed setting	50 mmil - 50 mm - 50 m	30 mm m - 30 m	50 mm m - 50 mm
Standard	Hi — Mid — Lo	Hi — Lo	Hi — Mid
High speed 1 · 2	UHi — Hi — Mid	UHi — Mid	UHi — Hi

Initial setting of some indoor unit is "High speed".

Note 3: As for plural indoor unit, set indoor functions to each master and slave indoor unit.

But only master indoor unit is received the setting change of indoor unit function "07 Operation permission/ prohibition" and "08 External input".

7. How to set functions by button operation

(1) Stop air-conditioner, and simultaneously press AIR CON No. and 7 MODE buttons at the same time for over three seconds.

The function number "01" blinks in the upper right.



(2) Press $\boxed{\text{TEMP}} \triangle$ or $\boxed{\text{TEMP}} \bigcirc$ button. Select the function number.

(3) Press MODE button. Decide the function number.

(4) [In the case of selecting the remote control function (01-06)]

① The current setting number of the selected function number blinks

Function number: "01" (lighting) Setting number: "01" (blinking)



② Press TEMP or TEMP Select the setting number.

③ Press **₹ MODE** button.

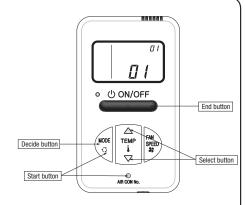
The setting is completed.

Light is on for approximately 3 to 20 seconds while data of the decided function No. and setting No. is transmitted. (Example)

Function number: "01" (lighting for 3 to 20 seconds) Setting number: "01" (lighting for 3 to 20 seconds)



Then, the screen goes back to the function number blinking indication (1), if the setting is sequentially conducted, continue with the same procedures. If the setting is finished, proceed to (5) .



[In the case of selecting the indoor unit function (07-14)]

① "88" blinks on the temperature setting indicators.

(blinking for approximately 2 to 10 seconds while data are read)

After that, the current setting number of the selected function number blinks. (Example)

Function number: "07" (lighting) Setting number: "01" (blinking)



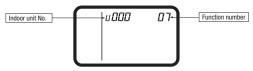
Proceed to (2).

[Note]

a. In the case of connecting one remote control to plural indoor units, the display will be as follows:

Indoor unit No. display: "U 000" (blinking)

(Display the lowest number among the connected indoor units.)



b. Press $\boxed{\text{TEMP} \triangle}$ or $\boxed{\text{TEMP} \nabla}$ button.

Select the indoor unit No. to be set.

If "U ALL" is selected, the same setting can be set to all units.

c. Press MODE button.

Decide the indoor unit No.

"88" blinks on the temperature setting indicators. (blinking for 2 to 10 seconds while data

When AIR CON No. button is pressed, go back to the indoor unit selection display (for example, "U 000" blinking).

$\begin{tabular}{ll} \hline 2 \\ \hline \end{tabular} \begin{tabular}{ll} \hline TEMP \triangle \\ \hline \end{tabular} \begin{tabular}{ll} \hline \end{tabular} \begin{tab$

Select the setting number

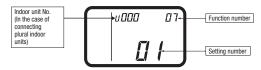
3 Press MODE button

The setting is completed.

Light is on for approximately 3 to 20 seconds while data of the decided function No. and setting No. is transmitted.

(Example)

Indoor unit No.: "U 000" (lighting for 3 to 20 seconds) Function number: "07" (lighting for 3 to 20 seconds) Setting number: "01" (lighting for 3 to 20 seconds)



Then, the screen goes back to the function number blinking indication (1), if the setting is sequentially conducted, continue with the same procedures. If the setting is finished, proceed to (5).

(5) Press ON/OFF button. The setting is completed.

• Even if 🖰 ON/OFF button is pressed during setting, the setting is ended. However, any details where the setting has not been completed will be ineffective.

· The setting contents are stored in the control, and even if the power failure occur, this will not be lost.

[Confirmation method for current setting]

According to the operation, the "setting number" displayed first after selecting "function number" and pressing TMODE button is the currently set content. (However, in the case of selecting "U ALL" (all units), the setting number of the lowest number among the indoor units is displayed.)

3.4 OA SPACER (FDTC series)

This manual describes the installation methods for OA spacer (TC-OAS-E2) and the duct joint (TC-OAD-E).
©This OA spacer is designed for assembling on the indoor unit (FDTC Series), not for be using independently.

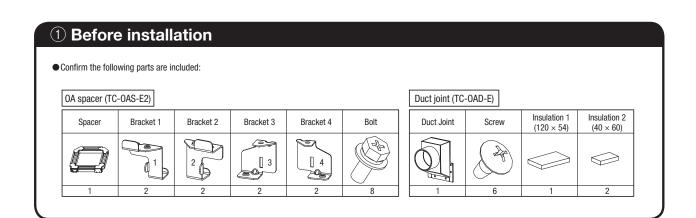


Application model	FDTC15-56KXZE1 FDTC25-60VH
	151020 00111

OPrepare the duct (size: Ø75) and the booster fan at site.

OFor the installation of indoor unit, refer to the installation manual attached to the indoor unit.

SAFETY PRECAUTIONS Read the "SAFETY PRECAUTIONS" carefully first of all and then strictly follow it during the installation work in order to protect yourself. **.** WARNING • Installation should be performed by the specialist. ! If you install the unit by yourself, it may lead to serious trouble such as water leakage, electric shock, fire, and injury due to overturn of the unit. • Install the system correctly according to these installation manuals. Improper installation may cause explosion, injury, water leakage, electric shock, and fire. • Use the genuine accessories and the specified parts for installation. If parts unspecified by our company are used it could cause water leakage, electric shock, fire, and injury due to overturn of the unit. • Turn off the power source during servicing or inspection work. If the power is supplied during servicing or inspection work, it could cause electric shock and injury by the operating fan. • Shut off the power before electrical wiring work. It could cause electric shock, unit failure and improper running. **∕**!\CAUTION • Do not install and use the unit where corrosive gas (such as sulfurous acid gas etc.) or flammable gas (such as thinner, petroleum etc.) may be generated or accumulated, or volatile flammable substances are handled. It could cause the corrosion of heat exchanger, breakage of plastic parts etc. And inflammable gas could cause fire.



② Prior study before installation (Usage limitation)

(1) Temperature conditions for OA spacer

- · Adjust the temperature conditions of mixed air with outdoor air and indoor air within the usage range of suction air temperature for the air-conditioner.
- · The usage temperature conditions of intake outdoor air and indoor air around the ducts are shown in the following table.
- · If the temperature conditions of intake outdoor air do not meet, process the outdoor air before intaking.

Oneration made	Usage temperature conditions				
Operation mode	Intake outdoor air	Indoor air around the ducts			
In heating	5°C DB or higher	18.5°C WB or lower and 60% RH or lower			
In cooling	29°C DB or lower and 80% RH or lower	20°C DB or higher			

(2) Intake outdoor air volume

· Intake outdoor air volume is 3.0 m³/min at the maximum (when two sets of duct joints are used). Up to two sets of duct joint can be installed on OA spacer.

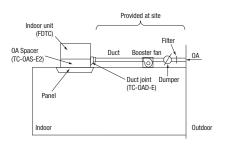
In case one set of duct joint is installed: 1.5 m³/min max.

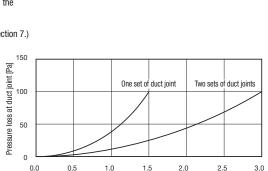
In case two sets of duct joint is installed: 3.0 m3/min max.

· Select the booster fan based on the duct resistance plus the pressure loss at the duct joint. (See the figure)

(4) Other conditions

- ${\boldsymbol{\cdot}}$ Determine the capacity of air conditioner based on the calculation of air-conditioning load including the heat load of intake outdoor air.
- · Install the filter for the intake outdoor air and the reverse flow prevention dumper during the duct work at site.
- · Insulate the duct and duct joint in order to prevent dewing.
- · Interlock the operation of booster fan with ON/OFF operation of the indoor unit. (See Section 7.)





Introduced outdoor air volume [m³/min]

(TC-OAS-F2)

(Suspension bolts pitch)

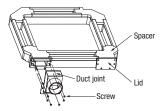
175

Control box

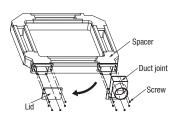
325

③ Installation of duct joint (TC-OAD-E) onto OA spacer ·There are two places where the duct joint can be installed. When installing one duct joint

Install OA spacer at either one of two installation places on the duct joint.

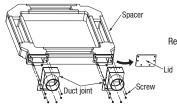


To install the duct joint, screw it in as shown at left.



When installing the duct joint at the lid side, remove the lid and reinstall it at the other end before installing the duct joint.

When installing two duct joints



Remove the lid and then install two pieces of duct joint.

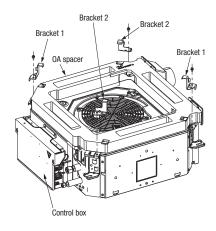
(4) Installation of OA spacer on the indoor unit

OA spacer can be installed regardless whether the indoor unit has already been hanged or not. (It is recommended to install before hanging the unit for convenience of installation.)

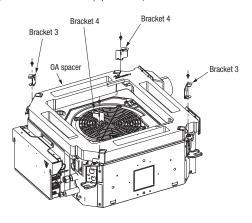
1-1. When installing OA spacer before hanging the indoor unit

① Placing OA spacer on the indoor unit, fix the brackets 1 and 2 (2 pieces each) with bolts.

Install OA spacer in the appropriate position that the duct joint side of OA spacer becomes opposite to the control box of indoor unit (FDTC).



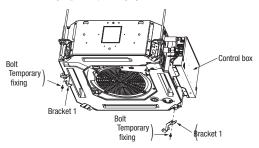
② Fix the brackets 3 and 4 (2 pieces each) with bolts.



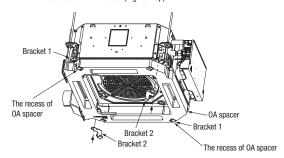
1-2. When installing OA spacer after hanging the indoor unit

① After hanging the indoor unit (*), fix the bracket 1 (2 pieces) temporarily with bolt by 2 turns as shown in the figure.

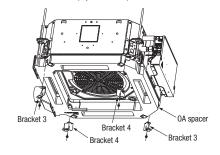
* For the height (position) of hanging the indoor unit, refer to Section 5.



- ② Install OA spacer.
 - i. Install it in the way that the recess of OA spacer will fit on the bracket 1 fixed temporarily at the step ①.
 - ii. Tighten the bolt of bracket 1.
 - iii. Fix the bracket 2 with bolt. (Tighten up)



③ Fix the brackets 3 and 4 (2 pieces each) with bolts.

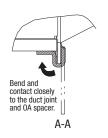


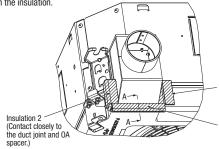
2. Applying insulation

Applying the insulation attached to duct joint set (TC-OAD-E)

- ① Applying the insulation 1 as shown in the figure.
- 2 Applying the insulation 2 as shown in the figure.

* Be sure to cover the entire surface of sheet metal of the duct joint with the insulation.





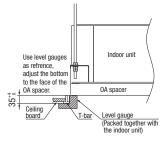
Insulation 2 (Contact closely to the duct joint and OA spacer.)

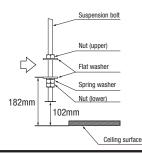
Insulation 1 (See section A-A.)

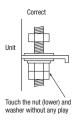
(5) Installation of indoor unit

Work procedure

- 1. This units is designed for 2 \times 2 grid ceiling.
 - If necessary, please detach the T bar temporarily before you install it.
 - If it is installed on a ceiling other than 2×2 grid ceiling, provide an inspection port on the control box side.
- 2. Arrange the suspension bolt at the right position (530mm530mm).
- 3. Make sure to use four suspension bolts and fix them so as to be able to hold 500N load.
- 4. Ensure that the lower end of the suspension bolt should be 102mm above the ceiling plane. Temporarily put the four lower nuts 182mm above the ceiling plane and the upper nuts on distant place from the lower nuts in order not to obstruct hanging the indoor unit or adjust the indoor unit position, and then hang the indoor unit.
- 5. Adjust the indoor unit position after hanging it by inserting the level gauge (Packed together with the indoor unit.) attached on the package into the air supply port and checking if the gap between the ceiling plane and the indoor unit is appropriate. (*) In order to adjust the indoor unit position, adjust the lower nuts while the upper nuts are put on distant place. Conrm there is no backlash between the hanger plate for suspension bolt and the lower nut and washer.
 - * Use the level gauge only when OA spacer has been installed before hanging (4 1-1 only).

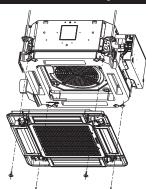








6 Installation of panel



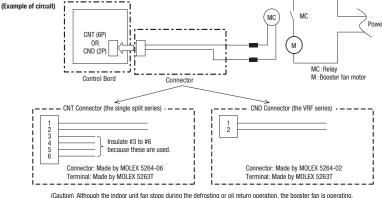
Tighten the panels to the brackets 3 and 4 with bolts. For further details, refer to the installation manual of panel.

(Caution) Connect the connector of lover motor within the control box.

Interlocking with the indoor unit fan

©Connect the Single split series and the VRF series to CNT on the indoor PCB and to CND on the indoor PCB respectively. If a ventilation device is connected been geared with the motion of indoor device (ON: DC12V output, OFF: 0V output), the ventilation device is operated/stopped.

Set it at "VENT LINK" by selecting "No. 11 VENT LINK SET" from the functional setting by remote control. For details, refer to the "ELECTRIC WIRNG WORK INSTRUCTION" of indoor unit.



Use a total heat exchanger, if necessary.

3.5 DUCT JOINT (FDTC series)

PJZ012D073A

• This product is used by assembling on the spacer (TC-OAS-E2)

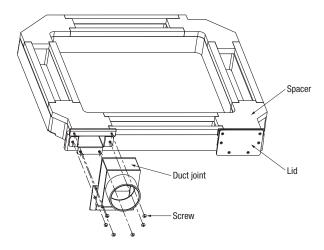
1.Before installation

• Confirm the following parts are included:

Duct joint	Screw	Insulation 1 (120 × 54)	Insulation 2 (40 × 60)
1	6	1	2

2.Regarding the use of this product

- \bullet Fix the product on the spacer (TC-0AS-E2) as shown below.
- For the installation method, refer to the installation manual of the spacer.



3.6 FILTER KIT (FDUM series)

PJZ012D076AA

This manual contains installation points and operating instructions for the filter kit manufactured by MHI. Carry out the work following the instructions below.

This manual also contains information on the usage after installation,

so keep this manual properly with USER'S MANUAL provided with the indoor unit.

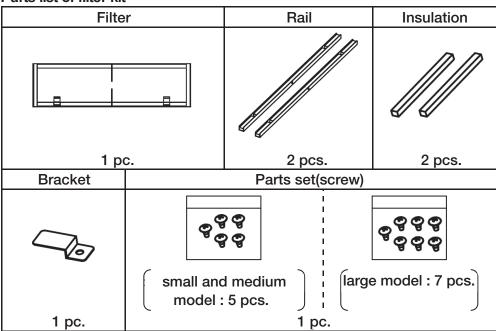
CAUTION

- · After unpacking, carry out this work on the ground.
- Do not carry out the work during operation, or there is a danger of being entangled in the rotating parts and getting injured.
- · Clean the air filter regularly.
- · Be sure to entrust qualified serviceman to performance on the air filter.
- · Be sure to cut off the power and stop the unit before performing maintenance.

1. Table of filter kit parts No. and corresponding object models

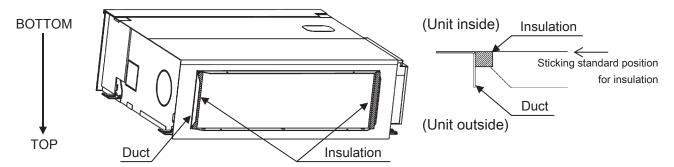
	Small model	Medium model	Large model
Single type	40, 50	60, 71	100 - 140
Multi type	22 - 56	71, 90	112 - 160
Filter Kit	UM-FL1EF	UM-FL2EF	UM-FL3EF

2. Parts list of filter kit

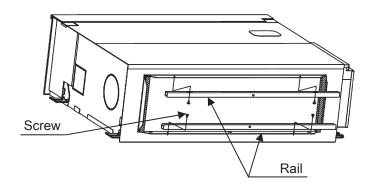


3. Installation Points

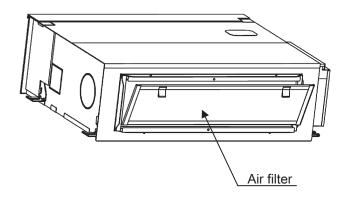
(1) Stick the insulation on both inner sides of the duct, leaving no space up and down.



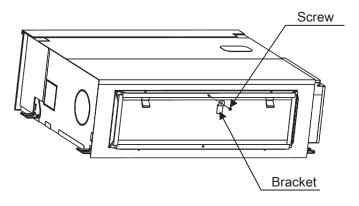
- (*) After unpacking, bottom side of the unit is located at the upper side.
- (2) Install the rail on both inner sides of the duct with the screw.

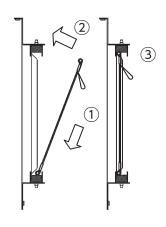


(3) Install the air filter on the rails.



(4) Install the bracket on the rail with the screw.





Installation procesure

(**) When the unit is installed, bottom side of the unit is located at the lower side.

3.7 BASE HEATER KIT (CW-H-E1)

PCZ012D007A

Model Name: CW-H-E1

WARNING

- Follow the instruction and installation manual for outdoor unit when installing the heater.
- This heater must be installed by authorized personnel.
- Turn off the power source when the kit is installed.
- Failure to follow the above will result in serious accident like electrical shock or fire.

AREAS TO BE APPLIED

This kit is to be used in an area where the lowest temperature drops below zero.

the unit which is installed in an area mentioned above, it may be regarded as installation failure and warranty may not be given.

⚠ CAUTION

- Follow the law or regulation of the country where it is installed.
- Do not alter the heater.
- Lay down the heater so that the edge of the sheet metal does not damage the heater.
- Bending radius must be bigger than 25mm.
- Do not use the heater near flammable substances.
- Be sure to check the electrical insulation before
- Be sure to check the drain is not trapped by the heater.
- Do not leave refrigerant oil on the base.

Components

Heater : 1 pc. Bracket A : 4 pcs. Bracket B : 1 pcs. Bracket C : 1 pcs.

Tapping screw (OD5) : 4 pcs. Tapping screw (OD4) : 4 pcs. • Plastic band with clip : 2 pcs. Plastic band

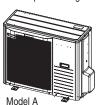
Tapping screw (OD5) Tapping screw (OD4)

Bracket A

Applicable model

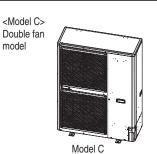
This heater kit is applicable for 3 different models.

Single fan with plastic fan guard model



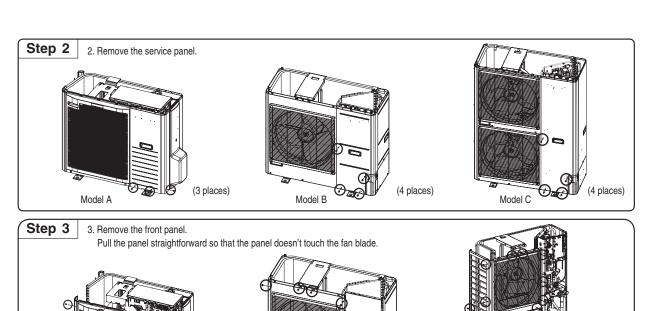


: 5 pcs.

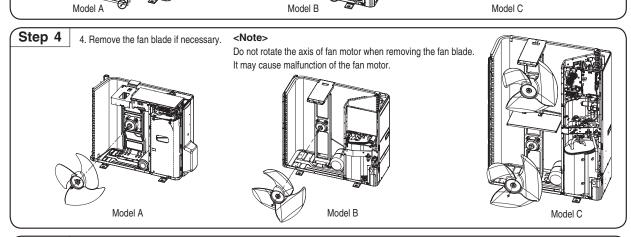


Installation procedure

Step 1 (11 places) 1. Remove the top panel of the outdoor unit. (11 places) (6 places) Model A Model B Model C

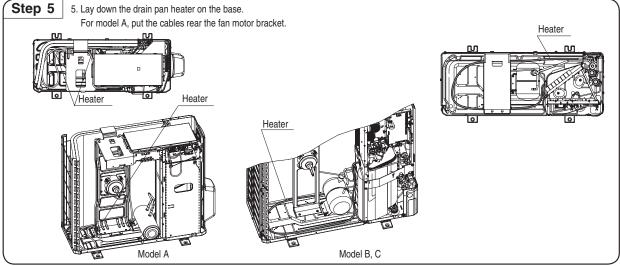


(16 places)

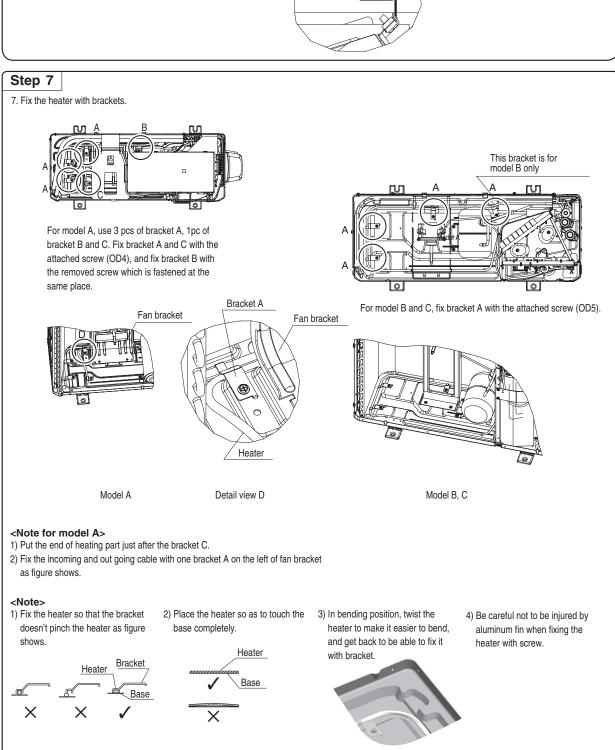


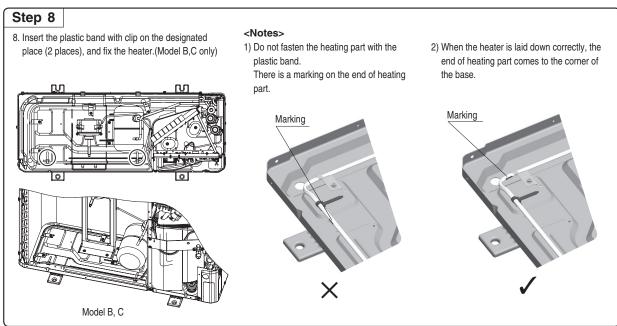
(11 places)

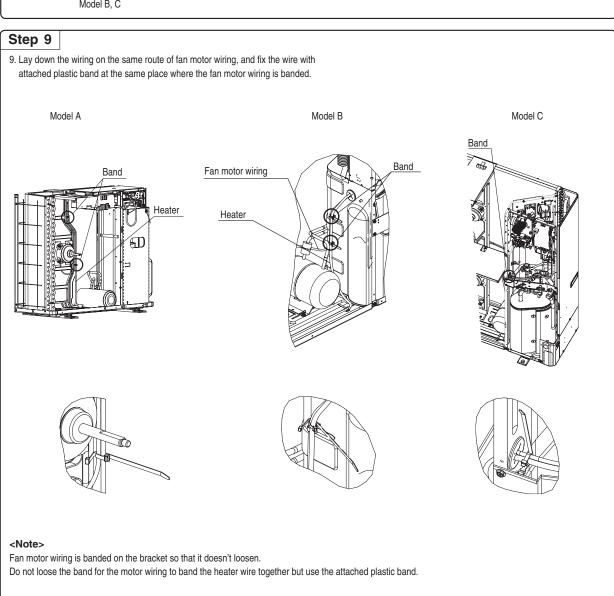
(7 places)

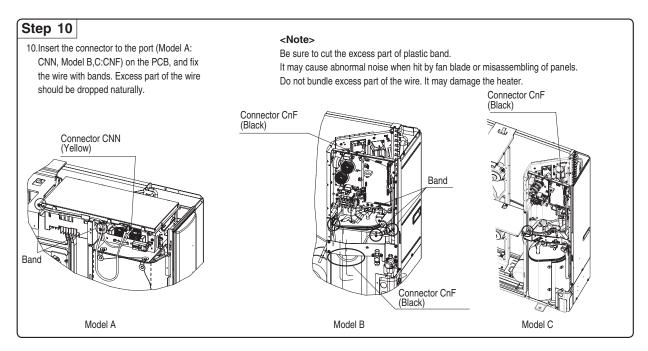


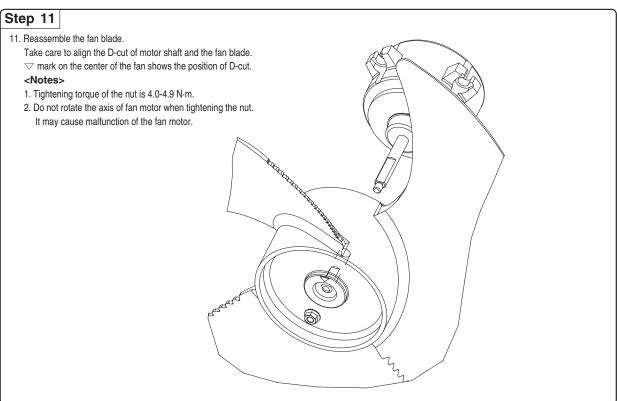
Step 6 6. Put the heater underneath the heat exchanger and align the end of heater with the end plate of heat exchanger. End of heater End plate of heat exchanger





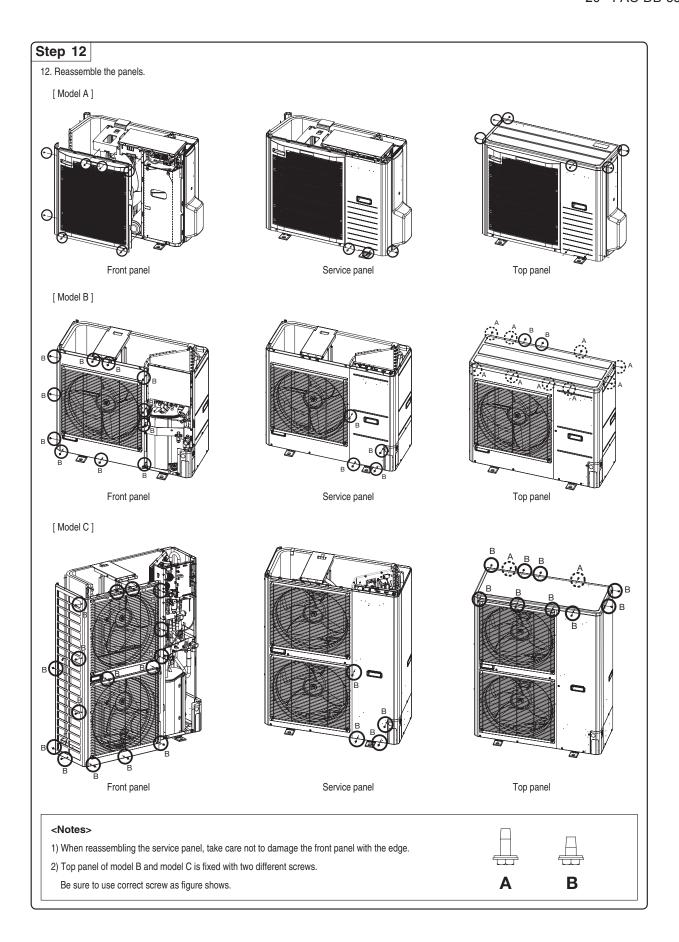






<Notes>

- This heater should have bending radius of at least 25mm including non-heating part. Do not bundle the excess part of the wire. It may cause
 disconnection of the heater or insufficient capacity.
- Be sure to prevent the heater from touching any refrigerant piping.
 Especially, pay close attention not to make it touch with pipes which are close to the wiring route such as suction pipe, check valve and check joint.



3.8 INTERFACE KIT (SC-BIKN2-E)

* When RC-EX3A is connected, please use SC-BIKN2-E by all means.

RKZ012A099

Accessories included in package

Be sure to check all the accessories included in package.

No.	Part name	Quantity
1	Indoor unit's connection cable (cable length: 1.8m)	1
2	Wood screws (for mounting the interface: ø4x 25)	2
3	Tapping screws (for the cable clump and the interface mounting bracket)	3
4	Interface mounting bracket	1
⑤	Cable clamp (for the indoor unit's connection cable)	1
6	CnT terminal connection cable (total cable length: 0.5m)	1

Safety precautions

Before use, please read these Safety precautions thoroughly before installation

● All the cautionary items mentioned below are important safety related items to be taken into consideration, so be sure to observe them at all times.

Incorrect installation could lead to serious consequences such as death, major injury or environmental destruction.

Symbols used in these precautions



Always go along these instruction.

● After completed installation, carry out trial operation to confirm no anomaly, and ask the user to keep this installation manual in a good place for future reference.

Æ

Warnings



- ●Installation must be carried out by a qualified installer.
- If you install it by yourself, it may cause an electric shock, fire and personal injury, as a result of a system malfunction.
- ■Install it in full accordance with the installation manual.

Incorrect installation may cause an electric shock, fire and personal injury.

● Electrical work must be carried out by a qualified electrician in accordance with the technical standard for electrical equipment, the indoor wiring standard and this installation manual.

Incorrect installation may cause an electric shock, fire and personal injury.

Use the specific cables for wiring. And connect all the cables to terminals or connectors securely and clamp them with cable clamps in order for external forces not to be transmitted to the terminals directly.

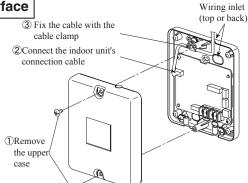
Incomplete connection may cause malfunction, and lead to heat generation and fire.

●Use the original accessories and specified components for installation.

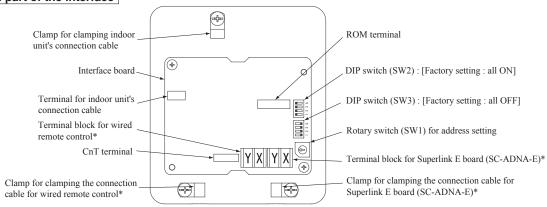
If the parts other than those prescribed by us are used, it may cause an electric shock, fire and sersonal injury.

Connecting the indoor unit's connection cable to the interface

- (1) Remove the upper case of the interface.
- Remove 2 screws from the interface casing before removal of upper casing. ②Connect the indoor unit's connection cable to the interface.
- Connect the connector of the indoor unit connection cable to the
- connector on the interface's circuit board.
- (3) Fix the indoor unit's connection cable with the cable clamp.
 - Cable can be brought in from the top or from the back.
 - · Cut out the punch-outs for the connection cables running into the casing with cutter.
- (4) Connect the indoor unit's connection cable to the indoor control PCB.
 - Connect the indoor unit's connection cable to the indoor control PCB securely.
 - Clamp the connection cable to the indoor control box securely with the cable clamp provided as an accessory.
 - Regarding the cable connection to the indoor unit, refer to the installation manual for



Name of each part of the interface



*Either the connection cables of Superlink E board (SC-ADNA-E) or of wired remote control is connectable.

Switch	Setting	Function	Switch	Setting	Function
CN/2 1 ON** CnT level input		SW2-3	ON**	External input (CnT input)	
SW2-1	OFF	CnT pulse input	3 W 2-3	OFF	Operation permission/prohibition (CnT input)
SW2-2	ON**	Wired remote control : Enable	SW2-4	ON**	Annual cooling : Enable***
SW2-2	OFF Wired remote control : Disal		5 W Z-4	OFF	Annual cooling : Disable***

^{**} Factory setting

*** Indoor fan control at low outdoor air temperature in cooling

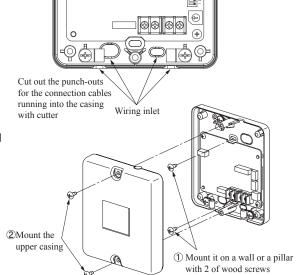
Wiring inlet

Installation of the interface

- Install the interface within the range of the connection cable length (approximately 1.3m) from the indoor unit.
- Be sure not to extend the connection cable on site. If the connection cable is extended, malfunction may occur.
- Fix the interface on the wall, pillar or the like.
- Don't install the interface and wired remote control at the following places.
 - OPlaces exposed to direct sunlight
 - OPlaces near heating devices
 - OHigh humidity places
 - OSurfaces where are enough hot or cold to generate condensation
 - OPlaces exposed to oil mist or steam directly
 - OUneven surface

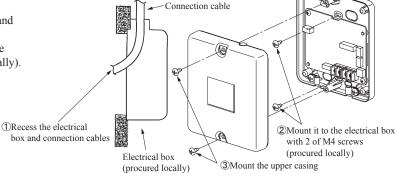
Mounting the interface directly on a wall

- ①Mount the lower casing of the interface on a flat surface with wood screws provided as standard accessory.
- 2 Mount the upper casing.



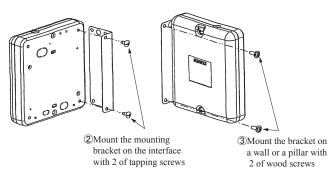
Recessing the interface in the wall

- ①Recess the electrical box (procured locally) and connection cables in the wall.
- ②Mount the lower casing of the interface to the electrical box with M4 screws (procured locally).
- 3 Mount the upper casing.



Mounting the interface with the mounting bracket

- ①Mount the upper casing.
- ②Mount the mounting bracket to the interface with tapping screws provided as standard accessory.
- 3 Mount the mounting bracket on wall or the like with wood screws provided as standard accessory.



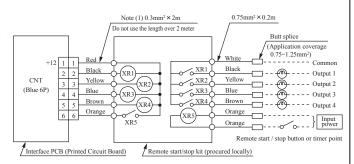
Installation check items

- ☐ Are the connection cables connected securely to the terminal blocks and connectors?
- ☐ Are the thickness and length of the connection cables conformed with the standard?

Functions of CnT connector

It is available to operate the air-conditioner and to monitor the operation status with the external control unit (remote display) by sending the input/output signal through CnT connector on the indoor control PCB.

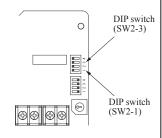
- ①Connect a external remote control unit (procured locally) to CnT terminal.
- ②In case of the pulse input, switch OFF the DIP switch SW2-1 on the interface PCB.
- When setting operation permission/prohibition mode, switch OFF the DIP switch SW2-3 on the interface PCB.



- Output signal Input/ Function Content Output Relay ON/OFF Output 1 Operation output XR₁ ON During air-conditioner operation Output 2 | Heating output XR₂ ON During heating operation Output 3 | Compressor operation output XR_3 ON During compressor running Output 4 Malfunction output XR_4 ON During anomalous stop
- ■XR₁₋₄ are for the DC 12V relay
- XR5 is a DC 12/24V or AC 220-240V relay
- ●CnT connector (local) maker, model

Connector	Molex	5264-06
Terminals	Molex	5263T

Input/		SW2-1			SW2-3			Air-	Operation by
Input/ Output Function	Function	Setting		Setting	Input signal		Contont	conditioner	remote control
Output				Setting	Level/Pulse	XR5	Content	Conditioner	remote control
				ON*		OFF→ON	External input	ON	
		External ontrol nput	N* Level input	ON*	Level	ON→OFF	External input	OFF	Allowed
	D . 1			OFF		OFF→ON	Operation permission	OFF	
Input	control					ON→OFF	Operation prohibition	OFF	Not allowed
	input			ON*	N* Pulse	OFF→ON	OFF→ON External input	OFF→ON	
			OFF Pulse input	ON*				ON→OFF	Allowed
				OFF	: Level l	OFF→ON	Operation permission	ON	
						ON→OFF	Operation prohibition	OFF	Not allowed



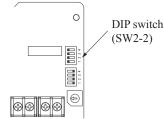
In case of the remote control (RC-EX3 or later model), the external outputs (1-4) and the external input can be changed using the function setting of remote control. For the setting method, refer to the installation manual. Also refer to the technical manual to know how it is adapted to the function setting for the external outputs and input, at the indoor unit side.

Connection of Superlink E board

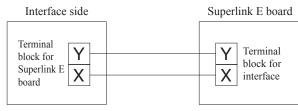
Regarding the connection of Superlink E board, refer to the installation manual of Superlink E board. For electrical work, power source for all of units in the Superlink system must be turned OFF.

①Switch ON the DIP switch SW2-2 (Factory setting: ON) on the interface PCB.

Caution: Wireless remote control attached to the indoor unit can be used in parallel, after connecting the wired remote control. However, some of functions other than the basic functions such as RUN/STOP, temperature setting, etc. may not work properly and may have a mismatch between the display and the actual behavior.



②Wiring connection between the interface and the Superlink E board.



2	Vinyl cabtyre round cord
3	Vinyl cabtyre round cable
4	Vinyl insulated wire vinyl sheathed cable for control
	n 200 m 0.5 mm ² × 2 cores

Names of recommended signal wires

Within 200 m $0.5 \text{ mm}^2 \times 2 \text{ cores}$ Within 300 m $0.75 \text{ mm}^2 \times 2 \text{ cores}$ Within 400 m $1.25 \text{ mm}^2 \times 2 \text{ cores}$

Shielded wire

No.

Within 600 m $2.0 \text{ mm}^2 \times 2 \text{ cores}$

3Clamp the connection cables with cable clamps.

^{*} Factory setting

DIP switch

(SW2-2)

0

Connection of wired remote control

Regarding the connection of wired remote control, refer to the installation manual of wired remote control. ①Switch ON the DIP switch SW2-2 (Factory setting: ON) on the interface PCB.

Caution: Wireless remote control attached to the indoor unit can be used in parallel, after connecting the wired remote control. However, some of functions other than the basic functions such as RUN/STOP, temperature setting, etc. may not work properly and may have a mismatch between the display and the actual behavior.

②Wiring connection between the interface and the wired remote control.

Installation and wiring of wired remote control

- (A) Install the wired remote control with reference to the attached installation manual of wired remote control.
- [®] 0.3mm² x 2 cores cable should be used for the wiring of wired remote control.
- © Maximum length of wiring is 600m.

If the length of wiring exceeds 100m, change the size of cable as mentioned below. 100m-200m: $0.5\text{mm}^2 \times 2$ cores, 300m or less: $0.75\text{mm}^2 \times 2$ cores, 400m or less: $1.25\text{mm}^2 \times 2$ cores, 600m or less: $2.0\text{mm}^2 \times 2$ cores

However, cable size connecting to the terminal of wired remote control should not exceed 0.5mm². Accordingly if the size of connection cable exceeds 0.5mm², be sure to downsize it to 0.5mm² at the nearest section of the wired remote control and waterproof treatment should be done at the connecting section in order to avoid contact failure.

- Don't use the multi-core cable to avoid malfunction.
- (E) Keep the wiring of wired remote control away from grounding (Don't touch it to any metal frame of building, etc.).
- © Connect the connection cables to the terminal blocks of the wired remote control and the interface securely (No polarity).
- (3) Clamp the connection cables with cable clamps.

Control of multiple units by a single wired remote control

Multiple units (up to 16) can be controlled by a single wired remote control. In this case, all units connected with a single wired remote control will operate under the same mode and same setting temperature.

- ①Connect all the interface with 2 cores cables of wired remote control line.
- ②Set the address of indoor unit for remote control communication from "0" to "F" with the rotary switch SW1 on the interface PCB.
- 3 After turning the power ON, the address of indoor unit can be displayed by pressing AIR CON No. button on the wired remote control. Make sure all indoor units connected are displayed in order by pressing ▲ or ▼ button.

Master/Slave setting wired when 2 of wired remote control are used

Maximum two wired remote control can be connected to one indoor unit (or one group of indoor units)

①Set the DIP switch SW1 on the wired remote control to "Slave" for the slave remote control. (Factory setting: Master)

O Caution: Remote control sensor of the slave remote control is invalid.

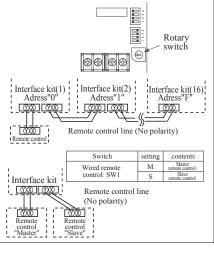
• When using the wireless remote control in parallel with the wired remote control; Since temperature setting range of wired remote control is different from that of wireless remote control, please adjust the setting range of wired remote control to be the same setting range of wireless remote control by following procedure. (The set temperature may not be displayed correctly on the wireless remote control, unless change of temperature setting range is done.) Changing procedure of temperature setting range is as follows.

How to set upper and lower limit of temperature setting range

- 1. Stop the air-conditioner, and press (SET) and (MODE) button at the same time for 3 seconds or more.
 - The indication changes to "FUNCTION SET▼"
- Press **▼**button once, and change to the "TEMP RANGE **▲**" indication.
- Press (SET) button, and enter the temperature range setting mode.
- Confirm that the "Upper limit ▼" is shown on the display.
- Press (SET)button to fix.
- ①Indication: "ⓑ∨∧SET UP"→"UPPER 28°C ∨∧"
 - ②Select the upper limit value 30°C with temperature setting button △."UPPER30°C∨"
 - ③Press (SET) button to fix. "UPPER 30°C" (Displayed for two seconds) After the fixed upper limit value displayed for two seconds, the indication will returm to"UPPER LIMIT ▼'
- 7. Press **▼**button once, "LOWER LIMIT ▲" is selected, press (SET) button to fix. ①Indication: " $^{\bullet} \lor \land SET UP" \rightarrow "LOWER 20^{\circ} C \lor \land '$
 - ②Select the lower limit value 18°C with temperature setting button ☑."LOWER18°C∧"
 - ③Press (SET) button to fix. "LOWER 18°C" (Displayed for two seconds) After the fixed lower limit value displayed for two seconds, the indication will returm to"LOWER LIMIT▼
- 8. Press ON/OFF button to finish.

Temperature setting range

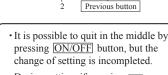
Mode	Temperature setting range
Cooling, Heating, Dry, Auto	18-30°C



• It is possible to quit in the middle by pressing ON/OFF button, but the

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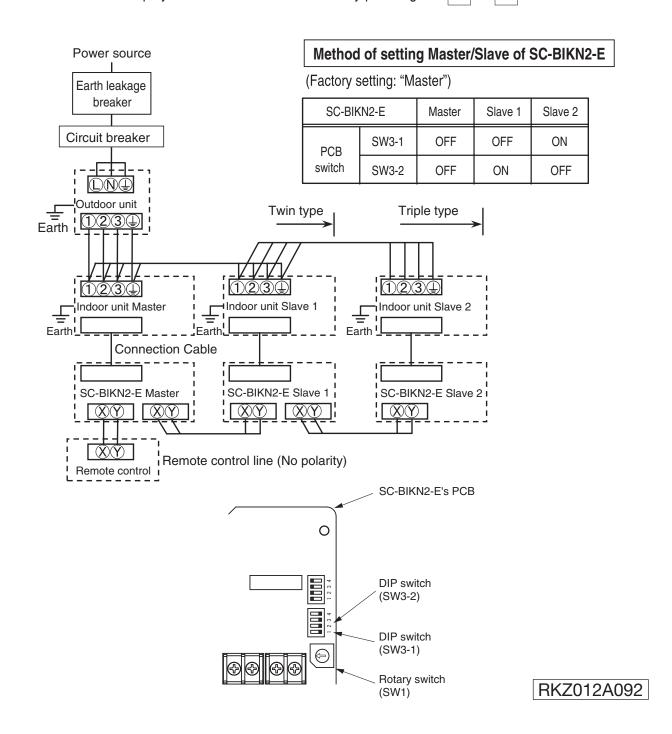
 During setting, if pressing (RESET) button, it returns to the previous screen



TEMP RANG

3.8.1 Cable connection for SRK twin/triple installation

- ①Connect the same pairs number of terminal block "①, 2, and 3 and " 🗴 and Y between master and slave indoor units.
- ②Do the same address setting of all inside units belong to same refrigerant system by rotary switch SW1 on SC-BIKN2-E's PCB (Printed circuit board).
- ③Set slave indoor unit as "slave 1" through" slave 2" by address switch SW3-1, 3-2 on SC-BIKN2-E's PCB.
- ④When the AIR CON No. button on the remote control unit is pressed after turning on the power, an indoor unit's address number will be displayed. Do not fail to confirm that the connected indoor unit's numbers are displayed on the remote control unit by pressing the ▲ or ▼ button.



3.9 SUPERLINK E BOARD (SC-ADNA-E)

PJZ012D029K /k

- Read and understand the instructions completely before starting installation.
- Refer to the instructions for both indoor and outdoor units.

Safety precautions

- Carefully read "Safety precautions" first. Follow the instructions for installation.
- Precautions are grouped into "Warning 🕰 " and "Caution 🖈". The "Warning 🛧 " group includes items that may lead to serious injury or death if not observed. The items included
- in the "Caution A" group also may lead to serious results under certain conditions. Both groups are crucial for safety installation. Read and understand them carefully.

 After installation, conduct the test operation of the device to check for any abnormalities. Describe how to operate the device to the customer following the installation instruction manual. Instruct the customer to keep this installation instruction for future reference.

∴ Warning

- This device should be installed by the dealer where you purchase the device or a licensed professional shop. If the device is incorrectly installed by the
- customer, it may result in electric shock or fire.

 Install the device carefully following the installation instruction. If the device is incorrectly installed, it may result in electric shock or fire.
- Use the accessory parts and specified parts for installation. If any parts that do not match the specifications are used, it may result in electric shock or fire.
- A person with the electrical service certification should conduct the service based on the "Technical standards for electrical facilities", "Electrical Wiring Code", and the installation instruction. If the work is done incorrectly, it may result in electric shock or fire
- Wiring should be securely connected using the specified types of wire. No external force on the wire should be applied to any terminals. If a secure connection is not achieved, it may result in electric shock or fire.

1 Application

Indoor-to-outdoor three core communication specification type 3 (since

Accessories

SL E board	Metal box	Metal cover	Screw for ground
	[0]	· ·	M4×8 2 pieces
Pan head screws	Locking supports	Binding band	Grommet
M4×8 2 pieces	To secure the print board and the metal box Made of nylon 4 pieces	68	

3 Function

Allowing the central control SL1N-E, SL2NA-E, and SL4-AE/BE to control and monitor the commercial air-conditioner unit.

Control switching

Settings can be changed by the DIP switch SW3 on the SL E board as in the following

Switch	Symbol	Switch	Remarks
	-1	ON	Master
	,	OFF (default)	Slave
		ON	Fixed previous protocol
	2	OFF (default)	Automatic adjustment of Superlink protocol
SW3	3	ON	Indicates the forced operation stop when abnormality has occurred.
	3	OFF (default)	Indicates the status of running/stop as it is, when abnormality has occurred.
	4	ON	The hundredth address activated "1"
	4	OFF (default)	The hundredth address activated "0"

∴Caution

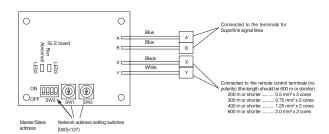
- Provide ground connection.
- The ground line should never be connected to the gas supply piping, the water supply piping, the lightning conductor rod, nor the telephone ground. If the grounding is improper, it may result in electric shock.
- Do not install the device in the following locations.
 - 1.Where there is mist/spray of oil or steam such as kitchens. 2.Where there is corrosive gases such as sulfurous acid gas.

 - 3. Where there is a device generating electromagnetic waves These may interfere with the control system resulting in the device becoming
 - 4. Where flammable volatile materials such as paint thinner and gasoline may exist or where they are handled. This may cause a fire.

5 Connection outline

Note for setting the address

- Set the address between 00 and 47 for the previous Superlink connection and between 000 and 127 for the new Superlink connection. (*1)
- Do not set the address overlapping with those of the other devices in the network. (The default is 000)



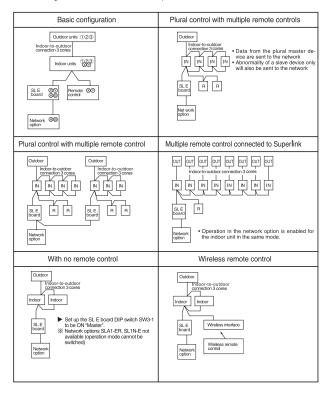
(*1) Whether the actual link is either the new Superlink or the previous Superlink depends on the models of the connected outdoor and indoor units. Consult the agent or the dealer.

Signal line specification

Communication method	Previous Superlink	New Superlink
Line type	MVVS	MVVS
Line diameter	0.75 - 1.25mm ²	0.75/1.25mm ²
Signal line (total length)	up to 1000m	up to 1500/1000m (*2)
Signal line (maximum length)	up to 1000m	up to 1000m

- (*2) Up to 1500 m for 0.75 mm^2 , and up to 1000 m for 1.25 mm^2 . Do not use 2.0 mm². It may cause an error.
- (*3) Connect grounding on both ends of the shielding wire. For the grounding method, refer to the section "6 Installation".

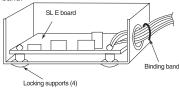
- Set the Superlink network address with SW1 (tens place), SW2 (ones place), and SW3 (hundreds place).
- (2) Set the SL E board SW3-1 to be ON (Master) when using this without any remote control (no wired remote controller nor wireless remote control).
- (3) Set up the plural master/slave device using the DIP switches on the indoor unit board.
- (4) Set up the remote control master/slave device using the slide switch on the remote control board.
- (5) Set up "0" to "F" using the address rotary switch on the indoor unit board when controlling the indoor unit with the multiple remote control.



6 Installation

- 1. When using the metal box (mounted on the indoor unit / mounted on the back of the remote control):
- (1) Mount the SL E board in the metal box using the locking supports.
- (2) Wiring should go through the provided grommet since then through the wiring to the hole on the Metal box.

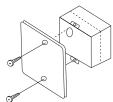
Secure the grommet after inserting the grommet into the Metal box as shown in below figure, then tie the wiring at the outlet of the unit using a binding band.



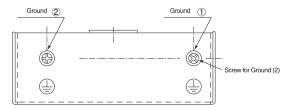
▲ When installed outside the indoor unit, put the metal cover on.



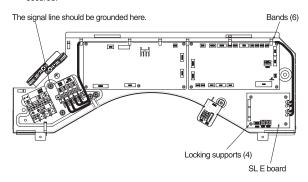
▲ When installed on the back of the remote control, mount it directly on the remote control bottom case.



Connect grounding. Connect grounding for the power line to Ground ①, and grounding for the signal line to Ground ② or to the Ground on the indoor unit control box.



- 2. When connecting to the indoor unit control box (ceiling-concealed type and FDT type only):
- (1) Mount the SL E board in the control box using the locking supports.
- (2) Remove 6 bands from the box and put the wiring through the bands to be secured.



Electrical shock hazard! make sure to turn the power off for servicing. Be cautious so that no abnormal force should be applied to the wiring. Do not let the SL E board hung by the wiring. Do not damage the board with a screw driver.

The board is sensitive to static electricity. Release the static electricity of your body before servicing.

(You can do this by touching the control board which is grounded).

Location of installation

Install the device at the location where there are no electromagnetic waves nor where there is water and dust. The specified temperature range of the device is 0 to 40°C. Install the device at the location where the ambient temperature stays within the range. If it exceeds the specification, make sure to provide solution such as installing a cooling fan. When used outside of the range, it may cause abnormal operation.

7 Indicator display

Check the LED 3 (green) and LED 2 (red) on the SL E board for flashing.

SL E boa	ard LEDs		Display on the
Red	Green	Inspection mode	integrated network control device
Off	Flashing	Normal communication	
Off	Off	Disconnection in the remote control communication line (X or Y) Short-circuit in the remote control communication line (between X and Y) Faulty indoor unit remote control power Faulty remote control communication circuit Faulty CPU on SL E board	No corresponding unit number
One flash	Flashing	Disconnection in the Superlink signal line (A or B) Short-circuit in the Superlink signal line (between A and B) Faulty Superlink signal circuit	
Two flashes	Flashing	Faulty address setting for the SL E board (Set up the address for previous SL E board : more than 48 new SL E board : more than 128)	
Three flashes	Flashing	SL E board parent not set up when used without a remote control Faulty remote control communication circuit	E1
Four flashes	Flashing	Address overlapping for the SL E board and the Superlink network connected indoor unit	E2
Off	Flashing	Number of connected devices exceeds the specification for the multiple indoor unit control	E10

HYPER INVERTER PACKAGED AIR-CONDITIONERS



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