Manual No. '12 • KX-DB-177
updated January 17 ,2014

MHI

DATA BOOK

VRF INVERTER MULTI-SYSTEM AIR CONDITIONERS

(INDOOR UNIT) –KX6 series–

FDTS45KXE6F
71KXE6F

FDUT22KXE6F-E
28KXE6F-E
36KXE6F-E
45KXE6F-E
56KXE6F-E
71KXE6F-E

FDU45KXE6F
56KXE6F
71KXE6F
90KXE6F
112KXE6F
140KXE6F
160KXE6F

• Note:
(1) Regarding the Outdoor unit series, refer to the No.08 • KX-T-117, No.09 • KX-DB-124, 127, 09 • KXR-DB-129, 09 • KX-SM-125, 128, 09 • KXR-SM-130.
(2) Regarding the Duct Connected-High static Pressure-type Outdoor Air Processing Unit Series (FDU500~1800FKXE6F), refer to the DATA BOOK No.'12 • KX-DB-175

MITSUBISHI HEAVY INDUSTRIES, LTD.

CONTENTS

1 GENERAL INFORMATION 1
1.1 Table of models 1
1.2 Table of indoor units panel (Option) 1
1.3 How to read the model name 1
2 INDOOR UNITS 2
2.1 Specifications 2
(a) Ceiling cassette-1 way type (FDTS) 2
(b) Duct connected (thin)-Low static pressure type (FDUT) 3
(c) Duct connected-High static pressure type (FDU) 5
2.2 Exterior dimensions 7
2.3 Electrical wiring 16
2.4 Noise level 22
2.5 Characteristics of fan 25
2.6 Temperature and velocity distribution 32
2.7 Capacity tables 34
3 APPLICATION DATA 49
3.1 Installation of indoor unit 49
(a) Ceiling cassette-1 way type (FDTS) 50
(b) Duct connected (thin)-Low static pressure type (FDUT) 52
(c) Duct connected-High static pressure type (FDU) 55
3.2 Electric wiring work instruction 59
3.3 Installation manual for wired remote control(Option parts : RC-EX1A, RC-E5, RC-E4) ... 63
4 OPTION PARTS 82
4.1 Wireless kit 82
(a) FDTS series (RCN-TS-E) 83
(b) FDU, FDUT series (RCN-KIT3-E) 91
4.2 Simple wired remote control (RCH-E3) 97

1 GENERAL INFORMATION

1.1 Table of models

Model \ Capacity	22	28	36	45	56	71	90	112	140	160	224	280
Ceiling cassette-1 way type (FDTS)				○		○						
Duct connected (thin)-Low static pressure type (FDUT)	○	○	○	○	○	○						
Duct connected-High static pressure type (FDU)				○	○	○	○	○	○	○		

1.2 Table of indoor unit panel (Option)

Model		Parts Model
FDTS	Capacity: 45	TS-PSA-3AW-E
	Capacity:71	

1.3 How to read the model name

● **Indoor unit**

Example: FDTS 45 KX E 6F

- 6F — Series No.
- E — Application power source...See the specifications
- KX — Multi KX series
- 45 — Nominal capacity (nominal cooling capacity : 4.5kW)
- FDTS — Model name [Indoor unit : FDTS, FDUT, FDU]

2 INDOOR UNITS

2.1 Specifications

(a) Ceiling cassette-1 way type (FDTS)

Models FDTS45KXE6F, 71KXE6F

Model			FDTS45KXE6F	FDTS71KXE6F
Panel model (Option)			TS-PSA-3AW-E	TS-PSA-3AW-E
Nominal cooling capacity*1		kW	4.5	7.1
Nominal heating capacity*2		kW	5.0	8.0
Power source			220-240V～50Hz / 220V～60Hz	220-240V～50Hz / 220V～60Hz
Power consumption	Cool	kW	0.04 / 0.04	0.09 / 0.09
	Heat	kW	0.04 / 0.04	0.09 / 0.09
Running current	Cool	A	0.27 - 0.25 / 0.27	0.60 - 0.55 / 0.60
	Heat	A	0.27 - 0.25 / 0.27	0.60 - 0.55 / 0.60
Sound Pressure Level		dB(A)	P-Hi : 42 Hi : 40 Me : 38 Lo : 35	P-Hi : 49 Hi : 46 Me : 41 Lo : 36
Exterior dimensions Height × Width × Depth		mm	Unit : 220 × 1,150 × 565 Panel : 35 × 1,250 × 650	Unit : 220 × 1,150 × 565 Panel : 35 × 1,250 × 650
Exterior appearance (Munsell color)			Plaster White (6.8Y8.9/0.2) near equivalent	Plaster White (6.8Y8.9/0.2) near equivalent
Net weight		kg	Unit : 27 Panel : 5	Unit : 28 Panel : 5
Refrigerant equipment Heat exchanger			Louver fin & inner grooved tubing	Louver fin & inner grooved tubing
Refrigerant control			Electronic Expansion Valve	Electronic Expansion Valve
Air handling equipment Fan type & Q'ty			Centrifugal fan × 4	Centrifugal fan × 4
Motor		W	35	70
Starting method			Direct line start	Direct line start
Air flow (Standard)		CMM	P-Hi : 13 Hi : 12 Me : 11 Lo : 9.5	P-Hi : 17 Hi : 15 Me : 12 Lo : 10
External static pressure		Pa	0	0
Outside air intake			Possible	Possible
Air filter, Q'ty			Pocket plastic net × 2 (Washable)	Pocket plastic net × 2 (Washable)
Shock & vibration absorber			Rubber sleeve (for fan motor)	Rubber sleeve (for fan motor)
Insulation (noise & heat)			Polyurethane form	Polyurethane form
Operation control Operation switch			Remote control switch Option: RC-E5 , RC-EX1A	Remote control switch Option: RC-E5 , RC-EX1A
Room temperature control			Thermostat by electronics	Thermostat by electronics
Safety equipment			Internal thermostat for fan motor Frost protection thermostat	Internal thermostat for fan motor Frost protection thermostat
Installation data Refrigerant piping size			Liquid line: φ6.35 (1/4") Gas line: φ12.7 (1/2")	Liquid line: φ9.52 (3/8") Gas line: φ15.88 (5/8")
Connecting method			Flare piping	Flare piping
Refrigerant			R410A	R410A
Drain pump			Built-in Drain pump	Built-in Drain pump
Drain hose			Connectable with V P 2 5 (I.D.25,O.D.32)	Connectable with V P 2 5 (I.D.25,O.D.32)
Insulation for piping			Necessary (both Liquid & Gas line)	Necessary (both Liquid & Gas line)
Accessories			Mounting kit,Drain hose	Mounting kit,Drain hose
IP code			IPXO	

Notes (1) The data are measured at the following conditions. Adapted to **RoHS** directive

Item	Indoor air temperature		Outdoor air temperature		Standards
Operation	DB	WB	DB	WB	
Cooling*1	27°C	19°C	35°C	24°C	ISO-T1
Heating*2	20°C		7°C	6°C	

(2) This packaged air-conditioner is manufactured and tested in conformity with the following standard.
ISO-T1 "UNITARY AIR-CONDITIONERS"

(3) When wireless remote control is used, fan is 3 speed setting(Hi-Me-Lo) only.

PJC001Z351 B

(b) Duct connected (thin)-Low static pressure type (FDUT)
Models FDUT22KXE6F-E, 28KXE6F-E, 36KXE6F-E

Models			FDUT22KXE6F-E	FDUT28KXE6F-E	FDUT36KXE6F-E
			Rear air return	Rear air return	Rear air return
Nominal cooling capacity		kW	2.2	2.8	3.6
Nominal heating capacity		kW	2.5	3.2	4.0
Power source			220-240V ～ 50Hz / 220 ～ 60Hz	220-240V ～ 50Hz / 220 ～ 60Hz	220-240V ～ 50Hz / 220 ～ 60Hz
Power consumption	Cool	kW	0.07 - 0.07 / 0.07	0.07 - 0.07 / 0.07	0.07 - 0.07 / 0.07
	Heat	kW	0.07 - 0.07 / 0.08	0.07 - 0.07 / 0.08	0.07 - 0.07 / 0.08
Running current	Cool	A	0.28 - 0.25 / 0.30	0.28 - 0.25 / 0.30	0.32 - 0.29 / 0.34
	Heat	A	0.29 - 0.25 / 0.31	0.29 - 0.25 / 0.31	0.33 - 0.28 / 0.34
Sound Pressure Level ①		dB(A)	Hi : 28 Me : 26 Lo : 22	Hi : 28 Me : 26 Lo : 22	Hi : 33 Me : 30 Lo : 26
Sound Pressure Level ②		dB(A)	Hi : 32 Me : 29 Lo : 25	Hi : 32 Me : 29 Lo : 25	Hi : 37 Me : 34 Lo : 28
Exterior dimensions Height x Width x Depth		mm	200 × 750 × 500	200 × 750 × 500	200 × 750 × 500
Net weight		kg	21	21	22
Refrigerant equipment Heat exchanger			Louver fin & inner grooved tubing	Louver fin & inner grooved tubing	Louver fin & inner grooved tubing
Refrigerant control			Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Air handling equipment Fan type & Q'ty			Centrifugal fan × 2	Centrifugal fan × 2	Centrifugal fan × 2
Motor		W	14	14	14
Starting method			Direct line start	Direct line start	Direct line start
Air flow		CMM	Hi : 7.5 Me : 6 Lo : 5	Hi : 7.5 Me : 6 Lo : 5	Hi : 8.5 Me : 7 Lo : 5.5
External static pressure		Pa	Standard: 10, Max: 35	Standard: 10, Max: 35	Standard: 10, Max: 35
					—
Outside air intake			—	—	—
Suction guard (Air filter), Q'ty			Procure locally	Procure locally	Procure locally
Shock & vibration absorber			Rubber sleeve (for fan motor)	Rubber sleeve (for fan motor)	Rubber sleeve (for fan motor)
Insulation (noise & heat)			Polyurethane form	Polyurethane form	Polyurethane form
Operation control Operation switch			Remote control switch Option: RC-E4, RC-E5, RC-EX1	Remote control switch Option: RC-E4, RC-E5, RC-EX1	Remote control switch Option: RC-E4, RC-E5, RC-EX1
Room temperature control			Thermostat by electronics	Thermostat by electronics	Thermostat by electronics
Safety equipment			Internal thermostat for fan motor Frost protection thermostat	Internal thermostat for fan motor Frost protection thermostat	Internal thermostat for fan motor Frost protection thermostat
Installation data Refrigerant piping size			Liquid line: φ6.35 (1/4") Gas line: φ9.52 (3/8")	Liquid line: φ6.35 (1/4") Gas line: φ9.52 (3/8")	Liquid line: φ6.35 (1/4") Gas line: φ12.7 (1/2")
Connecting method			Flare piping	Flare piping	Flare piping
Refrigerant			R410A	R410A	R410A
Drain pump			Built-in Drain pump	Built-in Drain pump	Built-in Drain pump
Drain hose			Connectable with VP25 (I.D.25,O.D.32)	Connectable with VP25 (I.D.25,O.D.32)	Connectable with VP25 (I.D.25,O.D.32)
Insulation for piping			Necessary (both Liquid & Gas line)	Necessary (both Liquid & Gas line)	Necessary (both Liquid & Gas line)
Accessories			Mounting kit,Joint for drain piping	Mounting kit,Joint for drain piping	Mounting kit,Joint for drain piping
IP code			IPXO		

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

Adapted to **RoHS** directive

Item	Indoor air temperature		Outdoor air temperature		Standards	External static pressure of indoor unit
Operation	DB	WB	DB	WB		Pa
Cooling	27˚C	19˚C	35˚C	24˚C	ISO-T1	10
Heating	20˚C		7˚C	6˚C		

(2) Sound Pressure Level shows the value when the supply duct of 2m and the return duct of 1m are connected the unit.
(3) This packaged air-conditioner is manufactured and tested in conformity with the following standard. ISO-T1 "UNITARY AIR-CONDITIONERS"
(4) Sound Pressure Level ① : Mike position is 1.5m below the unit, ② : Mike position is 1m in front and 1m below od the air supply duct.
(5) Initial static pressure value of optional suction guard (Air filter) "UT-FLS1EF-10" is 5Pa.

Models FDUT45KXE6F-E, 56KXE6F-E, 71KXE6F-E

Models			FDUT45KXE6F-E	FDUT56KXE6F-E	FDUT71KXE6F-E
			Rear air return	Rear air return	Rear air return
Nominal cooling capacity		kW	4.0	5.6	7.1
Nominal heating capacity		kW	4.5	6.0	8.0
Power source			220-240V ～ 50Hz / 220 ～ 60Hz	220-240V ～ 50Hz / 220 - 60Hz	220-240V ～ 50Hz / 220 ～ 60Hz
Power consumption	Cool	kW	0.08 - 0.08 / 0.09	0.08 - 0.08 / 0.09	0.08 - 0.08 / 0.08
	Heat	kW	0.08 - 0.08 / 0.09	0.08 - 0.08 / 0.09	0.07 - 0.07 / 0.07
Running current	Cool	A	0.36 - 0.33 / 0.40	0.38 - 0.35 / 0.42	0.42 - 0.42 / 0.42
	Heat	A	0.34 - 0.32 / 0.39	0.35 - 0.33 / 0.40	0.46 - 0.46 / 0.46
Sound Pressure Level ①		dB(A)	Hi : 34 Me : 32 Lo : 28	Hi : 35 Me : 33 Lo : 30	Hi : 35 Me : 31 Lo : 28
Sound Pressure Level ②		dB(A)	Hi : 36 Me : 33 Lo : 27	Hi : 38 Me : 33 Lo : 29	Hi : 41 Me : 37 Lo : 32
Exterior dimensions Height x Width x Depth		mm	200 × 950 × 500	200 × 950 × 500	220 × 1150 × 565
Net weight		kg	25	25	31
Refrigerant equipment Heat exchanger			Louver fin & inner grooved tubing	Louver fin & inner grooved tubing	Louver fin & inner grooved tubing
Refrigerant control			Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Air handling equipment Fan type & Q'ty			Centrifugal fan × 3	Centrifugal fan × 3	Centrifugal fan × 4
Motor		W	38	38	100
Starting method			Direct line start	Direct line start	Direct line start
Air flow (Standard)		CMM	Hi : 11.5 Me : 9 Lo : 7	Hi : 12.5 Me : 9 Lo : 7.2	Hi : 16 Me : 13 Lo : 9.5
External static pressure		Pa	Standard: 10, Max: 50	Standard: 10, Max: 50	Standard: 10, Max: 50
Outside air intake			—	—	—
Suction guard (Air filter), Q'ty			Procure locally	Procure locally	Procure locally
Shock & vibration absorber			Rubber sleeve (for fan motor)	Rubber sleeve (for fan motor)	Rubber sleeve (for fan motor)
Insulation (noise & heat)			Polyurethane form	Polyurethane form	Polyurethane form
Operation control Operation switch			Remote control switch Option: RC-E4, RC-E5, RC-EX1	Remote control switch Option: RC-E4, RC-E5, RC-EX1	Remote control switch Option: RC-E5, RC-EX1
Room temperature control			Thermostat by electronics	Thermostat by electronics	Thermostat by electronics
Safety equipment			Intemal thermostat for fan motor Frost protection thermostat	Intemal thermostat for fan motor Frost protection thermostat	Intemal thermostat for fan motor Frost protection thermostat
Installation data Refrigerant piping size			Liquid line: φ6.35 (1/4") Gas line: φ12.7 (1/2")	Liquid line: φ6.35 (1/4") Gas line: φ12.7 (1/2")	Liquid line: φ9.52 (3/8") Gas line: φ15.9 (5/8")
Connecting method			Flare piping	Flare piping	Flare piping
Refrigerant			R410A	R410A	R410A
Drain pump			Built-in Drain pump	Built-in Drain pump	Built-in Drain pump
Drain hose			Connectable with VP25 (I.D.25,O.D.32)	Connectable with VP25 (I.D.25,O.D.32)	Connectable with VP25 (I.D.25,O.D.32)
Insulation for piping			Necessary (both Liquid & Gas line)	Necessary (both Liquid & Gas line)	Necessary (both Liquid & Gas line)
Accessories			Mounting kit,Joint for drain piping	Mounting kit,Joint for drain piping	Mounting kit,Drain hose
IP code			IPXO		

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

Adapted to **RoHS** directive

Item	Indoor air temperature		Outdoor air temperature		Standards	External static pressure of indoor unit
Operation	DB	WB	DB	WB		Pa
Cooling	27°C	19°C	35°C	24°C	ISO-T1	10
Heating	20°C		7°C	6°C		

(2) Sound Pressure Level shows the value when the supply duct of 2m and the return duct of 1m are connected the unit.
(3) This packaged air-conditioner is manufactured and tested in conformity with the following standard. ISO-T1 "UNITARY AIR-CONDITIONERS"
(4) Sound Pressure Level ① : Mike position is 1.5m below the unit, ② : Mike position is 1m in front and 1m below od the air supply duct.
(5) Initial static pressure value of optional suction guard (Air filter) "UT-FLS1EF-10" is 5Pa.

PJH000Z016 A

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

Models FDU45KXE6F, 56KXE6F, 71KXE6F, 90KXE6F

Models			FDU45KXE6F	FDU56KXE6F	FDU71KXE6F	FDU90KXE6F
Nominal cooling capacity		kW	4.5	5.6	7.1	9.0
Nominal heating capacity		kW	5.0	6.3	8.0	10.0
Power source			220-240V ～ 50Hz / 220V ～ 60Hz	220-240V ～ 50Hz / 220V ～ 60Hz	220-240V ～ 50Hz / 220V ～ 60Hz	220-240V ～ 50Hz / 220V ～ 60Hz
Power consumption	Cool	kW	0.10 - 0.10 / 0.10	0.10 - 0.10 / 0.10	0.24 - 0.25 / 0.24	0.24 - 0.25 / 0.24
	Heat	kW	0.10 - 0.10 / 0.10	0.10 - 0.10 / 0.10	0.24 - 0.25 / 0.24	0.24 - 0.25 / 0.24
Running current	Cool	A	0.63 - 0.58 / 0.63	0.63 - 0.58 / 0.63	1.80 - 1.70 / 1.80	1.80 - 1.70 / 1.80
	Heat	A	0.63 - 0.58 / 0.63	0.63 - 0.58 / 0.63	1.80 - 1.70 / 1.80	1.80 - 1.70 / 1.80
Sound Pressure Level		dB(A)	P-Hi : 37 Hi : 32 Me : 29 Lo : 26	P-Hi : 37 Hi : 32 Me : 29 Lo : 26	P-Hi : 38 Hi : 33 Me : 29 Lo : 25	P-Hi : 38 Hi : 33 Me : 29 Lo : 25
Exterior dimensions Height x Width x Depth		mm	280 × 750 × 635	280 × 750 × 635	280 × 950 × 635	280 × 950 × 635
Net weight		kg	29	29	34	34
Refrigerant equipment Heat exchanger			Louver fin & inner grooved tubing	Louver fin & inner grooved tubing	Louver fin & inner grooved tubing	Louver fin & inner grooved tubing
Refrigerant control			Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Air handling equipment Fan type & Q'ty			Centrifugal fan × 1	Centrifugal fan × 1	Centrifugal fan × 2	Centrifugal fan × 2
Motor		W	100	100	130	130
Starting method			Direct line start	Direct line start	Direct line start	Direct line start
Air flow(Standard)		CMM	P-Hi : 13 Hi : 10 Me : 9 Lo : 8	P-Hi : 13 Hi : 10 Me : 9 Lo : 8	P-Hi : 24 Hi : 19 Me : 15 Lo : 10	P-Hi : 24 Hi : 19 Me : 15 Lo : 10
External static pressure		Pa	200 (at 13 CMM)	200 (at 13 CMM)	200 (at 24 CMM)	200 (at 24 CMM)
Outside air intake			Possible	Possible	Possible	Possible
Air filter, Q'ty			Procure locally	Procure locally	Procure locally	Procure locally
Shock & vibration absorber			Rubber sleeve (for fan motor)	Rubber sleeve (for fan motor)	Rubber sleeve (for fan motor)	Rubber sleeve (for fan motor)
Insulation (noise & heat)			Polyurethane form	Polyurethane form	Polyurethane form	Polyurethane form
Operation control Operation switch			Remote control switch Option: RC-E5, RC-EX1A	Remote control switch Option: RC-E5, RC-EX1A	Remote control switch Option: RC-E5, RC-EX1A	Remote control switch Option: RC-E5, RC-EX1A
Room temperature control			Thermostat by electronics	Thermostat by electronics	Thermostat by electronics	Thermostat by electronics
Safety equipment			Overload protection for fan motor Frost protection thermostat	Overload protection for fan motor Frost protection thermostat	Overload protection for fan motor Frost protection thermostat	Overload protection for fan motor Frost protection thermostat
Installation data Refrigerant piping size			Liquid line: φ6.35 (1/4") Gas line: φ12.7 (1/2")	Liquid line: φ6.35 (1/4") Gas line: φ12.7 (1/2")	Liquid line: φ9.52 (3/8") Gas line: φ15.88 (5/8")	Liquid line: φ 9.52 (3/8") Gas line: φ 15.88 (5/8")
Connecting method			Flare piping	Flare piping	Flare piping	Flare piping
Refrigerant			R410A	R410A	R410A	R410A
Drain pump			Built-in Drain pump	Built-in Drain pump	Built-in Drain pump	Built-in Drain pump
Drain hose			Connectable with VP25	Connectable with VP25	Connectable with VP25	Connectable with VP25
Insulation for piping			Necessary (both Liquid & Gas line)	Necessary (both Liquid & Gas line)	Necessary (both Liquid & Gas line)	Necessary (both Liquid & Gas line)
Accessories			Drain hose	Drain hose	Drain hose	Drain hose
IP code			IPXO			

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

Adapted to **RoHS** directive

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

(2) This packaged air-conditioner is manufactured and tested in conformity with the following standard.
ISO-T1 "UNITARY AIR-CONDITIONERS"

(3) When wireless remote control is used, fan is 3 speed setting (Hi-Me-Lo) only.

PJG000Z053 a

Models FDU112KXE6F, 140KXE6F, 160KXE6F

Models			FDU112KXE6F	FDU140KXE6F	FDU160KXE6F
Nominal cooling capacity		kW	11.2	14.0	16.0
Nominal heating capacity		kW	12.5	16.0	18.0
Power source			220-240V ～ 50Hz / 220V ～ 60Hz	220-240V ～ 50Hz / 220V ～ 60Hz	220-240V ～ 50Hz / 220V ～ 60Hz
Power consumption	Cool	kW	0.31 - 0.32 / 0.31	0.35 - 0.36 / 0.35	0.42 - 0.43 / 0.42
	Heat	kW	0.31 - 0.32 / 0.31	0.35 - 0.36 / 0.35	0.42 - 0.43 / 0.42
Running current	Cool	A	2.00 - 2.00 / 2.00	2.30 - 2.20 / 2.30	2.70 - 2.50 / 2.70
	Heat	A	2.00 - 2.00 / 2.00	2.30 - 2.20 / 2.30	2.70 - 2.50 / 2.70
Sound Pressure Level		dB(A)	P-Hi : 44 Hi : 38 Me : 36 Lo : 30	P-Hi : 45 Hi : 40 Me : 34 Lo : 29	P-Hi : 47 Hi : 40 Me : 35 Lo : 30
Exterior dimensions Height x Width x Depth		mm	280 × 1,370 × 740	280 × 1,370 × 740	280 × 1,370 × 740
Net weight		kg	54	54	54
Refrigerant equipment Heat exchanger			Louver fin & inner grooved tubing	Louver fin & inner grooved tubing	Louver fin & inner grooved tubing
Refrigerant control			Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Air handling equipment Fan type & Q'ty			Centrifugal fan × 3	Centrifugal fan × 3	Centrifugal fan × 3
Motor		W	100 + 130	100 + 200	100 + 200
Starting method			Direct line start	Direct line start	Direct line start
Air flow(Standard)		CMM	P-Hi : 36 Hi : 28 Me : 25 Lo : 19	P-Hi : 39 Hi : 32 Me : 26 Lo : 20	P-Hi : 48 Hi : 35 Me : 28 Lo : 22
External static pressure		Pa	200 (at 36 CMM)	200 (at 39 CMM)	200 (at 48 CMM)
Outside air intake			Possible	Possible	Possible
Air filter, Q'ty			Procure locally	Procure locally	Procure locally
Shock & vibration absorber			Rubber sleeve (for fan motor)	Rubber sleeve (for fan motor)	Rubber sleeve (for fan motor)
Insulation (noise & heat)			Polyurethane form	Polyurethane form	Polyurethane form
Operation control Operation switch			Remote control switch Option: RC-E5, RC-EX1A	Remote control switch Option: RC-E5, RC-EX1A	Remote control switch Option: RC-E5, RC-EX1A
Room temperature control			Thermostat by electronics	Thermostat by electronics	Thermostat by electronics
Safety equipment			Overload protection for fan motor Frost protection thermostat	Overload protection for fan motor Frost protection thermostat	Overload protection for fan motor Frost protection thermostat
Installation data Refrigerant piping size			Liquid line: φ9.52 (3/8") Gas line: φ15.88 (5/8")	Liquid line: φ9.52 (3/8") Gas line: φ15.88 (5/8")	Liquid line: φ9.52 (3/8") Gas line: φ15.88 (5/8")
Connecting method			Flare piping	Flare piping	Flare piping
Refrigerant			R410A	R410A	R410A
Drain pump			Built-in Drain pump	Built-in Drain pump	Built-in Drain pump
Drain hose			Connectable with VP25	Connectable with VP25	Connectable with VP25
Insulation for piping			Necessary (both Liquid & Gas line)	Necessary (both Liquid & Gas line)	Necessary (both Liquid & Gas line)
Accessories			Drain hose	Drain hose	Drain hose
IP code			IPXO		

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

Adapted to **RoHS** directive

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

(2) This packaged air-conditioner is manufactured and tested in conformity with the following standard.
ISO-T1 "UNITARY AIR-CONDITIONERS"

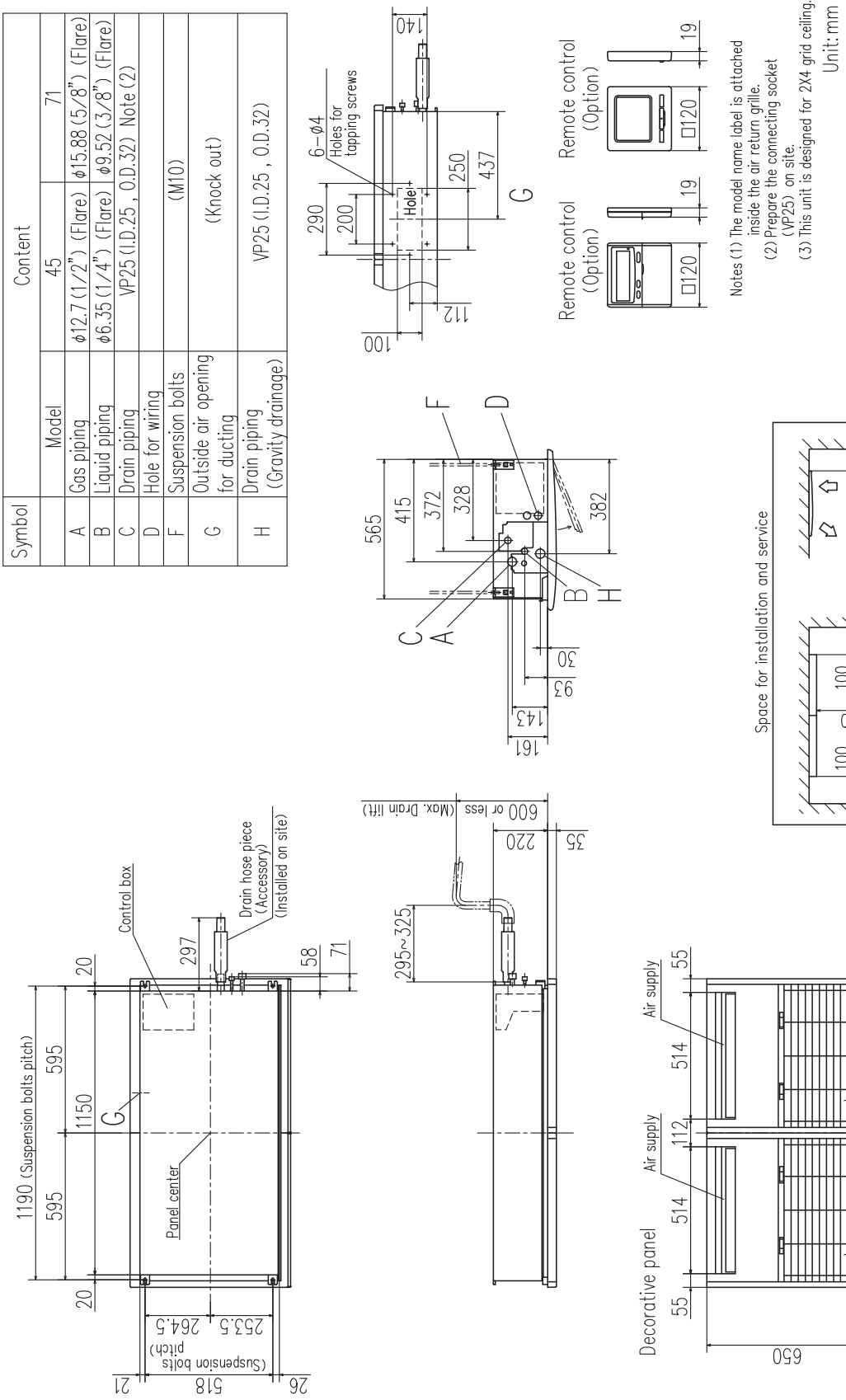
(3) When wireless remote control is used, fan is 3 speed setting(Hi-Me-Lo) only.

2.2 Exterior dimensions

(a) Ceiling cassette-1 way type (FDTS)

Models FDTS45KXE6F, 71KXE6F

Symbol	Content		
	Model	45	71
A	Gas piping	φ12.7 (1/2") (Flare)	φ15.88 (5/8") (Flare)
B	Liquid piping	φ6.35 (1/4") (Flare)	φ9.52 (3/8") (Flare)
C	Drain piping	VP25 (I.D.25 , O.D.32) Note (2)	
D	Hole for wiring		
F	Suspension bolts	(M10)	
G	Outside air opening for ducting	(Knock out)	
H	Drain piping (Gravity drainage)	VP25 (I.D.25 , O.D.32)	



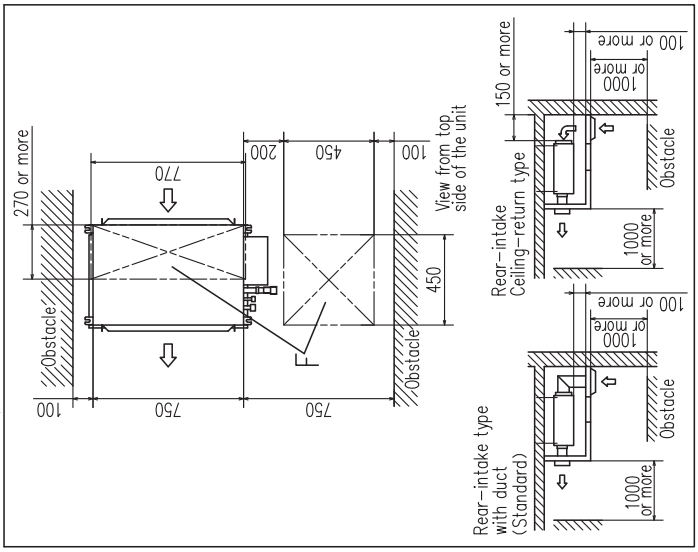
PJC001Z352

(b) Duct connected (thin)-Low static pressure type (FDUT)

• Rear air return type

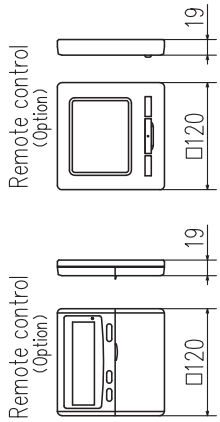
Models FDUT22KXE6F-E, 28KXE6F-E, 36KXE6F-E

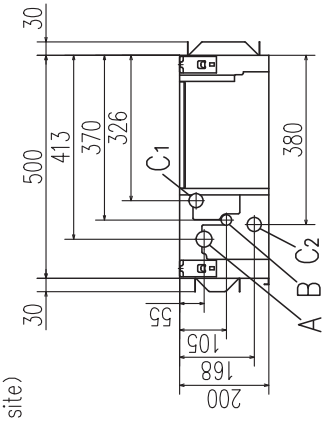
Symbol	Model	Content 22,28	Content 36
A	Gas piping	φ9.52 (3/8") (Flare)	φ12.7 (1/2") (Flare)
B	Liquid piping	φ6.35 (1/4") (Flare)	
C1	Drain piping	VP25 (I.D.25 , O.D.32) (Used with attached connector)	
C2	Drain piping (Gravity drainage)	VP25 (I.D.25 , O.D.32) (Used with attached connector)	
D	Hole for wiring	φ25 x 2	
E	Suspension bolts	(M10)	
F	Inspection hole	(450X450) , (270X770)	

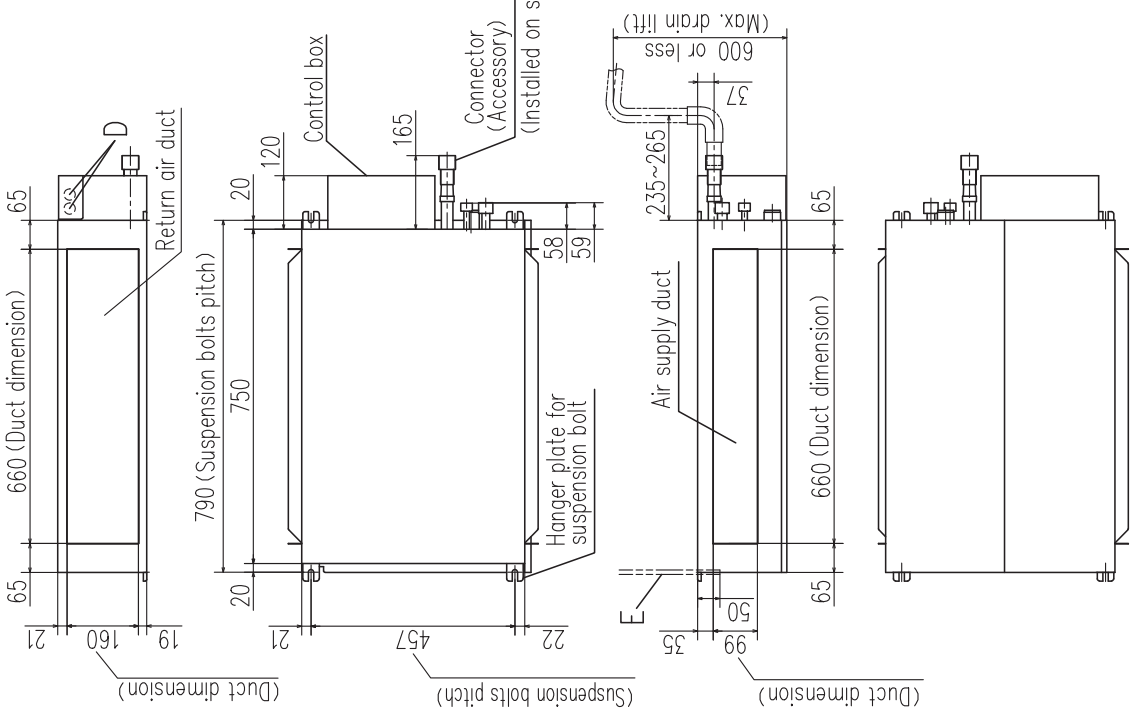


Notes (1) The model name label is attached on the lid of the control box.

Unit: mm

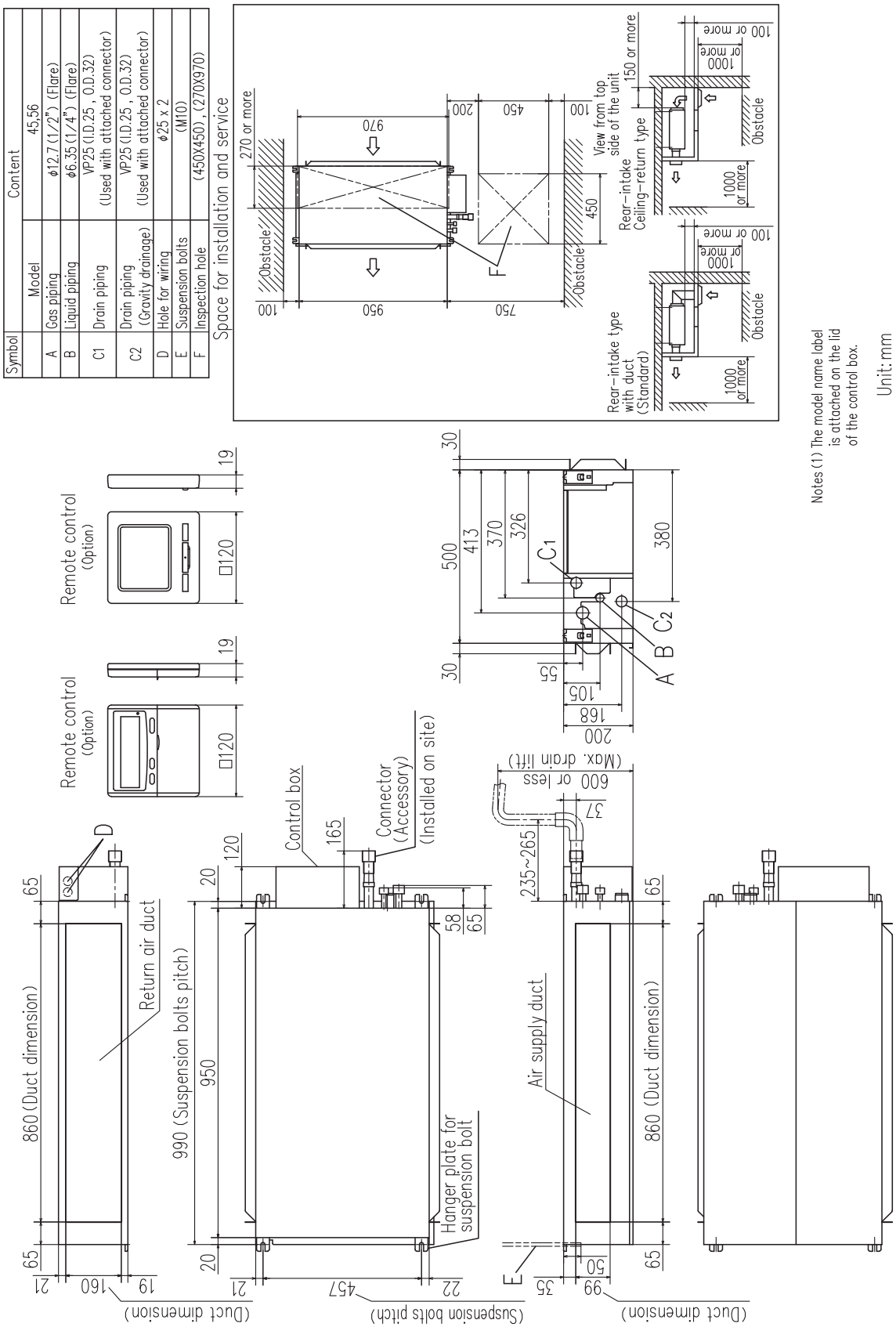






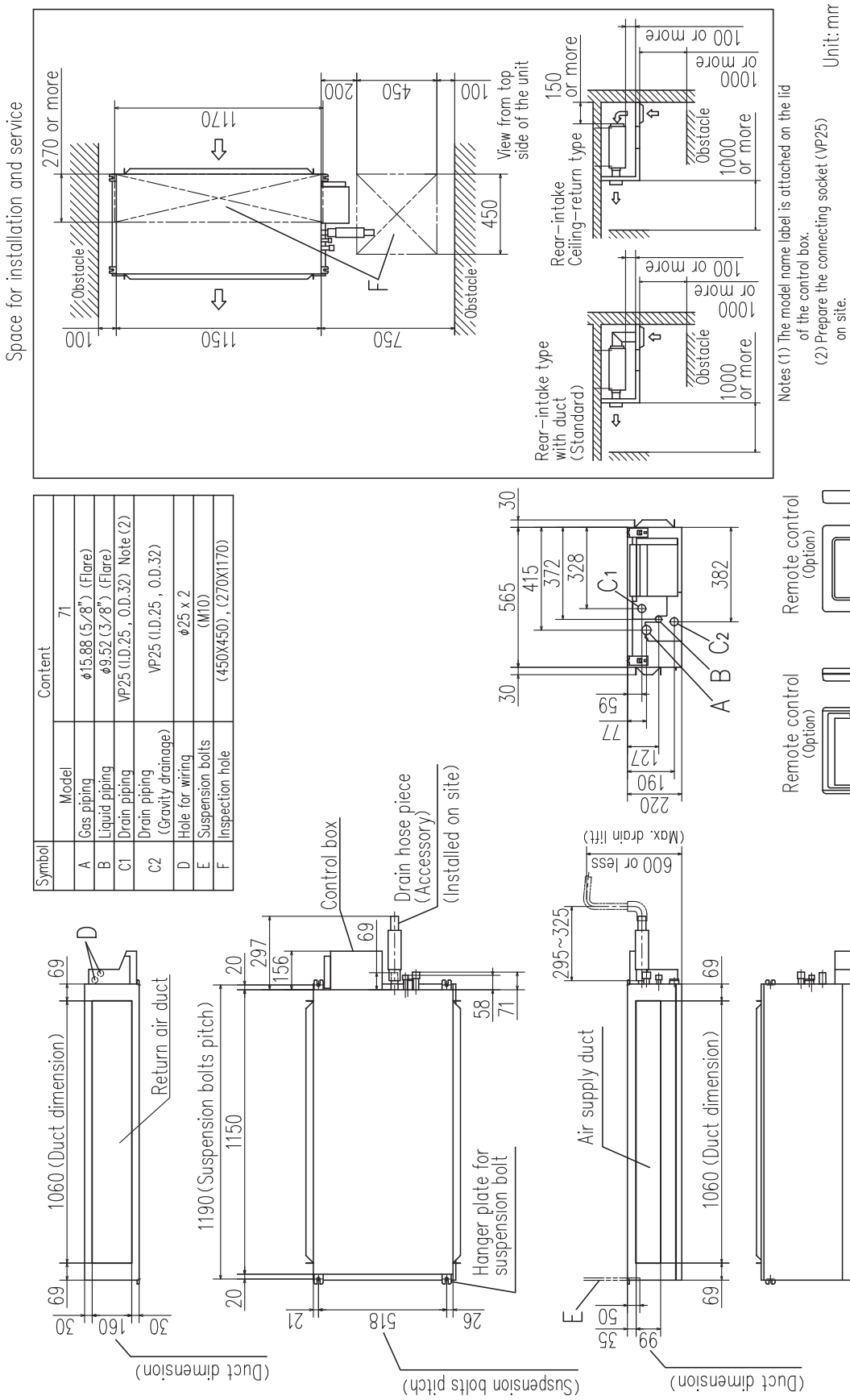
PJH000Z010 A

Models FDUT45KXE6F-E, 56KXE6F-E



PJH000Z011 A

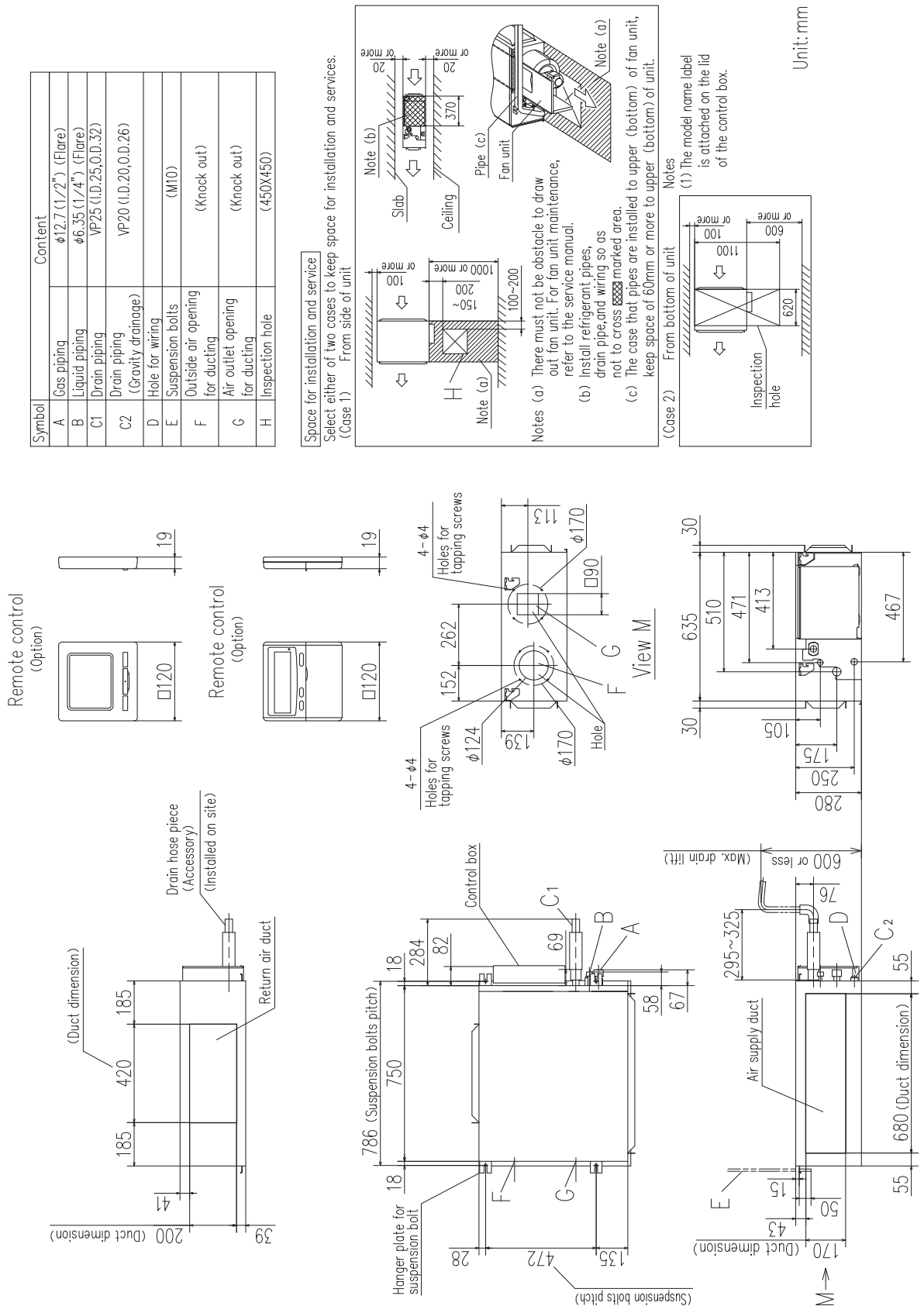
Model FDUT71KXE6F-E



PJH000Z012 B

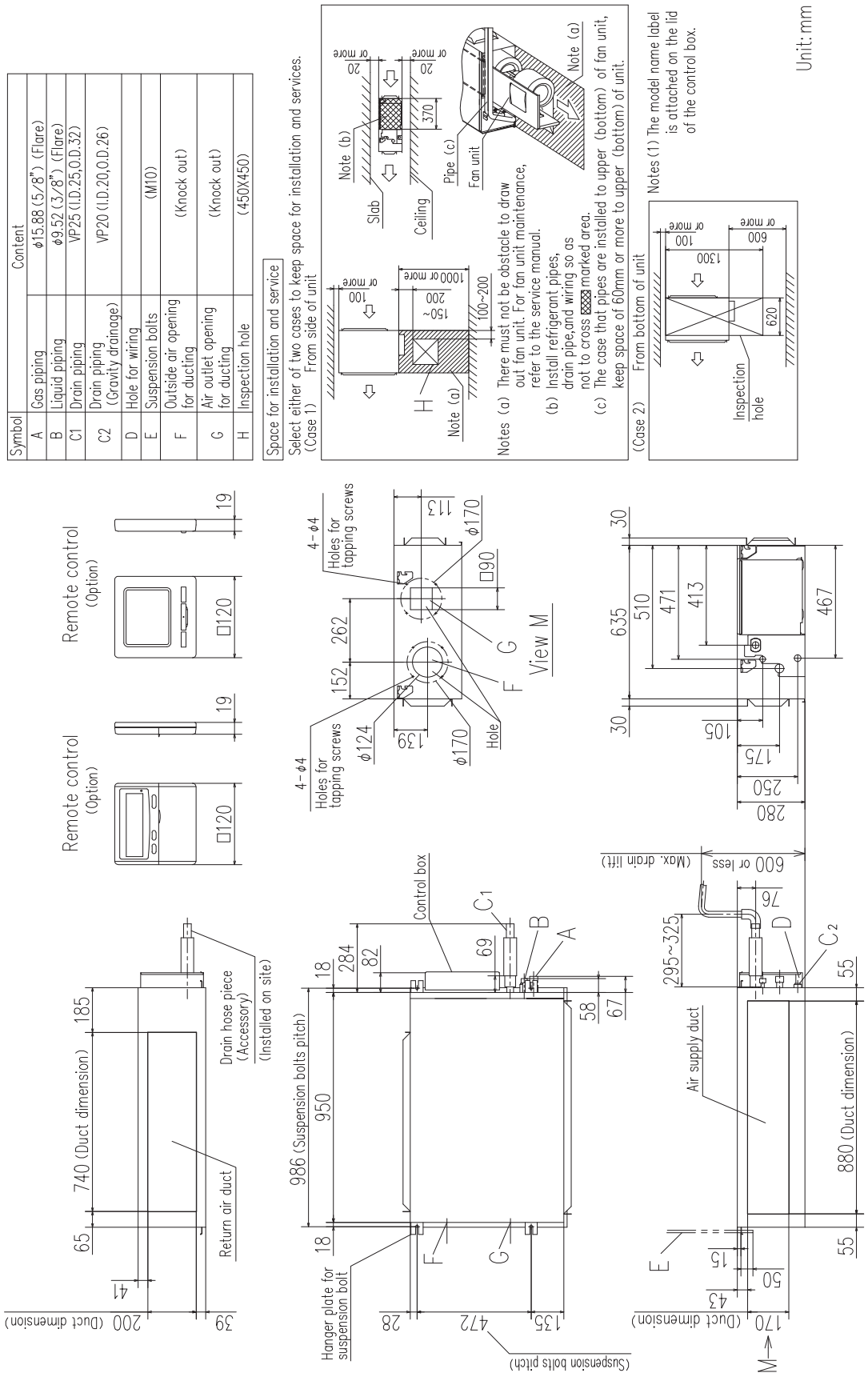
(c) Duct connected-High static pressure type (FDU)
Models FDU45KXE6F, 56KXE6F

Symbol	Content	
A	Gas piping	φ12.7 (1/2") (Flare)
B	Liquid piping	φ6.35 (1/4") (Flare)
C1	Drain piping	VP25 (I.D.25,O.D.32)
C2	Drain piping (Gravity drainage)	VP20 (I.D.20,O.D.26)
D	Hole for wiring	
E	Suspension bolts	(M10)
F	Outside air opening for ducting	(Knock out)
G	Air outlet opening for ducting	(Knock out)
H	Inspection hole	(450X450)



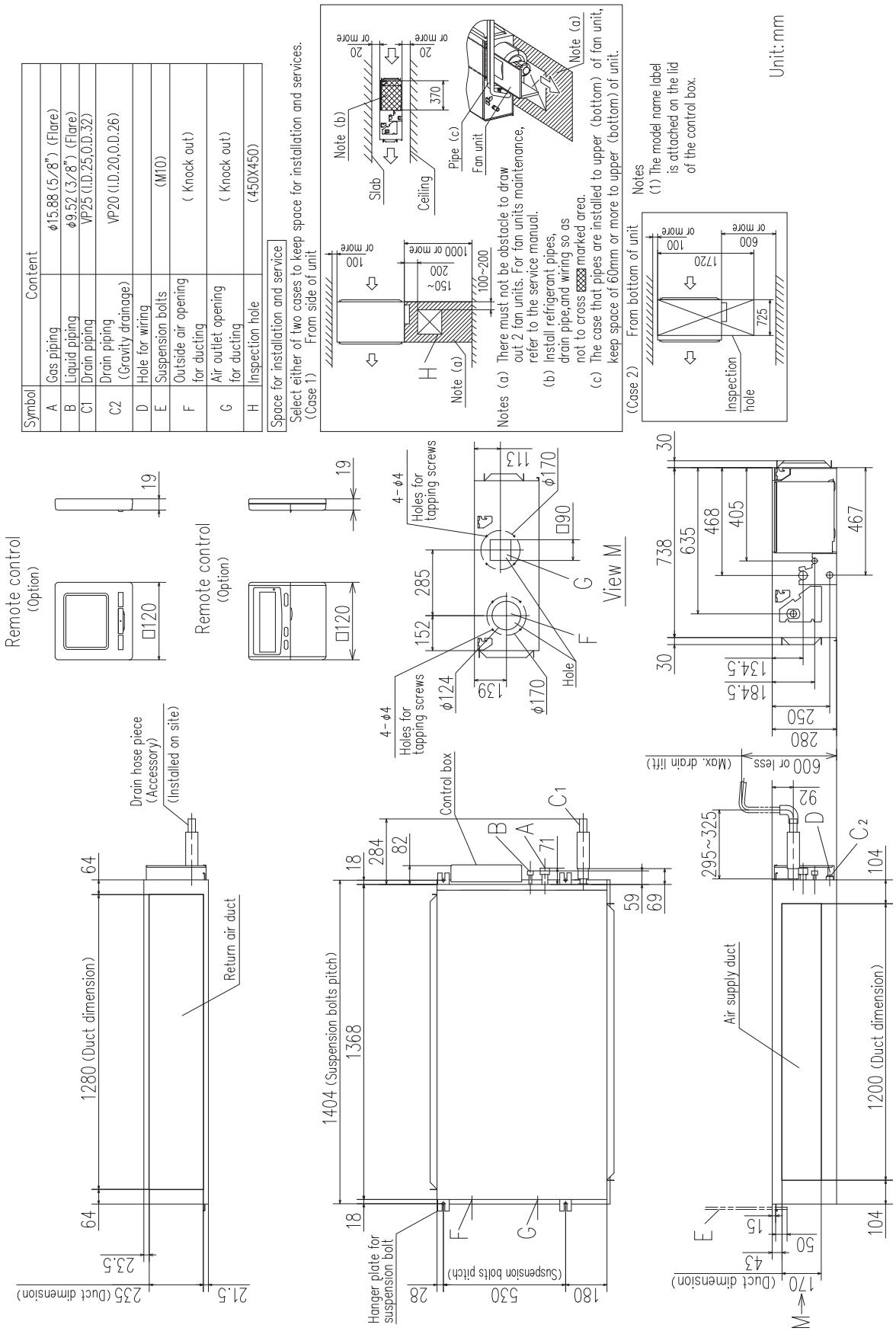
PJG000Z056 a

Models FDU71KXE6F, 90KXE6F



PJG000Z057 a

Models FDU112KXE6F, 140KXE6F, 160KXE6F

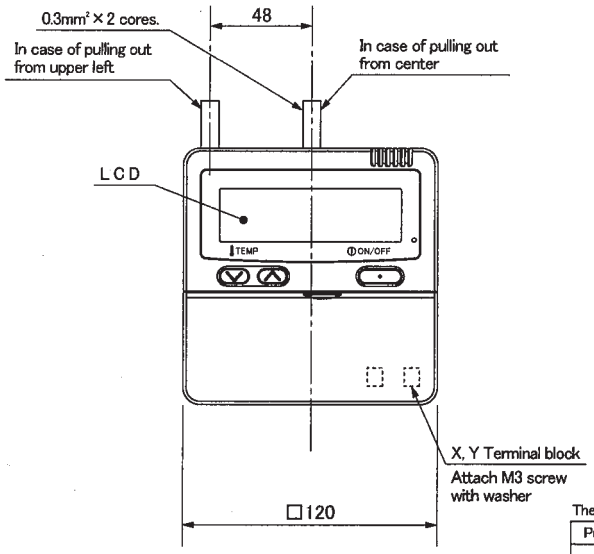


PJG000Z058 a

(d) Remote control (Option parts)

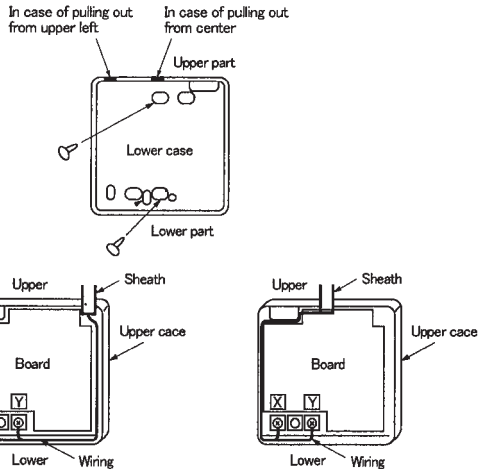
• Wired remote control (Models : RC-E4, RC-E5)

Exposed mounting



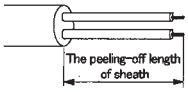
Exterior appearance (Munsell color)	Pearl White (N8.5) near equivalent

Wiring outlet
Cut off the upper thin part of remote control lower case with a nipper or knife, and grind burrs with a file etc.

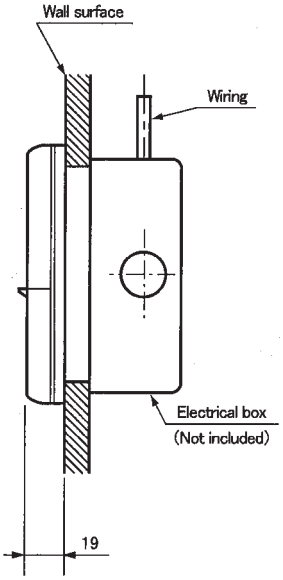


The peeling-off length of sheath

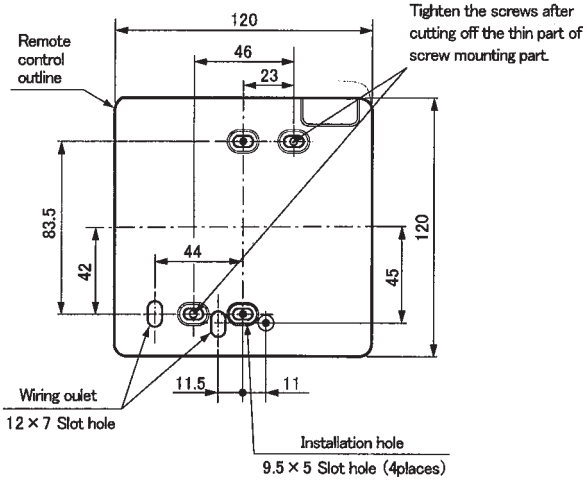
Pulling out from upper left	Pulling out from center
X wiring : 215mm Y wiring : 195mm	X wiring : 170mm Y wiring : 190mm



Embedded mounting



Remote control installation dimensions



(1) Installation screw for remote control
M4 Screw (2 pieces)

Unit:mm

Wiring specifications

(1) 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.

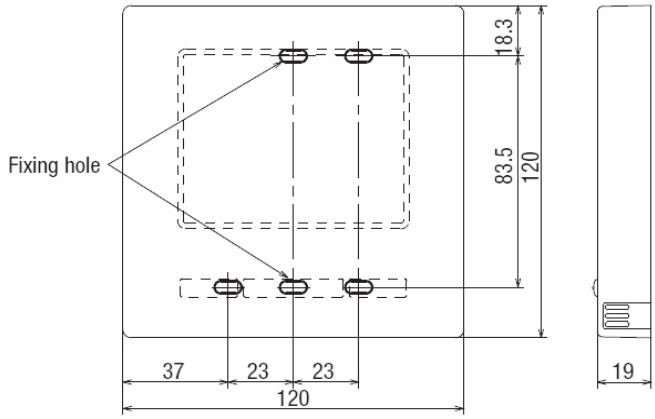
Length	Wiring thickness
100 to 200m	0.5mm² × 2 cores
Under 300m	0.75mm² × 2 cores
Under 400m	1.25mm² × 2 cores
Under 600m	2.0mm² × 2 cores

Adapted to **RoHS** directive

PJZ000Z274 Ⓐ

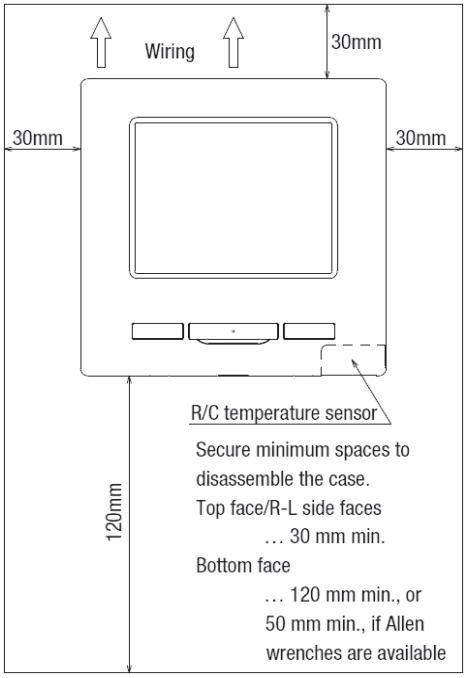
• Wired remote control (Model : RC-EX1A)

Dimensions (Viewed from front)



Exterior appearance (Munsell color)	Pearl White (N8.5) near equivalent

Installation space



Cautions for selecting installation place

(1) Installation surface must be flat and sufficiently strong. R/C case must not be deformed.

(2) Where the R/C can detect room temperatures accurately
This is a must when detecting room temperatures with the temperature sensor of R/C.
- Install the R/C where it can detect the average temperature in the room.
- Install the R/C sufficiently separated from a heat source.
- Install the R/C where it will not be influenced by the turbulence of air when the door is opened or closed.

Select a place where the R/C is not exposed to direct sunlight or blown by winds from the air conditioner or temperatures on the wall surface will not deviate largely from indoor air temperatures.

R/C cable : 0.3mm^2 × 2-core

When the cable length is longer than 100 m, the max size for wires used in the R/C case is 0.5 mm^2. 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-core
< 300 m	0.75 mm^2 x 2-core
< 400 m	1.25 mm^2 x 2-core
< 600 m	2.0 mm^2 x 2-core

Adapted to **RoHS** directive

PJZ000Z297 A

2.3 Electrical wiring

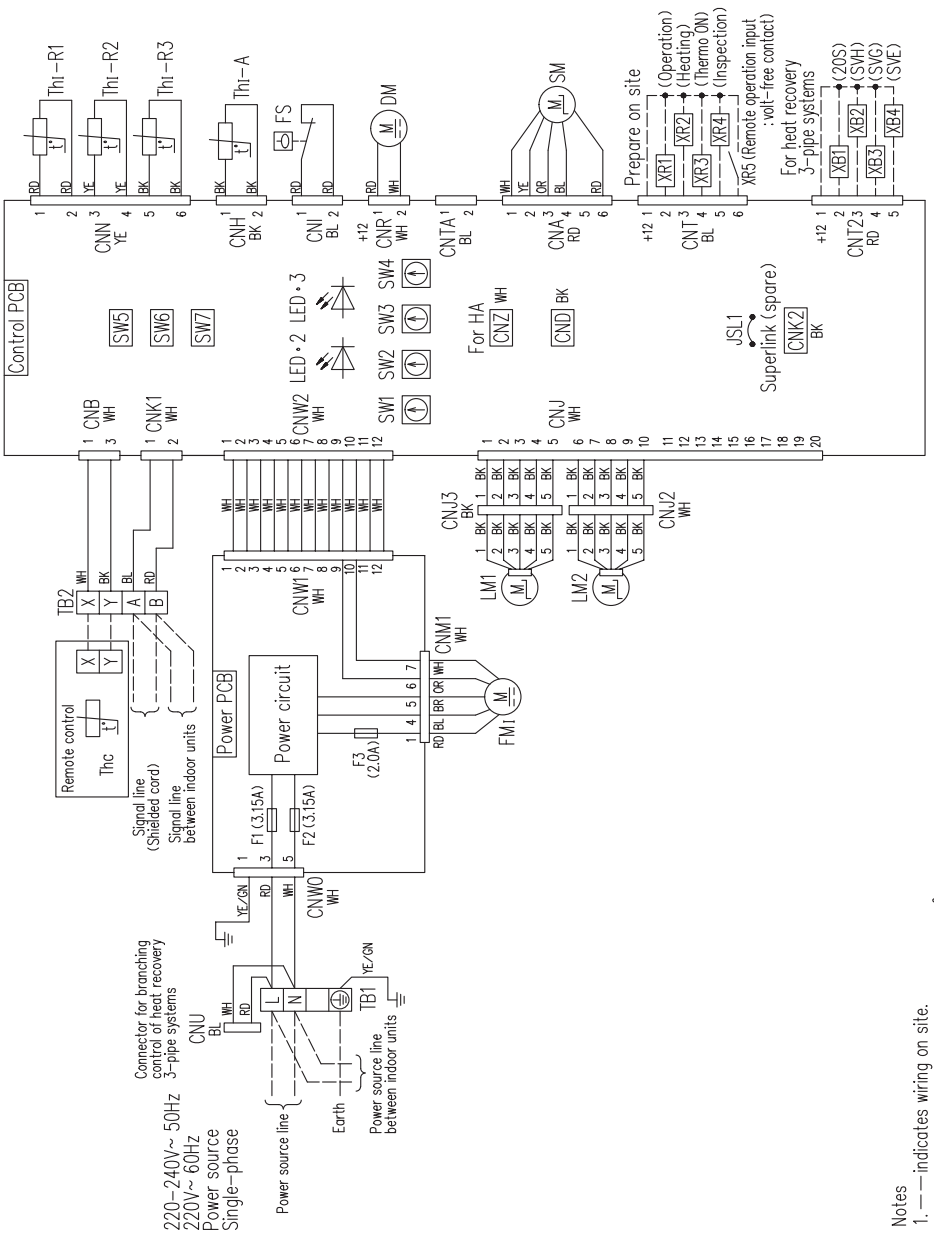
(a) Ceiling cassette-1 way type (FDTS)

Models FDTS45KXE6F, 71KXE6F

CNA~Z	Connector
DM	Drain motor
F1~3	Fuse
FM1	Fan motor
FS	Float switch
JSL1	Live Superlink terminal setting (for spare)
LED • 2	Indication lamp (Green–Normal operation)
LED • 3	Indication lamp (Red–Inspection)
LM1,2	Louver motor
SM	Stepping motor (for electronic expansion valve)
SW1	Indoor unit address: tens place
SW2	Indoor unit address: ones place
SW3	Outdoor unit address: tens place
SW4	Outdoor unit address: ones place
SW5–1	Automatic adjustment/Fixed previous version of Superlink protocol
SW5–2	Indoor unit address: hundreds place
SW6	Model capacity setting
SW7–1	Operation check, Drain motor test run
TB1	Terminal block (Power source) (□ mark)
TB2	Terminal block (Signal line) (□ mark)
Thc	Thermistor (Remote control)
Th1–A	Thermistor (Return air)
Th1–R1,2,3	Thermistor (Heat exchanger)

Color Marks

Mark	Color	Mark	Color
BK	Black	RD	Red
BL	Blue	WH	White
BR	Brown	YE	Yellow
OR	Orange	YE/GN	Yellow/Green

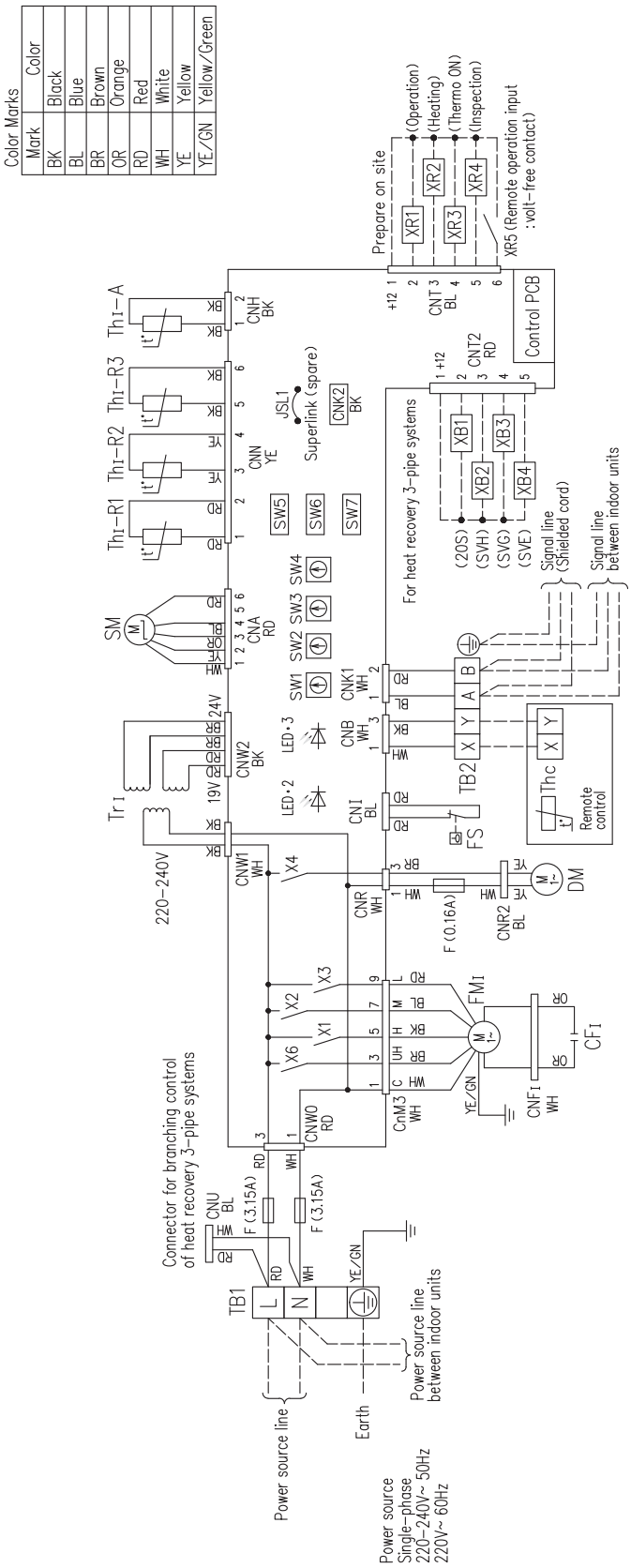


Notes
1. —— indicates wiring on site.
2. Use twin core shielded cord (0.75~1.25mm²) at signal line between indoor unit and outdoor unit, and signal line between indoor units.
3. Use twin core cord (0.3mm²) at remote control line.
4. Do not put signal line and remote control line alongside power source line.

PJC001Z354

(b) Duct connected (thin)-Low static pressure type (FDUT)

Models FDUT22KXE6F-E, 28KXE6F-E, 36KXE6F-E, 45KXE6F-E, 56KXE6F-E

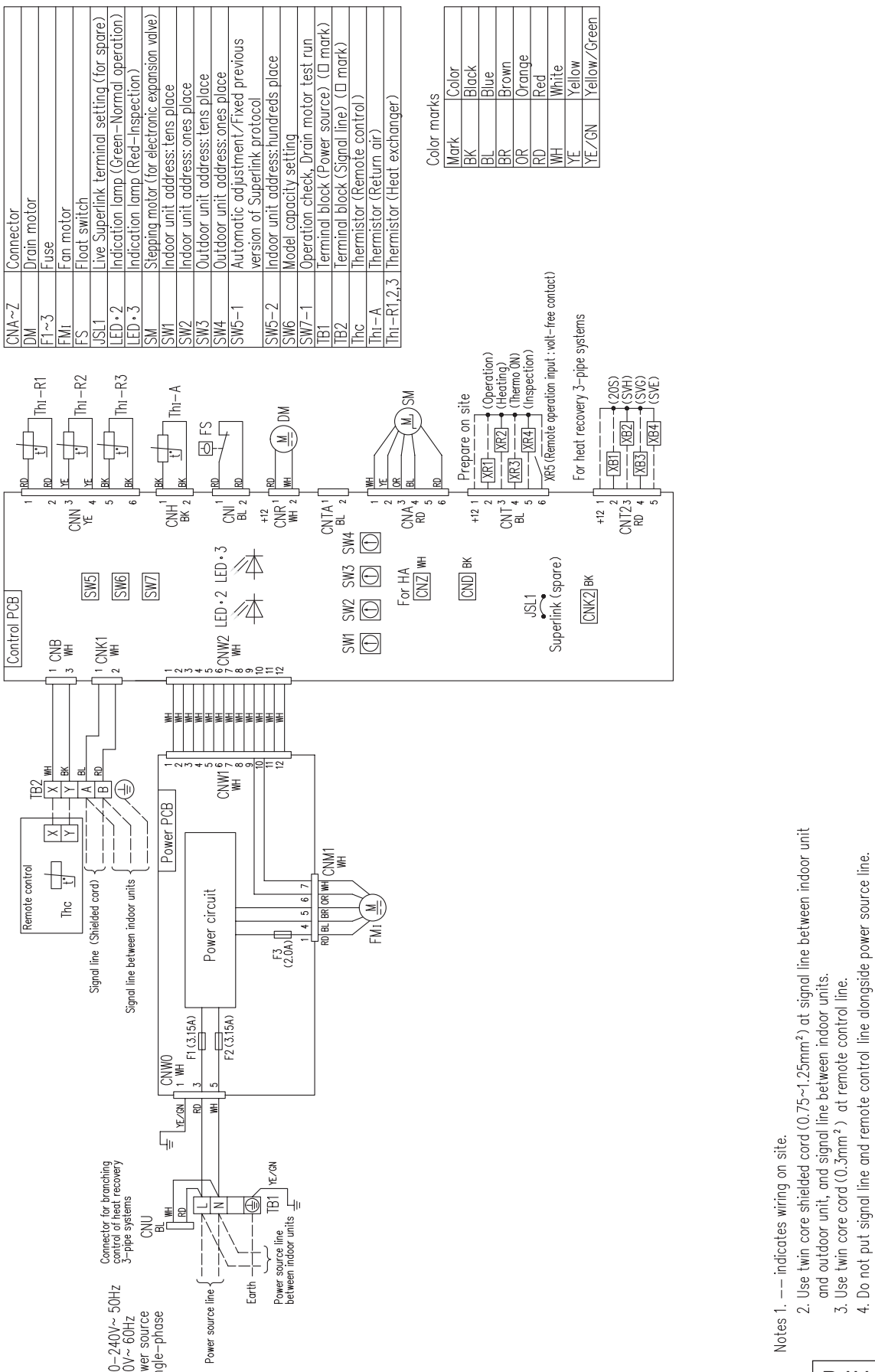


CF1	Capacitor for FM1	SW1	Indoor unit address: tens place	TB1	Terminal block (Power source) (□mark)
CNA~Z	Connector	SW2	Indoor unit address: ones place	TB2	Terminal block (Signal line) (□mark)
DM	Drain motor	SW3	Outdoor unit address: tens place	Thc	Thermistor (Remote control)
F	Fuse	SW4	Outdoor unit address: ones place	Th1-A	Thermistor (Return air)
FM1	Fan motor (with thermister)	SW5-1	Automatic adjustment/Fixed previous version of Superlink protocol	Th1-R1,2,3	Thermistor (Heat exchanger)
JSL1	Live Superlink terminal setting (for spare)			Tr1	Transformer
LED•2	Indication lamp (Green-Normal operation)	SW5-2	Indoor unit address: hundreds place	X1~3,6	Relay for FM
LED•3	Indication lamp (Red-Inspection)	SW6	Model capacity setting	X4	Relay for DM
SM	Stepping motor (For electronic expansion valve)	SW7-1	Operation check,Drain motor test run		

Notes 1. — indicates wiring on site.
2. Use twin core shielded cord (0.75~1.25mm²) at signal line between indoor unit and outdoor unit, and signal line between indoor units.
3. Use twin core cord (0.3mm²) at remote control line.
4. Do not put signal line and remote control line alongside power source line.

PJH000Z017

Model FDUT71KXE6F-E



Notes 1. –– indicates wiring on site.
2. Use twin core shielded cord (0.75~1.25mm²) at signal line between indoor unit and outdoor unit, and signal line between indoor units.
3. Use twin core cord (0.3mm²) at remote control line.
4. Do not put signal line and remote control line alongside power source line.

PJH000Z018

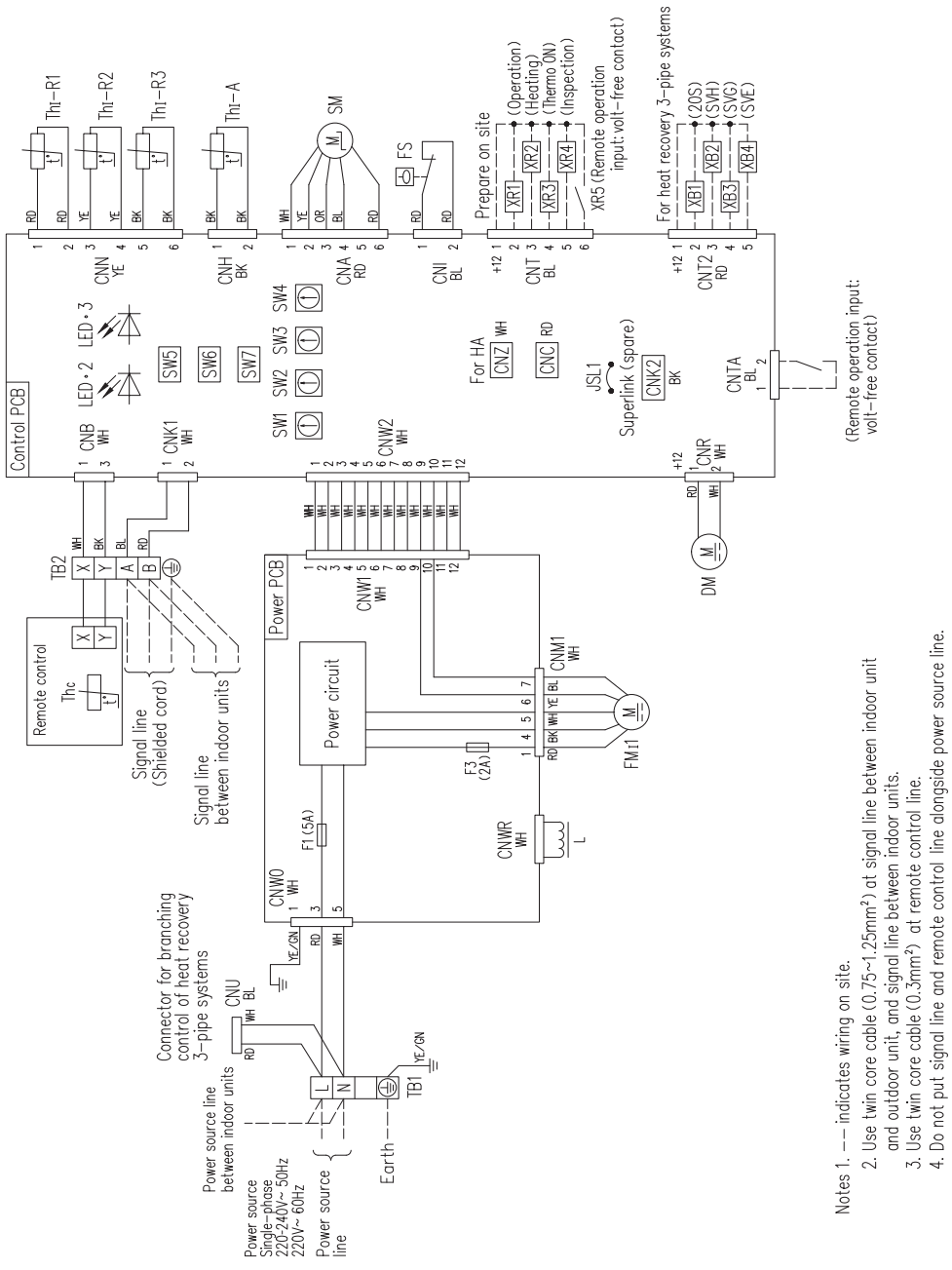
(c) Duct connected-High static pressure type (FDU)

Models FDU45KXE6F, 56KXE6F

CNA~Z	Connector
DM	Drain motor
F1,3	Fuse
FM11	Fan motor (with thermostat)
FS	Float switch
JSL1	Live Superlink terminal setting (for spare)
L	Reactor
LED • 2	Indication lamp (Green–Normal operation)
LED • 3	Indication lamp (Red–Inspection)
SM	Stepping motor (For electronic expansion valve)
SW1	Indoor unit address : tens place
SW2	Indoor unit address : ones place
SW3	Outdoor unit address : tens place
SW4	Outdoor unit address : ones place
SW5–1	Automatic adjustment/Fixed previous version of Superlink protocol
SW5–2	Indoor unit address : hundreds place
SW6	Model capacity setting
SW7–1	Operation check, Drain motor test run
SW7–3	Powerful mode Valid/Invalid
TB1	Terminal block (Power source) (□mark)
TB2	Terminal block (Signal line) (□mark)
Thc	Thermistor (Remote control)
Thi–A	Thermistor (Return air)
Thi–R1,2,3	Thermistor (Heat exchanger)

Color Marks

Mark	Color	Mark	Color
BK	Black	WH	White
BL	Blue	YE	Yellow
OR	Orange	YE/GN	Yellow/Green
RD	Red		



Notes 1. — indicates wiring on site.
2. Use twin core cable (0.75~1.25mm²) at signal line between indoor unit and outdoor unit, and signal line between indoor units.
3. Use twin core cable (0.3mm²) at remote control line.
4. Do not put signal line and remote control line alongside power source line.

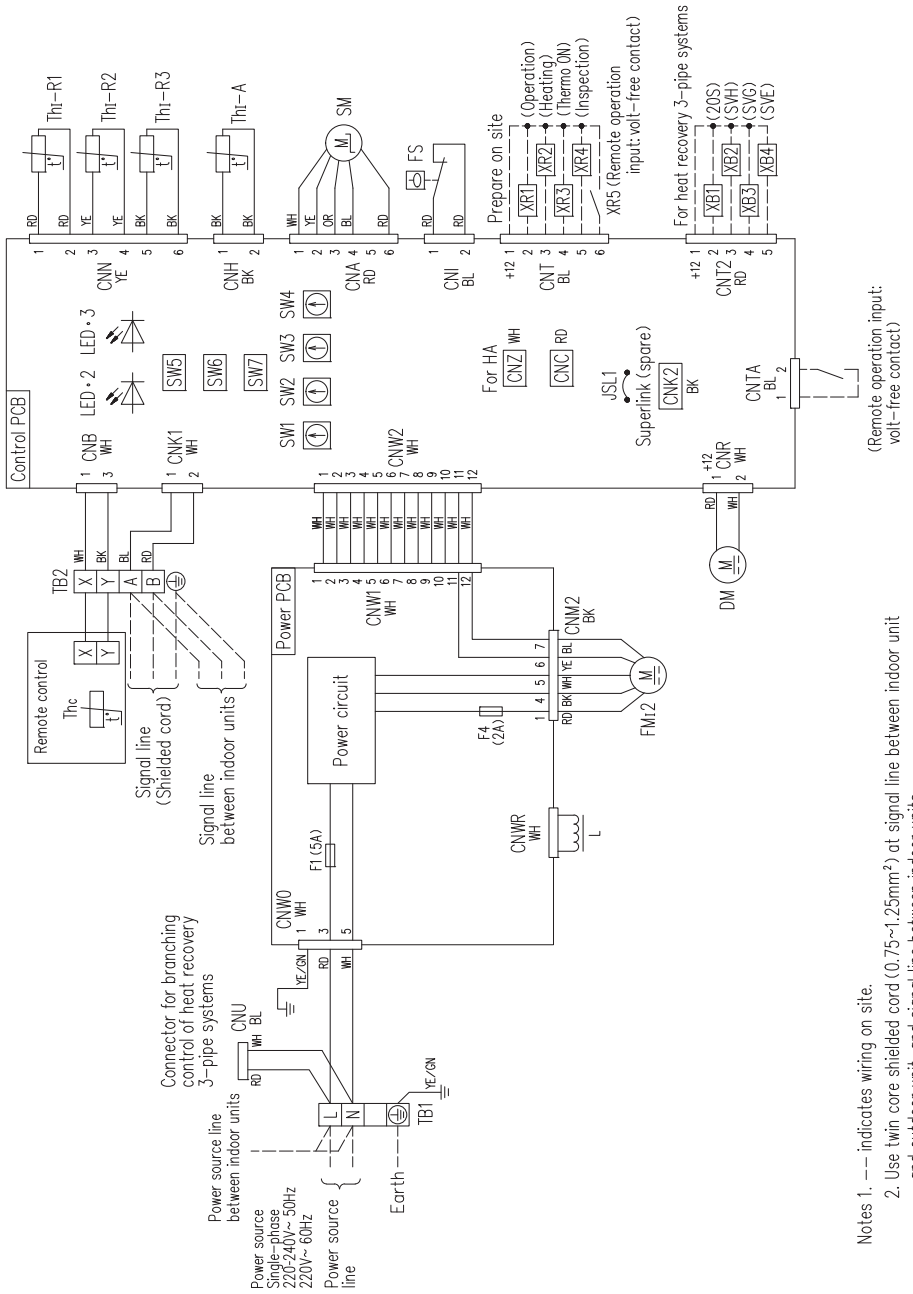
PJG000Z059

Models FDU71KXE6F, 90KXE6F

CNA~Z	Connector
DM	Drain motor
F1,4	Fuse
FM12	Fan motor (with thermostat)
FS	Float switch
JSL1	Live Superlink terminal setting (for spare)
L	Reactor
LED • 2	Indication lamp (Green–Normal operation)
LED • 3	Indication lamp (Red–Inspection)
SM	Stepping motor (For electronic expansion valve)
SW1	Indoor unit address : tens place
SW2	Indoor unit address : ones place
SW3	Outdoor unit address : tens place
SW4	Outdoor unit address : ones place
SW5–1	Automatic adjustment/Fixed previous version of Superlink protocol
SW5–2	Indoor unit address : hundreds place
SW6	Model capacity setting
SW7–1	Operation check, Drain motor test run
SW7–3	Powerful mode Valid/Invalid
TB1	Terminal block (Power source) (□mark)
TB2	Terminal block (Signal line) (□mark)
Thc	Thermistor (Remote control)
Th1–A	Thermistor (Return air)
Th1–R1,2,3	Thermistor (Heat exchanger)

Color Marks

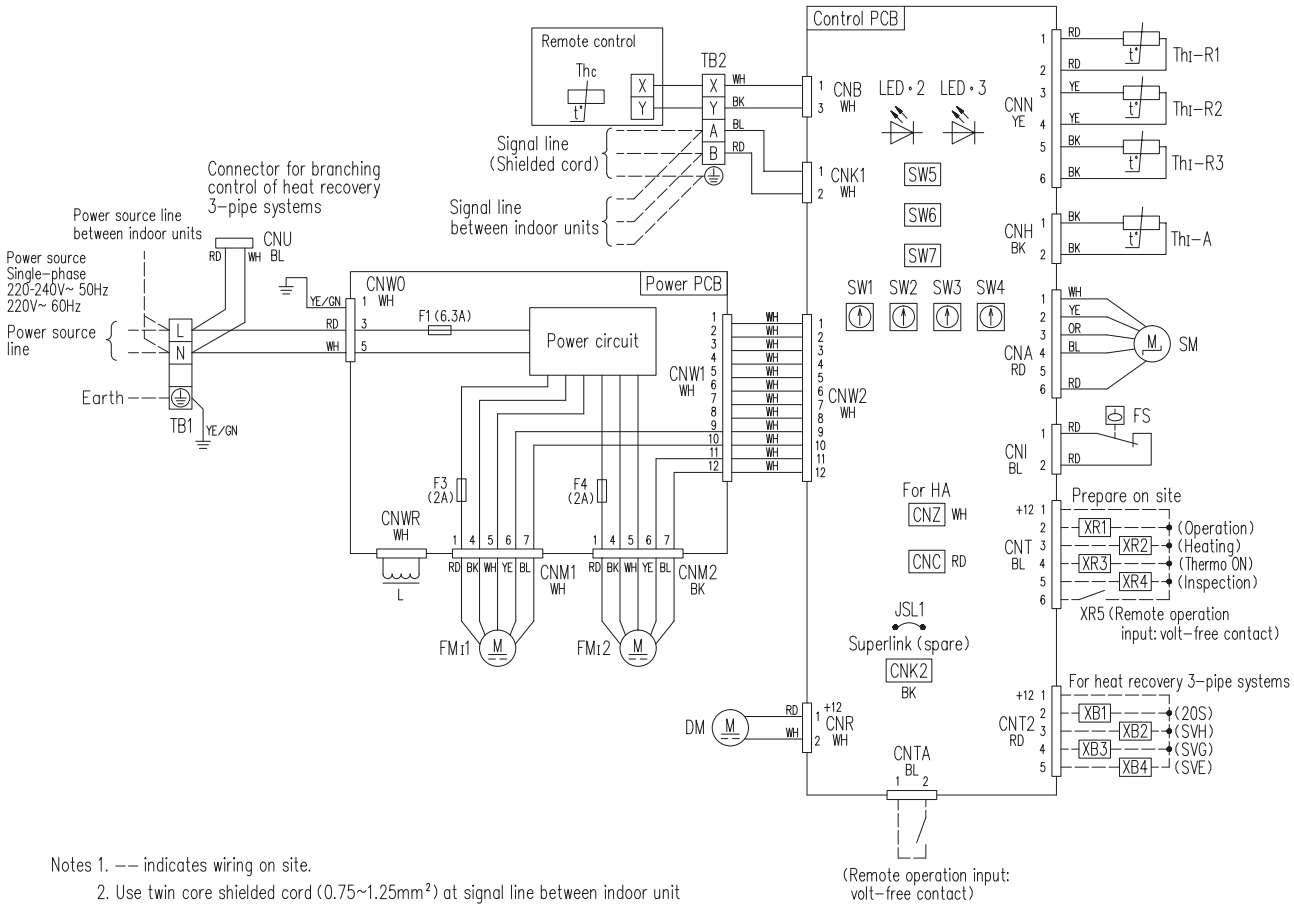
Mark	Color	Mark	Color
BK	Black	WH	White
BL	Blue	YE	Yellow
OR	Orange	YE/GN	Yellow/Green
RD	Red		



Notes 1. — indicates wiring on site.
2. Use twin core shielded cord (0.75~1.25mm²) at signal line between indoor unit and outdoor unit, and signal line between indoor units.
3. Use twin core cord (0.3mm²) at remote control line.
4. Do not put signal line and remote control line alongside power source line.

PJG000Z060

Models FDU112KXE6F, 140KXE6F, 160KXE6F



CNA~Z	Connector
DM	Drain motor
F1,3,4	Fuse
FM11,2	Fan motor (with thermostat)
FS	Float switch
JSL1	Live Superlink terminal setting (for spare)
L	Reactor
LED•2	Indication lamp (Green-Normal operation)
LED•3	Indication lamp (Red-Inspection)
SM	Stepping motor (For electronic expansion valve)
SW1	Indoor unit address : tens place
SW2	Indoor unit address : ones place
SW3	Outdoor unit address : tens place
SW4	Outdoor unit address : ones place
SW5-1	Automatic adjustment/Fixed previous version of Superlink protocol
SW5-2	Indoor unit address : hundreds place
SW6	Model capacity setting
SW7-1	Operation check, Drain motor test run
SW7-3	Powerful mode Valid/Invalid
TB1	Terminal block (Power source) (□mark)
TB2	Terminal block (Signal line) (□mark)
Thc	Thermistor (Remote control)
Th1-A	Thermistor (Return air)
Th1-R1,2,3	Thermistor (Heat exchanger)

Color Marks

Mark	Color	Mark	Color
BK	Black	WH	White
BL	Blue	YE	Yellow
OR	Orange	YE/GN	Yellow/Green
RD	Red		

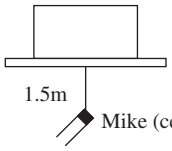
Notes 1. –– indicates wiring on site.
2. Use twin core shielded cord (0.75~1.25mm²) at signal line between indoor unit and outdoor unit, and signal line between indoor units.
3. Use twin core cord (0.3mm²) at remote control line.
4. Do not put signal line and remote control line alongside power source line.

2.4 Noise level

Note (1) The data are based on the following conditions.
Ambient air tempetature: Indoor unit 27˚C DB, 19˚C WB. Outdoor unit 35˚C DB
(2) The data in the chart are measuted in an unechonic room.
(3) The noise levels measured in the field are usually higher than the data because of reflection.

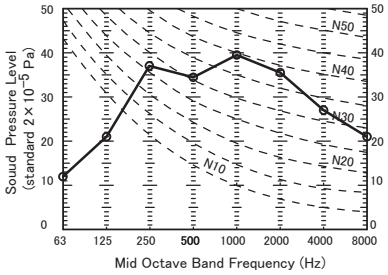
(a) Ceiling cassette-1 way type (FDTS)

Measured based on JIS B 8616
Mike position as below



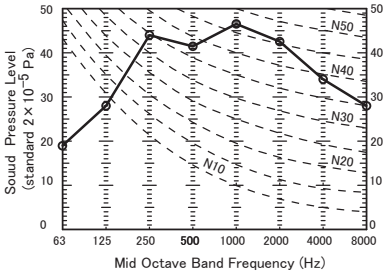
Model FDTS45KXE6F

Noise level 42 dB (A) at P-HIGH
40 dB (A) at HIGH
38 dB (A) at MEDIUM
35 dB (A) at LOW



Model FDTS71KXE6F

Noise level 49 dB (A) at P-HIGH
46 dB (A) at HIGH
41 dB (A) at MEDIUM
36 dB (A) at LOW



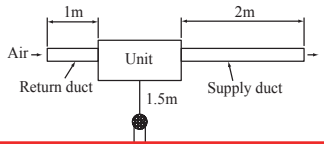
(b) Duct connected (thin)-Low static pressure type (FDUT)

(1) Rear air return

•Mike position : 1.5m bwlow the unit

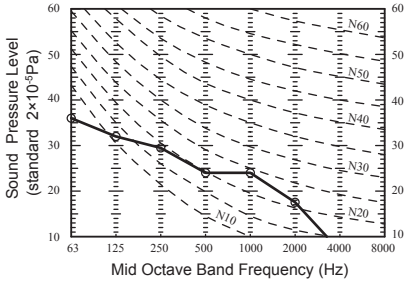
Measured based on JIS B 8616 ANNEX3 (Duct setting)

Mike position as right

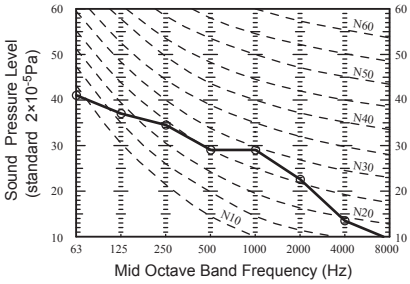


Revision

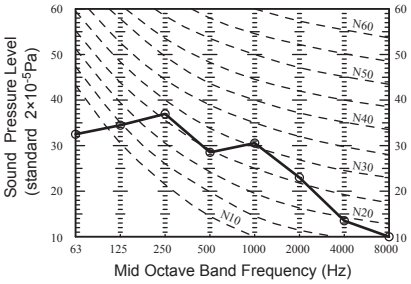
Models FDUT22KXE6F-E,28KXE6F-E
Noise level 28 dB (A) at HIGH
26 dB (A) at MEDIUM
22 dB (A) at LOW



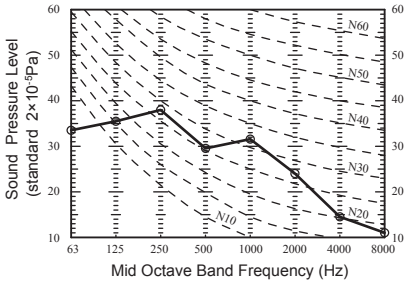
Model FDUT36KXE6F-E
Noise level 33 dB (A) at HIGH
30 dB (A) at MEDIUM
26 dB (A) at LOW



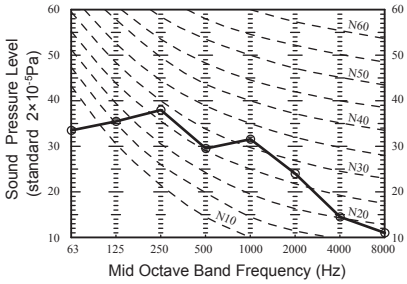
Model FDUT45KXE6F-E
Noise level 34 dB (A) at HIGH
32 dB (A) at MEDIUM
28 dB (A) at LOW



Model FDUT56KXE6F-E
Noise level 35 dB (A) at HIGH
33 dB (A) at MEDIUM
30 dB (A) at LOW



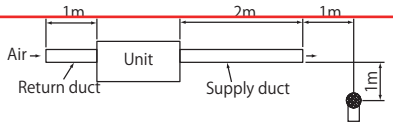
Model FDUT71KXE6F-E
Noise level 35 dB (A) at HIGH
31 dB (A) at MEDIUM
28 dB (A) at LOW



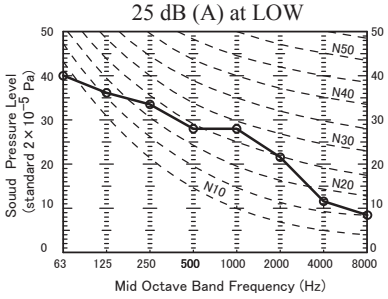
• Mike position : 1m in front and 1m below of the air supply duct

Measured based on JIS B 8616 ANNEX3 (Duct setting)

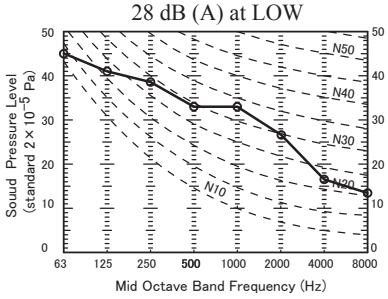
Mike position as right



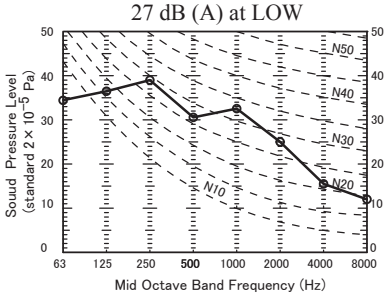
Models FDUT22KXE6F-E,28KXE6F-E
Noise level 32 dB (A) at HIGH
29 dB (A) at MEDIUM
25 dB (A) at LOW



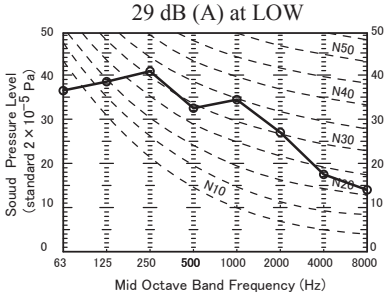
Model FDUT36KXE6F-E
Noise level 37 dB (A) at HIGH
34 dB (A) at MEDIUM
28 dB (A) at LOW



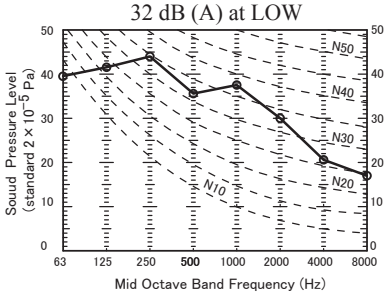
Model FDUT45KXE6F-E
Noise level 36 dB (A) at HIGH
33 dB (A) at MEDIUM
27 dB (A) at LOW



Model FDUT56KXE6F-E
Noise level 38 dB (A) at HIGH
33 dB (A) at MEDIUM
29 dB (A) at LOW



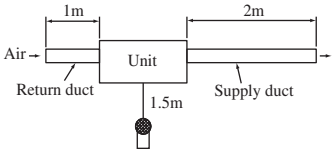
Model FDUT71KXE6F-E
Noise level 41 dB (A) at HIGH
37 dB (A) at MEDIUM
32 dB (A) at LOW



#

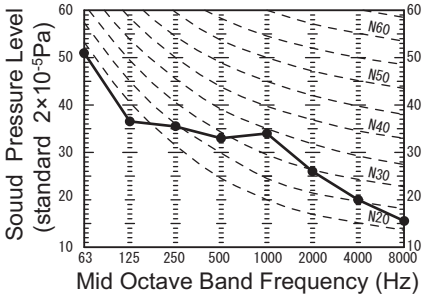
(c) Duct connected-High static pressure type (FDU)

Measured based on JIS B 8616
Mike position as right



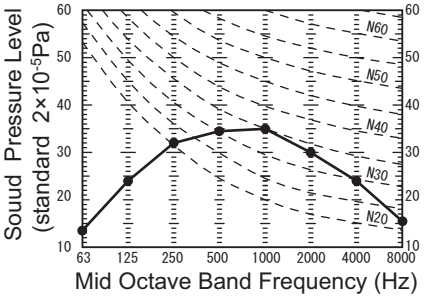
Models FDU45KXE6F,56KXE6F

Noise level 37 dB (A) at P-HIGH
32 dB (A) at HIGH
29 dB (A) at MEDIUM
26 dB (A) at LOW



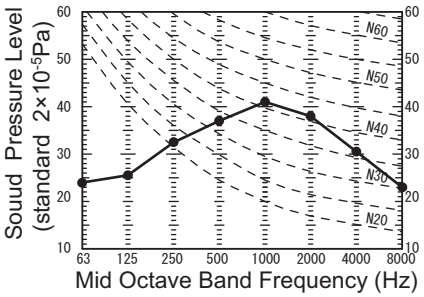
Models FDU71KXE6F,90KXE6F

Noise level 38 dB (A) at P-HIGH
33 dB (A) at HIGH
29 dB (A) at MEDIUM
25 dB (A) at LOW



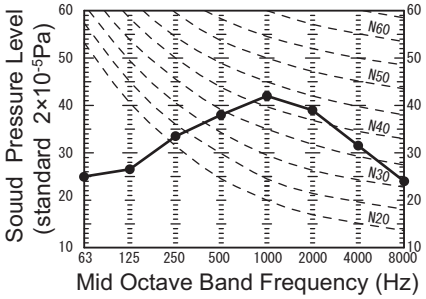
Model FDU112KXE6F

Noise level 44 dB (A) at P-HIGH
38 dB (A) at HIGH
36 dB (A) at MEDIUM
30 dB (A) at LOW



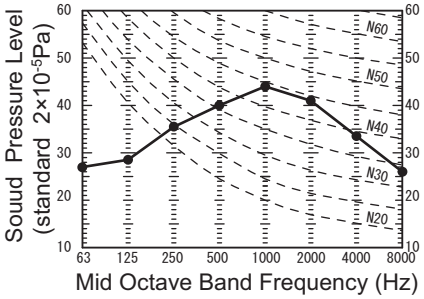
Model FDU140KXE6F

Noise level 45 dB (A) at P-HIGH
40 dB (A) at HIGH
34 dB (A) at MEDIUM
29 dB (A) at LOW



Model FDU160KXE6F

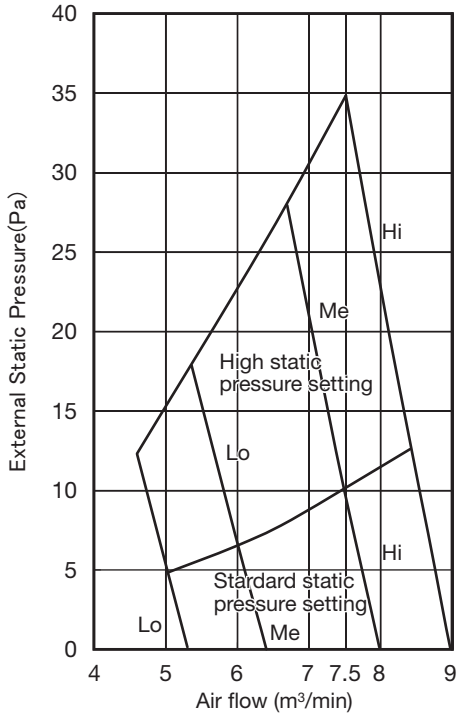
Noise level 47 dB (A) at P-HIGH
40 dB (A) at HIGH
35 dB (A) at MEDIUM
30 dB (A) at LOW



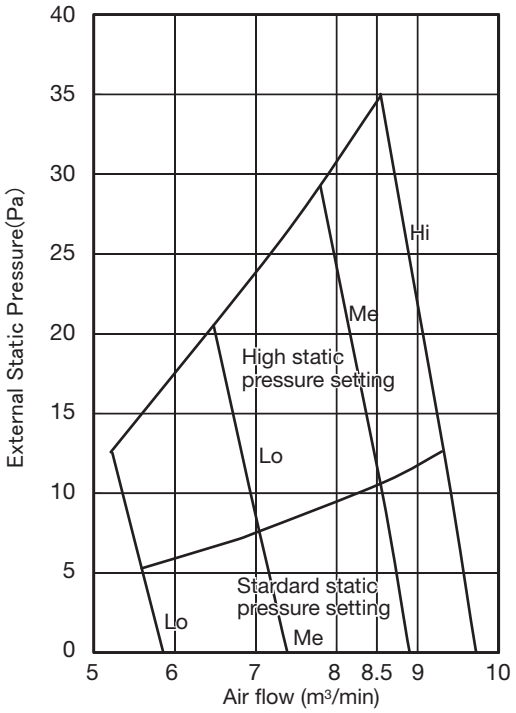
2.5 Characteristics of fan

(a) Duct connected (thin)-Low static pressure type (FDUT)

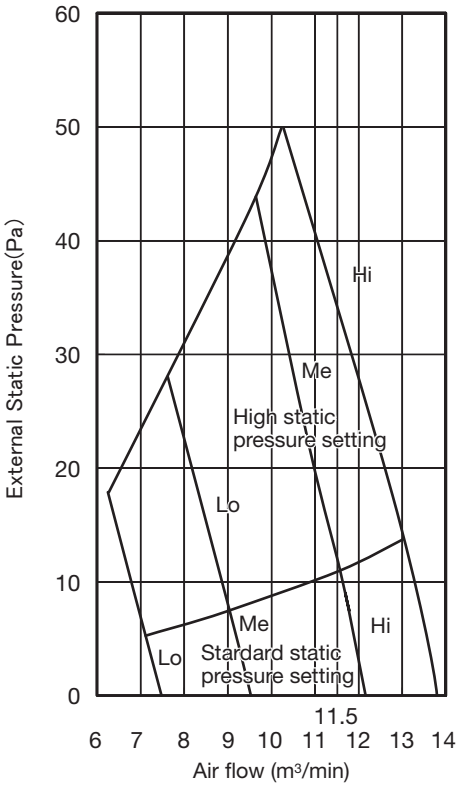
Models FDUT22, 28KXE6F-E



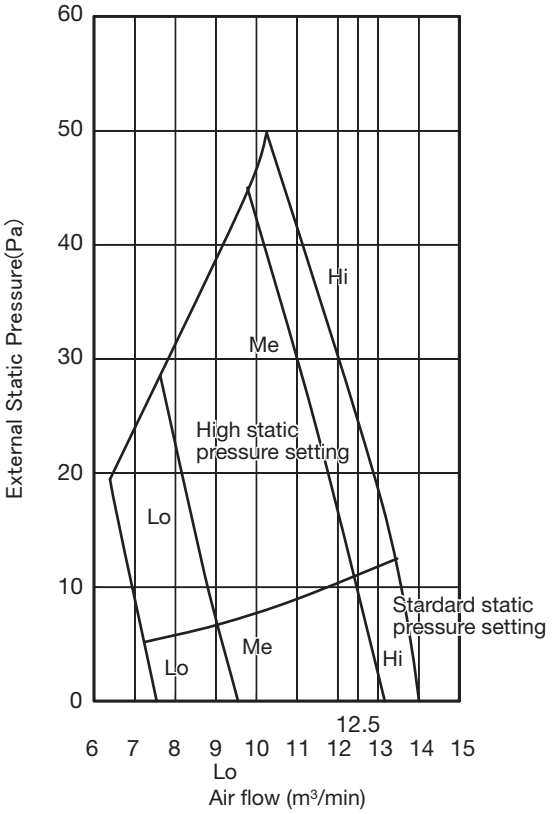
Model FDUT36KXE6F-E



Model FDUT45KXE6F-E



Model FDUT56KXE6F-E



Model FDUT71KXE6F-E

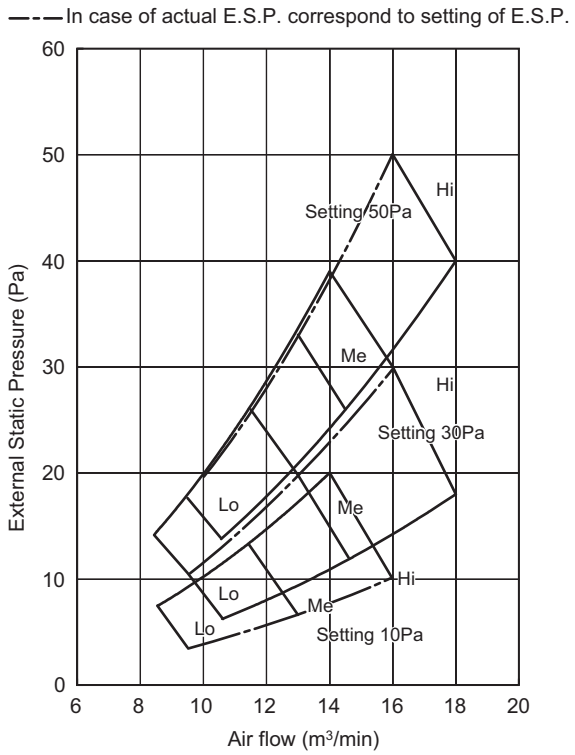
Characteristic FAN(1) shows air flow vs External Static Pressure(E.S.P.) range where settings of E.S.P. are maximun E.S.P.(50Pa), E.S.P.(30Pa), and minimum E.S.P.(10Pa).

Characteristic FAN(2) shows air flows vs E.S.P. curve when set fan tap is set Hi with each setting of E.S.P. by remote control.

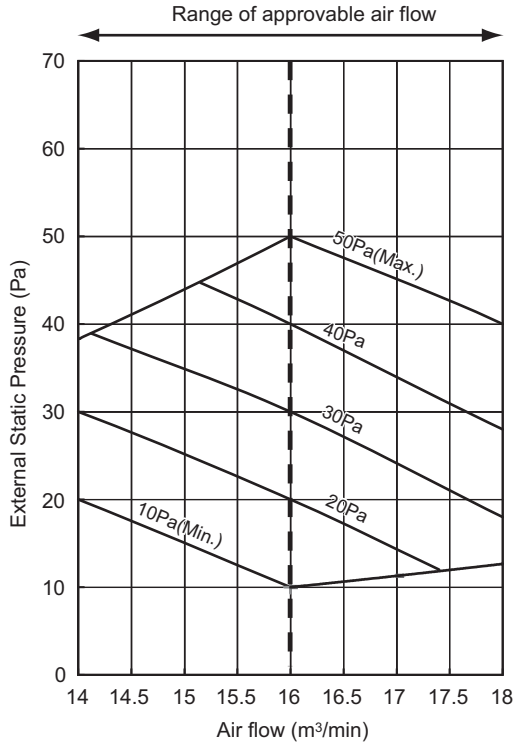
External Static Pressure(E.S.P.) can be set by wired remote control.

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.

Characteristic FAN (1)



Characteristic FAN (2)



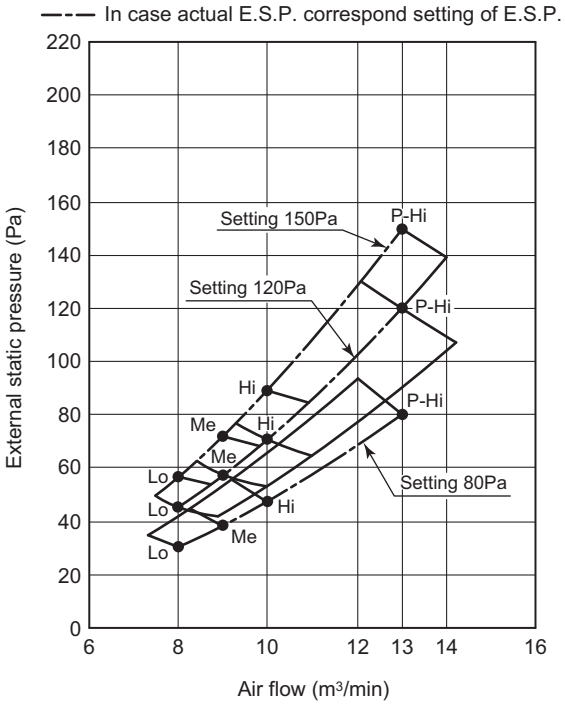
(b) Duct connected-High static pressure type (FDU)

- 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.

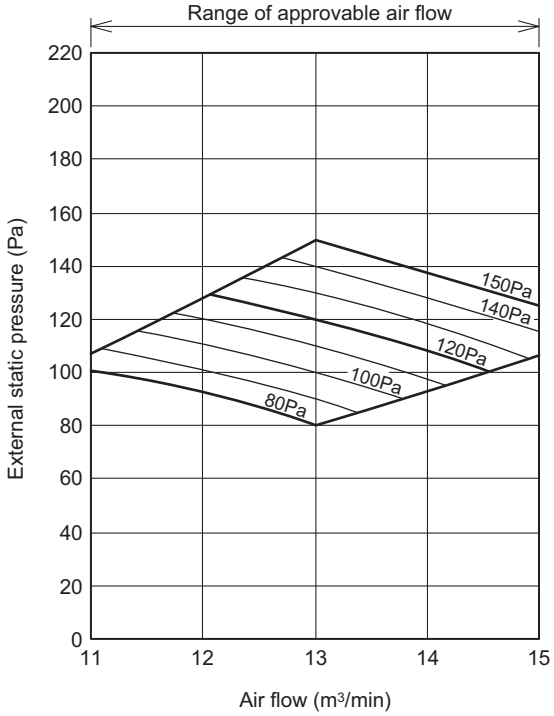
Models FDU45KXE6F, 56KXE6F

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

Characteristic FAN (1)

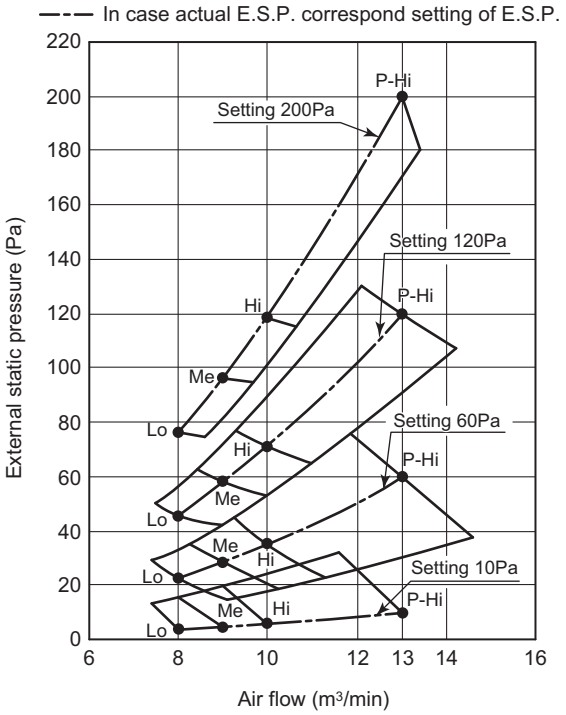


Characteristic FAN (2)

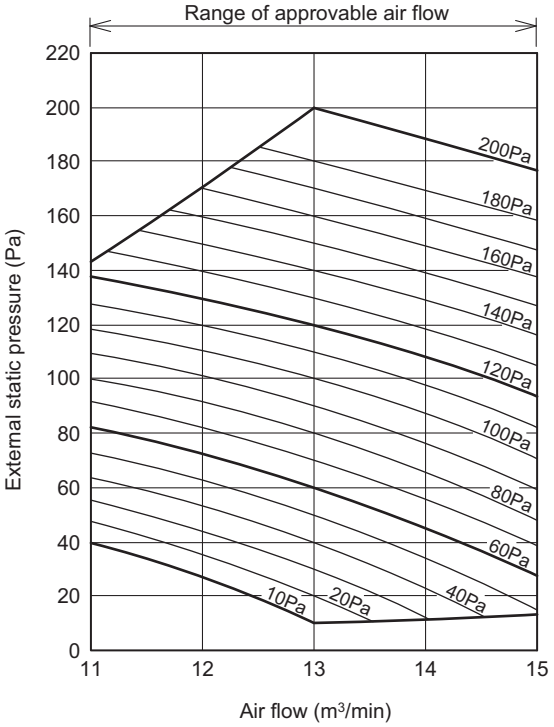


■SW8-4 : ON (Range of use limitation : Setting 10Pa-200Pa)

Characteristic FAN (1)



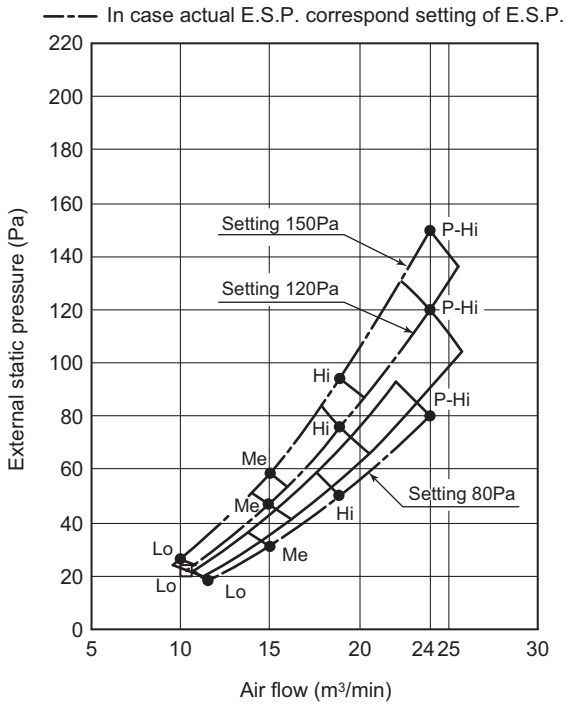
Characteristic FAN (2)



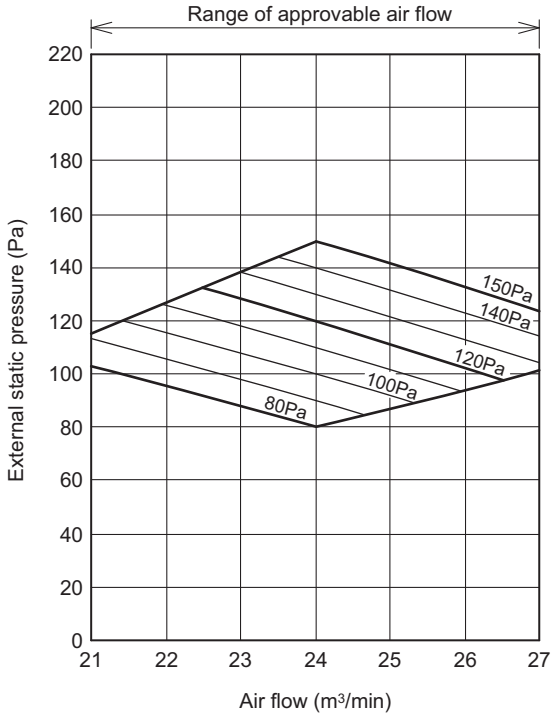
Models FDU71KXE6F, 90KXE6F

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

Characteristic FAN (1)

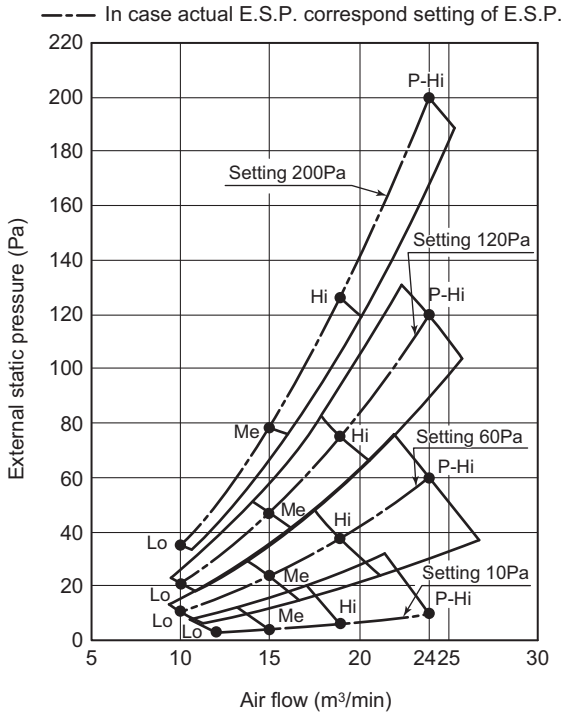


Characteristic FAN (2)

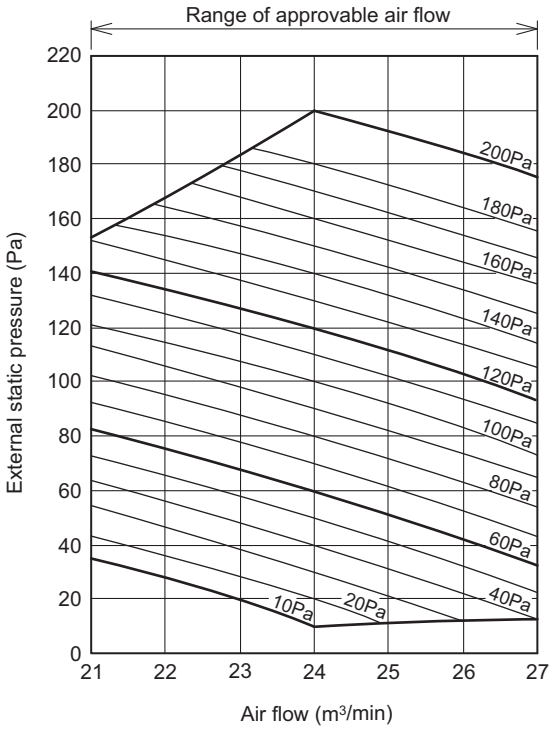


■SW8-4 : ON (Range of use limitation : Setting 10Pa-200Pa)

Characteristic FAN (1)



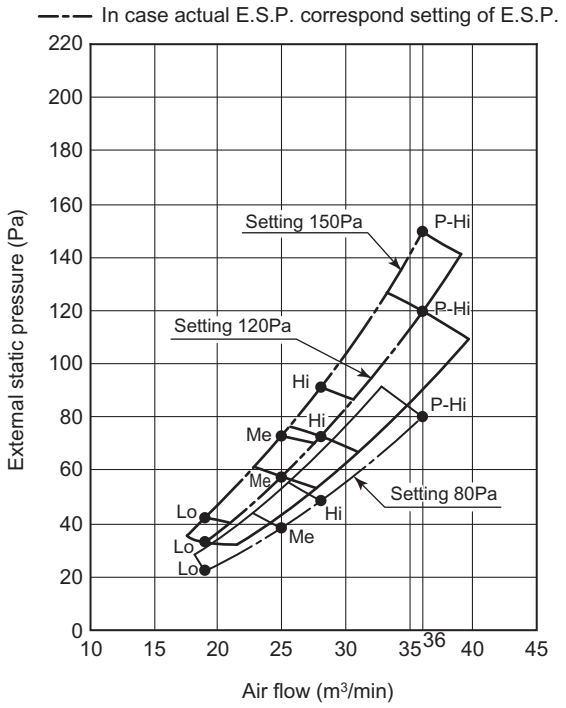
Characteristic FAN (2)



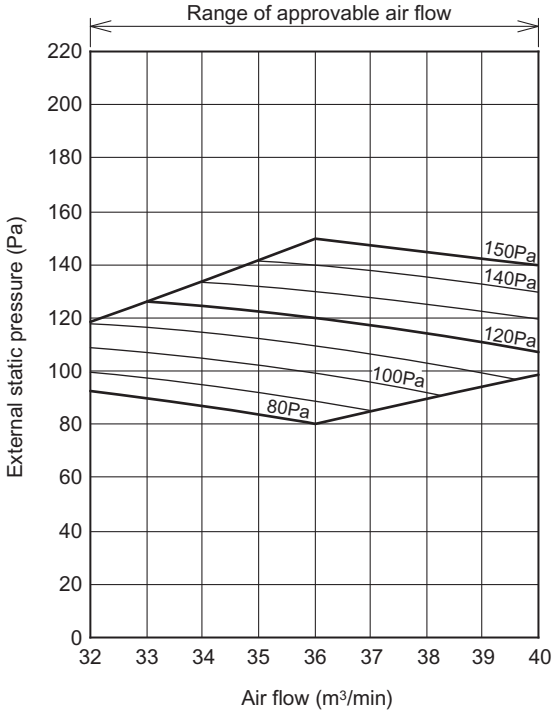
Model FDU112KXE6F

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

Characteristic FAN (1)

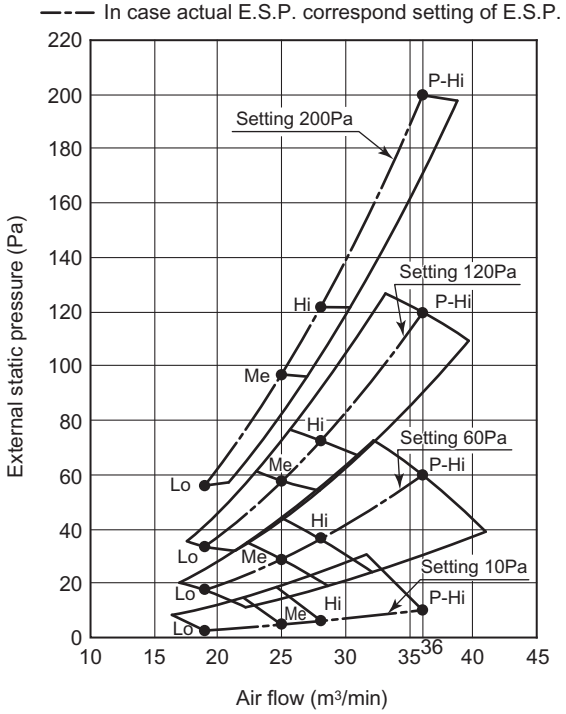


Characteristic FAN (2)

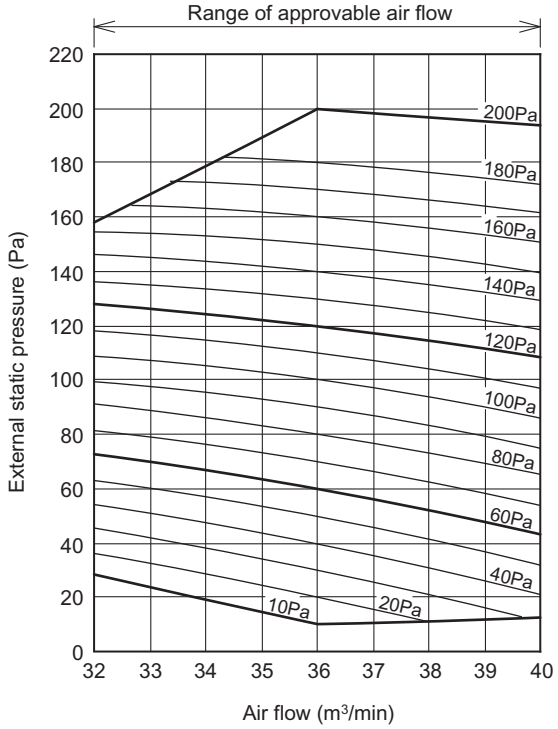


■SW8-4 : ON (Range of use limitation : Setting 10Pa-200Pa)

Characteristic FAN (1)



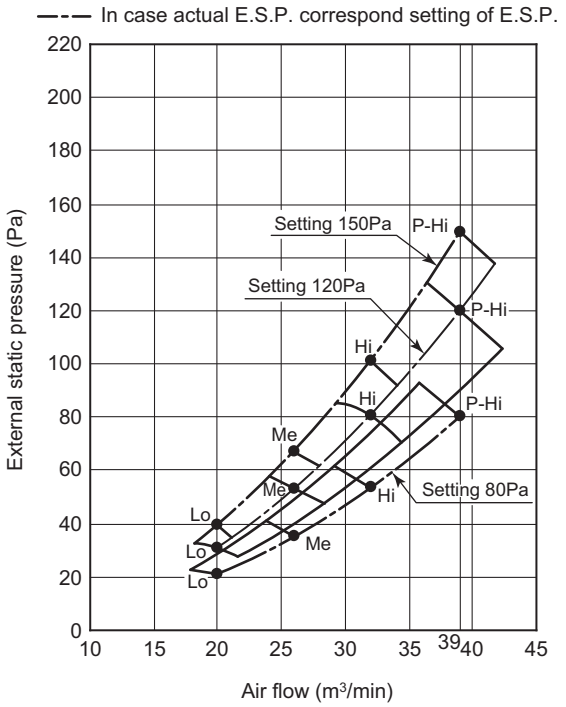
Characteristic FAN (2)



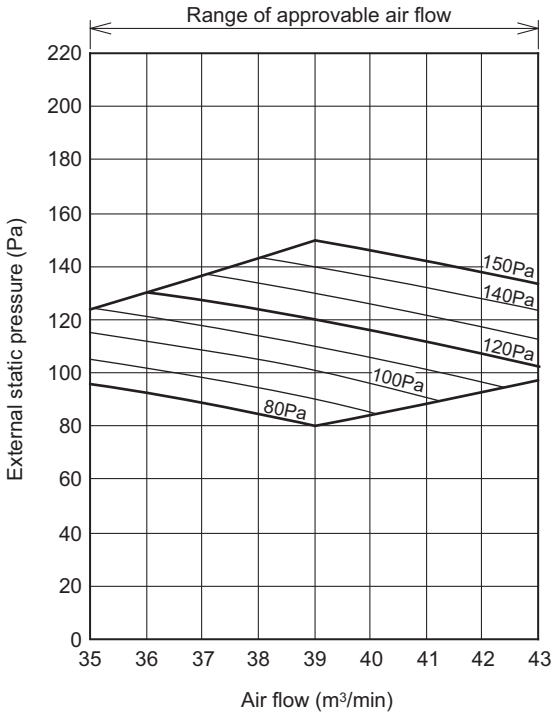
Model FDU140KXE6F

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

Characteristic FAN (1)

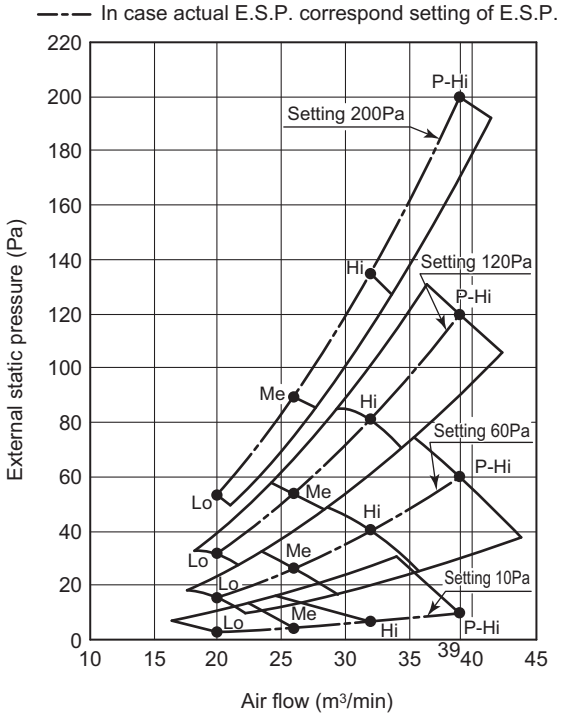


Characteristic FAN (2)

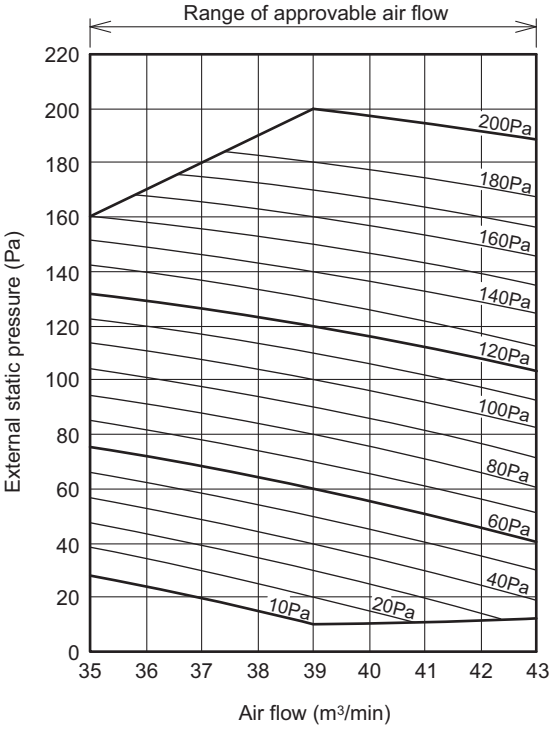


■SW8-4 : ON (Range of use limitation : Setting 10Pa-200Pa)

Characteristic FAN (1)



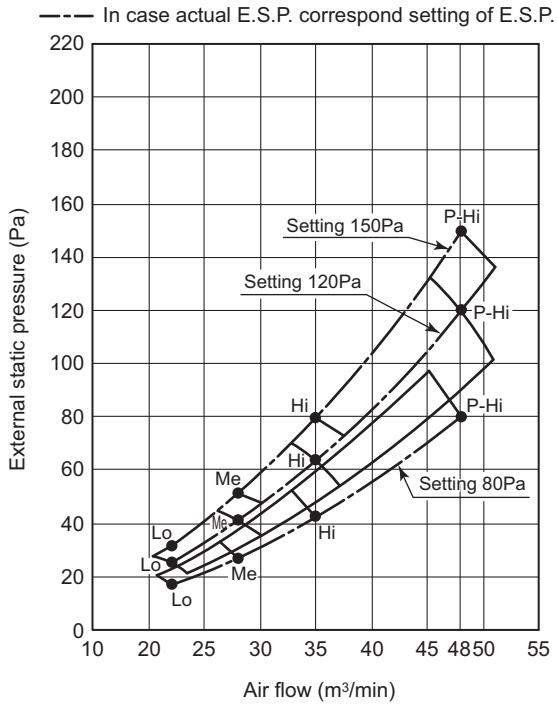
Characteristic FAN (2)



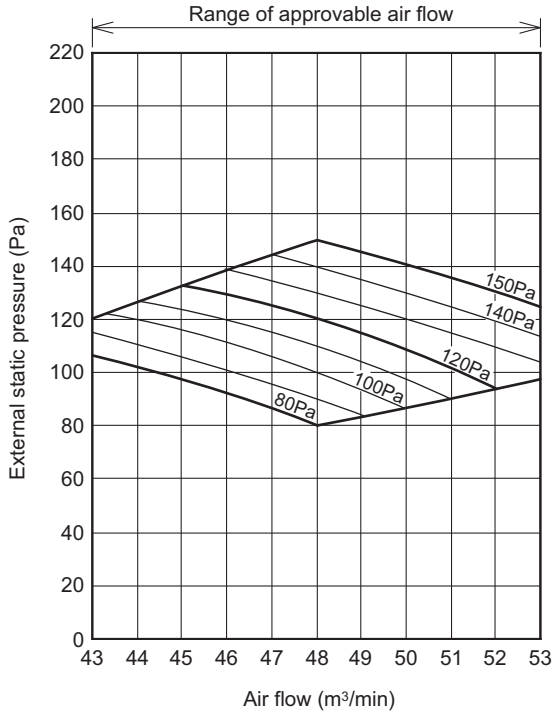
Model FDU160KXE6F

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

Characteristic FAN (1)

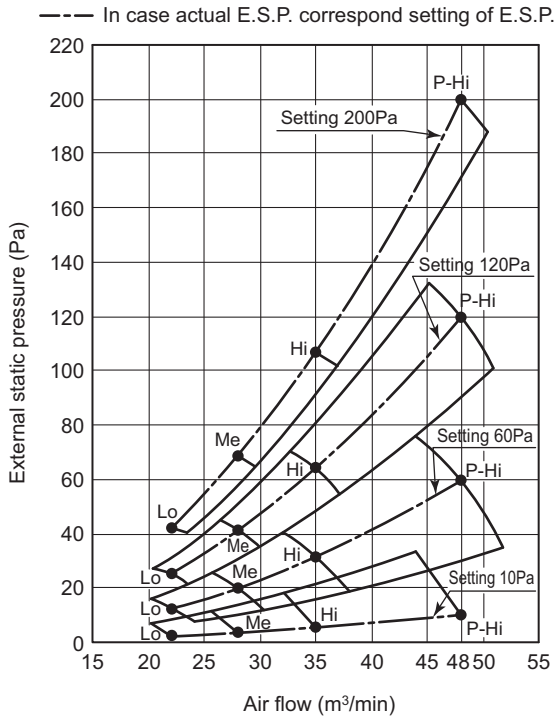


Characteristic FAN (2)

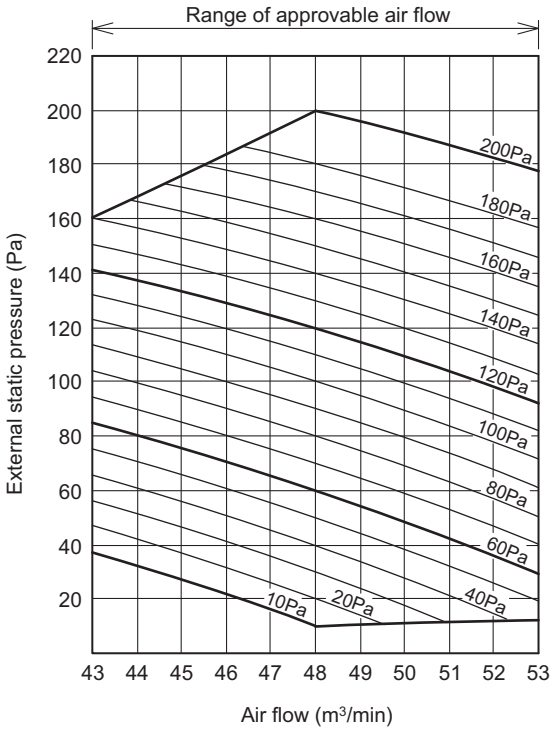


■SW8-4 : ON (Range of use limitation : Setting 10Pa-200Pa)

Characteristic FAN (1)



Characteristic FAN (2)



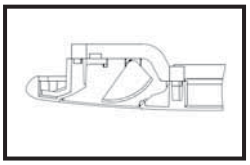
2.6 Temperature and velocity distribution

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.

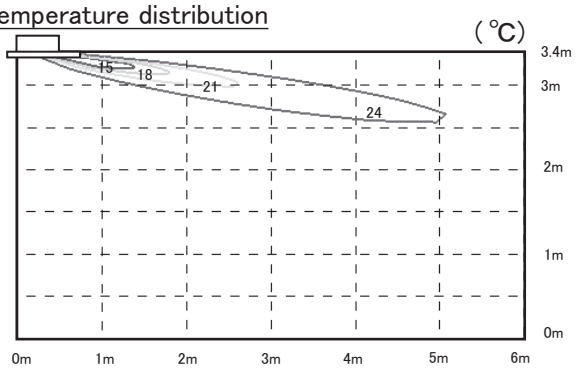
(a) Ceiling cassette-1 way type (FDTS)
Model FDTS45KXE6F

Cooling Air flow: P-Hi

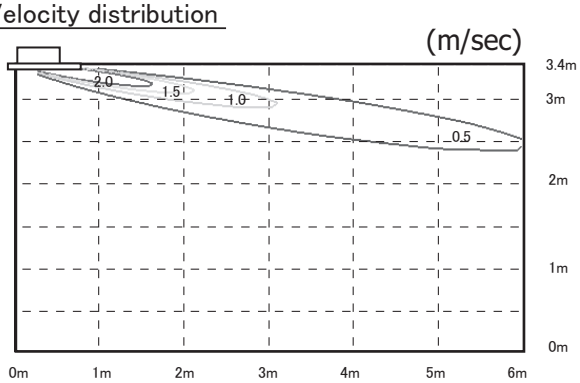
Louver position



Temperature distribution

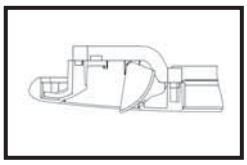


Velocity distribution

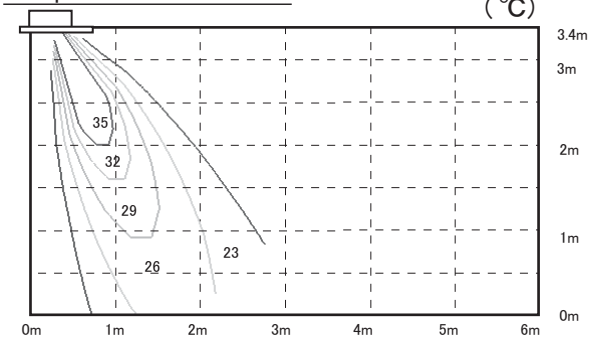


Heating Air flow: P-Hi

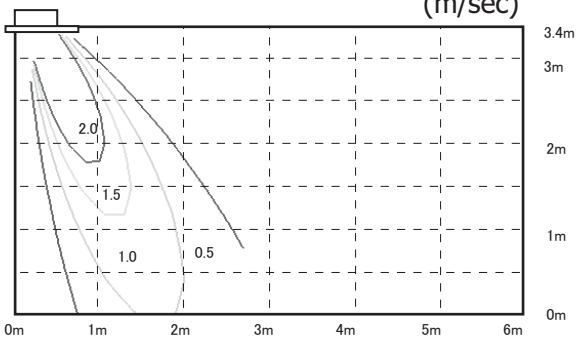
Louver position



Temperature distribution



Velocity distribution

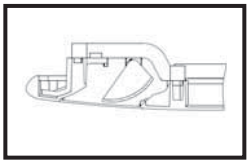


ISD12329

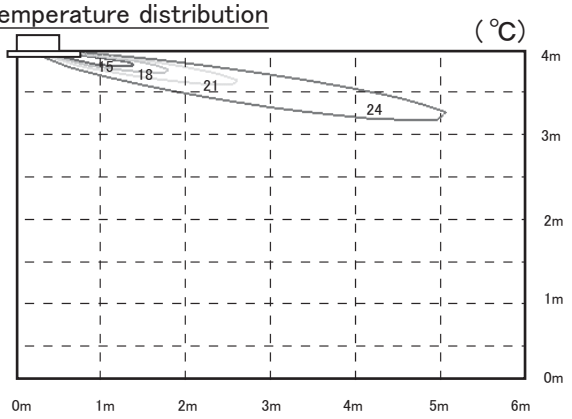
Model FDTS71KXE6F

Cooling Air flow : P-Hi

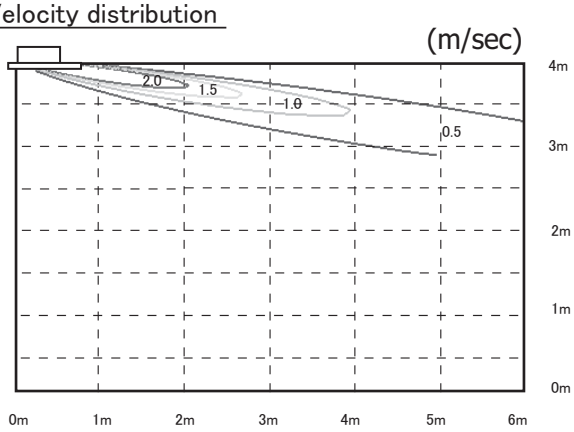
Louver position



Temperature distribution

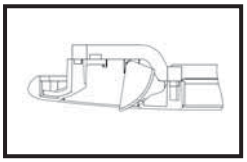


Velocity distribution

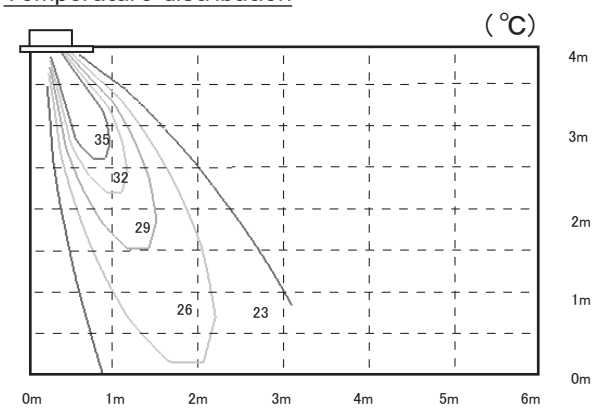


Heating Air flow : P-Hi

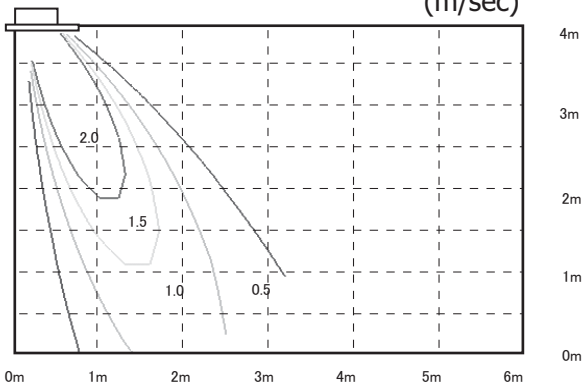
Louver position



Temperature distribution



Velocity distribution



2.7 Capacity tables

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.

(a) Ceiling cassette-1 way type (FDTS)

Model **FDTS45KXE6F** Cool Mode (kW)

Air flow	Outdoor air temp.	Indoor air temperature 21 °CDB 14 °CWB TC	21 °CDB 14 °CWB SHC	23 °CDB 16 °CWB TC	23 °CDB 16 °CWB SHC	26 °CDB 18 °CWB TC	26 °CDB 18 °CWB SHC	27 °CDB 19 °CWB TC	27 °CDB 19 °CWB SHC	28 °CDB 20 °CWB TC	28 °CDB 20 °CWB SHC	31 °CDB 22 °CWB TC	31 °CDB 22 °CWB SHC	33 °CDB 24 °CWB TC	33 °CDB 24 °CWB SHC
P-Hi 13 (m³/min)	10			3.69	2.94	4.41	3.32	4.77	3.40	5.07	3.45	5.68	3.72	5.90	3.61
	12			3.69	2.94	4.41	3.32	4.77	3.40	5.07	3.45	5.66	3.71	5.88	3.61
	14			3.69	2.94	4.41	3.32	4.77	3.40	5.06	3.45	5.64	3.71	5.85	3.60
	16			3.69	2.94	4.41	3.32	4.77	3.40	5.05	3.44	5.62	3.70	5.83	3.59
	18			3.69	2.94	4.41	3.32	4.77	3.40	5.05	3.44	5.60	3.67	5.80	3.58
	20			3.69	2.94	4.41	3.32	4.77	3.40	5.04	3.44	5.58	3.67	5.78	3.58
	22			3.68	2.93	4.41	3.32	4.77	3.40	5.02	3.43	5.51	3.65	5.70	3.56
	24			3.68	2.93	4.41	3.32	4.77	3.40	4.99	3.42	5.44	3.63	5.62	3.53
	26			3.68	2.93	4.39	3.32	4.73	3.38	4.93	3.39	5.35	3.59	5.53	3.49
	28	3.33	2.89	3.67	2.93	4.37	3.30	4.68	3.37	4.88	3.37	5.27	3.56	5.44	3.46
	30	3.33	2.89	3.66	2.93	4.33	3.29	4.64	3.35	4.82	3.34	5.19	3.53	5.36	3.43
	32	3.33	2.89	3.65	2.92	4.30	3.28	4.59	3.33	4.76	3.32	5.11	3.50	5.28	3.40
	34	3.33	2.89	3.64	2.92	4.28	3.26	4.53	3.30	4.69	3.29	5.00	3.46	5.17	3.37
	35	3.33	2.89	3.64	2.92	4.28	3.26	4.50	3.29	4.65	3.27	4.95	3.44	5.12	3.35
	36	3.33	2.89	3.63	2.91	4.24	3.25	4.48	3.28	4.60	3.26	4.86	3.41	5.02	3.32
	38	3.33	2.89	3.62	2.90	4.18	3.22	4.43	3.26	4.52	3.22	4.68	3.32	4.82	3.24
	39	3.33	2.89	3.62	2.90	4.15	3.20	4.41	3.25	4.47	3.20	4.59	3.30	4.72	3.21
	41	3.33	2.89	3.61	2.90	4.02	3.15	4.23	3.16	4.28	3.12	4.39	3.23	4.50	3.14
	43	3.33	2.89	3.59	2.89	3.90	3.11	4.05	3.10	4.09	3.06	4.18	3.16	4.28	3.07

Heat Mode (kW)

Air flow	outdoor temp DB	outdoor temp WB	indoor temp 16 °CDB	18 °CDB	20 °CDB	22 °CDB	24 °CDB
P-Hi 13 (m³/min)	-19.8	-20	2.90	2.90	2.90	2.90	2.90
	-17.8	-18	3.09	3.09	3.09	3.09	3.09
	-15.7	-16	3.27	3.27	3.27	3.27	3.27
	-13.7	-14	3.46	3.46	3.46	3.46	3.46
	-11.7	-12	3.65	3.65	3.65	3.65	3.65
	-9.6	-10	3.83	3.83	3.83	3.83	3.83
	-7.5	-8	4.07	4.07	4.07	4.07	4.07
	-5.5	-6	4.30	4.30	4.30	4.30	4.30
	-3.4	-4	4.45	4.44	4.44	4.39	4.35
	-1.3	-2	4.60	4.59	4.58	4.49	4.40
	0.8	0	4.85	4.78	4.71	4.54	4.38
	3.9	3	5.26	5.08	4.89	4.61	4.34
	7.0	6	5.75	5.38	5.00	4.65	4.30
	10.1	9	5.71	5.35	4.98	4.62	4.26
	13.2	12	5.68	5.31	4.95	4.59	4.23
	16.9	15.5	5.63	5.27	4.91	4.54	4.18

Air flow	Outdoor air temp. (°CDB)	Indoor air temperature 21 °CDB 14 °CWB TC	21 °CDB 14 °CWB SHC	23 °CDB 16 °CWB TC	23 °CDB 16 °CWB SHC	26 °CDB 18 °CWB TC	26 °CDB 18 °CWB SHC	27 °CDB 19 °CWB TC	27 °CDB 19 °CWB SHC	28 °CDB 20 °CWB TC	28 °CDB 20 °CWB SHC	31 °CDB 22 °CWB TC	31 °CDB 22 °CWB SHC	33 °CDB 24 °CWB TC	33 °CDB 24 °CWB SHC
Hi 12 (m³/min)	10			3.48	2.76	4.16	3.12	4.50	3.19	4.79	3.24	5.37	3.49	5.57	3.40
	12			3.48	2.76	4.16	3.12	4.50	3.19	4.78	3.23	5.35	3.49	5.55	3.40
	14			3.48	2.76	4.16	3.12	4.50	3.19	4.78	3.23	5.33	3.48	5.52	3.38
	16			3.48	2.76	4.16	3.12	4.50	3.19	4.77	3.23	5.31	3.48	5.50	3.38
	18			3.48	2.76	4.16	3.12	4.50	3.19	4.77	3.23	5.29	3.46	5.48	3.37
	20			3.48	2.76	4.16	3.12	4.50	3.19	4.76	3.23	5.27	3.46	5.45	3.36
	22			3.48	2.76	4.16	3.12	4.50	3.19	4.74	3.22	5.20	3.43	5.38	3.34
	24			3.47	2.75	4.16	3.12	4.50	3.19	4.71	3.20	5.14	3.40	5.30	3.31
	26			3.47	2.75	4.14	3.11	4.46	3.18	4.66	3.19	5.06	3.37	5.22	3.28
	28	3.14	2.71	3.47	2.75	4.12	3.10	4.42	3.15	4.60	3.16	4.97	3.34	5.14	3.25
	30	3.14	2.71	3.46	2.74	4.09	3.09	4.38	3.13	4.55	3.12	4.90	3.31	5.06	3.21
	32	3.14	2.71	3.45	2.74	4.06	3.07	4.33	3.11	4.50	3.11	4.82	3.27	4.99	3.19
	34	3.14	2.71	3.44	2.73	4.04	3.07	4.28	3.10	4.42	3.08	4.72	3.24	4.88	3.16
	35	3.14	2.71	3.43	2.73	4.04	3.07	4.25	3.09	4.39	3.07	4.67	3.22	4.83	3.14
	36	3.14	2.71	3.43	2.73	4.01	3.05	4.23	3.08	4.35	3.06	4.59	3.20	4.74	3.11
	38	3.14	2.71	3.42	2.73	3.94	3.02	4.18	3.05	4.26	3.02	4.42	3.13	4.55	3.05
	39	3.14	2.71	3.42	2.73	3.91	3.01	4.16	3.05	4.22	3.00	4.33	3.10	4.46	3.01
	41	3.14	2.71	3.40	2.72	3.80	2.96	3.99	2.98	4.04	2.93	4.14	3.03	4.25	2.94
	43	3.14	2.71	3.39	2.72	3.68	2.91	3.82	2.90	3.87	2.87	3.95	2.96	4.04	2.86

Air flow	outdoor temp DB	outdoor temp WB	indoor temp 16 °CDB	18 °CDB	20 °CDB	22 °CDB	24 °CDB
Hi 12 (m³/min)	-19.8	-20	2.72	2.72	2.72	2.72	2.72
	-17.8	-18	2.89	2.89	2.89	2.89	2.89
	-15.7	-16	3.07	3.07	3.07	3.07	3.07
	-13.7	-14	3.24	3.24	3.24	3.24	3.24
	-11.7	-12	3.42	3.42	3.42	3.42	3.42
	-9.6	-10	3.59	3.59	3.59	3.59	3.59
	-7.5	-8	3.81	3.81	3.81	3.81	3.81
	-5.5	-6	4.03	4.03	4.03	4.03	4.03
	-3.4	-4	4.17	4.16	4.16	4.11	4.07
	-1.3	-2	4.31	4.30	4.28	4.20	4.12
	0.8	0	4.54	4.48	4.41	4.26	4.10
	3.9	3	4.93	4.75	4.58	4.32	4.06
	7.0	6	5.38	5.03	4.68	4.35	4.03
	10.1	9	5.35	5.01	4.66	4.33	3.99
	13.2	12	5.31	4.98	4.64	4.30	3.96
	16.9	15.5	5.27	4.93	4.59	4.26	3.92

Air flow	Outdoor air temp. (°CDB)	Indoor air temperature 21 °CDB 14 °CWB TC	21 °CDB 14 °CWB SHC	23 °CDB 16 °CWB TC	23 °CDB 16 °CWB SHC	26 °CDB 18 °CWB TC	26 °CDB 18 °CWB SHC	27 °CDB 19 °CWB TC	27 °CDB 19 °CWB SHC	28 °CDB 20 °CWB TC	28 °CDB 20 °CWB SHC	31 °CDB 22 °CWB TC	31 °CDB 22 °CWB SHC	33 °CDB 24 °CWB TC	33 °CDB 24 °CWB SHC
Me 11 (m³/min)	10			3.27	2.57	3.90	2.90	4.22	2.97	4.49	3.02	5.03	3.26	5.23	3.17
	12			3.27	2.57	3.90	2.90	4.22	2.97	4.49	3.02	5.02	3.25	5.20	3.16
	14			3.27	2.57	3.90	2.90	4.22	2.97	4.48	3.01	5.00	3.25	5.18	3.16
	16			3.27	2.57	3.90	2.90	4.22	2.97	4.48	3.01	4.98	3.24	5.16	3.15
	18			3.27	2.57	3.90	2.90	4.22	2.97	4.47	3.01	4.96	3.23	5.14	3.14
	20			3.27	2.57	3.90	2.90	4.22	2.97	4.46	3.01	4.94	3.22	5.11	3.11
	22			3.26	2.56	3.90	2.90	4.22	2.97	4.44	3.00	4.88	3.20	5.04	3.09
	24			3.26	2.56	3.90	2.90	4.22	2.97	4.42	2.99	4.82	3.16	4.97	3.08
	26			3.25	2.56	3.88	2.90	4.18	2.96	4.37	2.97	4.74	3.14	4.90	3.06
	28	2.95	2.53	3.25	2.56	3.87	2.89	4.14	2.94	4.32	2.95	4.67	3.11	4.82	3.03
	30	2.95	2.53	3.24	2.56	3.84	2.88	4.10	2.93	4.27	2.93	4.59	3.08	4.75	3.00
	32	2.95	2.53	3.24	2.56	3.81	2.86	4.06	2.91	4.22	2.91	4.52	3.06	4.68	2.98
	34	2.95	2.53	3.23	2.55	3.79	2.86	4.01	2.89	4.15	2.88	4.43	3.02	4.58	2.94
	35	2.95	2.53	3.22	2.55	3.79	2.86	3.98	2.87	4.12	2.87	4.38	3.01	4.53	2.92
	36	2.95	2.53	3.22	2.55	3.76	2.85	3.96	2.87	4.08	2.85	4.30	2.98	4.44	2.89
	38	2.95	2.53	3.21	2.54	3.70	2.82	3.92	2.85	4.00	2.81	4.14	2.91	4.27	2.82
	39	2.95	2.53	3.20	2.54	3.67	2.80	3.91	2.84	3.96	2.80	4.07	2.89	4.18	2.79
	41	2.95	2.53	3.19	2.53	3.56	2.75	3.75	2.77	3.79	2.72	3.89	2.81	3.98	2.74
	43	2.95	2.53	3.18	2.53	3.45	2.71	3.59	2.71	3.63	2.67	3.70	2.75	3.79	2.67

Air flow	outdoor temp DB	outdoor temp WB	indoor temp 16 °CDB	18 °CDB	20 °CDB	22 °CDB	24 °CDB
Me 11 (m³/min)	-19.8	-20	2.53	2.53	2.53	2.53	2.53
	-17.8	-18	2.69	2.69	2.69	2.69	2.69
	-15.7	-16	2.85	2.85	2.85	2.85	2.85
	-13.7	-14	3.01	3.01	3.01	3.01	3.01
	-11.7	-12	3.18	3.18	3.18	3.18	3.18
	-9.6	-10	3.34	3.34	3.34	3.34	3.34
	-7.5	-8	3.54	3.54	3.54	3.54	3.54
	-5.5	-6	3.74	3.74	3.74	3.74	3.74
	-3.4	-4	3.88	3.87	3.86	3.83	3.79
	-1.3	-2	4.01	3.99	3.98	3.91	3.83
	0.8	0	4.22	4.16	4.10	3.96	3.81
	3.9	3	4.58	4.42	4.26	4.02	3.78
	7.0	6	5.01	4.68	4.35	4.05	3.74
	10.1	9	4.97	4.66	4.34	4.02	3.71
	13.2	12	4.94	4.63	4.31	3.99	3.68
	16.9	15.5	4.90	4.59	4.27	3.96	3.64

Air flow	Outdoor air temp. (°CDB)	Indoor air temperature 21 °CDB 14 °CWB TC	21 °CDB 14 °CWB SHC	23 °CDB 16 °CWB TC	23 °CDB 16 °CWB SHC	26 °CDB 18 °CWB TC	26 °CDB 18 °CWB SHC	27 °CDB 19 °CWB TC	27 °CDB 19 °CWB SHC	28 °CDB 20 °CWB TC	28 °CDB 20 °CWB SHC	31 °CDB 22 °CWB TC	31 °CDB 22 °CWB SHC	33 °CDB 24 °CWB TC	33 °CDB 24 °CWB SHC
Lo 9.5 (m³/min)	10			2.92	2.27	3.49	2.57	3.77	2.64	4.02	2.68	4.50	2.89	4.67	2.81
	12			2.92	2.27	3.49	2.57	3.77	2.64	4.01	2.67	4.48	2.88	4.65	2.81
	14			2.92	2.27	3.49	2.57	3.77	2.64	4.00	2.67	4.47	2.88	4.63	2.78
	16			2.92	2.27	3.49	2.57	3.77	2.64	4.00	2.67	4.45	2.87	4.61	2.78
	18			2.92	2.27	3.49	2.57	3.77	2.64	3.99	2.67	4.43	2.86	4.59	2.77
	20			2.92	2.27	3.49	2.57	3.77	2.64	3.99	2.67	4.42	2.86	4.57	2.77
	22			2.91	2.27	3.49	2.57	3.77	2.64	3.97	2.66	4.36	2.82	4.51	2.75
	24			2.91	2.27	3.49	2.57	3.77	2.64	3.95	2.65	4.31	2.81	4.45	2.73
	26			2.91	2.27	3.47	2.57	3.74	2.63	3.91	2.63	4.24	2.78	4.38	2.70
	28	2.64	2.24	2.91	2.27	3.45	2.55	3.70	2.61	3.86	2.61	4.17	2.76	4.31	2.68
	30	2.64	2.24	2.90	2.26	3.43	2.54	3.67	2.59	3.81	2.59	4.11	2.73	4.24	2.65
	32	2.64	2.24	2.89	2.26	3.40	2.53	3.63	2.58	3.77	2.58	4.04	2.71	4.18	2.63
	34	2.64	2.24	2.88	2.25	3.39	2.52	3.58	2.55	3.71	2.55	3.96	2.68	4.09	2.60
	35	2.64	2.24	2.88	2.25	3.38	2.52	3.56	2.55	3.68	2.53	3.91	2.66	4.05	2.59
	36	2.64	2.24	2.87	2.25	3.36	2.51	3.54	2.53	3.64	2.52	3.84	2.63	3.97	2.56
	38	2.64	2.24	2.87	2.25	3.31	2.49	3.51	2.51	3.57	2.48	3.70	2.56	3.81	2.50
	39	2.64	2.24	2.86	2.25	3.28	2.48	3.49	2.51	3.54	2.47	3.63	2.54	3.74	2.48
	41	2.64	2.24	2.85	2.24	3.18	2.44	3.35	2.46	3.39	2.42	3.47	2.49	3.56	2.42
	43	2.64	2.24	2.84	2.24	3.08	2.39	3.20	2.39	3.24	2.36	3.31	2.43	3.39	2.36

Air flow	outdoor temp DB	outdoor temp WB	indoor temp 16 °CDB	18 °CDB	20 °CDB	22 °CDB	24 °CDB
Lo 9.5 (m³/min)	-19.8	-20	2.23	2.23	2.23	2.23	2.23
	-17.8	-18	2.37	2.37	2.37	2.37	2.37
	-15.7	-16	2.52	2.52	2.52	2.52	2.52
	-13.7	-14	2.66	2.66	2.66	2.66	2.66
	-11.7	-12	2.80	2.80	2.80	2.80	2.80
	-9.6	-10	2.95	2.95	2.95	2.95	2.95
	-7.5	-8	3.13	3.13	3.13	3.13	3.13
	-5.5	-6	3.30	3.30	3.30	3.30	3.30
	-3.4	-4	3.42	3.41	3.41	3.38	3.34
	-1.3	-2	3.54	3.53	3.52	3.45	3.38
	0.8	0	3.73	3.67	3.62	3.49	3.36
	3.9	3	4.04	3.90	3.76	3.54	3.33
	7.0	6	4.42	4.13	3.84	3.57	3.30
	10.1	9	4.39	4.11	3.83	3.55	3.28
	13.2	12	4.36	4.08	3.80	3.53	3.25
	16.9	15.5	4.33	4.05	3.77	3.49	3.21

Note(1) This data shows average statuses out of those possible to occur in the system control.
(Depending on controls, there may be ranges where the operation is not conducted continuously.)
(2) Symbols are as follows
TC :Total cooling capacity(kW)
SHC :Sensible heat capacity(kW)

PJC001Z355

Model **FDTS71KXE6F** Cool Mode (kW)

Air flow	Outdoor air temp.	Indoor air temperature 21 ℃DB 14 ℃WB TC	SHC	23 ℃DB 16 ℃WB TC	SHC	26 ℃DB 18 ℃WB TC	SHC	27 ℃DB 19 ℃WB TC	SHC	28 ℃DB 20 ℃WB TC	SHC	31 ℃DB 22 ℃WB TC	SHC	33 ℃DB 24 ℃WB TC	SHC
	10			5.82	4.44	6.96	5.03	7.53	5.17	8.01	5.25	8.97	5.66	9.31	5.50
	12			5.82	4.44	6.96	5.03	7.53	5.17	8.00	5.25	8.94	5.65	9.27	5.49
	14			5.82	4.44	6.96	5.03	7.53	5.17	7.99	5.24	8.90	5.63	9.23	5.48
	16			5.82	4.44	6.96	5.03	7.53	5.17	7.97	5.24	8.87	5.62	9.19	5.46
	18			5.82	4.44	6.96	5.03	7.53	5.17	7.96	5.22	8.84	5.60	9.15	5.44
P-Hi	20			5.82	4.44	6.96	5.03	7.53	5.17	7.95	5.22	8.81	5.59	9.11	5.43
	22			5.81	4.44	6.95	5.03	7.53	5.17	7.92	5.21	8.70	5.55	8.99	5.38
17	24			5.80	4.44	6.95	5.03	7.53	5.17	7.88	5.19	8.58	5.50	8.86	5.32
(m³/min)	26			5.80	4.44	6.92	5.01	7.46	5.14	7.79	5.15	8.45	5.44	8.73	5.27
	28	5.25	4.37	5.79	4.43	6.89	5.00	7.38	5.11	7.69	5.12	8.31	5.38	8.59	5.23
	30	5.25	4.37	5.78	4.43	6.83	4.98	7.31	5.07	7.60	5.07	8.19	5.34	8.46	5.18
	32	5.25	4.37	5.77	4.42	6.78	4.96	7.24	5.03	7.51	5.03	8.06	5.29	8.33	5.14
	34	5.25	4.37	5.75	4.41	6.76	4.95	7.15	4.99	7.39	4.97	7.89	5.23	8.16	5.08
	35	5.25	4.37	5.74	4.41	6.75	4.95	7.10	4.97	7.33	4.95	7.80	5.19	8.08	5.05
	36	5.25	4.37	5.73	4.41	6.69	4.92	7.06	4.96	7.26	4.92	7.66	5.13	7.92	4.99
	38	5.25	4.37	5.72	4.40	6.59	4.88	6.99	4.93	7.12	4.87	7.38	5.03	7.61	4.89
	39	5.25	4.37	5.71	4.40	6.54	4.85	6.96	4.92	7.05	4.84	7.24	4.97	7.45	4.83
	41	5.25	4.37	5.69	4.39	6.35	4.76	6.67	4.79	6.76	4.72	6.92	4.85	7.10	4.69
	43	5.25	4.37	5.67	4.37	6.15	4.68	6.39	4.68	6.46	4.60	6.60	4.72	6.75	4.58

Heat Mode (kW)

Air flow	outdoor temp DB	WB	indoor temp 16 ℃DB	18 ℃DB	20 ℃DB	22 ℃DB	24 ℃DB
	-19.8	-20	4.64	4.64	4.64	4.64	4.64
	-17.8	-18	4.94	4.94	4.94	4.94	4.94
	-15.7	-16	5.24	5.24	5.24	5.24	5.24
	-13.7	-14	5.54	5.54	5.54	5.54	5.54
	-11.7	-12	5.83	5.83	5.83	5.83	5.83
P-Hi	-9.6	-10	6.13	6.13	6.13	6.13	6.13
	-7.5	-8	6.51	6.51	6.51	6.51	6.51
17	-5.5	-6	6.88	6.88	6.88	6.88	6.88
(m³/min)	-3.4	-4	7.12	7.11	7.10	7.03	6.96
	-1.3	-2	7.36	7.34	7.32	7.18	7.04
	0.8	0	7.76	7.65	7.54	7.27	7.00
	3.9	3	8.42	8.12	7.82	7.38	6.94
	7.0	6	9.20	8.60	8.00	7.44	6.88
	10.1	9	9.14	8.56	7.97	7.40	6.82
	13.2	12	9.08	8.50	7.92	7.34	6.76
	16.9	15.5	9.01	8.43	7.85	7.27	6.69

Air flow	Outdoor air temp. (℃DB)	Indoor air temperature 21 ℃DB 14 ℃WB TC	SHC	23 ℃DB 16 ℃WB TC	SHC	26 ℃DB 18 ℃WB TC	SHC	27 ℃DB 19 ℃WB TC	SHC	28 ℃DB 20 ℃WB TC	SHC	31 ℃DB 22 ℃WB TC	SHC	33 ℃DB 24 ℃WB TC	SHC
	10			5.28	4.00	6.31	4.53	6.83	4.66	7.27	4.72	8.14	5.08	8.45	4.95
	12			5.28	4.00	6.31	4.53	6.83	4.66	7.26	4.72	8.11	5.07	8.42	4.94
	14			5.28	4.00	6.31	4.53	6.83	4.66	7.25	4.72	8.08	5.06	8.38	4.93
	16			5.28	4.00	6.31	4.53	6.83	4.66	7.24	4.71	8.05	5.05	8.34	4.91
	18			5.28	4.00	6.31	4.53	6.83	4.66	7.23	4.71	8.02	5.04	8.31	4.90
Hi	20			5.28	4.00	6.31	4.53	6.83	4.66	7.22	4.71	7.99	5.03	8.27	4.89
	22			5.27	3.99	6.31	4.53	6.83	4.66	7.18	4.69	7.89	5.00	8.16	4.85
15	24			5.27	3.99	6.31	4.53	6.83	4.66	7.15	4.68	7.79	4.95	8.04	4.80
(m³/min)	26			5.26	3.99	6.28	4.52	6.77	4.63	7.07	4.64	7.67	4.90	7.92	4.76
	28	4.77	3.92	5.26	3.99	6.25	4.50	6.70	4.60	6.98	4.61	7.55	4.85	7.80	4.71
	30	4.77	3.92	5.25	3.98	6.20	4.48	6.64	4.57	6.90	4.57	7.43	4.81	7.68	4.67
	32	4.77	3.92	5.23	3.97	6.15	4.46	6.57	4.54	6.82	4.53	7.32	4.76	7.56	4.62
	34	4.77	3.92	5.22	3.97	6.13	4.45	6.49	4.50	6.71	4.49	7.16	4.70	7.41	4.57
	35	4.77	3.92	5.21	3.97	6.12	4.45	6.44	4.49	6.66	4.47	7.08	4.67	7.33	4.54
	36	4.77	3.92	5.20	3.96	6.08	4.43	6.41	4.47	6.59	4.44	6.96	4.62	7.19	4.47
	38	4.77	3.92	5.19	3.96	5.98	4.39	6.35	4.44	6.47	4.39	6.70	4.51	6.90	4.39
	39	4.77	3.92	5.18	3.95	5.94	4.36	6.32	4.43	6.40	4.36	6.57	4.47	6.76	4.33
	41	4.77	3.92	5.16	3.95	5.76	4.29	6.06	4.32	6.13	4.25	6.28	4.36	6.44	4.23
	43	4.77	3.92	5.14	3.94	5.58	4.20	5.80	4.20	5.86	4.13	5.99	4.25	6.13	4.12

Air flow	outdoor temp DB	WB	indoor temp 16 ℃DB	18 ℃DB	20 ℃DB	22 ℃DB	24 ℃DB
	-19.8	-20	4.16	4.16	4.16	4.16	4.16
	-17.8	-18	4.43	4.43	4.43	4.43	4.43
	-15.7	-16	4.70	4.70	4.70	4.70	4.70
	-13.7	-14	4.96	4.96	4.96	4.96	4.96
	-11.7	-12	5.23	5.23	5.23	5.23	5.23
Hi	-9.6	-10	5.50	5.50	5.50	5.50	5.50
	-7.5	-8	5.83	5.83	5.83	5.83	5.83
15	-5.5	-6	6.17	6.17	6.17	6.17	6.17
(m³/min)	-3.4	-4	6.38	6.37	6.37	6.30	6.24
	-1.3	-2	6.60	6.58	6.56	6.44	6.31
	0.8	0	6.96	6.86	6.76	6.52	6.28
	3.9	3	7.55	7.28	7.01	6.62	6.22
	7.0	6	8.25	7.71	7.17	6.67	6.17
	10.1	9	8.19	7.67	7.15	6.63	6.11
	13.2	12	8.14	7.62	7.10	6.58	6.06
	16.9	15.5	8.08	7.56	7.04	6.52	6.00

Air flow	Outdoor air temp. (℃DB)	Indoor air temperature 21 ℃DB 14 ℃WB TC	SHC	23 ℃DB 16 ℃WB TC	SHC	26 ℃DB 18 ℃WB TC	SHC	27 ℃DB 19 ℃WB TC	SHC	28 ℃DB 20 ℃WB TC	SHC	31 ℃DB 22 ℃WB TC	SHC	33 ℃DB 24 ℃WB TC	SHC
	10			4.41	3.30	5.27	3.74	5.70	3.84	6.06	3.90	6.79	4.21	7.05	4.09
	12			4.41	3.30	5.27	3.74	5.70	3.84	6.05	3.90	6.77	4.20	7.02	4.07
	14			4.41	3.30	5.27	3.74	5.70	3.84	6.05	3.90	6.74	4.18	6.99	4.07
	16			4.41	3.30	5.27	3.74	5.70	3.84	6.04	3.90	6.72	4.18	6.96	4.06
	18			4.41	3.30	5.27	3.74	5.70	3.84	6.03	3.89	6.69	4.17	6.93	4.04
Me	20			4.41	3.30	5.27	3.74	5.70	3.84	6.02	3.88	6.67	4.16	6.90	4.03
	22			4.40	3.29	5.27	3.74	5.70	3.84	5.99	3.87	6.58	4.12	6.80	3.99
12	24			4.39	3.29	5.26	3.73	5.70	3.84	5.97	3.86	6.50	4.09	6.71	3.96
(m³/min)	26			4.39	3.29	5.24	3.72	5.64	3.82	5.90	3.83	6.40	4.05	6.61	3.92
	28	3.98	3.24	4.39	3.29	5.21	3.71	5.59	3.79	5.83	3.80	6.29	4.00	6.50	3.86
	30	3.98	3.24	4.38	3.28	5.17	3.68	5.54	3.77	5.76	3.77	6.20	3.96	6.41	3.85
	32	3.98	3.24	4.36	3.28	5.13	3.67	5.48	3.74	5.69	3.74	6.10	3.92	6.31	3.80
	34	3.98	3.24	4.35	3.27	5.12	3.66	5.41	3.71	5.60	3.70	5.97	3.86	6.18	3.76
	35	3.98	3.24	4.34	3.27	5.11	3.66	5.38	3.69	5.55	3.68	5.91	3.84	6.11	3.73
	36	3.98	3.24	4.34	3.27	5.07	3.64	5.35	3.68	5.50	3.66	5.80	3.80	6.00	3.69
	38	3.98	3.24	4.33	3.26	4.99	3.61	5.29	3.65	5.39	3.60	5.59	3.72	5.76	3.60
	39	3.98	3.24	4.32	3.26	4.95	3.59	5.27	3.64	5.34	3.58	5.48	3.68	5.64	3.57
	41	3.98	3.24	4.31	3.25	4.80	3.53	5.05	3.56	5.12	3.50	5.24	3.58	5.38	3.47
	43	3.98	3.24	4.29	3.24	4.66	3.46	4.84	3.46	4.89	3.40	5.00	3.49	5.11	3.38

Air flow	outdoor temp DB	WB	indoor temp 16 ℃DB	18 ℃DB	20 ℃DB	22 ℃DB	24 ℃DB
	-19.8	-20	3.41	3.41	3.41	3.41	3.41
	-17.8	-18	3.63	3.63	3.63	3.63	3.63
	-15.7	-16	3.84	3.84	3.84	3.84	3.84
	-13.7	-14	4.06	4.06	4.06	4.06	4.06
	-11.7	-12	4.28	4.28	4.28	4.28	4.28
Me	-9.6	-10	4.50	4.50	4.50	4.50	4.50
	-7.5	-8	4.78	4.78	4.78	4.78	4.78
12	-5.5	-6	5.05	5.05	5.05	5.05	5.05
(m³/min)	-3.4	-4	5.23	5.22	5.21	5.16	5.11
	-1.3	-2	5.40	5.39	5.37	5.27	5.17
	0.8	0	5.70	5.62	5.53	5.34	5.14
	3.9	3	6.18	5.96	5.74	5.42	5.09
	7.0	6	6.75	6.31	5.87	5.46	5.05
	10.1	9	6.71	6.28	5.85	5.43	5.01
	13.2	12	6.67	6.24	5.81	5.39	4.96
	16.9	15.5	6.61	6.19	5.76	5.34	4.91

Air flow	Outdoor air temp. (℃DB)	Indoor air temperature 21 ℃DB 14 ℃WB TC	SHC	23 ℃DB 16 ℃WB TC	SHC	26 ℃DB 18 ℃WB TC	SHC	27 ℃DB 19 ℃WB TC	SHC	28 ℃DB 20 ℃WB TC	SHC	31 ℃DB 22 ℃WB TC	SHC	33 ℃DB 24 ℃WB TC	SHC
	10			3.77	2.80	4.51	3.18	4.88	3.27	5.19	3.32	5.81	3.58	6.04	3.48
	12			3.77	2.80	4.51	3.18	4.88	3.27	5.18	3.32	5.79	3.57	6.01	3.47
	14			3.77	2.80	4.51	3.18	4.88	3.27	5.18	3.32	5.77	3.56	5.98	3.45
	16			3.77	2.80	4.51	3.18	4.88	3.27	5.17	3.31	5.75	3.55	5.96	3.45
	18			3.77	2.80	4.51	3.18	4.88	3.27	5.16	3.30	5.73	3.54	5.93	3.44
Lo	20			3.77	2.80	4.51	3.18	4.88	3.27	5.15	3.29	5.71	3.54	5.91	3.41
	22			3.77	2.80	4.51	3.18	4.88	3.27	5.13	3.29	5.64	3.51	5.82	3.39
10	24			3.76	2.79	4.51	3.18	4.88	3.27	5.11	3.28	5.56	3.46	5.74	3.36
(m³/min)	26			3.76	2.79	4.48	3.16	4.83	3.24	5.05	3.26	5.48	3.43	5.66	3.33
	28	3.40	2.74	3.75	2.79	4.46	3.16	4.79	3.23	4.99	3.23	5.39	3.40	5.57	3.30
	30	3.40	2.74	3.75	2.79	4.43	3.14	4.74	3.20	4.93	3.20	5.31	3.37	5.48	3.26
	32	3.40	2.74	3.74	2.79	4.39	3.12	4.69	3.18	4.87	3.18	5.22	3.33	5.40	3.23
	34	3.40	2.74	3.72	2.78	4.38	3.12	4.63	3.15	4.79	3.15	5.11	3.29	5.29	3.19
	35	3.40	2.74	3.72	2.78	4.37	3.12	4.60	3.14	4.75	3.13	5.06	3.26	5.23	3.17
	36	3.40	2.74	3.71	2.77	4.34	3.10	4.58	3.13	4.71	3.11	4.97	3.23	5.13	3.13
	38	3.40	2.74	3.70	2.76	4.27	3.07	4.53	3.11	4.62	3.07	4.79	3.16	4.93	3.05
	39	3.40	2.74	3.70	2.76	4.24	3.05	4.51	3.10	4.57	3.05	4.69	3.12	4.83	3.02
	41	3.40	2.74	3.69	2.76	4.11	2.99	4.33	3.02	4.38	2.97	4.49	3.04	4.60	2.94
	43	3.40	2.74	3.67	2.75	3.99	2.93	4.14	2.94	4.19	2.88	4.28	2.96	4.37	2.86

Air flow	outdoor temp DB	WB	indoor temp 16 ℃DB	18 ℃DB	20 ℃DB	22 ℃DB	24 ℃DB
	-19.8	-20	2.88	2.88	2.88	2.88	2.88
	-17.8	-18	3.06	3.06	3.06	3.06	3.06
	-15.7	-16	3.25	3.25	3.25	3.25	3.25
	-13.7	-14	3.43	3.43	3.43	3.43	3.43
	-11.7	-12	3.62	3.62	3.62	3.62	3.62
Lo	-9.6	-10	3.81	3.81	3.81	3.81	3.81
	-7.5	-8	4.04	4.04	4.04	4.04	4.04
10	-5.5	-6	4.27	4.27	4.27	4.27	4.27
(m³/min)	-3.4	-4	4.42	4.41	4.40	4.36	4.32
	-1.3	-2	4.57	4.55	4.54	4.45	4.37
	0.8	0	4.81	4.75	4.68	4.51	4.34
	3.9	3	5.22	5.04	4.85	4.58	4.31
	7.0	6	5.71	5.34	4.96	4.62	4.27
	10.1	9	5.67	5.31	4.94	4.59	4.23
	13.2	12	5.63	5.27	4.91	4.55	4.19
	16.9	15.5	5.59	5.23	4.87	4.51	4.15

Note(1) This data shows average statuses out of those possible to occur in the system control.
(Depending on controls, there may be ranges where the operation is not conducted continuously.)
(2) Symbols are as follows
TC :Total cooling capacity(kW)
SHC :Sensible heat capacity(kW)

PJC001Z355

(b) Duct connected (thin)-Low static pressure type (FDUT)

Model **FDUT22KXE6F-E** Cool Mode

(kW)

Air flow	Outdoor air temp. (°CDB)	Indoor air temperature 21 °CDB 14 °CWB TC	21 °CDB 14 °CWB SHC	23 °CDB 16 °CWB TC	23 °CDB 16 °CWB SHC	26 °CDB 18 °CWB TC	26 °CDB 18 °CWB SHC	27 °CDB 19 °CWB TC	27 °CDB 19 °CWB SHC	28 °CDB 20 °CWB TC	28 °CDB 20 °CWB SHC	31 °CDB 22 °CWB TC	31 °CDB 22 °CWB SHC	33 °CDB 24 °CWB TC	33 °CDB 24 °CWB SHC
Hi 7.5 (m³/min)	10			1.80	1.49	2.16	1.69	2.33	1.72	2.48	1.75	2.78	1.89	2.89	1.85
	12			1.80	1.49	2.16	1.69	2.33	1.72	2.48	1.75	2.77	1.89	2.87	1.84
	14			1.80	1.49	2.16	1.69	2.33	1.72	2.47	1.75	2.76	1.89	2.86	1.83
	16			1.80	1.49	2.16	1.69	2.33	1.72	2.47	1.75	2.75	1.88	2.85	1.83
	18			1.80	1.49	2.16	1.69	2.33	1.72	2.47	1.75	2.74	1.88	2.84	1.83
	20			1.80	1.49	2.16	1.69	2.33	1.72	2.46	1.73	2.73	1.87	2.82	1.82
	22			1.80	1.49	2.15	1.69	2.33	1.72	2.45	1.73	2.69	1.86	2.78	1.81
	24			1.80	1.49	2.15	1.69	2.33	1.72	2.44	1.73	2.66	1.84	2.75	1.80
	26			1.80	1.49	2.14	1.69	2.31	1.72	2.41	1.72	2.62	1.83	2.70	1.78
	28	1.63	1.47	1.80	1.49	2.13	1.68	2.29	1.71	2.38	1.71	2.58	1.81	2.66	1.77
	30	1.63	1.47	1.79	1.49	2.12	1.67	2.27	1.70	2.36	1.70	2.54	1.80	2.62	1.75
	32	1.63	1.47	1.79	1.49	2.10	1.67	2.24	1.69	2.33	1.69	2.50	1.79	2.58	1.73
	34	1.63	1.47	1.78	1.49	2.09	1.66	2.21	1.68	2.29	1.68	2.44	1.75	2.53	1.72
	35	1.63	1.47	1.78	1.49	2.09	1.66	2.20	1.67	2.27	1.67	2.42	1.75	2.50	1.71
	36	1.63	1.47	1.78	1.49	2.07	1.65	2.19	1.67	2.25	1.66	2.37	1.73	2.45	1.70
	38	1.63	1.47	1.77	1.48	2.04	1.64	2.17	1.66	2.21	1.64	2.29	1.71	2.36	1.67
	39	1.63	1.47	1.77	1.48	2.03	1.64	2.16	1.66	2.19	1.64	2.24	1.69	2.31	1.65
	41	1.63	1.47	1.76	1.48	1.97	1.61	2.07	1.62	2.09	1.60	2.14	1.66	2.20	1.61
	43	1.63	1.47	1.76	1.48	1.91	1.59	1.98	1.59	2.00	1.56	2.05	1.62	2.09	1.58

Heat Mode

(kW)

Air flow	outdoor temp DB	outdoor temp WB	indoor temp 16 °CDB	18 °CDB	20 °CDB	22 °CDB	24 °CDB
Hi 7.5 (m³/min)	-19.8	-20	1.45	1.45	1.45	1.45	1.45
	-17.8	-18	1.54	1.54	1.54	1.54	1.54
	-15.7	-16	1.64	1.64	1.64	1.64	1.64
	-13.7	-14	1.73	1.73	1.73	1.73	1.73
	-11.7	-12	1.82	1.82	1.82	1.82	1.82
	-9.6	-10	1.92	1.92	1.92	1.92	1.92
	-7.5	-8	2.03	2.03	2.03	2.03	2.03
	-5.5	-6	2.15	2.15	2.15	2.15	2.15
	-3.4	-4	2.23	2.22	2.22	2.20	2.18
	-1.3	-2	2.30	2.29	2.29	2.24	2.20
	0.8	0	2.43	2.39	2.36	2.27	2.19
	3.9	3	2.63	2.54	2.44	2.31	2.17
	7.0	6	2.88	2.69	2.50	2.33	2.15
	10.1	9	2.86	2.67	2.49	2.31	2.13
	13.2	12	2.84	2.66	2.48	2.29	2.11
	16.9	15.5	2.82	2.63	2.45	2.27	2.09

Air flow	Outdoor air temp. (°CDB)	Indoor air temperature 21 °CDB 14 °CWB TC	21 °CDB 14 °CWB SHC	23 °CDB 16 °CWB TC	23 °CDB 16 °CWB SHC	26 °CDB 18 °CWB TC	26 °CDB 18 °CWB SHC	27 °CDB 19 °CWB TC	27 °CDB 19 °CWB SHC	28 °CDB 20 °CWB TC	28 °CDB 20 °CWB SHC	31 °CDB 22 °CWB TC	31 °CDB 22 °CWB SHC	33 °CDB 24 °CWB TC	33 °CDB 24 °CWB SHC
Me 6 (m³/min)	10			1.55	1.26	1.85	1.42	2.00	1.45	2.13	1.48	2.38	1.59	2.48	1.55
	12			1.55	1.26	1.85	1.42	2.00	1.45	2.13	1.48	2.38	1.59	2.47	1.55
	14			1.55	1.26	1.85	1.42	2.00	1.45	2.12	1.47	2.37	1.59	2.45	1.54
	16			1.55	1.26	1.85	1.42	2.00	1.45	2.12	1.47	2.36	1.58	2.44	1.54
	18			1.55	1.26	1.85	1.42	2.00	1.45	2.12	1.47	2.35	1.58	2.43	1.54
	20			1.55	1.26	1.85	1.42	2.00	1.45	2.11	1.47	2.34	1.58	2.42	1.53
	22			1.55	1.26	1.85	1.42	2.00	1.45	2.10	1.46	2.31	1.56	2.39	1.52
	24			1.54	1.25	1.85	1.42	2.00	1.45	2.09	1.46	2.28	1.55	2.36	1.51
	26			1.54	1.25	1.84	1.42	1.98	1.45	2.07	1.45	2.25	1.54	2.32	1.50
	28	1.40	1.24	1.54	1.25	1.83	1.41	1.96	1.44	2.05	1.44	2.21	1.52	2.28	1.47
	30	1.40	1.24	1.54	1.25	1.82	1.41	1.94	1.43	2.02	1.43	2.18	1.51	2.25	1.47
	32	1.40	1.24	1.53	1.25	1.80	1.40	1.93	1.43	2.00	1.42	2.14	1.49	2.22	1.46
	34	1.40	1.24	1.53	1.25	1.80	1.40	1.90	1.41	1.97	1.41	2.10	1.48	2.17	1.44
	35	1.40	1.24	1.53	1.25	1.79	1.40	1.89	1.41	1.95	1.40	2.07	1.47	2.15	1.44
	36	1.40	1.24	1.52	1.25	1.78	1.39	1.88	1.40	1.93	1.39	2.04	1.46	2.11	1.43
	38	1.40	1.24	1.52	1.25	1.75	1.37	1.86	1.40	1.89	1.38	1.96	1.43	2.02	1.40
	39	1.40	1.24	1.52	1.25	1.74	1.37	1.85	1.39	1.88	1.37	1.93	1.42	1.98	1.38
	41	1.40	1.24	1.51	1.24	1.69	1.35	1.77	1.35	1.80	1.34	1.84	1.39	1.89	1.35
	43	1.40	1.24	1.51	1.24	1.63	1.33	1.70	1.33	1.72	1.31	1.75	1.36	1.79	1.31

Air flow	outdoor temp DB	outdoor temp WB	indoor temp 16 °CDB	18 °CDB	20 °CDB	22 °CDB	24 °CDB
Me 6 (m³/min)	-19.8	-20	1.21	1.21	1.21	1.21	1.21
	-17.8	-18	1.29	1.29	1.29	1.29	1.29
	-15.7	-16	1.36	1.36	1.36	1.36	1.36
	-13.7	-14	1.44	1.44	1.44	1.44	1.44
	-11.7	-12	1.52	1.52	1.52	1.52	1.52
	-9.6	-10	1.60	1.60	1.60	1.60	1.60
	-7.5	-8	1.69	1.69	1.69	1.69	1.69
	-5.5	-6	1.79	1.79	1.79	1.79	1.79
	-3.4	-4	1.85	1.85	1.85	1.83	1.81
	-1.3	-2	1.92	1.91	1.91	1.87	1.83
	0.8	0	2.02	1.99	1.96	1.89	1.82
	3.9	3	2.19	2.12	2.04	1.92	1.81
	7.0	6	2.40	2.24	2.08	1.94	1.79
	10.1	9	2.38	2.23	2.08	1.93	1.78
	13.2	12	2.37	2.21	2.06	1.91	1.76
	16.9	15.5	2.35	2.20	2.04	1.89	1.74

Air flow	Outdoor air temp. (°CDB)	Indoor air temperature 21 °CDB 14 °CWB TC	21 °CDB 14 °CWB SHC	23 °CDB 16 °CWB TC	23 °CDB 16 °CWB SHC	26 °CDB 18 °CWB TC	26 °CDB 18 °CWB SHC	27 °CDB 19 °CWB TC	27 °CDB 19 °CWB SHC	28 °CDB 20 °CWB TC	28 °CDB 20 °CWB SHC	31 °CDB 22 °CWB TC	31 °CDB 22 °CWB SHC	33 °CDB 24 °CWB TC	33 °CDB 24 °CWB SHC
Lo 5 (m³/min)	10			1.35	1.08	1.62	1.23	1.75	1.25	1.86	1.27	2.08	1.37	2.16	1.34
	12			1.35	1.08	1.62	1.23	1.75	1.25	1.86	1.27	2.08	1.37	2.15	1.33
	14			1.35	1.08	1.62	1.23	1.75	1.25	1.86	1.27	2.07	1.37	2.14	1.33
	16			1.35	1.08	1.62	1.23	1.75	1.25	1.85	1.27	2.06	1.36	2.14	1.33
	18			1.35	1.08	1.62	1.23	1.75	1.25	1.85	1.27	2.05	1.36	2.13	1.33
	20			1.35	1.08	1.62	1.23	1.75	1.25	1.85	1.27	2.05	1.36	2.12	1.32
	22			1.35	1.08	1.62	1.23	1.75	1.25	1.84	1.26	2.02	1.35	2.09	1.31
	24			1.35	1.08	1.61	1.22	1.75	1.25	1.83	1.26	1.99	1.34	2.06	1.30
	26			1.35	1.08	1.61	1.22	1.73	1.25	1.81	1.25	1.96	1.32	2.03	1.29
	28	1.22	1.07	1.35	1.08	1.60	1.22	1.72	1.24	1.79	1.24	1.93	1.31	2.00	1.28
	30	1.22	1.07	1.34	1.07	1.59	1.21	1.70	1.23	1.77	1.24	1.90	1.30	1.97	1.27
	32	1.22	1.07	1.34	1.07	1.58	1.21	1.68	1.22	1.75	1.23	1.87	1.29	1.94	1.25
	34	1.22	1.07	1.33	1.07	1.57	1.21	1.66	1.22	1.72	1.21	1.83	1.27	1.90	1.24
	35	1.22	1.07	1.33	1.07	1.57	1.21	1.65	1.21	1.70	1.20	1.81	1.26	1.88	1.24
	36	1.22	1.07	1.33	1.07	1.56	1.20	1.64	1.21	1.69	1.20	1.78	1.25	1.84	1.22
	38	1.22	1.07	1.33	1.07	1.53	1.18	1.62	1.20	1.65	1.19	1.72	1.23	1.77	1.20
	39	1.22	1.07	1.33	1.07	1.52	1.18	1.62	1.20	1.64	1.18	1.68	1.22	1.73	1.19
	41	1.22	1.07	1.32	1.07	1.47	1.16	1.55	1.17	1.57	1.15	1.61	1.19	1.65	1.16
	43	1.22	1.07	1.32	1.07	1.43	1.15	1.48	1.14	1.50	1.13	1.53	1.16	1.57	1.13

Air flow	outdoor temp DB	outdoor temp WB	indoor temp 16 °CDB	18 °CDB	20 °CDB	22 °CDB	24 °CDB
Lo 5 (m³/min)	-19.8	-20	1.04	1.04	1.04	1.04	1.04
	-17.8	-18	1.10	1.10	1.10	1.10	1.10
	-15.7	-16	1.17	1.17	1.17	1.17	1.17
	-13.7	-14	1.24	1.24	1.24	1.24	1.24
	-11.7	-12	1.30	1.30	1.30	1.30	1.30
	-9.6	-10	1.37	1.37	1.37	1.37	1.37
	-7.5	-8	1.45	1.45	1.45	1.45	1.45
	-5.5	-6	1.54	1.54	1.54	1.54	1.54
	-3.4	-4	1.59	1.59	1.59	1.57	1.55
	-1.3	-2	1.64	1.64	1.63	1.60	1.57
	0.8	0	1.73	1.71	1.68	1.62	1.56
	3.9	3	1.88	1.81	1.75	1.65	1.55
	7.0	6	2.05	1.92	1.79	1.66	1.54
	10.1	9	2.04	1.91	1.78	1.65	1.52
	13.2	12	2.03	1.90	1.77	1.64	1.51
	16.9	15.5	2.01	1.88	1.75	1.62	1.49

Note(1) This data shows average statuses out of those possible to occur in the system control.
(Depending on controls, there may be ranges where the operation is not conducted continuously.)

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

PJH000Z019

Model **FDUT28KXE6F-E** Cool Mode

(kW)

Air flow	Outdoor air temp. (℃DB)	Indoor air temperature 21 ℃DB 14 ℃WB TC	21 ℃DB 14 ℃WB SHC	23 ℃DB 16 ℃WB TC	23 ℃DB 16 ℃WB SHC	26 ℃DB 18 ℃WB TC	26 ℃DB 18 ℃WB SHC	27 ℃DB 19 ℃WB TC	27 ℃DB 19 ℃WB SHC	28 ℃DB 20 ℃WB TC	28 ℃DB 20 ℃WB SHC	31 ℃DB 22 ℃WB TC	31 ℃DB 22 ℃WB SHC	33 ℃DB 24 ℃WB TC	33 ℃DB 24 ℃WB SHC
	10			2.30	1.81	2.74	2.05	2.97	2.10	3.16	2.14	3.54	2.29	3.67	2.23
	12			2.30	1.81	2.74	2.05	2.97	2.10	3.15	2.13	3.52	2.29	3.66	2.23
	14			2.30	1.81	2.74	2.05	2.97	2.10	3.15	2.13	3.51	2.28	3.64	2.23
	16			2.30	1.81	2.74	2.05	2.97	2.10	3.14	2.12	3.50	2.28	3.63	2.22
	18			2.30	1.81	2.74	2.05	2.97	2.10	3.14	2.12	3.49	2.28	3.61	2.22
Hi	20			2.30	1.81	2.74	2.05	2.97	2.10	3.14	2.12	3.47	2.27	3.59	2.21
	22			2.29	1.81	2.74	2.05	2.97	2.10	3.12	2.12	3.43	2.26	3.54	2.19
7.5	24			2.29	1.81	2.74	2.05	2.97	2.10	3.11	2.11	3.39	2.24	3.50	2.18
(m³/min)	26			2.29	1.81	2.73	2.05	2.94	2.09	3.07	2.10	3.33	2.22	3.44	2.15
	28	2.07	1.78	2.28	1.80	2.72	2.04	2.91	2.07	3.03	2.08	3.28	2.20	3.39	2.14
	30	2.07	1.78	2.28	1.80	2.70	2.03	2.88	2.06	3.00	2.06	3.23	2.18	3.34	2.12
	32	2.07	1.78	2.27	1.80	2.67	2.02	2.86	2.05	2.96	2.04	3.18	2.16	3.29	2.10
	34	2.07	1.78	2.27	1.80	2.66	2.02	2.82	2.04	2.92	2.03	3.11	2.13	3.22	2.08
	35	2.07	1.78	2.26	1.80	2.66	2.02	2.80	2.03	2.89	2.02	3.08	2.12	3.18	2.07
	36	2.07	1.78	2.26	1.80	2.64	2.01	2.79	2.03	2.86	2.01	3.02	2.10	3.12	2.04
	38	2.07	1.78	2.25	1.79	2.60	1.99	2.76	2.01	2.81	1.99	2.91	2.05	3.00	2.00
	39	2.07	1.78	2.25	1.79	2.58	1.98	2.74	2.01	2.78	1.98	2.86	2.03	2.94	1.98
	41	2.07	1.78	2.24	1.79	2.50	1.95	2.63	1.96	2.66	1.93	2.73	1.99	2.80	1.94
	43	2.07	1.78	2.24	1.79	2.43	1.92	2.52	1.91	2.55	1.89	2.60	1.95	2.66	1.89

Heat Mode

(kW)

Air flow	outdoor temp DB	outdoor temp WB	indoor temp 16 ℃DB	18 ℃DB	20 ℃DB	22 ℃DB	24 ℃DB
	-19.8	-20	1.86	1.86	1.86	1.86	1.86
	-17.8	-18	1.98	1.98	1.98	1.98	1.98
	-15.7	-16	2.09	2.09	2.09	2.09	2.09
	-13.7	-14	2.21	2.21	2.21	2.21	2.21
	-11.7	-12	2.33	2.33	2.33	2.33	2.33
Hi	-9.6	-10	2.45	2.45	2.45	2.45	2.45
	-7.5	-8	2.60	2.60	2.60	2.60	2.60
7.5	-5.5	-6	2.75	2.75	2.75	2.75	2.75
(m³/min)	-3.4	-4	2.85	2.84	2.84	2.81	2.78
	-1.3	-2	2.94	2.94	2.93	2.87	2.82
	0.8	0	3.10	3.06	3.02	2.91	2.80
	3.9	3	3.37	3.25	3.13	2.95	2.78
	7.0	6	3.68	3.44	3.20	2.98	2.75
	10.1	9	3.66	3.42	3.19	2.96	2.73
	13.2	12	3.63	3.40	3.17	2.94	2.70
	16.9	15.5	3.60	3.37	3.14	2.91	2.68

Air flow	Outdoor air temp. (℃DB)	Indoor air temperature 21 ℃DB 14 ℃WB TC	21 ℃DB 14 ℃WB SHC	23 ℃DB 16 ℃WB TC	23 ℃DB 16 ℃WB SHC	26 ℃DB 18 ℃WB TC	26 ℃DB 18 ℃WB SHC	27 ℃DB 19 ℃WB TC	27 ℃DB 19 ℃WB SHC	28 ℃DB 20 ℃WB TC	28 ℃DB 20 ℃WB SHC	31 ℃DB 22 ℃WB TC	31 ℃DB 22 ℃WB SHC	33 ℃DB 24 ℃WB TC	33 ℃DB 24 ℃WB SHC
	10			1.97	1.52	2.35	1.72	2.55	1.77	2.71	1.80	3.03	1.94	3.15	1.88
	12			1.97	1.52	2.35	1.72	2.55	1.77	2.71	1.80	3.02	1.93	3.14	1.88
	14			1.97	1.52	2.35	1.72	2.55	1.77	2.70	1.79	3.01	1.93	3.12	1.87
	16			1.97	1.52	2.35	1.72	2.55	1.77	2.70	1.79	3.00	1.92	3.11	1.87
	18			1.97	1.52	2.35	1.72	2.55	1.77	2.69	1.79	2.99	1.92	3.10	1.86
Me	20			1.97	1.52	2.35	1.72	2.55	1.77	2.69	1.79	2.98	1.91	3.08	1.86
	22			1.97	1.52	2.35	1.72	2.55	1.77	2.68	1.78	2.94	1.90	3.04	1.84
6	24			1.96	1.52	2.35	1.72	2.55	1.77	2.67	1.78	2.90	1.88	3.00	1.83
(m³/min)	26			1.96	1.52	2.34	1.72	2.52	1.76	2.63	1.76	2.86	1.87	2.95	1.80
	28	1.78	1.50	1.96	1.52	2.33	1.71	2.50	1.75	2.60	1.75	2.81	1.85	2.91	1.79
	30	1.78	1.50	1.96	1.52	2.31	1.71	2.47	1.74	2.57	1.74	2.77	1.82	2.86	1.77
	32	1.78	1.50	1.95	1.52	2.29	1.70	2.45	1.73	2.54	1.72	2.73	1.81	2.82	1.76
	34	1.78	1.50	1.94	1.51	2.29	1.70	2.42	1.71	2.50	1.71	2.67	1.79	2.76	1.74
	35	1.78	1.50	1.94	1.51	2.28	1.69	2.40	1.71	2.48	1.70	2.64	1.78	2.73	1.73
	36	1.78	1.50	1.94	1.51	2.27	1.68	2.39	1.70	2.46	1.69	2.59	1.76	2.68	1.71
	38	1.78	1.50	1.93	1.50	2.23	1.67	2.37	1.69	2.41	1.67	2.50	1.73	2.57	1.67
	39	1.78	1.50	1.93	1.50	2.21	1.66	2.35	1.68	2.39	1.66	2.45	1.71	2.52	1.66
	41	1.78	1.50	1.92	1.50	2.15	1.64	2.26	1.64	2.29	1.62	2.34	1.67	2.40	1.62
	43	1.78	1.50	1.92	1.50	2.08	1.61	2.16	1.60	2.19	1.58	2.23	1.63	2.28	1.57

Air flow	outdoor temp DB	outdoor temp WB	indoor temp 16 ℃DB	18 ℃DB	20 ℃DB	22 ℃DB	24 ℃DB
	-19.8	-20	1.55	1.55	1.55	1.55	1.55
	-17.8	-18	1.65	1.65	1.65	1.65	1.65
	-15.7	-16	1.75	1.75	1.75	1.75	1.75
	-13.7	-14	1.85	1.85	1.85	1.85	1.85
	-11.7	-12	1.95	1.95	1.95	1.95	1.95
Me	-9.6	-10	2.05	2.05	2.05	2.05	2.05
	-7.5	-8	2.17	2.17	2.17	2.17	2.17
6	-5.5	-6	2.29	2.29	2.29	2.29	2.29
(m³/min)	-3.4	-4	2.37	2.37	2.37	2.34	2.32
	-1.3	-2	2.45	2.45	2.44	2.39	2.35
	0.8	0	2.59	2.55	2.51	2.42	2.33
	3.9	3	2.81	2.71	2.61	2.46	2.31
	7.0	6	3.07	2.87	2.67	2.48	2.29
	10.1	9	3.05	2.85	2.66	2.47	2.27
	13.2	12	3.03	2.83	2.64	2.45	2.25
	16.9	15.5	3.00	2.81	2.62	2.42	2.23

Air flow	Outdoor air temp. (℃DB)	Indoor air temperature 21 ℃DB 14 ℃WB TC	21 ℃DB 14 ℃WB SHC	23 ℃DB 16 ℃WB TC	23 ℃DB 16 ℃WB SHC	26 ℃DB 18 ℃WB TC	26 ℃DB 18 ℃WB SHC	27 ℃DB 19 ℃WB TC	27 ℃DB 19 ℃WB SHC	28 ℃DB 20 ℃WB TC	28 ℃DB 20 ℃WB SHC	31 ℃DB 22 ℃WB TC	31 ℃DB 22 ℃WB SHC	33 ℃DB 24 ℃WB TC	33 ℃DB 24 ℃WB SHC
	10			1.72	1.31	2.06	1.49	2.23	1.53	2.37	1.55	2.65	1.67	2.75	1.62
	12			1.72	1.31	2.06	1.49	2.23	1.53	2.36	1.54	2.64	1.67	2.74	1.62
	14			1.72	1.31	2.06	1.49	2.23	1.53	2.36	1.54	2.63	1.66	2.73	1.61
	16			1.72	1.31	2.06	1.49	2.23	1.53	2.36	1.54	2.62	1.66	2.72	1.61
	18			1.72	1.31	2.06	1.49	2.23	1.53	2.35	1.54	2.61	1.65	2.71	1.61
Lo	20			1.72	1.31	2.06	1.49	2.23	1.53	2.35	1.54	2.60	1.65	2.69	1.60
	22			1.72	1.31	2.06	1.49	2.23	1.53	2.34	1.54	2.57	1.64	2.66	1.58
5	24			1.72	1.31	2.06	1.49	2.23	1.53	2.33	1.53	2.54	1.62	2.62	1.57
(m³/min)	26			1.71	1.31	2.05	1.48	2.20	1.51	2.30	1.52	2.50	1.60	2.58	1.56
	28	1.55	1.29	1.71	1.31	2.04	1.48	2.18	1.50	2.27	1.51	2.46	1.59	2.54	1.54
	30	1.55	1.29	1.71	1.31	2.02	1.47	2.16	1.49	2.25	1.50	2.42	1.58	2.50	1.53
	32	1.55	1.29	1.70	1.30	2.00	1.46	2.14	1.48	2.22	1.48	2.38	1.56	2.46	1.51
	34	1.55	1.29	1.70	1.30	2.00	1.46	2.11	1.47	2.19	1.47	2.33	1.54	2.41	1.50
	35	1.55	1.29	1.70	1.30	1.99	1.46	2.10	1.47	2.17	1.46	2.31	1.53	2.39	1.49
	36	1.55	1.29	1.69	1.30	1.98	1.45	2.09	1.46	2.15	1.45	2.27	1.52	2.34	1.47
	38	1.55	1.29	1.69	1.30	1.95	1.44	2.07	1.46	2.11	1.44	2.18	1.48	2.25	1.44
	39	1.55	1.29	1.69	1.30	1.93	1.43	2.06	1.45	2.09	1.43	2.14	1.47	2.20	1.42
	41	1.55	1.29	1.68	1.29	1.88	1.41	1.97	1.41	2.00	1.39	2.05	1.43	2.10	1.38
	43	1.55	1.29	1.68	1.29	1.82	1.38	1.89	1.38	1.91	1.36	1.95	1.39	2.00	1.35

Air flow	outdoor temp DB	outdoor temp WB	indoor temp 16 ℃DB	18 ℃DB	20 ℃DB	22 ℃DB	24 ℃DB
	-19.8	-20	1.33	1.33	1.33	1.33	1.33
	-17.8	-18	1.41	1.41	1.41	1.41	1.41
	-15.7	-16	1.50	1.50	1.50	1.50	1.50
	-13.7	-14	1.58	1.58	1.58	1.58	1.58
	-11.7	-12	1.67	1.67	1.67	1.67	1.67
Lo	-9.6	-10	1.75	1.75	1.75	1.75	1.75
	-7.5	-8	1.86	1.86	1.86	1.86	1.86
5	-5.5	-6	1.97	1.97	1.97	1.97	1.97
(m³/min)	-3.4	-4	2.04	2.03	2.03	2.01	1.99
	-1.3	-2	2.10	2.10	2.09	2.05	2.01
	0.8	0	2.22	2.19	2.16	2.08	2.00
	3.9	3	2.41	2.32	2.24	2.11	1.98
	7.0	6	2.63	2.46	2.29	2.13	1.97
	10.1	9	2.61	2.45	2.28	2.11	1.95
	13.2	12	2.60	2.43	2.26	2.10	1.93
	16.9	15.5	2.58	2.41	2.24	2.08	1.91

Note(1) This data shows average statuses out of those possible to occur in the system control.
(Depending on controls, there may be ranges where the operation is not conducted continuously.)
(2) Symbols are as follows
TC :Total cooling capacity(kW)
SHC :Sensible heat capacity(kW)

PJH000Z019

Model **FDUT36KXE6F-E** Cool Mode

(kW)

Air flow	Outdoor air temp. (°CDB)	Indoor air temperature 21 °CDB 14 °CWB TC	21 °CDB 14 °CWB SHC	23 °CDB 16 °CWB TC	23 °CDB 16 °CWB SHC	26 °CDB 18 °CWB TC	26 °CDB 18 °CWB SHC	27 °CDB 19 °CWB TC	27 °CDB 19 °CWB SHC	28 °CDB 20 °CWB TC	28 °CDB 20 °CWB SHC	31 °CDB 22 °CWB TC	31 °CDB 22 °CWB SHC	33 °CDB 24 °CWB TC	33 °CDB 24 °CWB SHC
Hi 8.5 (m³/min)	10			2.95	2.25	3.53	2.55	3.82	2.61	4.06	2.65	4.55	2.86	4.72	2.78
	12			2.95	2.25	3.53	2.55	3.82	2.61	4.05	2.65	4.53	2.85	4.70	2.78
	14			2.95	2.25	3.53	2.55	3.82	2.61	4.05	2.65	4.51	2.84	4.68	2.77
	16			2.95	2.25	3.53	2.55	3.82	2.61	4.04	2.65	4.50	2.84	4.66	2.76
	18			2.95	2.25	3.53	2.55	3.82	2.61	4.04	2.65	4.48	2.83	4.64	2.75
	20			2.95	2.25	3.53	2.55	3.82	2.61	4.03	2.64	4.47	2.83	4.62	2.75
	22			2.95	2.25	3.53	2.55	3.82	2.61	4.01	2.63	4.41	2.80	4.56	2.72
	24			2.94	2.24	3.52	2.54	3.82	2.61	3.99	2.62	4.35	2.78	4.49	2.70
	26			2.94	2.24	3.51	2.54	3.78	2.60	3.95	2.61	4.28	2.75	4.43	2.67
	28	2.66	2.20	2.94	2.24	3.49	2.53	3.74	2.58	3.90	2.59	4.22	2.73	4.36	2.65
	30	2.66	2.20	2.93	2.24	3.47	2.52	3.71	2.57	3.86	2.57	4.15	2.70	4.29	2.62
	32	2.66	2.20	2.92	2.23	3.44	2.51	3.67	2.55	3.81	2.55	4.09	2.68	4.23	2.60
	34	2.66	2.20	2.91	2.23	3.43	2.50	3.62	2.53	3.75	2.52	4.00	2.64	4.14	2.57
	35	2.66	2.20	2.91	2.23	3.42	2.50	3.60	2.52	3.72	2.51	3.96	2.62	4.09	2.54
	36	2.66	2.20	2.91	2.23	3.39	2.49	3.58	2.51	3.68	2.49	3.89	2.60	4.02	2.52
	38	2.66	2.20	2.90	2.22	3.34	2.46	3.55	2.50	3.61	2.47	3.74	2.54	3.86	2.47
	39	2.66	2.20	2.89	2.22	3.32	2.45	3.53	2.49	3.58	2.45	3.67	2.51	3.78	2.44
	41	2.66	2.20	2.88	2.22	3.22	2.40	3.38	2.42	3.43	2.39	3.51	2.45	3.60	2.38
	43	2.66	2.20	2.87	2.21	3.12	2.36	3.24	2.36	3.28	2.32	3.35	2.39	3.42	2.32

Air flow	Outdoor air temp. (°CDB)	Indoor air temperature 21 °CDB 14 °CWB TC	21 °CDB 14 °CWB SHC	23 °CDB 16 °CWB TC	23 °CDB 16 °CWB SHC	26 °CDB 18 °CWB TC	26 °CDB 18 °CWB SHC	27 °CDB 19 °CWB TC	27 °CDB 19 °CWB SHC	28 °CDB 20 °CWB TC	28 °CDB 20 °CWB SHC	31 °CDB 22 °CWB TC	31 °CDB 22 °CWB SHC	33 °CDB 24 °CWB TC	33 °CDB 24 °CWB SHC
Me 7 (m³/min)	10			2.52	1.90	3.02	2.16	3.26	2.21	3.47	2.25	3.89	2.43	4.04	2.36
	12			2.52	1.90	3.02	2.16	3.26	2.21	3.47	2.25	3.87	2.42	4.02	2.35
	14			2.52	1.90	3.02	2.16	3.26	2.21	3.46	2.25	3.86	2.41	4.00	2.34
	16			2.52	1.90	3.02	2.16	3.26	2.21	3.46	2.25	3.85	2.41	3.99	2.34
	18			2.52	1.90	3.02	2.16	3.26	2.21	3.45	2.24	3.83	2.40	3.97	2.33
	20			2.52	1.90	3.02	2.16	3.26	2.21	3.45	2.24	3.82	2.40	3.95	2.32
	22			2.52	1.90	3.02	2.16	3.26	2.21	3.43	2.23	3.77	2.38	3.90	2.30
	24			2.52	1.90	3.01	2.16	3.26	2.21	3.42	2.23	3.72	2.36	3.84	2.28
	26			2.51	1.90	3.00	2.15	3.23	2.20	3.38	2.21	3.66	2.33	3.78	2.26
	28	2.28	1.87	2.51	1.90	2.99	2.14	3.20	2.19	3.34	2.19	3.60	2.31	3.73	2.24
	30	2.28	1.87	2.51	1.90	2.96	2.13	3.17	2.17	3.30	2.18	3.55	2.29	3.67	2.22
	32	2.28	1.87	2.50	1.89	2.94	2.12	3.14	2.16	3.26	2.16	3.49	2.26	3.61	2.20
	34	2.28	1.87	2.49	1.89	2.93	2.12	3.10	2.14	3.21	2.14	3.42	2.23	3.54	2.16
	35	2.28	1.87	2.49	1.89	2.92	2.11	3.08	2.13	3.18	2.12	3.38	2.22	3.50	2.15
	36	2.28	1.87	2.48	1.88	2.90	2.10	3.06	2.12	3.15	2.11	3.32	2.19	3.43	2.13
	38	2.28	1.87	2.48	1.88	2.86	2.08	3.03	2.11	3.09	2.09	3.20	2.15	3.30	2.09
	39	2.28	1.87	2.48	1.88	2.84	2.07	3.02	2.11	3.06	2.07	3.14	2.12	3.23	2.06
	41	2.28	1.87	2.47	1.88	2.75	2.04	2.89	2.05	2.93	2.02	3.00	2.07	3.08	2.01
	43	2.28	1.87	2.46	1.87	2.67	2.00	2.77	2.00	2.80	1.97	2.86	2.02	2.93	1.96

Air flow	Outdoor air temp. (°CDB)	Indoor air temperature 21 °CDB 14 °CWB TC	21 °CDB 14 °CWB SHC	23 °CDB 16 °CWB TC	23 °CDB 16 °CWB SHC	26 °CDB 18 °CWB TC	26 °CDB 18 °CWB SHC	27 °CDB 19 °CWB TC	27 °CDB 19 °CWB SHC	28 °CDB 20 °CWB TC	28 °CDB 20 °CWB SHC	31 °CDB 22 °CWB TC	31 °CDB 22 °CWB SHC	33 °CDB 24 °CWB TC	33 °CDB 24 °CWB SHC
Lo 5.5 (m³/min)	10			2.06	1.54	2.46	1.74	2.66	1.78	2.83	1.82	3.17	1.96	3.29	1.90
	12			2.06	1.54	2.46	1.74	2.66	1.78	2.83	1.82	3.16	1.95	3.28	1.90
	14			2.06	1.54	2.46	1.74	2.66	1.78	2.82	1.81	3.15	1.95	3.26	1.89
	16			2.06	1.54	2.46	1.74	2.66	1.78	2.82	1.81	3.13	1.94	3.25	1.89
	18			2.06	1.54	2.46	1.74	2.66	1.78	2.81	1.81	3.12	1.94	3.23	1.88
	20			2.06	1.54	2.46	1.74	2.66	1.78	2.81	1.81	3.11	1.93	3.22	1.88
	22			2.05	1.53	2.46	1.74	2.66	1.78	2.80	1.80	3.07	1.92	3.18	1.86
	24			2.05	1.53	2.46	1.74	2.66	1.78	2.78	1.80	3.03	1.90	3.13	1.83
	26			2.05	1.53	2.44	1.73	2.63	1.77	2.75	1.78	2.99	1.88	3.08	1.82
	28	1.86	1.51	2.05	1.53	2.43	1.73	2.61	1.76	2.72	1.76	2.94	1.86	3.04	1.81
	30	1.86	1.51	2.04	1.53	2.41	1.72	2.58	1.75	2.69	1.75	2.89	1.84	2.99	1.79
	32	1.86	1.51	2.04	1.53	2.40	1.71	2.56	1.74	2.66	1.74	2.85	1.83	2.94	1.77
	34	1.86	1.51	2.03	1.52	2.39	1.71	2.53	1.73	2.61	1.72	2.79	1.80	2.88	1.75
	35	1.86	1.51	2.03	1.52	2.38	1.70	2.51	1.72	2.59	1.71	2.76	1.79	2.85	1.74
	36	1.86	1.51	2.02	1.52	2.37	1.70	2.50	1.72	2.57	1.70	2.71	1.77	2.80	1.72
	38	1.86	1.51	2.02	1.52	2.33	1.68	2.47	1.70	2.52	1.68	2.61	1.73	2.69	1.68
	39	1.86	1.51	2.02	1.52	2.31	1.67	2.46	1.70	2.49	1.67	2.56	1.71	2.63	1.66
	41	1.86	1.51	2.01	1.51	2.24	1.64	2.36	1.65	2.39	1.63	2.45	1.67	2.51	1.61
	43	1.86	1.51	2.00	1.51	2.17	1.61	2.26	1.61	2.28	1.58	2.33	1.62	2.39	1.57

Note(1) This data shows average statuses out of those possible to occur in the system control.
(Depending on controls, there may be ranges where the operation is not conducted continuously.)
(2) Symbols are as follows
TC :Total cooling capacity(kW)
SHC :Sensible heat capacity(kW)

Heat Mode

(kW)

Air flow	outdoor temp DB	outdoor temp WB	indoor temp 16 °CDB	18 °CDB	20 °CDB	22 °CDB	24 °CDB
Hi 8.5 (m³/min)	-19.8	-20	2.32	2.32	2.32	2.32	2.32
	-17.8	-18	2.47	2.47	2.47	2.47	2.47
	-15.7	-16	2.62	2.62	2.62	2.62	2.62
	-13.7	-14	2.77	2.77	2.77	2.77	2.77
	-11.7	-12	2.92	2.92	2.92	2.92	2.92
	-9.6	-10	3.07	3.07	3.07	3.07	3.07
	-7.5	-8	3.25	3.25	3.25	3.25	3.25
	-5.5	-6	3.44	3.44	3.44	3.44	3.44
	-3.4	-4	3.56	3.56	3.55	3.52	3.48
	-1.3	-2	3.68	3.67	3.66	3.59	3.52
	0.8	0	3.88	3.83	3.77	3.64	3.50
	3.9	3	4.21	4.06	3.91	3.69	3.47
	7.0	6	4.60	4.30	4.00	3.72	3.44
	10.1	9	4.57	4.28	3.99	3.70	3.41
	13.2	12	4.54	4.25	3.96	3.67	3.38
	16.9	15.5	4.51	4.22	3.93	3.64	3.35

Air flow	outdoor temp DB	outdoor temp WB	indoor temp 16 °CDB	18 °CDB	20 °CDB	22 °CDB	24 °CDB
Me 7 (m³/min)	-19.8	-20	1.96	1.96	1.96	1.96	1.96
	-17.8	-18	2.09	2.09	2.09	2.09	2.09
	-15.7	-16	2.21	2.21	2.21	2.21	2.21
	-13.7	-14	2.34	2.34	2.34	2.34	2.34
	-11.7	-12	2.47	2.47	2.47	2.47	2.47
	-9.6	-10	2.59	2.59	2.59	2.59	2.59
	-7.5	-8	2.75	2.75	2.75	2.75	2.75
	-5.5	-6	2.91	2.91	2.91	2.91	2.91
	-3.4	-4	3.01	3.00	3.00	2.97	2.94
	-1.3	-2	3.11	3.10	3.09	3.03	2.98
	0.8	0	3.28	3.23	3.19	3.07	2.96
	3.9	3	3.56	3.43	3.30	3.12	2.93
	7.0	6	3.89	3.63	3.38	3.14	2.91
	10.1	9	3.86	3.62	3.37	3.13	2.88
	13.2	12	3.84	3.59	3.35	3.10	2.86
	16.9	15.5	3.81	3.56	3.32	3.07	2.83

Air flow	outdoor temp DB	outdoor temp WB	indoor temp 16 °CDB	18 °CDB	20 °CDB	22 °CDB	24 °CDB
Lo 5.5 (m³/min)	-19.8	-20	1.58	1.58	1.58	1.58	1.58
	-17.8	-18	1.68	1.68	1.68	1.68	1.68
	-15.7	-16	1.78	1.78	1.78	1.78	1.78
	-13.7	-14	1.88	1.88	1.88	1.88	1.88
	-11.7	-12	1.99	1.99	1.99	1.99	1.99
	-9.6	-10	2.09	2.09	2.09	2.09	2.09
	-7.5	-8	2.22	2.22	2.22	2.22	2.22
	-5.5	-6	2.34	2.34	2.34	2.34	2.34
	-3.4	-4	2.42	2.42	2.42	2.39	2.37
	-1.3	-2	2.51	2.50	2.49	2.44	2.40
	0.8	0	2.64	2.60	2.57	2.47	2.38
	3.9	3	2.87	2.76	2.66	2.51	2.36
	7.0	6	3.13	2.93	2.72	2.53	2.34
	10.1	9	3.11	2.91	2.71	2.52	2.32
	13.2	12	3.09	2.89	2.70	2.50	2.30
	16.9	15.5	3.07	2.87	2.67	2.47	2.28

PJH000Z019

Model **FDUT45KXE6F-E** Cool Mode

(kW)

Air flow	Outdoor air temp. (°CDB)	Indoor air temperature 21 °CDB 14 °CWB TC	21 °CDB 14 °CWB SHC	23 °CDB 16 °CWB TC	23 °CDB 16 °CWB SHC	26 °CDB 18 °CWB TC	26 °CDB 18 °CWB SHC	27 °CDB 19 °CWB TC	27 °CDB 19 °CWB SHC	28 °CDB 20 °CWB TC	28 °CDB 20 °CWB SHC	31 °CDB 22 °CWB TC	31 °CDB 22 °CWB SHC	33 °CDB 24 °CWB TC	33 °CDB 24 °CWB SHC
Hi 11.5 (m³/min)	10			3.69	2.86	4.41	3.25	4.77	3.32	5.07	3.37	5.68	3.64	5.90	3.54
	12			3.69	2.86	4.41	3.25	4.77	3.32	5.07	3.37	5.66	3.63	5.88	3.53
	14			3.69	2.86	4.41	3.25	4.77	3.32	5.06	3.37	5.64	3.62	5.85	3.52
	16			3.69	2.86	4.41	3.25	4.77	3.32	5.05	3.36	5.62	3.61	5.83	3.52
	18			3.69	2.86	4.41	3.25	4.77	3.32	5.05	3.36	5.60	3.61	5.80	3.51
	20			3.69	2.86	4.41	3.25	4.77	3.32	5.04	3.36	5.58	3.60	5.78	3.49
	22			3.68	2.86	4.41	3.25	4.77	3.32	5.02	3.35	5.51	3.57	5.70	3.46
	24			3.68	2.86	4.41	3.25	4.77	3.32	4.99	3.34	5.44	3.54	5.62	3.44
	26			3.68	2.86	4.39	3.23	4.73	3.31	4.93	3.31	5.35	3.51	5.53	3.41
	28	3.33	2.82	3.67	2.86	4.37	3.22	4.68	3.28	4.88	3.29	5.27	3.47	5.44	3.36
	30	3.33	2.82	3.66	2.85	4.33	3.21	4.64	3.27	4.82	3.27	5.19	3.43	5.36	3.34
	32	3.33	2.82	3.65	2.85	4.30	3.19	4.59	3.24	4.76	3.24	5.11	3.40	5.28	3.31
	34	3.33	2.82	3.64	2.84	4.28	3.18	4.53	3.22	4.69	3.21	5.00	3.37	5.17	3.28
	35	3.33	2.82	3.64	2.84	4.28	3.18	4.50	3.20	4.65	3.20	4.95	3.35	5.12	3.26
	36	3.33	2.82	3.63	2.83	4.24	3.17	4.48	3.20	4.60	3.17	4.86	3.32	5.02	3.22
	38	3.33	2.82	3.62	2.83	4.18	3.14	4.43	3.18	4.52	3.14	4.68	3.25	4.82	3.15
	39	3.33	2.82	3.62	2.83	4.15	3.12	4.41	3.17	4.47	3.12	4.59	3.21	4.72	3.12
	41	3.33	2.82	3.61	2.83	4.02	3.07	4.23	3.08	4.28	3.04	4.39	3.14	4.50	3.05
	43	3.33	2.82	3.59	2.82	3.90	3.02	4.05	3.02	4.09	2.97	4.18	3.06	4.28	2.96

Heat Mode

(kW)

Air flow	outdoor temp DB	outdoor temp WB	indoor temp 16 °CDB	18 °CDB	20 °CDB	22 °CDB	24 °CDB
Hi 11.5 (m³/min)	-19.8	-20	2.90	2.90	2.90	2.90	2.90
	-17.8	-18	3.09	3.09	3.09	3.09	3.09
	-15.7	-16	3.27	3.27	3.27	3.27	3.27
	-13.7	-14	3.46	3.46	3.46	3.46	3.46
	-11.7	-12	3.65	3.65	3.65	3.65	3.65
	-9.6	-10	3.83	3.83	3.83	3.83	3.83
	-7.5	-8	4.07	4.07	4.07	4.07	4.07
	-5.5	-6	4.30	4.30	4.30	4.30	4.30
	-3.4	-4	4.45	4.44	4.44	4.39	4.35
	-1.3	-2	4.60	4.59	4.58	4.49	4.40
	0.8	0	4.85	4.78	4.71	4.54	4.38
	3.9	3	5.26	5.08	4.89	4.61	4.34
	7.0	6	5.75	5.38	5.00	4.65	4.30
	10.1	9	5.71	5.35	4.98	4.62	4.26
	13.2	12	5.68	5.31	4.95	4.59	4.23
	16.9	15.5	5.63	5.27	4.91	4.54	4.18

Air flow	Outdoor air temp. (°CDB)	Indoor air temperature 21 °CDB 14 °CWB TC	21 °CDB 14 °CWB SHC	23 °CDB 16 °CWB TC	23 °CDB 16 °CWB SHC	26 °CDB 18 °CWB TC	26 °CDB 18 °CWB SHC	27 °CDB 19 °CWB TC	27 °CDB 19 °CWB SHC	28 °CDB 20 °CWB TC	28 °CDB 20 °CWB SHC	31 °CDB 22 °CWB TC	31 °CDB 22 °CWB SHC	33 °CDB 24 °CWB TC	33 °CDB 24 °CWB SHC
Me 9 (m³/min)	10			3.05	2.33	3.65	2.64	3.94	2.71	4.20	2.75	4.70	2.96	4.88	2.89
	12			3.05	2.33	3.65	2.64	3.94	2.71	4.19	2.75	4.68	2.96	4.86	2.88
	14			3.05	2.33	3.65	2.64	3.94	2.71	4.19	2.75	4.67	2.95	4.84	2.87
	16			3.05	2.33	3.65	2.64	3.94	2.71	4.18	2.74	4.65	2.95	4.82	2.86
	18			3.05	2.33	3.65	2.64	3.94	2.71	4.17	2.74	4.63	2.94	4.80	2.86
	20			3.05	2.33	3.65	2.64	3.94	2.71	4.17	2.74	4.62	2.94	4.78	2.85
	22			3.05	2.33	3.65	2.64	3.94	2.71	4.15	2.73	4.56	2.91	4.71	2.83
	24			3.04	2.33	3.64	2.64	3.94	2.71	4.13	2.72	4.50	2.89	4.65	2.80
	26			3.04	2.33	3.63	2.63	3.91	2.69	4.08	2.70	4.43	2.86	4.57	2.77
	28	2.75	2.29	3.04	2.33	3.61	2.63	3.87	2.68	4.03	2.68	4.36	2.83	4.50	2.75
	30	2.75	2.29	3.03	2.32	3.58	2.61	3.83	2.66	3.99	2.66	4.29	2.80	4.44	2.72
	32	2.75	2.29	3.02	2.32	3.55	2.60	3.80	2.65	3.94	2.64	4.22	2.77	4.37	2.70
	34	2.75	2.29	3.01	2.32	3.54	2.60	3.75	2.62	3.88	2.62	4.14	2.74	4.28	2.65
	35	2.75	2.29	3.01	2.32	3.54	2.60	3.72	2.61	3.84	2.60	4.09	2.72	4.23	2.64
	36	2.75	2.29	3.00	2.31	3.51	2.58	3.70	2.60	3.81	2.59	4.02	2.69	4.15	2.62
	38	2.75	2.29	3.00	2.31	3.46	2.56	3.67	2.59	3.73	2.55	3.87	2.64	3.99	2.56
	39	2.75	2.29	2.99	2.30	3.43	2.54	3.65	2.58	3.70	2.54	3.80	2.61	3.90	2.53
	41	2.75	2.29	2.98	2.30	3.33	2.50	3.50	2.52	3.54	2.48	3.63	2.54	3.72	2.47
	43	2.75	2.29	2.97	2.29	3.22	2.45	3.35	2.45	3.39	2.41	3.46	2.49	3.54	2.41

Air flow	outdoor temp DB	outdoor temp WB	indoor temp 16 °CDB	18 °CDB	20 °CDB	22 °CDB	24 °CDB
Me 9 (m³/min)	-19.8	-20	2.34	2.34	2.34	2.34	2.34
	-17.8	-18	2.49	2.49	2.49	2.49	2.49
	-15.7	-16	2.64	2.64	2.64	2.64	2.64
	-13.7	-14	2.79	2.79	2.79	2.79	2.79
	-11.7	-12	2.94	2.94	2.94	2.94	2.94
	-9.6	-10	3.09	3.09	3.09	3.09	3.09
	-7.5	-8	3.28	3.28	3.28	3.28	3.28
	-5.5	-6	3.46	3.46	3.46	3.46	3.46
	-3.4	-4	3.58	3.58	3.57	3.54	3.50
	-1.3	-2	3.71	3.69	3.68	3.61	3.54
	0.8	0	3.91	3.85	3.80	3.66	3.52
	3.9	3	4.24	4.09	3.94	3.72	3.49
	7.0	6	4.63	4.33	4.03	3.75	3.46
	10.1	9	4.60	4.31	4.01	3.72	3.43
	13.2	12	4.57	4.28	3.99	3.69	3.40
	16.9	15.5	4.54	4.24	3.95	3.66	3.37

Air flow	Outdoor air temp. (°CDB)	Indoor air temperature 21 °CDB 14 °CWB TC	21 °CDB 14 °CWB SHC	23 °CDB 16 °CWB TC	23 °CDB 16 °CWB SHC	26 °CDB 18 °CWB TC	26 °CDB 18 °CWB SHC	27 °CDB 19 °CWB TC	27 °CDB 19 °CWB SHC	28 °CDB 20 °CWB TC	28 °CDB 20 °CWB SHC	31 °CDB 22 °CWB TC	31 °CDB 22 °CWB SHC	33 °CDB 24 °CWB TC	33 °CDB 24 °CWB SHC
Lo 7 (m³/min)	10			2.48	1.87	2.96	2.12	3.20	2.17	3.41	2.21	3.82	2.38	3.96	2.32
	12			2.48	1.87	2.96	2.12	3.20	2.17	3.40	2.21	3.80	2.38	3.95	2.31
	14			2.48	1.87	2.96	2.12	3.20	2.17	3.40	2.21	3.79	2.37	3.93	2.30
	16			2.48	1.87	2.96	2.12	3.20	2.17	3.39	2.20	3.77	2.36	3.91	2.30
	18			2.48	1.87	2.96	2.12	3.20	2.17	3.39	2.20	3.76	2.36	3.89	2.29
	20			2.48	1.87	2.96	2.12	3.20	2.17	3.38	2.20	3.75	2.36	3.88	2.28
	22			2.47	1.86	2.96	2.12	3.20	2.17	3.37	2.19	3.70	2.33	3.82	2.26
	24			2.47	1.86	2.96	2.12	3.20	2.17	3.35	2.18	3.65	2.31	3.77	2.24
	26			2.47	1.86	2.94	2.11	3.17	2.16	3.31	2.17	3.59	2.29	3.71	2.22
	28	2.24	1.84	2.47	1.86	2.93	2.10	3.14	2.15	3.27	2.15	3.54	2.27	3.66	2.19
	30	2.24	1.84	2.46	1.86	2.91	2.09	3.11	2.13	3.24	2.14	3.48	2.24	3.60	2.17
	32	2.24	1.84	2.45	1.85	2.88	2.08	3.08	2.12	3.20	2.12	3.43	2.22	3.55	2.16
	34	2.24	1.84	2.44	1.85	2.87	2.07	3.04	2.10	3.15	2.10	3.36	2.19	3.47	2.13
	35	2.24	1.84	2.44	1.85	2.87	2.07	3.02	2.09	3.12	2.09	3.32	2.18	3.44	2.12
	36	2.24	1.84	2.44	1.85	2.85	2.06	3.01	2.09	3.09	2.07	3.26	2.16	3.37	2.09
	38	2.24	1.84	2.43	1.85	2.80	2.04	2.98	2.07	3.03	2.04	3.14	2.11	3.24	2.05
	39	2.24	1.84	2.43	1.85	2.78	2.04	2.96	2.06	3.00	2.03	3.08	2.09	3.17	2.02
	41	2.24	1.84	2.42	1.84	2.70	2.00	2.84	2.02	2.87	1.98	2.95	2.04	3.02	1.97
	43	2.24	1.84	2.41	1.84	2.62	1.97	2.72	1.96	2.75	1.93	2.81	1.98	2.87	1.91

Air flow	outdoor temp DB	outdoor temp WB	indoor temp 16 °CDB	18 °CDB	20 °CDB	22 °CDB	24 °CDB
Lo 7 (m³/min)	-19.8	-20	1.86	1.86	1.86	1.86	1.86
	-17.8	-18	1.98	1.98	1.98	1.98	1.98
	-15.7	-16	2.10	2.10	2.10	2.10	2.10
	-13.7	-14	2.22	2.22	2.22	2.22	2.22
	-11.7	-12	2.34	2.34	2.34	2.34	2.34
	-9.6	-10	2.46	2.46	2.46	2.46	2.46
	-7.5	-8	2.60	2.60	2.60	2.60	2.60
	-5.5	-6	2.75	2.75	2.75	2.75	2.75
	-3.4	-4	2.85	2.85	2.84	2.81	2.79
	-1.3	-2	2.95	2.94	2.93	2.87	2.82
	0.8	0	3.11	3.06	3.02	2.91	2.80
	3.9	3	3.37	3.25	3.13	2.95	2.78
	7.0	6	3.68	3.44	3.20	2.98	2.75
	10.1	9	3.66	3.42	3.19	2.96	2.73
	13.2	12	3.63	3.40	3.17	2.94	2.71
	16.9	15.5	3.61	3.37	3.14	2.91	2.68

Note(1) This data shows average statuses out of those possible to occur in the system control.
(Depending on controls, there may be ranges where the operation is not conducted continuously.)
(2) Symbols are as follows
TC :Total cooling capacity(kW)
SHC :Sensible heat capacity(kW)

PJH000Z019

Model **FDUT56KXE6F-E** Cool Mode

(kW)

Air flow	Outdoor air temp. (℃DB)	Indoor air temperature 21 ℃DB 14 ℃WB TC	SHC	23 ℃DB 16 ℃WB TC	SHC	26 ℃DB 18 ℃WB TC	SHC	27 ℃DB 19 ℃WB TC	SHC	28 ℃DB 20 ℃WB TC	SHC	31 ℃DB 22 ℃WB TC	SHC	33 ℃DB 24 ℃WB TC	SHC
Hi 12.5 (m³/min)	10			4.59	3.47	5.49	3.94	5.94	4.04	6.32	4.11	7.07	4.43	7.35	4.30
	12			4.59	3.47	5.49	3.94	5.94	4.04	6.31	4.10	7.05	4.41	7.31	4.29
	14			4.59	3.47	5.49	3.94	5.94	4.04	6.30	4.10	7.02	4.40	7.28	4.27
	16			4.59	3.47	5.49	3.94	5.94	4.04	6.29	4.10	7.00	4.39	7.25	4.26
	18			4.59	3.47	5.49	3.94	5.94	4.04	6.28	4.09	6.97	4.38	7.22	4.26
	20			4.59	3.47	5.49	3.94	5.94	4.04	6.27	4.09	6.95	4.38	7.19	4.24
	22			4.58	3.47	5.49	3.94	5.94	4.04	6.24	4.07	6.86	4.34	7.09	4.20
	24			4.58	3.47	5.48	3.93	5.94	4.04	6.21	4.06	6.77	4.30	6.99	4.17
	26			4.57	3.46	5.46	3.92	5.88	4.01	6.14	4.02	6.66	4.25	6.88	4.13
	28	4.14	3.41	4.57	3.46	5.43	3.91	5.82	3.99	6.07	3.99	6.56	4.22	6.78	4.08
	30	4.14	3.41	4.56	3.46	5.39	3.89	5.77	3.97	6.00	3.96	6.46	4.16	6.67	4.04
	32	4.14	3.41	4.55	3.45	5.35	3.87	5.71	3.94	5.93	3.94	6.36	4.12	6.57	4.01
	34	4.14	3.41	4.53	3.44	5.33	3.86	5.64	3.91	5.83	3.90	6.22	4.07	6.44	3.97
	35	4.14	3.41	4.52	3.44	5.32	3.86	5.60	3.89	5.79	3.88	6.16	4.05	6.37	3.94
	36	4.14	3.41	4.52	3.44	5.28	3.84	5.57	3.88	5.73	3.85	6.05	4.01	6.25	3.90
	38	4.14	3.41	4.51	3.44	5.20	3.81	5.52	3.85	5.62	3.80	5.82	3.92	6.00	3.80
	39	4.14	3.41	4.50	3.43	5.16	3.79	5.49	3.84	5.56	3.78	5.71	3.88	5.87	3.76
	41	4.14	3.41	4.49	3.43	5.00	3.72	5.26	3.75	5.33	3.68	5.46	3.78	5.60	3.67
	43	4.14	3.41	4.47	3.42	4.85	3.65	5.04	3.65	5.10	3.59	5.21	3.69	5.32	3.57

Air flow	Outdoor air temp. (℃DB)	Indoor air temperature 21 ℃DB 14 ℃WB TC	SHC	23 ℃DB 16 ℃WB TC	SHC	26 ℃DB 18 ℃WB TC	SHC	27 ℃DB 19 ℃WB TC	SHC	28 ℃DB 20 ℃WB TC	SHC	31 ℃DB 22 ℃WB TC	SHC	33 ℃DB 24 ℃WB TC	SHC
Me 9 (m³/min)	10			3.57	2.64	4.27	2.99	4.62	3.08	4.91	3.13	5.50	3.38	5.71	3.28
	12			3.57	2.64	4.27	2.99	4.62	3.08	4.90	3.13	5.48	3.37	5.69	3.27
	14			3.57	2.64	4.27	2.99	4.62	3.08	4.90	3.13	5.46	3.36	5.66	3.26
	16			3.57	2.64	4.27	2.99	4.62	3.08	4.89	3.12	5.44	3.35	5.64	3.25
	18			3.57	2.64	4.27	2.99	4.62	3.08	4.88	3.12	5.42	3.34	5.61	3.24
	20			3.57	2.64	4.27	2.99	4.62	3.08	4.88	3.12	5.40	3.33	5.59	3.23
	22			3.56	2.63	4.27	2.99	4.62	3.08	4.86	3.11	5.33	3.30	5.51	3.20
	24			3.56	2.63	4.26	2.99	4.62	3.08	4.83	3.10	5.27	3.28	5.44	3.17
	26			3.56	2.63	4.24	2.98	4.57	3.06	4.78	3.07	5.18	3.24	5.35	3.14
	28	3.22	2.59	3.55	2.63	4.22	2.97	4.53	3.04	4.72	3.05	5.10	3.21	5.27	3.11
	30	3.22	2.59	3.54	2.63	4.19	2.96	4.49	3.02	4.66	3.02	5.02	3.17	5.19	3.07
	32	3.22	2.59	3.54	2.63	4.16	2.95	4.44	2.99	4.61	2.99	4.94	3.14	5.11	3.05
	34	3.22	2.59	3.52	2.62	4.14	2.94	4.38	2.97	4.54	2.96	4.84	3.10	5.01	3.01
	35	3.22	2.59	3.52	2.62	4.14	2.94	4.35	2.96	4.50	2.95	4.79	3.08	4.95	2.99
	36	3.22	2.59	3.51	2.61	4.11	2.92	4.33	2.95	4.46	2.93	4.70	3.04	4.86	2.94
	38	3.22	2.59	3.51	2.61	4.04	2.89	4.29	2.93	4.37	2.89	4.53	2.97	4.66	2.88
	39	3.22	2.59	3.50	2.61	4.01	2.88	4.27	2.92	4.33	2.88	4.44	2.94	4.57	2.85
	41	3.22	2.59	3.49	2.60	3.89	2.82	4.09	2.84	4.14	2.80	4.25	2.86	4.35	2.77
	43	3.22	2.59	3.48	2.60	3.77	2.77	3.92	2.77	3.96	2.72	4.05	2.79	4.14	2.70

Air flow	Outdoor air temp. (℃DB)	Indoor air temperature 21 ℃DB 14 ℃WB TC	SHC	23 ℃DB 16 ℃WB TC	SHC	26 ℃DB 18 ℃WB TC	SHC	27 ℃DB 19 ℃WB TC	SHC	28 ℃DB 20 ℃WB TC	SHC	31 ℃DB 22 ℃WB TC	SHC	33 ℃DB 24 ℃WB TC	SHC
Lo 7.2 (m³/min)	10			2.97	2.17	3.55	2.47	3.84	2.54	4.08	2.58	4.57	2.78	4.75	2.70
	12			2.97	2.17	3.55	2.47	3.84	2.54	4.08	2.58	4.56	2.77	4.73	2.69
	14			2.97	2.17	3.55	2.47	3.84	2.54	4.07	2.57	4.54	2.76	4.71	2.68
	16			2.97	2.17	3.55	2.47	3.84	2.54	4.07	2.57	4.52	2.76	4.69	2.67
	18			2.97	2.17	3.55	2.47	3.84	2.54	4.06	2.57	4.51	2.75	4.67	2.67
	20			2.97	2.17	3.55	2.47	3.84	2.54	4.06	2.57	4.49	2.74	4.65	2.66
	22			2.96	2.17	3.55	2.47	3.84	2.54	4.04	2.56	4.43	2.72	4.58	2.62
	24			2.96	2.17	3.55	2.47	3.84	2.54	4.02	2.55	4.38	2.69	4.52	2.60
	26			2.96	2.17	3.53	2.45	3.80	2.52	3.97	2.53	4.31	2.66	4.45	2.58
	28	2.68	2.13	2.95	2.16	3.51	2.45	3.77	2.50	3.92	2.51	4.24	2.63	4.38	2.55
	30	2.68	2.13	2.95	2.16	3.48	2.43	3.73	2.49	3.88	2.49	4.17	2.61	4.32	2.53
	32	2.68	2.13	2.94	2.16	3.46	2.42	3.69	2.47	3.83	2.47	4.11	2.58	4.25	2.50
	34	2.68	2.13	2.93	2.15	3.45	2.42	3.64	2.44	3.77	2.44	4.02	2.54	4.16	2.47
	35	2.68	2.13	2.93	2.15	3.44	2.41	3.62	2.43	3.74	2.43	3.98	2.53	4.12	2.45
	36	2.68	2.13	2.92	2.15	3.41	2.40	3.60	2.42	3.70	2.41	3.91	2.50	4.04	2.42
	38	2.68	2.13	2.91	2.14	3.36	2.38	3.57	2.41	3.63	2.38	3.77	2.44	3.88	2.37
	39	2.68	2.13	2.91	2.14	3.34	2.36	3.55	2.40	3.60	2.36	3.69	2.41	3.80	2.33
	41	2.68	2.13	2.90	2.14	3.24	2.32	3.40	2.33	3.45	2.29	3.53	2.35	3.62	2.27
	43	2.68	2.13	2.89	2.13	3.14	2.27	3.26	2.27	3.29	2.23	3.37	2.28	3.44	2.20

Note(1) This data shows average statuses out of those possible to occur in the system control.
(Depending on controls, there may be ranges where the operation is not conducted continuously.)
(2) Symbols are as follows
TC :Total cooling capacity(kW)
SHC :Sensible heat capacity(kW)

Heat Mode

(kW)

Air flow	outdoor temp DB	WB	indoor temp 16 ℃CDB	18 ℃CDB	20 ℃CDB	22 ℃CDB	24 ℃CDB
Hi 12.5 (m³/min)	-19.8	-20	3.48	3.48	3.48	3.48	3.48
	-17.8	-18	3.70	3.70	3.70	3.70	3.70
	-15.7	-16	3.93	3.93	3.93	3.93	3.93
	-13.7	-14	4.15	4.15	4.15	4.15	4.15
	-11.7	-12	4.38	4.38	4.38	4.38	4.38
	-9.6	-10	4.60	4.60	4.60	4.60	4.60
	-7.5	-8	4.88	4.88	4.88	4.88	4.88
	-5.5	-6	5.16	5.16	5.16	5.16	5.16
	-3.4	-4	5.34	5.33	5.33	5.27	5.22
	-1.3	-2	5.52	5.51	5.49	5.39	5.28
	0.8	0	5.82	5.74	5.66	5.45	5.25
	3.9	3	6.32	6.09	5.87	5.54	5.21
	7.0	6	6.90	6.45	6.00	5.58	5.16
	10.1	9	6.86	6.42	5.98	5.55	5.12
	13.2	12	6.81	6.38	5.94	5.51	5.07
	16.9	15.5	6.76	6.32	5.89	5.45	5.02

Air flow	outdoor temp DB	WB	indoor temp 16 ℃CDB	18 ℃CDB	20 ℃CDB	22 ℃CDB	24 ℃CDB
Me 9 (m³/min)	-19.8	-20	2.61	2.61	2.61	2.61	2.61
	-17.8	-18	2.78	2.78	2.78	2.78	2.78
	-15.7	-16	2.94	2.94	2.94	2.94	2.94
	-13.7	-14	3.11	3.11	3.11	3.11	3.11
	-11.7	-12	3.28	3.28	3.28	3.28	3.28
	-9.6	-10	3.45	3.45	3.45	3.45	3.45
	-7.5	-8	3.66	3.66	3.66	3.66	3.66
	-5.5	-6	3.87	3.87	3.87	3.87	3.87
	-3.4	-4	4.00	4.00	3.99	3.95	3.91
	-1.3	-2	4.14	4.13	4.12	4.04	3.96
	0.8	0	4.36	4.30	4.24	4.09	3.94
	3.9	3	4.73	4.57	4.40	4.15	3.90
	7.0	6	5.17	4.84	4.50	4.18	3.87
	10.1	9	5.14	4.81	4.48	4.16	3.83
	13.2	12	5.11	4.78	4.45	4.13	3.80
	16.9	15.5	5.07	4.74	4.41	4.09	3.76

Air flow	outdoor temp DB	WB	indoor temp 16 ℃CDB	18 ℃CDB	20 ℃CDB	22 ℃CDB	24 ℃CDB
Lo 7.2 (m³/min)	-19.8	-20	2.13	2.13	2.13	2.13	2.13
	-17.8	-18	2.27	2.27	2.27	2.27	2.27
	-15.7	-16	2.40	2.40	2.40	2.40	2.40
	-13.7	-14	2.54	2.54	2.54	2.54	2.54
	-11.7	-12	2.68	2.68	2.68	2.68	2.68
	-9.6	-10	2.81	2.81	2.81	2.81	2.81
	-7.5	-8	2.99	2.99	2.99	2.99	2.99
	-5.5	-6	3.16	3.16	3.16	3.16	3.16
	-3.4	-4	3.27	3.26	3.26	3.23	3.19
	-1.3	-2	3.38	3.37	3.36	3.29	3.23
	0.8	0	3.56	3.51	3.46	3.34	3.21
	3.9	3	3.86	3.73	3.59	3.39	3.18
	7.0	6	4.22	3.95	3.67	3.41	3.16
	10.1	9	4.19	3.93	3.66	3.39	3.13
	13.2	12	4.17	3.90	3.63	3.37	3.10
	16.9	15.5	4.13	3.87	3.60	3.34	3.07

PJH000Z019

Model **FDUT71KXE6F-E** Cool Mode

(kW)

Air flow	Outdoor air temp. (℃DB)	Indoor air temperature 21 ℃DB 14 ℃WB TC	SHC	23 ℃DB 16 ℃WB TC	SHC	26 ℃DB 18 ℃WB TC	SHC	27 ℃DB 19 ℃WB TC	SHC	28 ℃DB 20 ℃WB TC	SHC	31 ℃DB 22 ℃WB TC	SHC	33 ℃DB 24 ℃WB TC	SHC
Hi	10			5.82	4.40	6.96	4.98	7.53	5.12	8.01	5.20	8.97	5.60	9.31	5.45
	12			5.82	4.40	6.96	4.98	7.53	5.12	8.00	5.19	8.94	5.59	9.27	5.43
	14			5.82	4.40	6.96	4.98	7.53	5.12	7.99	5.19	8.90	5.57	9.23	5.41
	16			5.82	4.40	6.96	4.98	7.53	5.12	7.97	5.18	8.87	5.56	9.19	5.40
	18			5.82	4.40	6.96	4.98	7.53	5.12	7.96	5.18	8.84	5.55	9.15	5.39
	20			5.82	4.40	6.96	4.98	7.53	5.12	7.95	5.17	8.81	5.54	9.11	5.36
	22			5.81	4.39	6.95	4.97	7.53	5.12	7.92	5.16	8.70	5.49	8.99	5.32
16	24			5.80	4.39	6.95	4.97	7.53	5.12	7.88	5.14	8.58	5.44	8.86	5.27
(m³/min)	26			5.80	4.39	6.92	4.96	7.46	5.09	7.79	5.11	8.45	5.38	8.73	5.22
	28	5.25	4.31	5.79	4.38	6.89	4.95	7.38	5.05	7.69	5.06	8.31	5.33	8.59	5.15
	30	5.25	4.31	5.78	4.37	6.83	4.92	7.31	5.01	7.60	5.02	8.19	5.28	8.46	5.11
	32	5.25	4.31	5.77	4.37	6.78	4.90	7.24	4.98	7.51	4.97	8.06	5.21	8.33	5.07
	34	5.25	4.31	5.75	4.36	6.76	4.89	7.15	4.94	7.39	4.92	7.89	5.15	8.16	5.01
	35	5.25	4.31	5.74	4.35	6.75	4.89	7.10	4.92	7.33	4.90	7.80	5.12	8.08	4.99
	36	5.25	4.31	5.73	4.35	6.69	4.86	7.06	4.91	7.26	4.87	7.66	5.07	7.92	4.93
	38	5.25	4.31	5.72	4.35	6.59	4.81	6.99	4.88	7.12	4.82	7.38	4.96	7.61	4.81
	39	5.25	4.31	5.71	4.34	6.54	4.79	6.96	4.87	7.05	4.78	7.24	4.90	7.45	4.77
	41	5.25	4.31	5.69	4.33	6.35	4.71	6.67	4.74	6.76	4.67	6.92	4.79	7.10	4.64
	43	5.25	4.31	5.67	4.32	6.15	4.62	6.39	4.62	6.46	4.54	6.60	4.66	6.75	4.52

Heat Mode

(kW)

Air flow	outdoor temp DB	WB	indoor temp 16 ℃DB	18 ℃DB	20 ℃DB	22 ℃DB	24 ℃DB
Hi	-19.8	-20	4.64	4.64	4.64	4.64	4.64
	-17.8	-18	4.94	4.94	4.94	4.94	4.94
	-15.7	-16	5.24	5.24	5.24	5.24	5.24
	-13.7	-14	5.54	5.54	5.54	5.54	5.54
	-11.7	-12	5.83	5.83	5.83	5.83	5.83
	-9.6	-10	6.13	6.13	6.13	6.13	6.13
	-7.5	-8	6.51	6.51	6.51	6.51	6.51
16	-5.5	-6	6.88	6.88	6.88	6.88	6.88
(m³/min)	-3.4	-4	7.12	7.11	7.10	7.03	6.96
	-1.3	-2	7.36	7.34	7.32	7.18	7.04
	0.8	0	7.76	7.65	7.54	7.27	7.00
	3.9	3	8.42	8.12	7.82	7.38	6.94
	7.0	6	9.20	8.60	8.00	7.44	6.88
	10.1	9	9.14	8.56	7.97	7.40	6.82
	13.2	12	9.08	8.50	7.92	7.34	6.76
	16.9	15.5	9.01	8.43	7.85	7.27	6.69

Air flow	Outdoor air temp. (℃DB)	Indoor air temperature 21 ℃DB 14 ℃WB TC	SHC	23 ℃DB 16 ℃WB TC	SHC	26 ℃DB 18 ℃WB TC	SHC	27 ℃DB 19 ℃WB TC	SHC	28 ℃DB 20 ℃WB TC	SHC	31 ℃DB 22 ℃WB TC	SHC	33 ℃DB 24 ℃WB TC	SHC
Me	10			4.94	3.69	5.91	4.18	6.39	4.29	6.80	4.37	7.62	4.71	7.91	4.57
	12			4.94	3.69	5.91	4.18	6.39	4.29	6.79	4.36	7.59	4.70	7.88	4.56
	14			4.94	3.69	5.91	4.18	6.39	4.29	6.78	4.36	7.56	4.69	7.84	4.55
	16			4.94	3.69	5.91	4.18	6.39	4.29	6.77	4.35	7.54	4.68	7.81	4.54
	18			4.94	3.69	5.91	4.18	6.39	4.29	6.77	4.35	7.51	4.66	7.77	4.52
	20			4.94	3.69	5.91	4.18	6.39	4.29	6.76	4.35	7.48	4.65	7.74	4.51
	22			4.94	3.69	5.91	4.18	6.39	4.29	6.72	4.33	7.39	4.61	7.63	4.47
13	24			4.93	3.68	5.91	4.18	6.39	4.29	6.69	4.32	7.29	4.57	7.53	4.43
(m³/min)	26			4.93	3.68	5.88	4.17	6.33	4.26	6.61	4.27	7.18	4.53	7.41	4.39
	28	4.46	3.62	4.92	3.68	5.85	4.15	6.27	4.24	6.54	4.25	7.06	4.48	7.30	4.33
	30	4.46	3.62	4.91	3.67	5.81	4.14	6.21	4.21	6.46	4.21	6.95	4.42	7.19	4.29
	32	4.46	3.62	4.90	3.67	5.76	4.11	6.15	4.19	6.38	4.18	6.85	4.38	7.08	4.26
	34	4.46	3.62	4.88	3.66	5.74	4.11	6.07	4.15	6.28	4.14	6.70	4.33	6.93	4.20
	35	4.46	3.62	4.87	3.66	5.73	4.10	6.03	4.14	6.23	4.12	6.63	4.30	6.86	4.18
	36	4.46	3.62	4.87	3.66	5.69	4.08	6.00	4.12	6.17	4.09	6.51	4.25	6.73	4.13
	38	4.46	3.62	4.86	3.65	5.60	4.04	5.94	4.09	6.05	4.04	6.27	4.16	6.46	4.03
	39	4.46	3.62	4.85	3.64	5.56	4.03	5.91	4.08	5.99	4.02	6.15	4.11	6.33	3.99
	41	4.46	3.62	4.83	3.63	5.39	3.95	5.67	3.97	5.74	3.91	5.88	4.00	6.03	3.88
	43	4.46	3.62	4.82	3.63	5.22	3.87	5.43	3.87	5.49	3.81	5.61	3.90	5.73	3.78

Air flow	outdoor temp DB	WB	indoor temp 16 ℃DB	18 ℃DB	20 ℃DB	22 ℃DB	24 ℃DB
Me	-19.8	-20	3.87	3.87	3.87	3.87	3.87
	-17.8	-18	4.11	4.11	4.11	4.11	4.11
	-15.7	-16	4.36	4.36	4.36	4.36	4.36
	-13.7	-14	4.61	4.61	4.61	4.61	4.61
	-11.7	-12	4.86	4.86	4.86	4.86	4.86
	-9.6	-10	5.11	5.11	5.11	5.11	5.11
	-7.5	-8	5.42	5.42	5.42	5.42	5.42
13	-5.5	-6	5.73	5.73	5.73	5.73	5.73
(m³/min)	-3.4	-4	5.93	5.92	5.91	5.86	5.80
	-1.3	-2	6.13	6.11	6.10	5.98	5.86
	0.8	0	6.46	6.37	6.28	6.06	5.83
	3.9	3	7.01	6.76	6.51	6.15	5.78
	7.0	6	7.66	7.16	6.66	6.20	5.73
	10.1	9	7.61	7.13	6.64	6.16	5.68
	13.2	12	7.56	7.08	6.60	6.11	5.63
	16.9	15.5	7.51	7.02	6.54	6.06	5.57

Air flow	Outdoor air temp. (℃DB)	Indoor air temperature 21 ℃DB 14 ℃WB TC	SHC	23 ℃DB 16 ℃WB TC	SHC	26 ℃DB 18 ℃WB TC	SHC	27 ℃DB 19 ℃WB TC	SHC	28 ℃DB 20 ℃WB TC	SHC	31 ℃DB 22 ℃WB TC	SHC	33 ℃DB 24 ℃WB TC	SHC
Lo	10			3.80	2.79	4.54	3.17	4.91	3.26	5.23	3.32	5.85	3.57	6.08	3.47
	12			3.80	2.79	4.54	3.17	4.91	3.26	5.22	3.31	5.83	3.56	6.05	3.46
	14			3.80	2.79	4.54	3.17	4.91	3.26	5.21	3.31	5.81	3.55	6.03	3.45
	16			3.80	2.79	4.54	3.17	4.91	3.26	5.20	3.30	5.79	3.55	6.00	3.44
	18			3.80	2.79	4.54	3.17	4.91	3.26	5.20	3.30	5.77	3.54	5.97	3.41
	20			3.80	2.79	4.54	3.17	4.91	3.26	5.19	3.30	5.75	3.53	5.95	3.41
	22			3.79	2.79	4.54	3.17	4.91	3.26	5.17	3.29	5.68	3.50	5.87	3.38
9.5	24			3.79	2.79	4.54	3.17	4.91	3.26	5.14	3.28	5.60	3.46	5.78	3.35
(m³/min)	26			3.78	2.78	4.52	3.16	4.87	3.24	5.08	3.25	5.51	3.42	5.70	3.32
	28	3.43	2.74	3.78	2.78	4.49	3.14	4.82	3.22	5.02	3.22	5.43	3.39	5.61	3.29
	30	3.43	2.74	3.77	2.78	4.46	3.13	4.77	3.19	4.96	3.20	5.34	3.35	5.52	3.25
	32	3.43	2.74	3.76	2.77	4.43	3.12	4.73	3.18	4.90	3.17	5.26	3.32	5.44	3.22
	34	3.43	2.74	3.75	2.77	4.41	3.11	4.66	3.14	4.83	3.14	5.15	3.27	5.33	3.18
	35	3.43	2.74	3.74	2.76	4.40	3.10	4.63	3.13	4.79	3.12	5.09	3.25	5.27	3.16
	36	3.43	2.74	3.74	2.76	4.37	3.09	4.61	3.12	4.74	3.10	5.00	3.21	5.17	3.12
	38	3.43	2.74	3.73	2.76	4.30	3.06	4.56	3.10	4.65	3.06	4.82	3.14	4.96	3.04
	39	3.43	2.74	3.73	2.76	4.27	3.04	4.54	3.09	4.60	3.04	4.73	3.11	4.86	3.01
	41	3.43	2.74	3.71	2.75	4.14	2.98	4.36	3.01	4.41	2.95	4.52	3.01	4.63	2.92
	43	3.43	2.74	3.70	2.74	4.01	2.92	4.17	2.92	4.22	2.87	4.31	2.94	4.41	2.85

Air flow	outdoor temp DB	WB	indoor temp 16 ℃DB	18 ℃DB	20 ℃DB	22 ℃DB	24 ℃DB
Lo	-19.8	-20	2.90	2.90	2.90	2.90	2.90
	-17.8	-18	3.09	3.09	3.09	3.09	3.09
	-15.7	-16	3.28	3.28	3.28	3.28	3.28
	-13.7	-14	3.46	3.46	3.46	3.46	3.46
	-11.7	-12	3.65	3.65	3.65	3.65	3.65
	-9.6	-10	3.84	3.84	3.84	3.84	3.84
	-7.5	-8	4.07	4.07	4.07	4.07	4.07
9.5	-5.5	-6	4.30	4.30	4.30	4.30	4.30
(m³/min)	-3.4	-4	4.45	4.45	4.44	4.40	4.35
	-1.3	-2	4.60	4.59	4.58	4.49	4.40
	0.8	0	4.85	4.78	4.72	4.55	4.38
	3.9	3	5.27	5.08	4.89	4.62	4.34
	7.0	6	5.75	5.38	5.00	4.65	4.30
	10.1	9	5.72	5.35	4.99	4.63	4.27
	13.2	12	5.68	5.32	4.95	4.59	4.23
	16.9	15.5	5.64	5.27	4.91	4.55	4.18

Note(1) This data shows average statuses out of those possible to occur in the system control.
(Depending on controls, there may be ranges where the operation is not conducted continuously.)
(2) Symbols are as follows
TC :Total cooling capacity(kW)
SHC :Sensible heat capacity(kW)

PJH000Z019

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

Model **FDU45KXE6F** Cool Mode (kW)

Air flow	Outdoor air temp.	Indoor air temperature 21 ℃CDB 14 ℃WB TC	SHC	23 ℃CDB 16 ℃WB TC	SHC	26 ℃CDB 18 ℃WB TC	SHC	27 ℃CDB 19 ℃WB TC	SHC	28 ℃CDB 20 ℃WB TC	SHC	31 ℃CDB 22 ℃WB TC	SHC	33 ℃CDB 24 ℃WB TC	SHC
	10			3.69	3.26	4.41	3.69	4.77	3.76	5.07	3.80	5.68	4.11	5.90	4.01
	12			3.69	3.26	4.41	3.69	4.77	3.76	5.07	3.80	5.66	4.10	5.88	4.00
	14			3.69	3.26	4.41	3.69	4.77	3.76	5.06	3.79	5.64	4.09	5.85	4.00
	16			3.69	3.26	4.41	3.69	4.77	3.76	5.05	3.79	5.62	4.09	5.83	3.99
	18			3.69	3.26	4.41	3.69	4.77	3.76	5.05	3.79	5.60	4.08	5.80	3.98
P-Hi	20			3.69	3.26	4.41	3.69	4.77	3.76	5.04	3.79	5.58	4.07	5.78	3.97
	22			3.68	3.26	4.41	3.69	4.77	3.76	5.02	3.78	5.51	4.05	5.70	3.95
13	24			3.68	3.26	4.41	3.69	4.77	3.76	4.99	3.77	5.44	4.02	5.62	3.92
(m³/min)	26			3.68	3.26	4.39	3.68	4.73	3.74	4.93	3.74	5.35	3.99	5.53	3.89
	28	3.33	3.20	3.67	3.25	4.37	3.67	4.68	3.72	4.88	3.72	5.27	3.96	5.44	3.86
	30	3.33	3.20	3.66	3.25	4.33	3.66	4.64	3.71	4.82	3.70	5.19	3.93	5.36	3.84
	32	3.33	3.20	3.65	3.25	4.30	3.64	4.59	3.69	4.76	3.68	5.11	3.90	5.28	3.81
	34	3.33	3.20	3.64	3.24	4.28	3.64	4.53	3.66	4.69	3.65	5.00	3.87	5.17	3.77
	35	3.33	3.20	3.64	3.24	4.28	3.64	4.50	3.65	4.65	3.64	4.95	3.85	5.12	3.76
	36	3.33	3.20	3.63	3.24	4.24	3.62	4.48	3.64	4.60	3.62	4.86	3.82	5.02	3.73
	38	3.33	3.20	3.62	3.23	4.18	3.60	4.43	3.62	4.52	3.59	4.68	3.75	4.82	3.66
	39	3.33	3.20	3.62	3.23	4.15	3.58	4.41	3.62	4.47	3.57	4.59	3.72	4.72	3.63
	41	3.33	3.20	3.61	3.23	4.02	3.53	4.23	3.55	4.28	3.50	4.39	3.66	4.50	3.54
	43	3.33	3.20	3.59	3.22	3.90	3.48	4.05	3.48	4.09	3.43	4.18	3.59	4.28	3.47

Heat Mode (kW)

Air flow	outdoor temp DB	WB	indoor temp 16 ℃CDB	18 ℃CDB	20 ℃CDB	22 ℃CDB	24 ℃CDB
	-19.8	-20	2.90	2.90	2.90	2.90	2.90
	-17.8	-18	3.09	3.09	3.09	3.09	3.09
	-15.7	-16	3.27	3.27	3.27	3.27	3.27
	-13.7	-14	3.46	3.46	3.46	3.46	3.46
	-11.7	-12	3.65	3.65	3.65	3.65	3.65
P-Hi	-9.6	-10	3.83	3.83	3.83	3.83	3.83
	-7.5	-8	4.07	4.07	4.07	4.07	4.07
13	-5.5	-6	4.30	4.30	4.30	4.30	4.30
(m³/min)	-3.4	-4	4.45	4.44	4.44	4.39	4.35
	-1.3	-2	4.60	4.59	4.58	4.49	4.40
	0.8	0	4.85	4.78	4.71	4.54	4.38
	3.9	3	5.26	5.08	4.89	4.61	4.34
	7.0	6	5.75	5.38	5.00	4.65	4.30
	10.1	9	5.71	5.35	4.98	4.62	4.26
	13.2	12	5.68	5.31	4.95	4.59	4.23
	16.9	15.5	5.63	5.27	4.91	4.54	4.18

Air flow	Outdoor air temp. (℃DB)	Indoor air temperature 21 ℃CDB 14 ℃WB TC	SHC	23 ℃CDB 16 ℃WB TC	SHC	26 ℃CDB 18 ℃WB TC	SHC	27 ℃CDB 19 ℃WB TC	SHC	28 ℃CDB 20 ℃WB TC	SHC	31 ℃CDB 22 ℃WB TC	SHC	33 ℃CDB 24 ℃WB TC	SHC
	10			3.58	2.84	4.28	3.21	4.63	3.29	4.93	3.33	5.52	3.60	5.73	3.50
	12			3.58	2.84	4.28	3.21	4.63	3.29	4.92	3.33	5.50	3.59	5.71	3.50
	14			3.58	2.84	4.28	3.21	4.63	3.29	4.91	3.33	5.48	3.58	5.68	3.49
	16			3.58	2.84	4.28	3.21	4.63	3.29	4.91	3.33	5.46	3.58	5.66	3.48
	18			3.58	2.84	4.28	3.21	4.63	3.29	4.90	3.32	5.44	3.57	5.63	3.47
Hi	20			3.58	2.84	4.28	3.21	4.63	3.29	4.90	3.32	5.42	3.56	5.61	3.46
	22			3.58	2.84	4.28	3.21	4.63	3.29	4.87	3.31	5.35	3.53	5.53	3.43
10	24			3.57	2.84	4.28	3.21	4.63	3.29	4.85	3.30	5.28	3.51	5.46	3.41
(m³/min)	26			3.57	2.84	4.26	3.20	4.59	3.27	4.79	3.28	5.20	3.47	5.37	3.37
	28	3.23	2.79	3.57	2.84	4.24	3.19	4.54	3.25	4.74	3.25	5.12	3.44	5.29	3.35
	30	3.23	2.79	3.56	2.83	4.21	3.18	4.50	3.23	4.68	3.23	5.04	3.41	5.21	3.32
	32	3.23	2.79	3.55	2.83	4.17	3.16	4.46	3.21	4.63	3.21	4.96	3.38	5.13	3.29
	34	3.23	2.79	3.54	2.82	4.16	3.16	4.40	3.19	4.55	3.18	4.86	3.34	5.02	3.25
	35	3.23	2.79	3.53	2.82	4.15	3.15	4.37	3.18	4.51	3.16	4.80	3.32	4.97	3.23
	36	3.23	2.79	3.53	2.82	4.12	3.14	4.35	3.17	4.47	3.15	4.72	3.29	4.87	3.20
	38	3.23	2.79	3.52	2.81	4.06	3.12	4.30	3.15	4.38	3.11	4.54	3.22	4.68	3.13
	39	3.23	2.79	3.51	2.81	4.03	3.10	4.28	3.14	4.34	3.09	4.46	3.19	4.58	3.10
	41	3.23	2.79	3.50	2.80	3.91	3.05	4.11	3.07	4.16	3.02	4.26	3.12	4.37	3.03
	43	3.23	2.79	3.49	2.80	3.78	3.00	3.93	3.00	3.98	2.95	4.06	3.05	4.15	2.96

Air flow	outdoor temp DB	WB	indoor temp 16 ℃CDB	18 ℃CDB	20 ℃CDB	22 ℃CDB	24 ℃CDB
	-19.8	-20	2.80	2.80	2.80	2.80	2.80
	-17.8	-18	2.98	2.98	2.98	2.98	2.98
	-15.7	-16	3.16	3.16	3.16	3.16	3.16
	-13.7	-14	3.34	3.34	3.34	3.34	3.34
	-11.7	-12	3.52	3.52	3.52	3.52	3.52
Hi	-9.6	-10	3.70	3.70	3.70	3.70	3.70
	-7.5	-8	3.93	3.93	3.93	3.93	3.93
10	-5.5	-6	4.15	4.15	4.15	4.15	4.15
(m³/min)	-3.4	-4	4.30	4.29	4.29	4.24	4.20
	-1.3	-2	4.44	4.43	4.42	4.33	4.25
	0.8	0	4.69	4.62	4.55	4.39	4.23
	3.9	3	5.08	4.90	4.72	4.46	4.19
	7.0	6	5.55	5.19	4.83	4.49	4.15
	10.1	9	5.52	5.17	4.81	4.46	4.12
	13.2	12	5.48	5.13	4.78	4.43	4.08
	16.9	15.5	5.44	5.09	4.74	4.39	4.04

Air flow	Outdoor air temp. (℃DB)	Indoor air temperature 21 ℃CDB 14 ℃WB TC	SHC	23 ℃CDB 16 ℃WB TC	SHC	26 ℃CDB 18 ℃WB TC	SHC	27 ℃CDB 19 ℃WB TC	SHC	28 ℃CDB 20 ℃WB TC	SHC	31 ℃CDB 22 ℃WB TC	SHC	33 ℃CDB 24 ℃WB TC	SHC
	10			3.34	2.61	4.00	2.95	4.32	3.02	4.60	3.07	5.15	3.31	5.35	3.22
	12			3.34	2.61	4.00	2.95	4.32	3.02	4.60	3.07	5.14	3.31	5.33	3.22
	14			3.34	2.61	4.00	2.95	4.32	3.02	4.59	3.07	5.12	3.30	5.31	3.21
	16			3.34	2.61	4.00	2.95	4.32	3.02	4.58	3.06	5.10	3.29	5.28	3.20
	18			3.34	2.61	4.00	2.95	4.32	3.02	4.58	3.06	5.08	3.28	5.26	3.19
Me	20			3.34	2.61	4.00	2.95	4.32	3.02	4.57	3.06	5.06	3.28	5.24	3.18
	22			3.34	2.61	4.00	2.95	4.32	3.02	4.55	3.05	5.00	3.25	5.16	3.15
9	24			3.33	2.60	3.99	2.95	4.32	3.02	4.53	3.04	4.93	3.22	5.09	3.13
(m³/min)	26			3.33	2.60	3.98	2.95	4.28	3.01	4.47	3.02	4.86	3.20	5.02	3.10
	28	3.02	2.57	3.33	2.60	3.96	2.94	4.24	2.99	4.42	2.99	4.78	3.17	4.94	3.08
	30	3.02	2.57	3.32	2.60	3.93	2.92	4.20	2.97	4.37	2.97	4.70	3.13	4.86	3.05
	32	3.02	2.57	3.31	2.60	3.90	2.91	4.16	2.95	4.32	2.95	4.63	3.11	4.79	3.02
	34	3.02	2.57	3.30	2.59	3.88	2.90	4.11	2.93	4.25	2.92	4.53	3.07	4.69	2.99
	35	3.02	2.57	3.30	2.59	3.88	2.90	4.08	2.92	4.21	2.91	4.48	3.05	4.64	2.97
	36	3.02	2.57	3.29	2.59	3.85	2.89	4.06	2.91	4.17	2.89	4.40	3.02	4.55	2.93
	38	3.02	2.57	3.28	2.58	3.79	2.86	4.02	2.90	4.09	2.86	4.24	2.96	4.37	2.87
	39	3.02	2.57	3.28	2.58	3.76	2.85	4.00	2.89	4.05	2.84	4.16	2.93	4.28	2.84
	41	3.02	2.57	3.27	2.58	3.65	2.80	3.84	2.82	3.88	2.77	3.98	2.86	4.08	2.78
	43	3.02	2.57	3.26	2.57	3.53	2.75	3.67	2.75	3.71	2.71	3.79	2.79	3.88	2.71

Air flow	outdoor temp DB	WB	indoor temp 16 ℃CDB	18 ℃CDB	20 ℃CDB	22 ℃CDB	24 ℃CDB
	-19.8	-20	2.60	2.60	2.60	2.60	2.60
	-17.8	-18	2.77	2.77	2.77	2.77	2.77
	-15.7	-16	2.94	2.94	2.94	2.94	2.94
	-13.7	-14	3.11	3.11	3.11	3.11	3.11
	-11.7	-12	3.27	3.27	3.27	3.27	3.27
Me	-9.6	-10	3.44	3.44	3.44	3.44	3.44
	-7.5	-8	3.65	3.65	3.65	3.65	3.65
9	-5.5	-6	3.86	3.86	3.86	3.86	3.86
(m³/min)	-3.4	-4	4.00	3.99	3.98	3.95	3.91
	-1.3	-2	4.13	4.12	4.11	4.03	3.95
	0.8	0	4.36	4.29	4.23	4.08	3.93
	3.9	3	4.73	4.56	4.39	4.14	3.90
	7.0	6	5.16	4.83	4.49	4.18	3.86
	10.1	9	5.13	4.80	4.47	4.15	3.83
	13.2	12	5.10	4.77	4.45	4.12	3.79
	16.9	15.5	5.06	4.73	4.41	4.08	3.75

Air flow	Outdoor air temp. (℃DB)	Indoor air temperature 21 ℃CDB 14 ℃WB TC	SHC	23 ℃CDB 16 ℃WB TC	SHC	26 ℃CDB 18 ℃WB TC	SHC	27 ℃CDB 19 ℃WB TC	SHC	28 ℃CDB 20 ℃WB TC	SHC	31 ℃CDB 22 ℃WB TC	SHC	33 ℃CDB 24 ℃WB TC	SHC
	10			3.13	2.39	3.74	2.71	4.05	2.78	4.31	2.82	4.83	3.04	5.01	2.96
	12			3.13	2.39	3.74	2.71	4.05	2.78	4.30	2.82	4.81	3.04	4.99	2.95
	14			3.13	2.39	3.74	2.71	4.05	2.78	4.30	2.82	4.79	3.03	4.97	2.94
	16			3.13	2.39	3.74	2.71	4.05	2.78	4.29	2.82	4.77	3.02	4.95	2.94
	18			3.13	2.39	3.74	2.71	4.05	2.78	4.28	2.81	4.76	3.02	4.92	2.93
Lo	20			3.13	2.39	3.74	2.71	4.05	2.78	4.28	2.81	4.74	3.01	4.90	2.92
	22			3.13	2.39	3.74	2.71	4.05	2.78	4.26	2.80	4.68	2.98	4.84	2.90
8	24			3.12	2.39	3.74	2.71	4.05	2.78	4.24	2.79	4.62	2.96	4.77	2.87
(m³/min)	26			3.12	2.39	3.72	2.70	4.01	2.77	4.19	2.77	4.55	2.93	4.70	2.84
	28	2.83	2.36	3.12	2.39	3.71	2.69	3.97	2.75	4.14	2.75	4.47	2.90	4.62	2.82
	30	2.83	2.36	3.11	2.38	3.68	2.68	3.93	2.73	4.09	2.73	4.40	2.87	4.55	2.79
	32	2.83	2.36	3.10	2.38	3.65	2.67	3.90	2.71	4.04	2.71	4.34	2.85	4.48	2.77
	34	2.83	2.36	3.09	2.37	3.64	2.66	3.85	2.69	3.98	2.69	4.24	2.81	4.39	2.73
	35	2.83	2.36	3.09	2.37	3.63	2.66	3.82	2.68	3.95	2.67	4.20	2.79	4.34	2.72
	36	2.83	2.36	3.08	2.37	3.60	2.65	3.80	2.67	3.91	2.65	4.12	2.76	4.26	2.69
	38	2.83	2.36	3.08	2.37	3.55	2.62	3.76	2.65	3.83	2.62	3.97	2.70	4.09	2.62
	39	2.83	2.36	3.07	2.37	3.52	2.61	3.74	2.64	3.79	2.60	3.90	2.68	4.01	2.60
	41	2.83	2.36	3.06	2.36	3.41	2.56	3.59	2.58	3.64	2.54	3.72	2.61	3.82	2.53
	43	2.83	2.36	3.05	2.36	3.31	2.52	3.44	2.52	3.48	2.48	3.55	2.55	3.63	2.47

Air flow	outdoor temp DB	WB	indoor temp 16 ℃CDB	18 ℃CDB	20 ℃CDB	22 ℃CDB	24 ℃CDB
	-19.8	-20	2.44	2.44	2.44	2.44	2.44
	-17.8	-18	2.60	2.60	2.60	2.60	2.60
	-15.7	-16	2.76	2.76	2.76	2.76	2.76
	-13.7	-14	2.91	2.91	2.91	2.91	2.91
	-11.7	-12	3.07	3.07	3.07	3.07	3.07
Lo	-9.6	-10	3.23	3.23	3.23	3.23	3.23
	-7.5	-8	3.42	3.42	3.42	3.42	3.42
8	-5.5	-6	3.62	3.62	3.62	3.62	3.62
(m³/min)	-3.4	-4	3.75	3.74	3.74	3.70	3.66
	-1.3	-2	3.87	3.86	3.85	3.78	3.70
	0.8	0	4.08	4.03	3.97	3.83	3.68
	3.9	3	4.43	4.27	4.12	3.88	3.65
	7.0	6	4.84	4.53	4.21	3.92	3.62
	10.1	9	4.81	4.50	4.19	3.89	3.59
	13.2	12	4.78	4.47	4.17	3.86	3.56
	16.9	15.5	4.74	4.44	4.13	3.83	3.52

Note(1) This data shows average statuses out of those possible to occur in the system control.
(Depending on controls, there may be ranges where the operation is not conducted continuously.)
(2) Symbols are as follows
TC :Total cooling capacity(kW)
SHC :Sensible heat capacity(kW)

PJG000Z054

Model **FDU56KXE6F** Cool Mode (kW)

Air flow	Outdoor air temp.	Indoor air temperature 21 ℃CDB 14 ℃WB TC	21 ℃CDB 14 ℃WB SHC	23 ℃CDB 16 ℃WB TC	23 ℃CDB 16 ℃WB SHC	26 ℃CDB 18 ℃WB TC	26 ℃CDB 18 ℃WB SHC	27 ℃CDB 19 ℃WB TC	27 ℃CDB 19 ℃WB SHC	28 ℃CDB 20 ℃WB TC	28 ℃CDB 20 ℃WB SHC	31 ℃CDB 22 ℃WB TC	31 ℃CDB 22 ℃WB SHC	33 ℃CDB 24 ℃WB TC	33 ℃CDB 24 ℃WB SHC
	10			4.59	3.66	5.49	4.14	5.94	4.24	6.32	4.30	7.07	4.64	7.35	4.52
	12			4.59	3.66	5.49	4.14	5.94	4.24	6.31	4.29	7.05	4.63	7.31	4.50
	14			4.59	3.66	5.49	4.14	5.94	4.24	6.30	4.29	7.02	4.62	7.28	4.49
	16			4.59	3.66	5.49	4.14	5.94	4.24	6.29	4.28	7.00	4.61	7.25	4.48
	18			4.59	3.66	5.49	4.14	5.94	4.24	6.28	4.28	6.97	4.60	7.22	4.47
P-Hi	20			4.59	3.66	5.49	4.14	5.94	4.24	6.27	4.28	6.95	4.59	7.19	4.46
	22			4.58	3.66	5.49	4.14	5.94	4.24	6.24	4.26	6.86	4.56	7.09	4.43
13	24			4.58	3.66	5.48	4.14	5.94	4.24	6.21	4.25	6.77	4.52	6.99	4.39
(m^3/min)	26			4.57	3.65	5.46	4.13	5.88	4.21	6.14	4.22	6.66	4.48	6.88	4.35
	28	4.14	3.60	4.57	3.65	5.43	4.12	5.82	4.19	6.07	4.19	6.56	4.44	6.78	4.32
	30	4.14	3.60	4.56	3.65	5.39	4.10	5.77	4.17	6.00	4.17	6.46	4.40	6.67	4.27
	32	4.14	3.60	4.55	3.65	5.35	4.08	5.71	4.14	5.93	4.14	6.36	4.36	6.57	4.24
	34	4.14	3.60	4.53	3.64	5.33	4.07	5.64	4.11	5.83	4.10	6.22	4.31	6.44	4.19
	35	4.14	3.60	4.52	3.63	5.32	4.07	5.60	4.10	5.79	4.08	6.16	4.28	6.37	4.17
	36	4.14	3.60	4.52	3.63	5.28	4.05	5.57	4.08	5.73	4.06	6.05	4.24	6.25	4.13
	38	4.14	3.60	4.51	3.63	5.20	4.02	5.52	4.06	5.62	4.01	5.82	4.16	6.00	4.05
	39	4.14	3.60	4.50	3.62	5.16	4.00	5.49	4.05	5.56	3.99	5.71	4.12	5.87	4.00
	41	4.14	3.60	4.49	3.62	5.00	3.93	5.26	3.96	5.33	3.90	5.46	4.03	5.60	3.91
	43	4.14	3.60	4.47	3.61	4.85	3.87	5.04	3.87	5.10	3.81	5.21	3.94	5.32	3.82

Heat Mode (kW)

Air flow	outdoor temp DB	outdoor temp WB	indoor temp 16 ℃CDB	18 ℃CDB	20 ℃CDB	22 ℃CDB	24 ℃CDB
	-19.8	-20	3.65	3.65	3.65	3.65	3.65
	-17.8	-18	3.89	3.89	3.89	3.89	3.89
	-15.7	-16	4.12	4.12	4.12	4.12	4.12
	-13.7	-14	4.36	4.36	4.36	4.36	4.36
	-11.7	-12	4.59	4.59	4.59	4.59	4.59
P-Hi	-9.6	-10	4.83	4.83	4.83	4.83	4.83
	-7.5	-8	5.12	5.12	5.12	5.12	5.12
13	-5.5	-6	5.42	5.42	5.42	5.42	5.42
(m^3/min)	-3.4	-4	5.61	5.60	5.59	5.54	5.48
	-1.3	-2	5.80	5.78	5.76	5.65	5.54
	0.8	0	6.11	6.02	5.94	5.73	5.51
	3.9	3	6.63	6.39	6.16	5.81	5.47
	7.0	6	7.25	6.77	6.30	5.86	5.42
	10.1	9	7.20	6.74	6.28	5.82	5.37
	13.2	12	7.15	6.69	6.24	5.78	5.32
	16.9	15.5	7.10	6.64	6.18	5.73	5.27

Air flow	Outdoor air temp. (℃DB)	Indoor air temperature 21 ℃CDB 14 ℃WB TC	21 ℃CDB 14 ℃WB SHC	23 ℃CDB 16 ℃WB TC	23 ℃CDB 16 ℃WB SHC	26 ℃CDB 18 ℃WB TC	26 ℃CDB 18 ℃WB SHC	27 ℃CDB 19 ℃WB TC	27 ℃CDB 19 ℃WB SHC	28 ℃CDB 20 ℃WB TC	28 ℃CDB 20 ℃WB SHC	31 ℃CDB 22 ℃WB TC	31 ℃CDB 22 ℃WB SHC	33 ℃CDB 24 ℃WB TC	33 ℃CDB 24 ℃WB SHC
	10			4.41	3.23	5.27	3.66	5.70	3.77	6.07	3.83	6.80	4.13	7.06	4.01
	12			4.41	3.23	5.27	3.66	5.70	3.77	6.06	3.83	6.77	4.12	7.03	4.00
	14			4.41	3.23	5.27	3.66	5.70	3.77	6.05	3.82	6.75	4.11	7.00	3.99
	16			4.41	3.23	5.27	3.66	5.70	3.77	6.04	3.82	6.72	4.10	6.97	3.97
	18			4.41	3.23	5.27	3.66	5.70	3.77	6.03	3.81	6.70	4.09	6.94	3.96
Hi	20			4.41	3.23	5.27	3.66	5.70	3.77	6.03	3.81	6.67	4.08	6.90	3.95
	22			4.40	3.22	5.27	3.66	5.70	3.77	6.00	3.80	6.59	4.04	6.81	3.91
10	24			4.40	3.22	5.27	3.66	5.70	3.77	5.97	3.79	6.50	4.00	6.72	3.88
(m^3/min)	26			4.39	3.22	5.24	3.65	5.65	3.74	5.90	3.76	6.40	3.96	6.61	3.83
	28	3.98	3.16	4.39	3.22	5.22	3.64	5.60	3.72	5.83	3.72	6.30	3.92	6.51	3.80
	30	3.98	3.16	4.38	3.21	5.18	3.62	5.54	3.69	5.76	3.69	6.20	3.87	6.41	3.75
	32	3.98	3.16	4.37	3.21	5.14	3.60	5.49	3.67	5.69	3.66	6.11	3.84	6.31	3.72
	34	3.98	3.16	4.35	3.20	5.12	3.59	5.42	3.64	5.60	3.62	5.98	3.78	6.18	3.67
	35	3.98	3.16	4.35	3.20	5.11	3.59	5.38	3.62	5.56	3.61	5.91	3.75	6.12	3.65
	36	3.98	3.16	4.34	3.19	5.07	3.57	5.35	3.61	5.50	3.58	5.81	3.71	6.00	3.60
	38	3.98	3.16	4.33	3.19	5.00	3.54	5.30	3.58	5.40	3.54	5.60	3.63	5.76	3.51
	39	3.98	3.16	4.33	3.19	4.96	3.52	5.27	3.57	5.34	3.51	5.49	3.59	5.64	3.47
	41	3.98	3.16	4.31	3.18	4.81	3.45	5.06	3.48	5.12	3.42	5.25	3.49	5.38	3.38
	43	3.98	3.16	4.30	3.17	4.66	3.38	4.84	3.38	4.90	3.32	5.00	3.39	5.11	3.28

Air flow	outdoor temp DB	outdoor temp WB	indoor temp 16 ℃CDB	18 ℃CDB	20 ℃CDB	22 ℃CDB	24 ℃CDB
	-19.8	-20	3.52	3.52	3.52	3.52	3.52
	-17.8	-18	3.75	3.75	3.75	3.75	3.75
	-15.7	-16	3.97	3.97	3.97	3.97	3.97
	-13.7	-14	4.20	4.20	4.20	4.20	4.20
	-11.7	-12	4.43	4.43	4.43	4.43	4.43
Hi	-9.6	-10	4.65	4.65	4.65	4.65	4.65
	-7.5	-8	4.94	4.94	4.94	4.94	4.94
10	-5.5	-6	5.22	5.22	5.22	5.22	5.22
(m^3/min)	-3.4	-4	5.40	5.39	5.39	5.33	5.28
	-1.3	-2	5.58	5.57	5.55	5.45	5.34
	0.8	0	5.89	5.80	5.72	5.52	5.31
	3.9	3	6.39	6.16	5.93	5.60	5.27
	7.0	6	6.98	6.53	6.07	5.65	5.22
	10.1	9	6.93	6.49	6.05	5.61	5.17
	13.2	12	6.89	6.45	6.01	5.57	5.13
	16.9	15.5	6.84	6.40	5.96	5.52	5.08

Air flow	Outdoor air temp. (℃DB)	Indoor air temperature 21 ℃CDB 14 ℃WB TC	21 ℃CDB 14 ℃WB SHC	23 ℃CDB 16 ℃WB TC	23 ℃CDB 16 ℃WB SHC	26 ℃CDB 18 ℃WB TC	26 ℃CDB 18 ℃WB SHC	27 ℃CDB 19 ℃WB TC	27 ℃CDB 19 ℃WB SHC	28 ℃CDB 20 ℃WB TC	28 ℃CDB 20 ℃WB SHC	31 ℃CDB 22 ℃WB TC	31 ℃CDB 22 ℃WB SHC	33 ℃CDB 24 ℃WB TC	33 ℃CDB 24 ℃WB SHC
	10			4.11	2.97	4.92	3.38	5.32	3.48	5.66	3.54	6.34	3.81	6.58	3.70
	12			4.11	2.97	4.92	3.38	5.32	3.48	5.65	3.54	6.32	3.81	6.56	3.69
	14			4.11	2.97	4.92	3.38	5.32	3.48	5.65	3.54	6.30	3.80	6.53	3.68
	16			4.11	2.97	4.92	3.38	5.32	3.48	5.64	3.53	6.27	3.78	6.50	3.67
	18			4.11	2.97	4.92	3.38	5.32	3.48	5.63	3.53	6.25	3.78	6.47	3.66
Me	20			4.11	2.97	4.92	3.38	5.32	3.48	5.62	3.53	6.23	3.77	6.44	3.64
	22			4.11	2.97	4.92	3.38	5.32	3.48	5.60	3.52	6.15	3.73	6.35	3.61
9	24			4.10	2.97	4.92	3.38	5.32	3.48	5.57	3.50	6.07	3.70	6.27	3.58
(m^3/min)	26			4.10	2.97	4.89	3.37	5.27	3.45	5.51	3.47	5.97	3.65	6.17	3.54
	28	3.71	2.91	4.10	2.97	4.87	3.36	5.22	3.43	5.44	3.44	5.88	3.62	6.07	3.50
	30	3.71	2.91	4.09	2.96	4.83	3.34	5.17	3.41	5.38	3.41	5.79	3.58	5.98	3.46
	32	3.71	2.91	4.08	2.96	4.79	3.32	5.12	3.39	5.31	3.38	5.70	3.54	5.89	3.43
	34	3.71	2.91	4.06	2.95	4.78	3.31	5.05	3.35	5.23	3.34	5.58	3.49	5.77	3.38
	35	3.71	2.91	4.06	2.95	4.77	3.31	5.02	3.34	5.19	3.33	5.52	3.46	5.71	3.36
	36	3.71	2.91	4.05	2.94	4.73	3.29	4.99	3.33	5.14	3.31	5.42	3.42	5.60	3.31
	38	3.71	2.91	4.04	2.94	4.66	3.26	4.94	3.30	5.04	3.26	5.22	3.34	5.38	3.23
	39	3.71	2.91	4.04	2.94	4.63	3.24	4.92	3.29	4.99	3.24	5.12	3.30	5.27	3.19
	41	3.71	2.91	4.02	2.93	4.49	3.18	4.72	3.20	4.78	3.15	4.89	3.21	5.02	3.10
	43	3.71	2.91	4.01	2.92	4.35	3.11	4.52	3.11	4.57	3.06	4.67	3.12	4.77	3.02

Air flow	outdoor temp DB	outdoor temp WB	indoor temp 16 ℃CDB	18 ℃CDB	20 ℃CDB	22 ℃CDB	24 ℃CDB
	-19.8	-20	3.22	3.22	3.22	3.22	3.22
	-17.8	-18	3.43	3.43	3.43	3.43	3.43
	-15.7	-16	3.64	3.64	3.64	3.64	3.64
	-13.7	-14	3.85	3.85	3.85	3.85	3.85
	-11.7	-12	4.06	4.06	4.06	4.06	4.06
Me	-9.6	-10	4.26	4.26	4.26	4.26	4.26
	-7.5	-8	4.52	4.52	4.52	4.52	4.52
9	-5.5	-6	4.78	4.78	4.78	4.78	4.78
(m^3/min)	-3.4	-4	4.95	4.94	4.93	4.89	4.84
	-1.3	-2	5.12	5.10	5.09	4.99	4.89
	0.8	0	5.39	5.32	5.24	5.05	4.87
	3.9	3	5.85	5.64	5.43	5.13	4.82
	7.0	6	6.39	5.98	5.56	5.17	4.78
	10.1	9	6.35	5.95	5.54	5.14	4.74
	13.2	12	6.31	5.91	5.50	5.10	4.70
	16.9	15.5	6.26	5.86	5.46	5.05	4.65

Air flow	Outdoor air temp. (℃DB)	Indoor air temperature 21 ℃CDB 14 ℃WB TC	21 ℃CDB 14 ℃WB SHC	23 ℃CDB 16 ℃WB TC	23 ℃CDB 16 ℃WB SHC	26 ℃CDB 18 ℃WB TC	26 ℃CDB 18 ℃WB SHC	27 ℃CDB 19 ℃WB TC	27 ℃CDB 19 ℃WB SHC	28 ℃CDB 20 ℃WB TC	28 ℃CDB 20 ℃WB SHC	31 ℃CDB 22 ℃WB TC	31 ℃CDB 22 ℃WB SHC	33 ℃CDB 24 ℃WB TC	33 ℃CDB 24 ℃WB SHC
	10			3.80	2.71	4.55	3.09	4.92	3.19	5.23	3.24	5.86	3.49	6.09	3.39
	12			3.80	2.71	4.55	3.09	4.92	3.19	5.23	3.24	5.84	3.49	6.06	3.38
	14			3.80	2.71	4.55	3.09	4.92	3.19	5.22	3.24	5.82	3.48	6.03	3.37
	16			3.80	2.71	4.55	3.09	4.92	3.19	5.21	3.23	5.80	3.47	6.01	3.36
	18			3.80	2.71	4.55	3.09	4.92	3.19	5.20	3.23	5.78	3.46	5.98	3.35
Lo	20			3.80	2.71	4.55	3.09	4.92	3.19	5.20	3.23	5.76	3.45	5.95	3.33
	22			3.80	2.71	4.54	3.08	4.92	3.19	5.17	3.21	5.68	3.41	5.87	3.30
8	24			3.79	2.71	4.54	3.08	4.92	3.19	5.15	3.20	5.61	3.38	5.79	3.26
(m^3/min)	26			3.79	2.71	4.52	3.07	4.87	3.16	5.09	3.18	5.52	3.34	5.70	3.23
	28	3.43	2.66	3.79	2.71	4.50	3.06	4.83	3.14	5.03	3.15	5.43	3.30	5.61	3.19
	30	3.43	2.66	3.78	2.70	4.47	3.05	4.78	3.12	4.97	3.12	5.35	3.27	5.53	3.16
	32	3.43	2.66	3.77	2.70	4.43	3.03	4.73	3.09	4.91	3.09	5.27	3.23	5.45	3.13
	34	3.43	2.66	3.76	2.69	4.42	3.03	4.67	3.06	4.83	3.05	5.16	3.19	5.33	3.08
	35	3.43	2.66	3.75	2.69	4.41	3.02	4.64	3.05	4.79	3.04	5.10	3.16	5.28	3.06
	36	3.43	2.66	3.74	2.68	4.37	3.00	4.62	3.04	4.75	3.02	5.01	3.12	5.18	3.02
	38	3.43	2.66	3.74	2.68	4.31	2.97	4.57	3.02	4.66	2.98	4.83	3.04	4.97	2.94
	39	3.43	2.66	3.73	2.68	4.28	2.96	4.55	3.01	4.61	2.96	4.73	3.00	4.87	2.91
	41	3.43	2.66	3.72	2.67	4.15	2.90	4.36	2.92	4.42	2.87	4.52	2.92	4.64	2.82
	43	3.43	2.66	3.70	2.66	4.02	2.84	4.18	2.84	4.22	2.79	4.31	2.84	4.41	2.74

Air flow	outdoor temp DB	outdoor temp WB	indoor temp 16 ℃CDB	18 ℃CDB	20 ℃CDB	22 ℃CDB	24 ℃CDB
	-19.8	-20	3.00	3.00	3.00	3.00	3.00
	-17.8	-18	3.19	3.19	3.19	3.19	3.19
	-15.7	-16	3.38	3.38	3.38	3.38	3.38
	-13.7	-14	3.58	3.58	3.58	3.58	3.58
	-11.7	-12	3.77	3.77	3.77	3.77	3.77
Lo	-9.6	-10	3.96	3.96	3.96	3.96	3.96
	-7.5	-8	4.20	4.20	4.20	4.20	4.20
8	-5.5	-6	4.45	4.45	4.45	4.45	4.45
(m^3/min)	-3.4	-4	4.60	4.59	4.59	4.54	4.50
	-1.3	-2	4.76	4.74	4.73	4.64	4.55
	0.8	0	5.01	4.94	4.87	4.70	4.52
	3.9	3	5.44	5.25	5.05	4.77	4.48
	7.0	6	5.95	5.56	5.17	4.81	4.45
	10.1	9	5.91	5.53	5.15	4.78	4.41
	13.2	12	5.87	5.49	5.12	4.74	4.37
	16.9	15.5	5.82	5.45	5.07	4.70	4.32

Note(1) This data shows average statuses out of those possible to occur in the system control.
(Depending on controls, there may be ranges where the operation is not conducted continuously.)
(2) Symbols are as follows
TC :Total cooling capacity(kW)
SHC :Sensible heat capacity(kW)

PJG000Z054

Model **FDU71KXE6F** Cool Mode (kW)

Air flow	Outdoor air temp.	Indoor air temperature 21 ℃CDB 14 ℃WB TC	21 ℃CDB 14 ℃WB SHC	23 ℃CDB 16 ℃WB TC	23 ℃CDB 16 ℃WB SHC	26 ℃CDB 18 ℃WB TC	26 ℃CDB 18 ℃WB SHC	27 ℃CDB 19 ℃WB TC	27 ℃CDB 19 ℃WB SHC	28 ℃CDB 20 ℃WB TC	28 ℃CDB 20 ℃WB SHC	31 ℃CDB 22 ℃WB TC	31 ℃CDB 22 ℃WB SHC	33 ℃CDB 24 ℃WB TC	33 ℃CDB 24 ℃WB SHC
	10			5.82	5.32	6.96	6.01	7.53	6.12	8.01	6.19	8.97	6.70	9.31	6.54
	12			5.82	5.32	6.96	6.01	7.53	6.12	8.00	6.19	8.94	6.69	9.27	6.52
	14			5.82	5.32	6.96	6.01	7.53	6.12	7.99	6.18	8.90	6.68	9.23	6.51
	16			5.82	5.32	6.96	6.01	7.53	6.12	7.97	6.16	8.87	6.67	9.19	6.50
	18			5.82	5.32	6.96	6.01	7.53	6.12	7.96	6.16	8.84	6.66	9.15	6.49
P-Hi	20			5.82	5.32	6.96	6.01	7.53	6.12	7.95	6.15	8.81	6.63	9.11	6.48
	22			5.81	5.31	6.95	6.00	7.53	6.12	7.92	6.14	8.70	6.60	8.99	6.44
24	24			5.80	5.31	6.95	6.00	7.53	6.12	7.88	6.13	8.58	6.56	8.86	6.40
(m³/min)	26			5.80	5.31	6.92	5.99	7.46	6.10	7.79	6.10	8.45	6.51	8.73	6.35
	28	5.25	5.04	5.79	5.31	6.89	5.98	7.38	6.07	7.69	6.06	8.31	6.46	8.59	6.31
	30	5.25	5.04	5.78	5.30	6.83	5.96	7.31	6.03	7.60	6.03	8.19	6.42	8.46	6.27
	32	5.25	5.04	5.77	5.30	6.78	5.94	7.24	6.00	7.51	6.00	8.06	6.38	8.33	6.23
	34	5.25	5.04	5.75	5.29	6.76	5.93	7.15	5.97	7.39	5.94	7.89	6.32	8.16	6.17
	35	5.25	5.04	5.74	5.29	6.75	5.93	7.10	5.95	7.33	5.92	7.80	6.28	8.08	6.14
	36	5.25	5.04	5.73	5.28	6.69	5.91	7.06	5.94	7.26	5.90	7.66	6.23	7.92	6.10
	38	5.25	5.04	5.72	5.28	6.59	5.86	6.99	5.91	7.12	5.85	7.38	6.14	7.61	5.99
	39	5.25	5.04	5.71	5.27	6.54	5.84	6.96	5.90	7.05	5.83	7.24	6.08	7.45	5.95
	41	5.25	5.04	5.69	5.27	6.35	5.77	6.67	5.78	6.76	5.71	6.92	5.98	7.10	5.84
	43	5.25	5.04	5.67	5.26	6.15	5.69	6.39	5.68	6.46	5.61	6.60	5.87	6.75	5.73

Heat Mode (kW)

Air flow	outdoor temp DB	outdoor temp WB	indoor temp 16 ℃CDB	18 ℃CDB	20 ℃CDB	22 ℃CDB	24 ℃CDB
	-19.8	-20	4.64	4.64	4.64	4.64	4.64
	-17.8	-18	4.94	4.94	4.94	4.94	4.94
	-15.7	-16	5.24	5.24	5.24	5.24	5.24
	-13.7	-14	5.54	5.54	5.54	5.54	5.54
	-11.7	-12	5.83	5.83	5.83	5.83	5.83
P-Hi	-9.6	-10	6.13	6.13	6.13	6.13	6.13
	-7.5	-8	6.51	6.51	6.51	6.51	6.51
24	-5.5	-6	6.88	6.88	6.88	6.88	6.88
(m³/min)	-3.4	-4	7.12	7.11	7.10	7.03	6.96
	-1.3	-2	7.36	7.34	7.32	7.18	7.04
	0.8	0	7.76	7.65	7.54	7.27	7.00
	3.9	3	8.42	8.12	7.82	7.38	6.94
	7.0	6	9.20	8.60	8.00	7.44	6.88
	10.1	9	9.14	8.56	7.97	7.40	6.82
	13.2	12	9.08	8.50	7.92	7.34	6.76
	16.9	15.5	9.01	8.43	7.85	7.27	6.69

Air flow	Outdoor air temp. (℃CDB)	Indoor air temperature 21 ℃CDB 14 ℃WB TC	21 ℃CDB 14 ℃WB SHC	23 ℃CDB 16 ℃WB TC	23 ℃CDB 16 ℃WB SHC	26 ℃CDB 18 ℃WB TC	26 ℃CDB 18 ℃WB SHC	27 ℃CDB 19 ℃WB TC	27 ℃CDB 19 ℃WB SHC	28 ℃CDB 20 ℃WB TC	28 ℃CDB 20 ℃WB SHC	31 ℃CDB 22 ℃WB TC	31 ℃CDB 22 ℃WB SHC	33 ℃CDB 24 ℃WB TC	33 ℃CDB 24 ℃WB SHC
	10			5.65	4.71	6.75	5.33	7.30	5.44	7.77	5.50	8.70	5.95	9.04	5.81
	12			5.65	4.71	6.75	5.33	7.30	5.44	7.76	5.50	8.67	5.94	9.00	5.79
	14			5.65	4.71	6.75	5.33	7.30	5.44	7.75	5.50	8.64	5.93	8.96	5.77
	16			5.65	4.71	6.75	5.33	7.30	5.44	7.74	5.49	8.61	5.92	8.92	5.76
	18			5.65	4.71	6.75	5.33	7.30	5.44	7.73	5.49	8.58	5.91	8.88	5.75
Hi	20			5.65	4.71	6.75	5.33	7.30	5.44	7.72	5.49	8.55	5.90	8.84	5.74
	22			5.64	4.71	6.75	5.33	7.30	5.44	7.68	5.47	8.44	5.85	8.72	5.70
19	24			5.63	4.70	6.75	5.33	7.30	5.44	7.65	5.46	8.33	5.81	8.60	5.65
(m³/min)	26			5.63	4.70	6.71	5.30	7.23	5.41	7.56	5.43	8.20	5.77	8.47	5.61
	28	5.10	4.65	5.62	4.70	6.68	5.29	7.17	5.38	7.47	5.39	8.07	5.71	8.34	5.57
	30	5.10	4.65	5.61	4.69	6.63	5.27	7.10	5.36	7.38	5.35	7.94	5.67	8.21	5.51
	32	5.10	4.65	5.59	4.68	6.58	5.25	7.03	5.33	7.29	5.32	7.82	5.63	8.09	5.48
	34	5.10	4.65	5.58	4.68	6.56	5.24	6.94	5.29	7.18	5.28	7.66	5.56	7.92	5.42
	35	5.10	4.65	5.57	4.68	6.55	5.24	6.89	5.27	7.12	5.25	7.57	5.53	7.84	5.40
	36	5.10	4.65	5.56	4.67	6.50	5.22	6.86	5.25	7.05	5.22	7.44	5.49	7.68	5.34
	38	5.10	4.65	5.55	4.67	6.40	5.18	6.79	5.23	6.91	5.17	7.17	5.39	7.38	5.25
	39	5.10	4.65	5.54	4.66	6.35	5.16	6.75	5.21	6.84	5.14	7.03	5.34	7.23	5.19
	41	5.10	4.65	5.52	4.65	6.16	5.08	6.48	5.11	6.56	5.03	6.72	5.23	6.89	5.09
	43	5.10	4.65	5.50	4.65	5.97	5.00	6.20	5.00	6.27	4.92	6.41	5.11	6.55	4.98

Air flow	outdoor temp DB	outdoor temp WB	indoor temp 16 ℃CDB	18 ℃CDB	20 ℃CDB	22 ℃CDB	24 ℃CDB
	-19.8	-20	4.49	4.49	4.49	4.49	4.49
	-17.8	-18	4.78	4.78	4.78	4.78	4.78
	-15.7	-16	5.07	5.07	5.07	5.07	5.07
	-13.7	-14	5.36	5.36	5.36	5.36	5.36
	-11.7	-12	5.65	5.65	5.65	5.65	5.65
Hi	-9.6	-10	5.93	5.93	5.93	5.93	5.93
	-7.5	-8	6.30	6.30	6.30	6.30	6.30
19	-5.5	-6	6.66	6.66	6.66	6.66	6.66
(m³/min)	-3.4	-4	6.89	6.88	6.87	6.80	6.73
	-1.3	-2	7.12	7.10	7.08	6.95	6.81
	0.8	0	7.51	7.40	7.29	7.03	6.77
	3.9	3	8.15	7.86	7.57	7.14	6.71
	7.0	6	8.90	8.32	7.74	7.20	6.66
	10.1	9	8.84	8.28	7.71	7.15	6.60
	13.2	12	8.78	8.22	7.66	7.10	6.54
	16.9	15.5	8.72	8.16	7.59	7.03	6.47

Air flow	Outdoor air temp. (℃CDB)	Indoor air temperature 21 ℃CDB 14 ℃WB TC	21 ℃CDB 14 ℃WB SHC	23 ℃CDB 16 ℃WB TC	23 ℃CDB 16 ℃WB SHC	26 ℃CDB 18 ℃WB TC	26 ℃CDB 18 ℃WB SHC	27 ℃CDB 19 ℃WB TC	27 ℃CDB 19 ℃WB SHC	28 ℃CDB 20 ℃WB TC	28 ℃CDB 20 ℃WB SHC	31 ℃CDB 22 ℃WB TC	31 ℃CDB 22 ℃WB SHC	33 ℃CDB 24 ℃WB TC	33 ℃CDB 24 ℃WB SHC
	10			5.37	4.17	6.42	4.71	6.94	4.84	7.39	4.91	8.27	5.29	8.59	5.15
	12			5.37	4.17	6.42	4.71	6.94	4.84	7.38	4.91	8.24	5.28	8.55	5.13
	14			5.37	4.17	6.42	4.71	6.94	4.84	7.37	4.90	8.21	5.27	8.52	5.12
	16			5.37	4.17	6.42	4.71	6.94	4.84	7.36	4.90	8.18	5.25	8.48	5.11
	18			5.37	4.17	6.42	4.71	6.94	4.84	7.35	4.89	8.15	5.24	8.44	5.10
Me	20			5.37	4.17	6.42	4.71	6.94	4.84	7.34	4.88	8.12	5.23	8.41	5.08
	22			5.36	4.16	6.42	4.71	6.94	4.84	7.30	4.87	8.02	5.19	8.29	5.04
15	24			5.35	4.16	6.41	4.70	6.94	4.84	7.27	4.86	7.92	5.15	8.18	5.00
(m³/min)	26			5.35	4.16	6.38	4.69	6.88	4.81	7.18	4.82	7.79	5.10	8.05	4.95
	28	4.85	4.10	5.34	4.15	6.35	4.68	6.81	4.78	7.10	4.79	7.67	5.05	7.93	4.91
	30	4.85	4.10	5.33	4.15	6.30	4.66	6.75	4.74	7.02	4.75	7.55	5.00	7.81	4.87
	32	4.85	4.10	5.32	4.14	6.26	4.64	6.68	4.71	6.93	4.70	7.44	4.96	7.69	4.82
	34	4.85	4.10	5.30	4.14	6.23	4.63	6.59	4.67	6.82	4.66	7.28	4.90	7.53	4.77
	35	4.85	4.10	5.29	4.13	6.22	4.62	6.55	4.66	6.77	4.64	7.20	4.87	7.45	4.74
	36	4.85	4.10	5.29	4.13	6.18	4.61	6.52	4.64	6.70	4.61	7.07	4.82	7.31	4.69
	38	4.85	4.10	5.27	4.12	6.08	4.57	6.45	4.62	6.57	4.56	6.81	4.72	7.02	4.58
	39	4.85	4.10	5.27	4.12	6.03	4.54	6.42	4.60	6.51	4.53	6.68	4.67	6.87	4.53
	41	4.85	4.10	5.25	4.11	5.85	4.47	6.16	4.50	6.23	4.43	6.39	4.57	6.55	4.42
	43	4.85	4.10	5.23	4.11	5.67	4.39	5.90	4.39	5.96	4.32	6.09	4.45	6.23	4.30

Air flow	outdoor temp DB	outdoor temp WB	indoor temp 16 ℃CDB	18 ℃CDB	20 ℃CDB	22 ℃CDB	24 ℃CDB
	-19.8	-20	4.22	4.22	4.22	4.22	4.22
	-17.8	-18	4.49	4.49	4.49	4.49	4.49
	-15.7	-16	4.76	4.76	4.76	4.76	4.76
	-13.7	-14	5.03	5.03	5.03	5.03	5.03
	-11.7	-12	5.30	5.30	5.30	5.30	5.30
Me	-9.6	-10	5.57	5.57	5.57	5.57	5.57
	-7.5	-8	5.91	5.91	5.91	5.91	5.91
15	-5.5	-6	6.25	6.25	6.25	6.25	6.25
(m³/min)	-3.4	-4	6.47	6.46	6.45	6.39	6.32
	-1.3	-2	6.69	6.67	6.65	6.52	6.40
	0.8	0	7.05	6.95	6.85	6.61	6.36
	3.9	3	7.65	7.38	7.11	6.71	6.31
	7.0	6	8.36	7.82	7.27	6.76	6.25
	10.1	9	8.31	7.77	7.24	6.72	6.20
	13.2	12	8.25	7.72	7.20	6.67	6.14
	16.9	15.5	8.19	7.66	7.13	6.61	6.08

Air flow	Outdoor air temp. (℃CDB)	Indoor air temperature 21 ℃CDB 14 ℃WB TC	21 ℃CDB 14 ℃WB SHC	23 ℃CDB 16 ℃WB TC	23 ℃CDB 16 ℃WB SHC	26 ℃CDB 18 ℃WB TC	26 ℃CDB 18 ℃WB SHC	27 ℃CDB 19 ℃WB TC	27 ℃CDB 19 ℃WB SHC	28 ℃CDB 20 ℃WB TC	28 ℃CDB 20 ℃WB SHC	31 ℃CDB 22 ℃WB TC	31 ℃CDB 22 ℃WB SHC	33 ℃CDB 24 ℃WB TC	33 ℃CDB 24 ℃WB SHC
	10			4.81	3.39	5.75	3.86	6.22	3.99	6.62	4.07	7.42	4.38	7.70	4.24
	12			4.81	3.39	5.75	3.86	6.22	3.99	6.61	4.06	7.39	4.37	7.67	4.23
	14			4.81	3.39	5.75	3.86	6.22	3.99	6.60	4.06	7.36	4.35	7.63	4.21
	16			4.81	3.39	5.75	3.86	6.22	3.99	6.59	4.05	7.33	4.34	7.60	4.20
	18			4.81	3.39	5.75	3.86	6.22	3.99	6.58	4.05	7.31	4.33	7.57	4.19
Lo	20			4.81	3.39	5.75	3.86	6.22	3.99	6.58	4.05	7.28	4.31	7.53	4.17
	22			4.80	3.38	5.75	3.86	6.22	3.99	6.54	4.03	7.19	4.27	7.43	4.13
10	24			4.80	3.38	5.75	3.86	6.22	3.99	6.51	4.02	7.10	4.23	7.33	4.09
(m³/min)	26			4.79	3.38	5.72	3.85	6.16	3.95	6.44	3.98	6.99	4.19	7.22	4.04
	28	4.34	3.31	4.79	3.38	5.69	3.83	6.10	3.92	6.36	3.94	6.87	4.13	7.10	3.99
	30	4.34	3.31	4.78	3.37	5.65	3.81	6.05	3.90	6.29	3.90	6.77	4.08	7.00	3.95
	32	4.34	3.31	4.77	3.37	5.61	3.79	5.99	3.87	6.21	3.87	6.66	4.04	6.89	3.91
	34	4.34	3.31	4.75	3.36	5.59	3.78	5.91	3.83	6.11	3.82	6.52	3.97	6.75	3.85
	35	4.34	3.31	4.74	3.36	5.58	3.78	5.87	3.82	6.06	3.80	6.45	3.95	6.68	3.82
	36	4.34	3.31	4.74	3.36	5.53	3.75	5.84	3.80	6.01	3.78	6.34	3.90	6.55	3.77
	38	4.34	3.31	4.73	3.35	5.45	3.72	5.78	3.77	5.89	3.72	6.10	3.79	6.29	3.67
	39	4.34	3.31	4.72	3.35	5.41	3.69	5.75	3.76	5.83	3.69	5.99	3.75	6.16	3.62
	41	4.34	3.31	4.70	3.34	5.25	3.62	5.52	3.65	5.59	3.58	5.72	3.64	5.87	3.51
	43	4.34	3.31	4.69	3.33	5.08	3.54	5.28	3.54	5.34	3.47	5.46	3.53	5.58	3.39

Air flow	outdoor temp DB	outdoor temp WB	indoor temp 16 ℃CDB	18 ℃CDB	20 ℃CDB	22 ℃CDB	24 ℃CDB
	-19.8	-20	3.77	3.77	3.77	3.77	3.77
	-17.8	-18	4.01	4.01	4.01	4.01	4.01
	-15.7	-16	4.26	4.26	4.26	4.26	4.26
	-13.7	-14	4.50	4.50	4.50	4.50	4.50
	-11.7	-12	4.74	4.74	4.74	4.74	4.74
Lo	-9.6	-10	4.98	4.98	4.98	4.98	4.98
	-7.5	-8	5.29	5.29	5.29	5.29	5.29
10	-5.5	-6	5.59	5.59	5.59	5.59	5.59
(m³/min)	-3.4	-4	5.79	5.78	5.77	5.71	5.66
	-1.3	-2	5.98	5.96	5.95	5.83	5.72
	0.8	0	6.31	6.22	6.13	5.91	5.69
	3.9	3	6.84	6.60	6.35	6.00	5.64
	7.0	6	7.48	6.99	6.50	6.05	5.59
	10.1	9	7.43	6.95	6.48	6.01	5.54
	13.2	12	7.38	6.91	6.44	5.96	5.49
	16.9	15.5	7.32	6.85	6.38	5.91	5.44

Note(1) This data shows average statuses out of those possible to occur in the system control.
(Depending on controls, there may be ranges where the operation is not conducted continuously.)
(2) Symbols are as follows
TC :Total cooling capacity(kW)
SHC :Sensible heat capacity(kW)

PJG000Z054

Model **FDU90KXE6F** Cool Mode (kW)

Air flow	Outdoor air temp.	Indoor air temperature 21 ℃CDB 14 ℃WB TC	21 ℃CDB 14 ℃WB SHC	23 ℃CDB 16 ℃WB TC	23 ℃CDB 16 ℃WB SHC	26 ℃CDB 18 ℃WB TC	26 ℃CDB 18 ℃WB SHC	27 ℃CDB 19 ℃WB TC	27 ℃CDB 19 ℃WB SHC	28 ℃CDB 20 ℃WB TC	28 ℃CDB 20 ℃WB SHC	31 ℃CDB 22 ℃WB TC	31 ℃CDB 22 ℃WB SHC	33 ℃CDB 24 ℃WB TC	33 ℃CDB 24 ℃WB SHC
P-Hi	10			7.38	6.01	8.82	6.77	9.54	6.94	10.15	7.03	11.37	7.59	11.80	7.40
	12			7.38	6.01	8.82	6.77	9.54	6.94	10.14	7.03	11.33	7.58	11.75	7.39
	14			7.38	6.01	8.82	6.77	9.54	6.94	10.12	7.02	11.29	7.56	11.70	7.36
	16			7.38	6.01	8.82	6.77	9.54	6.94	10.11	7.02	11.25	7.55	11.65	7.34
	18			7.38	6.01	8.82	6.77	9.54	6.94	10.09	7.01	11.20	7.53	11.60	7.33
	20			7.38	6.01	8.82	6.77	9.54	6.94	10.08	7.01	11.16	7.52	11.55	7.31
	22			7.37	6.00	8.82	6.77	9.54	6.94	10.03	6.99	11.02	7.45	11.39	7.24
24	24			7.36	6.00	8.81	6.76	9.54	6.94	9.99	6.97	10.88	7.41	11.24	7.20
(m³/min)	26			7.35	5.99	8.77	6.75	9.45	6.91	9.87	6.91	10.71	7.33	11.06	7.14
	28	6.66	5.92	7.34	5.99	8.73	6.73	9.36	6.86	9.75	6.87	10.54	7.28	10.89	7.08
	30	6.66	5.92	7.33	5.97	8.66	6.70	9.27	6.80	9.64	6.83	10.38	7.21	10.73	7.03
	32	6.66	5.92	7.31	5.97	8.60	6.68	9.18	6.77	9.53	6.75	10.22	7.15	10.56	6.93
	34	6.66	5.92	7.28	5.95	8.57	6.67	9.06	6.72	9.37	6.69	10.00	7.04	10.35	6.87
	35	6.66	5.92	7.27	5.95	8.55	6.66	9.00	6.70	9.30	6.67	9.89	7.01	10.24	6.83
	36	6.66	5.92	7.26	5.94	8.49	6.64	8.96	6.68	9.21	6.63	9.72	6.95	10.04	6.77
	38	6.66	5.92	7.25	5.94	8.36	6.59	8.87	6.65	9.03	6.57	9.36	6.83	9.64	6.65
	39	6.66	5.92	7.24	5.94	8.29	6.56	8.82	6.63	8.94	6.54	9.18	6.77	9.44	6.59
	41	6.66	5.92	7.21	5.92	8.04	6.45	8.46	6.49	8.56	6.40	8.77	6.62	9.00	6.44
	43	6.66	5.92	7.19	5.92	7.80	6.36	8.10	6.34	8.19	6.25	8.37	6.49	8.56	6.30

Heat Mode (kW)

Air flow	outdoor temp DB	outdoor temp WB	indoor temp 16 ℃CDB	18 ℃CDB	20 ℃CDB	22 ℃CDB	24 ℃CDB
P-Hi	-19.8	-20	5.80	5.80	5.80	5.80	5.80
	-17.8	-18	6.17	6.17	6.17	6.17	6.17
	-15.7	-16	6.55	6.55	6.55	6.55	6.55
	-13.7	-14	6.92	6.92	6.92	6.92	6.92
	-11.7	-12	7.29	7.29	7.29	7.29	7.29
	-9.6	-10	7.67	7.67	7.67	7.67	7.67
	-7.5	-8	8.13	8.13	8.13	8.13	8.13
24	-5.5	-6	8.60	8.60	8.60	8.60	8.60
(m³/min)	-3.4	-4	8.90	8.89	8.88	8.79	8.70
	-1.3	-2	9.20	9.18	9.15	8.98	8.80
	0.8	0	9.70	9.56	9.43	9.09	8.75
	3.9	3	10.53	10.15	9.78	9.23	8.68
	7.0	6	11.50	10.75	10.00	9.30	8.60
	10.1	9	11.43	10.69	9.96	9.24	8.53
	13.2	12	11.35	10.63	9.90	9.18	8.45
	16.9	15.5	11.26	10.54	9.81	9.09	8.36

Air flow	Outdoor air temp. (℃DB)	Indoor air temperature 21 ℃CDB 14 ℃WB TC	21 ℃CDB 14 ℃WB SHC	23 ℃CDB 16 ℃WB TC	23 ℃CDB 16 ℃WB SHC	26 ℃CDB 18 ℃WB TC	26 ℃CDB 18 ℃WB SHC	27 ℃CDB 19 ℃WB TC	27 ℃CDB 19 ℃WB SHC	28 ℃CDB 20 ℃WB TC	28 ℃CDB 20 ℃WB SHC	31 ℃CDB 22 ℃WB TC	31 ℃CDB 22 ℃WB SHC	33 ℃CDB 24 ℃WB TC	33 ℃CDB 24 ℃WB SHC
Hi	10			7.25	5.45	8.67	6.17	9.38	6.35	9.98	6.44	11.18	6.94	11.61	6.75
	12			7.25	5.45	8.67	6.17	9.38	6.35	9.97	6.44	11.14	6.93	11.56	6.73
	14			7.25	5.45	8.67	6.17	9.38	6.35	9.95	6.43	11.10	6.91	11.51	6.71
	16			7.25	5.45	8.67	6.17	9.38	6.35	9.94	6.43	11.06	6.90	11.46	6.69
	18			7.25	5.45	8.67	6.17	9.38	6.35	9.93	6.42	11.02	6.87	11.41	6.68
	20			7.25	5.45	8.67	6.17	9.38	6.35	9.91	6.41	10.98	6.86	11.36	6.65
	22			7.24	5.44	8.67	6.17	9.38	6.35	9.87	6.40	10.84	6.81	11.20	6.59
19	24			7.23	5.44	8.67	6.17	9.38	6.35	9.82	6.37	10.70	6.74	11.05	6.53
(m³/min)	26			7.23	5.44	8.62	6.15	9.29	6.30	9.71	6.32	10.53	6.67	10.88	6.47
	28	6.55	5.34	7.22	5.43	8.58	6.13	9.20	6.24	9.59	6.27	10.36	6.61	10.71	6.41
	30	6.55	5.34	7.20	5.42	8.52	6.10	9.12	6.21	9.48	6.21	10.20	6.54	10.55	6.35
	32	6.55	5.34	7.19	5.42	8.45	6.07	9.03	6.17	9.37	6.16	10.05	6.47	10.39	6.29
	34	6.55	5.34	7.16	5.40	8.42	6.06	8.91	6.12	9.22	6.10	9.83	6.39	10.17	6.21
	35	6.55	5.34	7.15	5.39	8.41	6.06	8.85	6.10	9.14	6.07	9.73	6.35	10.07	6.17
	36	6.55	5.34	7.14	5.39	8.34	6.02	8.81	6.08	9.05	6.04	9.55	6.28	9.87	6.08
	38	6.55	5.34	7.12	5.38	8.22	5.97	8.72	6.05	8.88	5.97	9.20	6.13	9.48	5.95
	39	6.55	5.34	7.12	5.38	8.15	5.94	8.67	6.02	8.79	5.93	9.03	6.07	9.28	5.89
	41	6.55	5.34	7.09	5.37	7.91	5.83	8.32	5.87	8.42	5.77	8.63	5.93	8.85	5.74
	43	6.55	5.34	7.07	5.36	7.67	5.72	7.97	5.72	8.05	5.62	8.23	5.78	8.41	5.59

Air flow	outdoor temp DB	outdoor temp WB	indoor temp 16 ℃CDB	18 ℃CDB	20 ℃CDB	22 ℃CDB	24 ℃CDB
Hi	-19.8	-20	5.66	5.66	5.66	5.66	5.66
	-17.8	-18	6.02	6.02	6.02	6.02	6.02
	-15.7	-16	6.38	6.38	6.38	6.38	6.38
	-13.7	-14	6.75	6.75	6.75	6.75	6.75
	-11.7	-12	7.11	7.11	7.11	7.11	7.11
	-9.6	-10	7.48	7.48	7.48	7.48	7.48
	-7.5	-8	7.93	7.93	7.93	7.93	7.93
19	-5.5	-6	8.39	8.39	8.39	8.39	8.39
(m³/min)	-3.4	-4	8.68	8.67	8.65	8.57	8.48
	-1.3	-2	8.97	8.95	8.92	8.75	8.58
	0.8	0	9.46	9.32	9.19	8.86	8.53
	3.9	3	10.26	9.90	9.53	8.99	8.46
	7.0	6	11.21	10.48	9.75	9.07	8.39
	10.1	9	11.14	10.43	9.71	9.01	8.31
	13.2	12	11.07	10.36	9.65	8.95	8.24
	16.9	15.5	10.98	10.27	9.57	8.86	8.15

Air flow	Outdoor air temp. (℃DB)	Indoor air temperature 21 ℃CDB 14 ℃WB TC	21 ℃CDB 14 ℃WB SHC	23 ℃CDB 16 ℃WB TC	23 ℃CDB 16 ℃WB SHC	26 ℃CDB 18 ℃WB TC	26 ℃CDB 18 ℃WB SHC	27 ℃CDB 19 ℃WB TC	27 ℃CDB 19 ℃WB SHC	28 ℃CDB 20 ℃WB TC	28 ℃CDB 20 ℃WB SHC	31 ℃CDB 22 ℃WB TC	31 ℃CDB 22 ℃WB SHC	33 ℃CDB 24 ℃WB TC	33 ℃CDB 24 ℃WB SHC
Me	10			6.89	4.90	8.23	5.57	8.90	5.74	9.47	5.85	10.61	6.30	11.02	6.12
	12			6.89	4.90	8.23	5.57	8.90	5.74	9.46	5.84	10.57	6.29	10.97	6.09
	14			6.89	4.90	8.23	5.57	8.90	5.74	9.45	5.84	10.53	6.27	10.92	6.07
	16			6.89	4.90	8.23	5.57	8.90	5.74	9.43	5.83	10.50	6.26	10.88	6.06
	18			6.89	4.90	8.23	5.57	8.90	5.74	9.42	5.83	10.46	6.23	10.83	6.04
	20			6.89	4.90	8.23	5.57	8.90	5.74	9.41	5.82	10.42	6.22	10.78	6.01
	22			6.88	4.89	8.23	5.57	8.90	5.74	9.37	5.80	10.29	6.16	10.63	5.95
15	24			6.87	4.89	8.22	5.56	8.90	5.74	9.32	5.78	10.16	6.10	10.49	5.89
(m³/min)	26			6.86	4.88	8.19	5.55	8.82	5.70	9.21	5.72	10.00	6.03	10.33	5.83
	28	6.22	4.79	6.85	4.88	8.15	5.53	8.74	5.66	9.10	5.67	9.84	5.96	10.16	5.76
	30	6.22	4.79	6.84	4.87	8.09	5.50	8.65	5.62	9.00	5.63	9.69	5.89	10.01	5.70
	32	6.22	4.79	6.82	4.86	8.02	5.46	8.57	5.58	8.89	5.58	9.54	5.83	9.86	5.64
	34	6.22	4.79	6.80	4.85	7.99	5.45	8.46	5.53	8.75	5.51	9.33	5.74	9.66	5.56
	35	6.22	4.79	6.79	4.84	7.98	5.44	8.40	5.50	8.68	5.48	9.23	5.69	9.55	5.52
	36	6.22	4.79	6.78	4.84	7.92	5.42	8.36	5.48	8.59	5.44	9.07	5.63	9.37	5.43
	38	6.22	4.79	6.76	4.83	7.80	5.35	8.27	5.44	8.43	5.37	8.74	5.48	9.00	5.30
	39	6.22	4.79	6.75	4.82	7.74	5.33	8.23	5.42	8.34	5.32	8.57	5.41	8.81	5.23
	41	6.22	4.79	6.73	4.81	7.51	5.22	7.90	5.27	7.99	5.17	8.19	5.26	8.40	5.08
	43	6.22	4.79	6.71	4.81	7.28	5.11	7.56	5.11	7.64	5.01	7.81	5.11	7.99	4.93

Air flow	outdoor temp DB	outdoor temp WB	indoor temp 16 ℃CDB	18 ℃CDB	20 ℃CDB	22 ℃CDB	24 ℃CDB
Me	-19.8	-20	5.34	5.34	5.34	5.34	5.34
	-17.8	-18	5.68	5.68	5.68	5.68	5.68
	-15.7	-16	6.02	6.02	6.02	6.02	6.02
	-13.7	-14	6.37	6.37	6.37	6.37	6.37
	-11.7	-12	6.71	6.71	6.71	6.71	6.71
	-9.6	-10	7.05	7.05	7.05	7.05	7.05
	-7.5	-8	7.48	7.48	7.48	7.48	7.48
15	-5.5	-6	7.91	7.91	7.91	7.91	7.91
(m³/min)	-3.4	-4	8.19	8.18	8.17	8.08	8.00
	-1.3	-2	8.46	8.44	8.42	8.26	8.10
	0.8	0	8.92	8.80	8.67	8.36	8.05
	3.9	3	9.68	9.34	8.99	8.49	7.98
	7.0	6	10.58	9.89	9.20	8.56	7.91
	10.1	9	10.51	9.84	9.17	8.50	7.84
	13.2	12	10.44	9.78	9.11	8.44	7.77
	16.9	15.5	10.36	9.69	9.03	8.36	7.69

Air flow	Outdoor air temp. (℃DB)	Indoor air temperature 21 ℃CDB 14 ℃WB TC	21 ℃CDB 14 ℃WB SHC	23 ℃CDB 16 ℃WB TC	23 ℃CDB 16 ℃WB SHC	26 ℃CDB 18 ℃WB TC	26 ℃CDB 18 ℃WB SHC	27 ℃CDB 19 ℃WB TC	27 ℃CDB 19 ℃WB SHC	28 ℃CDB 20 ℃WB TC	28 ℃CDB 20 ℃WB SHC	31 ℃CDB 22 ℃WB TC	31 ℃CDB 22 ℃WB SHC	33 ℃CDB 24 ℃WB TC	33 ℃CDB 24 ℃WB SHC
Lo	10			5.99	4.02	7.16	4.61	7.75	4.79	8.24	4.91	9.23	5.31	9.59	5.13
	12			5.99	4.02	7.16	4.61	7.75	4.79	8.23	4.91	9.20	5.29	9.55	5.11
	14			5.99	4.02	7.16	4.61	7.75	4.79	8.22	4.90	9.17	5.27	9.51	5.09
	16			5.99	4.02	7.16	4.61	7.75	4.79	8.21	4.90	9.13	5.25	9.46	5.06
	18			5.99	4.02	7.16	4.61	7.75	4.79	8.20	4.89	9.10	5.23	9.42	5.04
	20			5.99	4.02	7.16	4.61	7.75	4.79	8.19	4.89	9.07	5.22	9.38	5.02
	22			5.98	4.01	7.16	4.61	7.75	4.79	8.15	4.86	8.95	5.15	9.25	4.96
10	24			5.98	4.01	7.16	4.61	7.75	4.79	8.11	4.84	8.84	5.09	9.13	4.90
(m³/min)	26			5.97	4.01	7.12	4.59	7.68	4.75	8.02	4.79	8.70	5.02	8.99	4.83
	28	5.41	3.91	5.96	4.00	7.09	4.57	7.60	4.71	7.92	4.73	8.56	4.95	8.85	4.77
	30	5.41	3.91	5.95	4.00	7.04	4.54	7.53	4.67	7.83	4.68	8.43	4.88	8.71	4.70
	32	5.41	3.91	5.94	3.99	6.98	4.51	7.46	4.63	7.74	4.64	8.30	4.81	8.58	4.64
	34	5.41	3.91	5.92	3.98	6.96	4.50	7.36	4.58	7.61	4.57	8.12	4.72	8.40	4.56
	35	5.41	3.91	5.91	3.97	6.94	4.49	7.31	4.55	7.55	4.54	8.04	4.68	8.31	4.51
	36	5.41	3.91	5.90	3.97	6.89	4.46	7.27	4.53	7.48	4.50	7.89	4.61	8.15	4.44
	38	5.41	3.91	5.88	3.96	6.79	4.41	7.20	4.49	7.33	4.42	7.60	4.47	7.83	4.30
	39	5.41	3.91	5.88	3.96	6.73	4.37	7.16	4.47	7.26	4.39	7.46	4.40	7.67	4.23
	41	5.41	3.91	5.86	3.95	6.53	4.26	6.87	4.32	6.96	4.23	7.13	4.25	7.31	4.08
	43	5.41	3.91	5.84	3.93	6.33	4.16	6.58	4.17	6.65	4.08	6.80	4.10	6.95	3.93

Air flow	outdoor temp DB	outdoor temp WB	indoor temp 16 ℃CDB	18 ℃CDB	20 ℃CDB	22 ℃CDB	24 ℃CDB
Lo	-19.8	-20	4.59	4.59	4.59	4.59	4.59
	-17.8	-18	4.89	4.89	4.89	4.89	4.89
	-15.7	-16	5.18	5.18	5.18	5.18	5.18
	-13.7	-14	5.48	5.48	5.48	5.48	5.48
	-11.7	-12	5.78	5.78	5.78	5.78	5.78
	-9.6	-10	6.07	6.07	6.07	6.07	6.07
	-7.5	-8	6.44	6.44	6.44	6.44	6.44
10	-5.5	-6	6.81	6.81	6.81	6.81	6.81
(m³/min)	-3.4	-4	7.05	7.04	7.03	6.96	6.89
	-1.3	-2	7.29	7.27	7.25	7.11	6.97
	0.8	0	7.68	7.57	7.46	7.20	6.93
	3.9	3	8.34	8.04	7.74	7.31	6.87
	7.0	6	9.11	8.51	7.92	7.37	6.81
	10.1	9	9.05	8.47	7.89	7.32	6.75
	13.2	12	8.99	8.42	7.84	7.27	6.69
	16.9	15.5	8.92	8.35	7.77	7.20	6.62

Note(1) This data shows average statuses out of those possible to occur in the system control.
(Depending on controls, there may be ranges where the operation is not conducted continuously.)
(2) Symbols are as follows
TC :Total cooling capacity(kW)
SHC :Sensible heat capacity(kW)

PJG000Z054

Model **FDU112KXE6F** Cool Mode (kW)

Air flow	Outdoor air temp.	Indoor air temperature 21 ℃CDB 14 ℃CWB		23 ℃CDB 16 ℃CWB		26 ℃CDB 18 ℃CWB		27 ℃CDB 19 ℃CWB		28 ℃CDB 20 ℃CWB		31 ℃CDB 22 ℃CWB		33 ℃CDB 24 ℃CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
P-Hi 36 (m³/min)	10			9.18	7.72	10.97	8.72	11.87	8.91	12.63	9.01	14.15	9.75	14.69	9.51
	12			9.18	7.72	10.97	8.72	11.87	8.91	12.61	9.00	14.10	9.71	14.63	9.43
	14			9.18	7.72	10.97	8.72	11.87	8.91	12.60	9.00	14.05	9.70	14.56	9.41
	16			9.18	7.72	10.97	8.72	11.87	8.91	12.58	8.99	14.00	9.69	14.50	9.40
	18			9.18	7.72	10.97	8.72	11.87	8.91	12.56	8.98	13.94	9.67	14.44	9.38
	20			9.18	7.72	10.97	8.72	11.87	8.91	12.55	8.98	13.89	9.65	14.37	9.36
	22			9.17	7.72	10.97	8.72	11.87	8.91	12.49	8.96	13.72	9.54	14.18	9.31
	24			9.15	7.71	10.97	8.72	11.87	8.91	12.43	8.94	13.54	9.48	13.98	9.25
	26			9.15	7.71	10.92	8.70	11.76	8.87	12.28	8.87	13.33	9.42	13.77	9.19
	28	8.29	7.59	9.14	7.71	10.86	8.66	11.65	8.81	12.14	8.82	13.11	9.35	13.55	9.11
	30	8.29	7.59	9.12	7.68	10.78	8.63	11.54	8.77	12.00	8.76	12.91	9.27	13.35	9.04
	32	8.29	7.59	9.09	7.67	10.70	8.60	11.42	8.71	11.85	8.71	12.71	9.21	13.15	8.98
	34	8.29	7.59	9.06	7.66	10.66	8.59	11.27	8.66	11.66	8.62	12.45	9.11	12.87	8.88
	35	8.29	7.59	9.05	7.65	10.64	8.58	11.20	8.63	11.57	8.59	12.31	9.05	12.74	8.85
	36	8.29	7.59	9.04	7.65	10.56	8.55	11.14	8.61	11.46	8.56	12.09	8.98	12.49	8.76
	38	8.29	7.59	9.02	7.64	10.40	8.48	11.03	8.56	11.24	8.47	11.65	8.83	12.00	8.60
	39	8.29	7.59	9.00	7.60	10.32	8.45	10.98	8.54	11.13	8.43	11.43	8.75	11.75	8.52
	41	8.29	7.59	8.97	7.59	10.01	8.32	10.53	8.37	10.66	8.24	10.92	8.58	11.20	8.28
	43	8.29	7.59	8.94	7.58	9.70	8.19	10.08	8.17	10.19	8.06	10.41	8.34	10.65	8.13

Heat Mode (kW)

Air flow	outdoor temp DB	outdoor temp WB	indoor temp 16 ℃CDB	18 ℃CDB	20 ℃CDB	22 ℃CDB	24 ℃CDB
P-Hi 36 (m³/min)	-19.8	-20	7.25	7.25	7.25	7.25	7.25
	-17.8	-18	7.72	7.72	7.72	7.72	7.72
	-15.7	-16	8.18	8.18	8.18	8.18	8.18
	-13.7	-14	8.65	8.65	8.65	8.65	8.65
	-11.7	-12	9.12	9.12	9.12	9.12	9.12
	-9.6	-10	9.58	9.58	9.58	9.58	9.58
	-7.5	-8	10.17	10.17	10.17	10.17	10.17
	-5.5	-6	10.75	10.75	10.75	10.75	10.75
	-3.4	-4	11.13	11.11	11.09	10.98	10.88
	-1.3	-2	11.50	11.47	11.44	11.22	11.00
	0.8	0	12.13	11.95	11.78	11.36	10.94
	3.9	3	13.16	12.69	12.22	11.53	10.84
	7.0	6	14.38	13.44	12.50	11.63	10.75
	10.1	9	14.28	13.37	12.45	11.55	10.66
	13.2	12	14.19	13.28	12.38	11.47	10.56
	16.9	15.5	14.08	13.17	12.27	11.36	10.45

Air flow	Outdoor air temp. (℃DB)	Indoor air temperature 21 ℃CDB 14 ℃CWB		23 ℃CDB 16 ℃CWB		26 ℃CDB 18 ℃CWB		27 ℃CDB 19 ℃CWB		28 ℃CDB 20 ℃CWB		31 ℃CDB 22 ℃CWB		33 ℃CDB 24 ℃CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Hi 28 (m³/min)	10			8.94	6.86	10.69	7.79	11.56	7.99	12.30	8.12	13.78	8.76	14.31	8.50
	12			8.94	6.86	10.69	7.79	11.56	7.99	12.29	8.11	13.73	8.74	14.25	8.48
	14			8.94	6.86	10.69	7.79	11.56	7.99	12.27	8.11	13.68	8.68	14.19	8.46
	16			8.94	6.86	10.69	7.79	11.56	7.99	12.25	8.10	13.63	8.67	14.13	8.44
	18			8.94	6.86	10.69	7.79	11.56	7.99	12.24	8.10	13.58	8.65	14.06	8.42
	20			8.94	6.86	10.69	7.79	11.56	7.99	12.22	8.08	13.53	8.63	14.00	8.41
	22			8.93	6.85	10.69	7.79	11.56	7.99	12.16	8.05	13.36	8.58	13.81	8.33
	24			8.92	6.85	10.68	7.79	11.56	7.99	12.11	8.04	13.19	8.51	13.62	8.26
	26			8.91	6.84	10.63	7.77	11.46	7.95	11.96	7.97	12.98	8.43	13.41	8.19
	28	8.07	6.77	8.90	6.84	10.58	7.75	11.35	7.90	11.82	7.91	12.77	8.34	13.20	8.11
	30	8.07	6.77	8.88	6.83	10.50	7.71	11.24	7.83	11.68	7.86	12.58	8.27	13.00	8.04
	32	8.07	6.77	8.86	6.82	10.42	7.68	11.13	7.79	11.55	7.77	12.39	8.19	12.81	7.97
	34	8.07	6.77	8.83	6.81	10.38	7.66	10.98	7.73	11.36	7.70	12.12	8.09	12.54	7.83
	35	8.07	6.77	8.82	6.81	10.36	7.65	10.91	7.71	11.27	7.67	11.99	8.04	12.41	7.79
	36	8.07	6.77	8.80	6.80	10.29	7.61	10.86	7.69	11.16	7.63	11.78	7.92	12.17	7.72
	38	8.07	6.77	8.78	6.79	10.13	7.55	10.75	7.64	10.95	7.55	11.35	7.79	11.69	7.57
	39	8.07	6.77	8.77	6.79	10.05	7.51	10.69	7.61	10.84	7.49	11.13	7.70	11.45	7.48
	41	8.07	6.77	8.74	6.77	9.75	7.38	10.26	7.43	10.38	7.31	10.64	7.52	10.91	7.30
	43	8.07	6.77	8.71	6.76	9.45	7.24	9.82	7.24	9.93	7.14	10.14	7.33	10.37	7.12

Air flow	outdoor temp DB	outdoor temp WB	indoor temp 16 ℃CDB	18 ℃CDB	20 ℃CDB	22 ℃CDB	24 ℃CDB
Hi 28 (m³/min)	-19.8	-20	7.05	7.05	7.05	7.05	7.05
	-17.8	-18	7.51	7.51	7.51	7.51	7.51
	-15.7	-16	7.96	7.96	7.96	7.96	7.96
	-13.7	-14	8.41	8.41	8.41	8.41	8.41
	-11.7	-12	8.87	8.87	8.87	8.87	8.87
	-9.6	-10	9.32	9.32	9.32	9.32	9.32
	-7.5	-8	9.89	9.89	9.89	9.89	9.89
	-5.5	-6	10.46	10.46	10.46	10.46	10.46
	-3.4	-4	10.82	10.81	10.79	10.69	10.58
	-1.3	-2	11.19	11.16	11.13	10.91	10.70
	0.8	0	11.80	11.63	11.46	11.05	10.64
	3.9	3	12.80	12.34	11.89	11.22	10.55
	7.0	6	13.98	13.07	12.16	11.31	10.46
	10.1	9	13.89	13.00	12.11	11.24	10.37
	13.2	12	13.80	12.92	12.04	11.16	10.28
	16.9	15.5	13.70	12.81	11.93	11.05	10.17

Air flow	Outdoor air temp. (℃DB)	Indoor air temperature 21 ℃CDB 14 ℃CWB		23 ℃CDB 16 ℃CWB		26 ℃CDB 18 ℃CWB		27 ℃CDB 19 ℃CWB		28 ℃CDB 20 ℃CWB		31 ℃CDB 22 ℃CWB		33 ℃CDB 24 ℃CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Me 25 (m³/min)	10			8.43	6.41	10.07	7.26	10.90	7.46	11.59	7.55	12.99	8.16	13.48	7.94
	12			8.43	6.41	10.07	7.26	10.90	7.46	11.58	7.55	12.94	8.15	13.43	7.92
	14			8.43	6.41	10.07	7.26	10.90	7.46	11.56	7.54	12.89	8.13	13.37	7.89
	16			8.43	6.41	10.07	7.26	10.90	7.46	11.55	7.54	12.85	8.10	13.31	7.87
	18			8.43	6.41	10.07	7.26	10.90	7.46	11.53	7.53	12.80	8.09	13.25	7.86
	20			8.43	6.41	10.07	7.26	10.90	7.46	11.52	7.53	12.75	8.07	13.19	7.82
	22			8.41	6.40	10.07	7.26	10.90	7.46	11.46	7.51	12.59	8.00	13.01	7.76
	24			8.40	6.39	10.07	7.26	10.90	7.46	11.41	7.49	12.43	7.94	12.83	7.69
	26			8.40	6.39	10.02	7.23	10.79	7.40	11.27	7.44	12.23	7.86	12.64	7.62
	28	7.61	6.29	8.39	6.39	9.97	7.21	10.69	7.36	11.14	7.38	12.04	7.78	12.44	7.54
	30	7.61	6.29	8.37	6.38	9.89	7.18	10.59	7.31	11.01	7.32	11.85	7.70	12.25	7.45
	32	7.61	6.29	8.35	6.37	9.82	7.14	10.49	7.28	10.88	7.26	11.67	7.63	12.07	7.39
	34	7.61	6.29	8.32	6.36	9.78	7.13	10.35	7.21	10.71	7.20	11.42	7.51	11.82	7.32
	35	7.61	6.29	8.31	6.35	9.77	7.12	10.28	7.19	10.62	7.15	11.30	7.47	11.69	7.28
	36	7.61	6.29	8.30	6.35	9.69	7.09	10.23	7.16	10.52	7.12	11.10	7.41	11.47	7.20
	38	7.61	6.29	8.28	6.34	9.55	7.03	10.13	7.12	10.31	7.02	10.69	7.25	11.01	7.04
	39	7.61	6.29	8.27	6.34	9.47	7.00	10.07	7.10	10.21	6.98	10.49	7.17	10.78	6.96
	41	7.61	6.29	8.24	6.32	9.19	6.85	9.66	6.92	9.78	6.78	10.02	6.99	10.28	6.78
	43	7.61	6.29	8.21	6.31	8.90	6.74	9.25	6.73	9.35	6.63	9.56	6.82	9.77	6.58

Air flow	outdoor temp DB	outdoor temp WB	indoor temp 16 ℃CDB	18 ℃CDB	20 ℃CDB	22 ℃CDB	24 ℃CDB
Me 25 (m³/min)	-19.8	-20	6.59	6.59	6.59	6.59	6.59
	-17.8	-18	7.01	7.01	7.01	7.01	7.01
	-15.7	-16	7.44	7.44	7.44	7.44	7.44
	-13.7	-14	7.86	7.86	7.86	7.86	7.86
	-11.7	-12	8.29	8.29	8.29	8.29	8.29
	-9.6	-10	8.71	8.71	8.71	8.71	8.71
	-7.5	-8	9.24	9.24	9.24	9.24	9.24
	-5.5	-6	9.77	9.77	9.77	9.77	9.77
	-3.4	-4	10.11	10.10	10.08	9.98	9.88
	-1.3	-2	10.45	10.42	10.39	10.20	10.00
	0.8	0	11.02	10.86	10.71	10.32	9.94
	3.9	3	11.96	11.53	11.10	10.48	9.85
	7.0	6	13.06	12.21	11.36	10.56	9.77
	10.1	9	12.98	12.15	11.32	10.50	9.68
	13.2	12	12.89	12.07	11.25	10.42	9.60
	16.9	15.5	12.79	11.97	11.15	10.32	9.50

Air flow	Outdoor air temp. (℃DB)	Indoor air temperature 21 ℃CDB 14 ℃CWB		23 ℃CDB 16 ℃CWB		26 ℃CDB 18 ℃CWB		27 ℃CDB 19 ℃CWB		28 ℃CDB 20 ℃CWB		31 ℃CDB 22 ℃CWB		33 ℃CDB 24 ℃CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Lo 19 (m³/min)	10			7.53	5.45	9.01	6.20	9.74	6.37	10.36	6.50	11.61	7.00	12.05	6.80
	12			7.53	5.45	9.01	6.20	9.74	6.37	10.35	6.49	11.57	6.98	12.00	6.77
	14			7.53	5.45	9.01	6.20	9.74	6.37	10.34	6.49	11.53	6.97	11.95	6.75
	16			7.53	5.45	9.01	6.20	9.74	6.37	10.32	6.47	11.48	6.94	11.90	6.73
	18			7.53	5.45	9.01	6.20	9.74	6.37	10.31	6.47	11.44	6.93	11.85	6.71
	20			7.53	5.45	9.01	6.20	9.74	6.37	10.29	6.46	11.40	6.91	11.79	6.68
	22			7.52	5.44	9.00	6.19	9.74	6.37	10.25	6.45	11.26	6.85	11.63	6.60
	24			7.51	5.44	9.00	6.19	9.74	6.37	10.20	6.42	11.11	6.78	11.47	6.55
	26			7.51	5.44	8.96	6.17	9.65	6.33	10.08	6.36	10.94	6.69	11.30	6.49
	28	6.80	5.34	7.50	5.44	8.91	6.15	9.56	6.30	9.96	6.30	10.76	6.63	11.12	6.42
	30	6.80	5.34	7.48	5.43	8.85	6.12	9.47	6.25	9.84	6.25	10.60	6.56	10.95	6.35
	32	6.80	5.34	7.46	5.42	8.78	6.09	9.37	6.21	9.73	6.21	10.43	6.48	10.79	6.29
	34	6.80	5.34	7.44	5.41	8.75	6.08	9.25	6.15	9.57	6.13	10.21	6.40	10.56	6.20
	35	6.80	5.34	7.43	5.40	8.73	6.06	9.19	6.12	9.49	6.10	10.10	6.35	10.45	6.15
	36	6.80	5.34	7.42	5.40	8.66	6.03	9.14	6.10	9.40	6.06	9.92	6.28	10.25	6.06
	38	6.80	5.34	7.40	5.39	8.53	5.97	9.05	6.06	9.22	5.98	9.56	6.12	9.84	5.93
	39	6.80	5.34	7.39	5.39	8.47	5.95	9.01	6.04	9.13	5.94	9.38	6.05	9.64	5.85
	41	6.80	5.34	7.36	5.37	8.21	5.81	8.64	5.87	8.75	5.78	8.96	5.88	9.19	5.69
	43	6.80	5.34	7.34	5.36	7.96	5.70	8.27	5.70	8.36	5.60	8.54	5.72	8.74	5.53

Air flow	outdoor temp DB	outdoor temp WB	indoor temp 16 ℃CDB	18 ℃CDB	20 ℃CDB	22 ℃CDB	24 ℃CDB
Lo 19 (m³/min)	-19.8	-20	5.90	5.90	5.90	5.90	5.90
	-17.8	-18	6.28	6.28	6.28	6.28	6.28
	-15.7	-16	6.66	6.66	6.66	6.66	6.66
	-13.7	-14	7.04	7.04	7.04	7.04	7.04
	-11.7	-12	7.42	7.42	7.42	7.42	7.42
	-9.6	-10	7.80	7.80	7.80	7.80	7.80
	-7.5	-8	8.27	8.27	8.27	8.27	8.27
	-5.5	-6	8.75	8.75	8.75	8.75	8.75
	-3.4	-4	9.05	9.04	9.03	8.94	8.85
	-1.3	-2	9.36	9.33	9.31	9.13	8.95
	0.8	0	9.86	9.73	9.59	9.24	8.90
	3.9	3	10.70	10.32	9.94	9.38	8.82
	7.0	6	11.70	10.93	10.17	9.46	8.75
	10.1	9	11.62	10.88	10.13	9.40	8.67
	13.2	12	11.54	10.81	10.07	9.33	8.59
	16.9	15.5	11.45	10.72	9.98	9.24	8.50

Note(1) This data shows average statuses out of those possible to occur in the system control.
(Depending on controls, there may be ranges where the operation is not conducted continuously.)
(2) Symbols are as follows
TC :Total cooling capacity(kW)
SHC :Sensible heat capacity(kW)

PJG000Z054

Model **FDU140KXE6F** Cool Mode (kW)

Air flow	Outdoor air temp.	Indoor air temperature 21 ℃CDB 14 ℃CWB		23 ℃CDB 16 ℃CWB		26 ℃CDB 18 ℃CWB		27 ℃CDB 19 ℃CWB		28 ℃CDB 20 ℃CWB		31 ℃CDB 22 ℃CWB		33 ℃CDB 24 ℃CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
P-Hi	10			11.48	9.96	13.72	11.27	14.84	11.49	15.79	11.62	17.69	12.56	18.36	12.26
	12			11.48	9.96	13.72	11.27	14.84	11.49	15.77	11.61	17.62	12.53	18.28	12.23
	14			11.48	9.96	13.72	11.27	14.84	11.49	15.75	11.60	17.56	12.51	18.20	12.20
	16			11.48	9.96	13.72	11.27	14.84	11.49	15.72	11.59	17.49	12.49	18.13	12.18
	18			11.48	9.96	13.72	11.27	14.84	11.49	15.70	11.58	17.43	12.46	18.05	12.15
	20			11.48	9.96	13.72	11.27	14.84	11.49	15.68	11.57	17.37	12.44	17.97	12.13
	22			11.46	9.96	13.71	11.26	14.84	11.49	15.61	11.55	17.15	12.36	17.72	12.04
39	24			11.44	9.95	13.71	11.26	14.84	11.49	15.54	11.52	16.93	12.28	17.48	11.96
(m³/min)	26			11.43	9.94	13.64	11.23	14.70	11.43	15.35	11.45	16.66	12.18	17.21	11.87
	28	10.36	9.84	11.42	9.94	13.58	11.21	14.56	11.38	15.17	11.38	16.39	12.09	16.94	11.79
	30	10.36	9.84	11.40	9.93	13.48	11.17	14.42	11.32	14.99	11.31	16.14	12.00	16.69	11.70
	32	10.36	9.84	11.37	9.92	13.37	11.12	14.28	11.26	14.82	11.24	15.89	11.91	16.43	11.62
	34	10.36	9.84	11.33	9.90	13.32	11.10	14.09	11.19	14.58	11.15	15.56	11.79	16.09	11.51
	35	10.36	9.84	11.31	9.89	13.30	11.09	14.00	11.15	14.46	11.10	15.39	11.73	15.92	11.45
	36	10.36	9.84	11.30	9.89	13.20	11.05	13.93	11.12	14.32	11.05	15.11	11.64	15.61	11.35
	38	10.36	9.84	11.27	9.87	13.00	10.97	13.79	11.07	14.05	10.95	14.56	11.44	15.00	11.16
	39	10.36	9.84	11.26	9.87	12.90	10.93	13.72	11.04	13.91	10.90	14.28	11.35	14.69	11.06
	41	10.36	9.84	11.22	9.85	12.51	10.78	13.16	10.82	13.32	10.68	13.65	11.13	14.00	10.84
	43	10.36	9.84	11.18	9.84	12.13	10.62	12.60	10.61	12.74	10.46	13.02	10.92	13.31	10.56

Heat Mode (kW)

Air flow	outdoor temp		indoor temp				
	DB	WB	16 ℃CDB	18 ℃CDB	20 ℃CDB	22 ℃CDB	24 ℃CDB
P-Hi	-19.8	-20	9.28	9.28	9.28	9.28	9.28
	-17.8	-18	9.88	9.88	9.88	9.88	9.88
	-15.7	-16	10.47	10.47	10.47	10.47	10.47
	-13.7	-14	11.07	11.07	11.07	11.07	11.07
	-11.7	-12	11.67	11.67	11.67	11.67	11.67
	-9.6	-10	12.27	12.27	12.27	12.27	12.27
	-7.5	-8	13.01	13.01	13.01	13.01	13.01
39	-5.5	-6	13.76	13.76	13.76	13.76	13.76
(m³/min)	-3.4	-4	14.24	14.22	14.20	14.06	13.92
	-1.3	-2	14.72	14.68	14.64	14.36	14.08
	0.8	0	15.52	15.30	15.08	14.54	14.00
	3.9	3	16.84	16.24	15.64	14.76	13.88
	7.0	6	18.40	17.20	16.00	14.88	13.76
	10.1	9	18.28	17.11	15.94	14.79	13.64
	13.2	12	18.16	17.00	15.84	14.68	13.52
	16.9	15.5	18.02	16.86	15.70	14.54	13.38

Air flow	Outdoor air temp. (℃DB)	Indoor air temperature 21 ℃CDB 14 ℃CWB		23 ℃CDB 16 ℃CWB		26 ℃CDB 18 ℃CWB		27 ℃CDB 19 ℃CWB		28 ℃CDB 20 ℃CWB		31 ℃CDB 22 ℃CWB		33 ℃CDB 24 ℃CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Hi	10			11.29	9.01	13.49	10.19	14.60	10.42	15.53	10.56	17.40	11.41	18.06	11.11
	12			11.29	9.01	13.49	10.19	14.60	10.42	15.51	10.56	17.33	11.38	17.98	11.08
	14			11.29	9.01	13.49	10.19	14.60	10.42	15.49	10.55	17.27	11.36	17.91	11.06
	16			11.29	9.01	13.49	10.19	14.60	10.42	15.47	10.54	17.21	11.34	17.83	11.03
	18			11.29	9.01	13.49	10.19	14.60	10.42	15.45	10.53	17.14	11.31	17.75	11.00
	20			11.29	9.01	13.49	10.19	14.60	10.42	15.42	10.52	17.08	11.29	17.67	10.97
	22			11.27	9.00	13.49	10.19	14.60	10.42	15.35	10.49	16.86	11.20	17.43	10.89
32	24			11.26	9.00	13.48	10.18	14.60	10.42	15.28	10.46	16.65	11.12	17.19	10.80
(m³/min)	26			11.25	8.99	13.42	10.16	14.46	10.37	15.10	10.39	16.39	11.02	16.93	10.71
	28	10.19	8.86	11.24	8.99	13.36	10.13	14.32	10.31	14.92	10.31	16.12	10.92	16.66	10.62
	30	10.19	8.86	11.21	8.98	13.25	10.08	14.18	10.25	14.75	10.24	15.88	10.81	16.41	10.51
	32	10.19	8.86	11.18	8.96	13.15	10.04	14.05	10.19	14.57	10.17	15.63	10.72	16.16	10.43
	34	10.19	8.86	11.14	8.95	13.10	10.02	13.86	10.11	14.34	10.08	15.30	10.59	15.83	10.32
	35	10.19	8.86	11.13	8.94	13.08	10.01	13.77	10.08	14.23	10.04	15.14	10.54	15.66	10.26
	36	10.19	8.86	11.11	8.93	12.98	9.97	13.70	10.05	14.09	9.98	14.86	10.43	15.36	10.16
	38	10.19	8.86	11.08	8.92	12.79	9.88	13.56	9.99	13.82	9.87	14.32	10.23	14.75	9.95
	39	10.19	8.86	11.07	8.91	12.69	9.84	13.49	9.96	13.68	9.82	14.05	10.14	14.45	9.85
	41	10.19	8.86	11.03	8.90	12.31	9.68	12.94	9.73	13.10	9.59	13.43	9.91	13.77	9.63
	43	10.19	8.86	10.99	8.88	11.93	9.52	12.39	9.51	12.53	9.37	12.80	9.69	13.09	9.41

Air flow	outdoor temp		indoor temp				
	DB	WB	16 ℃CDB	18 ℃CDB	20 ℃CDB	22 ℃CDB	24 ℃CDB
Hi	-19.8	-20	9.09	9.09	9.09	9.09	9.09
	-17.8	-18	9.68	9.68	9.68	9.68	9.68
	-15.7	-16	10.27	10.27	10.27	10.27	10.27
	-13.7	-14	10.85	10.85	10.85	10.85	10.85
	-11.7	-12	11.44	11.44	11.44	11.44	11.44
	-9.6	-10	12.02	12.02	12.02	12.02	12.02
	-7.5	-8	12.75	12.75	12.75	12.75	12.75
32	-5.5	-6	13.48	13.48	13.48	13.48	13.48
(m³/min)	-3.4	-4	13.96	13.94	13.92	13.78	13.64
	-1.3	-2	14.43	14.39	14.35	14.07	13.80
	0.8	0	15.21	14.99	14.78	14.25	13.72
	3.9	3	16.50	15.92	15.33	14.46	13.60
	7.0	6	18.03	16.86	15.68	14.58	13.48
	10.1	9	17.91	16.77	15.62	14.49	13.37
	13.2	12	17.80	16.66	15.52	14.39	13.25
	16.9	15.5	17.66	16.52	15.39	14.25	13.11

Air flow	Outdoor air temp. (℃DB)	Indoor air temperature 21 ℃CDB 14 ℃CWB		23 ℃CDB 16 ℃CWB		26 ℃CDB 18 ℃CWB		27 ℃CDB 19 ℃CWB		28 ℃CDB 20 ℃CWB		31 ℃CDB 22 ℃CWB		33 ℃CDB 24 ℃CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Me	10			10.75	8.05	12.86	9.13	13.91	9.38	14.80	9.53	16.57	10.27	17.21	9.98
	12			10.75	8.05	12.86	9.13	13.91	9.38	14.78	9.52	16.51	10.24	17.13	9.95
	14			10.75	8.05	12.86	9.13	13.91	9.38	14.76	9.51	16.45	10.22	17.06	9.92
	16			10.75	8.05	12.86	9.13	13.91	9.38	14.74	9.50	16.39	10.19	16.99	9.89
	18			10.75	8.05	12.86	9.13	13.91	9.38	14.72	9.49	16.33	10.17	16.91	9.86
	20			10.75	8.05	12.86	9.13	13.91	9.38	14.70	9.48	16.27	10.13	16.84	9.82
	22			10.74	8.04	12.85	9.13	13.91	9.38	14.63	9.45	16.07	10.05	16.61	9.74
26	24			10.72	8.03	12.85	9.13	13.91	9.38	14.56	9.42	15.86	9.96	16.38	9.65
(m³/min)	26			10.72	8.03	12.79	9.10	13.78	9.32	14.39	9.35	15.61	9.86	16.13	9.56
	28	9.71	7.91	10.71	8.03	12.73	9.07	13.64	9.26	14.22	9.27	15.36	9.76	15.88	9.47
	30	9.71	7.91	10.68	8.01	12.63	9.03	13.51	9.20	14.05	9.20	15.13	9.67	15.64	9.38
	32	9.71	7.91	10.65	8.00	12.53	8.97	13.38	9.14	13.89	9.13	14.89	9.57	15.40	9.29
	34	9.71	7.91	10.62	7.98	12.49	8.95	13.21	9.06	13.66	9.03	14.58	9.45	15.08	9.17
	35	9.71	7.91	10.60	7.98	12.46	8.94	13.12	9.02	13.55	8.99	14.42	9.38	14.92	9.11
	36	9.71	7.91	10.59	7.97	12.37	8.90	13.05	8.99	13.42	8.93	14.16	9.28	14.63	9.01
	38	9.71	7.91	10.56	7.96	12.18	8.81	12.92	8.94	13.16	8.82	13.64	9.08	14.05	8.81
	39	9.71	7.91	10.55	7.95	12.09	8.77	12.86	8.91	13.03	8.77	13.39	8.98	13.76	8.70
	41	9.71	7.91	10.51	7.93	11.73	8.61	12.33	8.67	12.49	8.53	12.79	8.74	13.12	8.47
	43	9.71	7.91	10.47	7.91	11.36	8.45	11.81	8.45	11.94	8.31	12.20	8.52	12.47	8.25

Air flow	outdoor temp		indoor temp				
	DB	WB	16 ℃CDB	18 ℃CDB	20 ℃CDB	22 ℃CDB	24 ℃CDB
Me	-19.8	-20	8.61	8.61	8.61	8.61	8.61
	-17.8	-18	9.17	9.17	9.17	9.17	9.17
	-15.7	-16	9.72	9.72	9.72	9.72	9.72
	-13.7	-14	10.28	10.28	10.28	10.28	10.28
	-11.7	-12	10.83	10.83	10.83	10.83	10.83
	-9.6	-10	11.39	11.39	11.39	11.39	11.39
	-7.5	-8	12.08	12.08	12.08	12.08	12.08
26	-5.5	-6	12.77	12.77	12.77	12.77	12.77
(m³/min)	-3.4	-4	13.22	13.20	13.18	13.05	12.92
	-1.3	-2	13.66	13.62	13.59	13.33	13.07
	0.8	0	14.40	14.20	14.00	13.49	12.99
	3.9	3	15.63	15.07	14.52	13.70	12.88
	7.0	6	17.08	15.96	14.85	13.81	12.77
	10.1	9	16.97	15.88	14.79	13.73	12.66
	13.2	12	16.85	15.78	14.70	13.62	12.55
	16.9	15.5	16.72	15.65	14.57	13.49	12.42

Air flow	Outdoor air temp. (℃DB)	Indoor air temperature 21 ℃CDB 14 ℃CWB		23 ℃CDB 16 ℃CWB		26 ℃CDB 18 ℃CWB		27 ℃CDB 19 ℃CWB		28 ℃CDB 20 ℃CWB		31 ℃CDB 22 ℃CWB		33 ℃CDB 24 ℃CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Lo	10			9.62	6.84	11.49	7.78	12.43	8.03	13.23	8.18	14.82	8.81	15.39	8.54
	12			9.62	6.84	11.49	7.78	12.43	8.03	13.21	8.17	14.76	8.79	15.32	8.52
	14			9.62	6.84	11.49	7.78	12.43	8.03	13.19	8.16	14.71	8.76	15.25	8.49
	16			9.62	6.84	11.49	7.78	12.43	8.03	13.17	8.15	14.66	8.74	15.19	8.46
	18			9.62	6.84	11.49	7.78	12.43	8.03	13.16	8.15	14.60	8.71	15.12	8.43
	20			9.62	6.84	11.49	7.78	12.43	8.03	13.14	8.14	14.55	8.69	15.05	8.40
	22			9.60	6.83	11.49	7.78	12.43	8.03	13.08	8.11	14.37	8.61	14.85	8.31
20	24			9.59	6.83	11.49	7.78	12.43	8.03	13.02	8.08	14.18	8.52	14.64	8.23
(m³/min)	26			9.58	6.82	11.43	7.75	12.32	7.97	12.86	8.01	13.96	8.42	14.42	8.14
	28	8.68	6.70	9.57	6.82	11.38	7.73	12.20	7.92	12.71	7.94	13.73	8.32	14.19	8.05
	30	8.68	6.70	9.55	6.81	11.29	7.68	12.08	7.86	12.56	7.87	13.53	8.23	13.98	7.96
	32	8.68	6.70	9.52	6.79	11.20	7.64	11.96	7.79	12.42	7.80	13.32	8.14	13.77	7.88
	34	8.68	6.70	9.49	6.78	11.16	7.62	11.81	7.72	12.22	7.71	13.03	8.02	13.48	7.77
	35	8.68	6.70	9.48	6.77	11.14	7.61	11.73	7.69	12.12	7.66	12.89	7.96	13.34	7.72
	36	8.68	6.70	9.47	6.77	11.06	7.57	11.67	7.66	12.00	7.60	12.66	7.86	13.08	7.62
	38	8.68	6.70	9.44	6.75	10.89	7.49	11.55	7.60	11.77	7.50	12.20	7.66	12.56	7.41
	39	8.68	6.70	9.43	6.75	10.81	7.45	11.50	7.58	11.65	7.45	11.97	7.57	12.31	7.32
	41	8.68	6.70	9.40	6.73	10.48	7.30	11.03	7.36	11.16	7.23	11.44	7.36	11.73	7.10
	43	8.68	6.70	9.36	6.71	10.16	7.15	10.56	7.15	10.67	7.02	10.90	7.14	11.15	6.89

Air flow	outdoor temp		indoor temp				
	DB	WB	16 ℃CDB	18 ℃CDB	20 ℃CDB	22 ℃CDB	24 ℃CDB
Lo	-19.8	-20	7.68	7.68	7.68	7.68	7.68
	-17.8	-18	8.17	8.17	8.17	8.17	8.17
	-15.7	-16	8.67	8.67	8.67	8.67	8.67
	-13.7	-14	9.16	9.16	9.16	9.16	9.16
	-11.7	-12	9.66	9.66	9.66	9.66	9.66
	-9.6	-10	10.15	10.15	10.15	10.15	10.15
	-7.5	-8	10.77	10.77	10.77	10.77	10.77
20	-5.5	-6	11.39	11.39	11.39	11.39	11.39
(m³/min)	-3.4	-4	11.78	11.77	11.75	11.63	11.52
	-1.3	-2	12.18	12.15	12.11	11.88	11.65
	0.8	0	12.84	12.66	12.48	12.03	11.59
	3.9	3	13.94	13.44	12.94	12.21	11.49
	7.0	6	15.23	14.23	13.24	12.31	11.39
	10.1	9	15.13	14.16	13.19	12.24	11.29
	13.2	12	15.03	14.07	13.11	12.15	11.19
	16.9	15.5	14.91	13.95	12.99	12.03	11.07

Note(1) This data shows average statuses out of those possible to occur in the system control.
(Depending on controls, there may be ranges where the operation is not conducted continuously.)
(2) Symbols are as follows
TC :Total cooling capacity(kW)
SHC :Sensible heat capacity(kW)

PJG000Z054

Model **FDU160KXE6F** Cool Mode (kW)

Air flow	Outdoor air temp.	Indoor air temperature 21 ℃CDB 14 ℃CWB		23 ℃CDB 16 ℃CWB		26 ℃CDB 18 ℃CWB		27 ℃CDB 19 ℃CWB		28 ℃CDB 20 ℃CWB		31 ℃CDB 22 ℃CWB		33 ℃CDB 24 ℃CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
P-Hi	10			13.12	11.09	15.68	12.51	16.96	12.79	18.04	12.94	20.21	13.99	20.99	13.66
	12			13.12	11.09	15.68	12.51	16.96	12.79	18.02	12.93	20.14	13.96	20.90	13.61
	14			13.12	11.09	15.68	12.51	16.96	12.79	18.00	12.93	20.07	13.94	20.81	13.58
	16			13.12	11.09	15.68	12.51	16.96	12.79	17.97	12.92	19.99	13.91	20.72	13.56
	18			13.12	11.09	15.68	12.51	16.96	12.79	17.95	12.91	19.92	13.89	20.62	13.53
	20			13.12	11.09	15.68	12.51	16.96	12.79	17.92	12.90	19.85	13.84	20.53	13.50
	22			13.10	11.08	15.67	12.51	16.96	12.79	17.84	12.87	19.60	13.76	20.25	13.39
48 (m^3/min)	24			13.08	11.08	15.67	12.51	16.96	12.79	17.75	12.84	19.34	13.67	19.97	13.30
	26			13.07	11.07	15.59	12.48	16.80	12.73	17.55	12.74	19.04	13.55	19.67	13.19
	28	11.84	10.95	13.06	11.07	15.52	12.45	16.64	12.65	17.34	12.67	18.73	13.45	19.36	13.09
	30	11.84	10.95	13.02	11.05	15.40	12.41	16.48	12.59	17.14	12.59	18.45	13.33	19.07	12.98
	32	11.84	10.95	12.99	11.04	15.28	12.36	16.32	12.53	16.93	12.50	18.16	13.24	18.78	12.90
	34	11.84	10.95	12.95	11.00	15.23	12.34	16.11	12.45	16.66	12.40	17.78	13.09	18.39	12.76
	35	11.84	10.95	12.93	10.99	15.20	12.33	16.00	12.39	16.53	12.36	17.59	13.03	18.20	12.70
	36	11.84	10.95	12.91	10.98	15.09	12.29	15.92	12.36	16.37	12.27	17.27	12.90	17.85	12.60
	38	11.84	10.95	12.88	10.97	14.86	12.18	15.76	12.30	16.05	12.16	16.64	12.62	17.14	12.30
	39	11.84	10.95	12.86	10.96	14.74	12.13	15.68	12.27	15.89	12.11	16.32	12.52	16.79	12.20
	41	11.84	10.95	12.82	10.95	14.30	11.94	15.04	12.01	15.23	11.85	15.60	12.29	16.00	11.98
	43	11.84	10.95	12.77	10.93	13.86	11.78	14.40	11.76	14.56	11.60	14.87	12.06	15.21	11.75

Heat Mode (kW)

Air flow	outdoor temp DB	outdoor temp WB	indoor temp 16 ℃CDB	18 ℃CDB	20 ℃CDB	22 ℃CDB	24 ℃CDB
P-Hi	-19.8	-20	10.44	10.44	10.44	10.44	10.44
	-17.8	-18	11.11	11.11	11.11	11.11	11.11
	-15.7	-16	11.78	11.78	11.78	11.78	11.78
	-13.7	-14	12.46	12.46	12.46	12.46	12.46
	-11.7	-12	13.13	13.13	13.13	13.13	13.13
	-9.6	-10	13.80	13.80	13.80	13.80	13.80
	-7.5	-8	14.64	14.64	14.64	14.64	14.64
48 (m^3/min)	-5.5	-6	15.48	15.48	15.48	15.48	15.48
	-3.4	-4	16.02	16.00	15.98	15.82	15.66
	-1.3	-2	16.56	16.52	16.47	16.16	15.84
	0.8	0	17.46	17.21	16.97	16.36	15.75
	3.9	3	18.95	18.27	17.60	16.61	15.62
	7.0	6	20.70	19.35	18.00	16.74	15.48
	10.1	9	20.57	19.25	17.93	16.64	15.35
	13.2	12	20.43	19.13	17.82	16.52	15.21
	16.9	15.5	20.27	18.97	17.66	16.36	15.05

Air flow	Outdoor air temp. (℃DB)	Indoor air temperature 21 ℃CDB 14 ℃CWB		23 ℃CDB 16 ℃CWB		26 ℃CDB 18 ℃CWB		27 ℃CDB 19 ℃CWB		28 ℃CDB 20 ℃CWB		31 ℃CDB 22 ℃CWB		33 ℃CDB 24 ℃CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Hi	10			12.90	9.64	15.42	10.94	16.68	11.24	17.75	11.43	19.88	12.29	20.65	11.97
	12			12.90	9.64	15.42	10.94	16.68	11.24	17.73	11.42	19.81	12.27	20.56	11.94
	14			12.90	9.64	15.42	10.94	16.68	11.24	17.70	11.41	19.74	12.24	20.47	11.89
	16			12.90	9.64	15.42	10.94	16.68	11.24	17.68	11.40	19.67	12.22	20.38	11.86
	18			12.90	9.64	15.42	10.94	16.68	11.24	17.65	11.37	19.60	12.19	20.29	11.83
	20			12.90	9.64	15.42	10.94	16.68	11.24	17.63	11.36	19.52	12.16	20.20	11.78
	22			12.88	9.63	15.42	10.94	16.68	11.24	17.55	11.33	19.28	12.06	19.92	11.68
35 (m^3/min)	24			12.87	9.63	15.41	10.94	16.68	11.24	17.47	11.30	19.03	11.95	19.65	11.59
	26			12.85	9.62	15.34	10.89	16.53	11.17	17.26	11.20	18.73	11.83	19.35	11.47
	28	11.65	9.47	12.84	9.62	15.27	10.86	16.37	11.10	17.06	11.11	18.43	11.70	19.05	11.36
	30	11.65	9.47	12.81	9.60	15.15	10.82	16.21	11.02	16.86	11.03	18.15	11.59	18.76	11.25
	32	11.65	9.47	12.78	9.59	15.03	10.75	16.05	10.96	16.66	10.94	17.87	11.47	18.48	11.14
	34	11.65	9.47	12.74	9.57	14.98	10.73	15.84	10.86	16.39	10.82	17.49	11.32	18.09	10.96
	35	11.65	9.47	12.72	9.56	14.95	10.72	15.74	10.82	16.26	10.77	17.30	11.24	17.90	10.90
	36	11.65	9.47	12.70	9.55	14.84	10.64	15.66	10.77	16.10	10.69	16.99	11.09	17.56	10.79
	38	11.65	9.47	12.67	9.54	14.61	10.55	15.50	10.71	15.79	10.58	16.37	10.88	16.86	10.56
	39	11.65	9.47	12.65	9.53	14.50	10.50	15.43	10.68	15.64	10.47	16.06	10.76	16.51	10.43
	41	11.65	9.47	12.61	9.50	14.07	10.33	14.80	10.39	14.98	10.22	15.35	10.48	15.74	10.15
	43	11.65	9.47	12.57	9.48	13.63	10.14	14.17	10.12	14.32	9.96	14.63	10.20	14.96	9.88

Air flow	outdoor temp DB	outdoor temp WB	indoor temp 16 ℃CDB	18 ℃CDB	20 ℃CDB	22 ℃CDB	24 ℃CDB
Hi	-19.8	-20	10.23	10.23	10.23	10.23	10.23
	-17.8	-18	10.89	10.89	10.89	10.89	10.89
	-15.7	-16	11.55	11.55	11.55	11.55	11.55
	-13.7	-14	12.21	12.21	12.21	12.21	12.21
	-11.7	-12	12.87	12.87	12.87	12.87	12.87
	-9.6	-10	13.52	13.52	13.52	13.52	13.52
	-7.5	-8	14.35	14.35	14.35	14.35	14.35
35 (m^3/min)	-5.5	-6	15.17	15.17	15.17	15.17	15.17
	-3.4	-4	15.70	15.68	15.66	15.50	15.35
	-1.3	-2	16.23	16.18	16.14	15.83	15.52
	0.8	0	17.11	16.87	16.63	16.03	15.44
	3.9	3	18.57	17.90	17.24	16.27	15.30
	7.0	6	20.29	18.96	17.64	16.41	15.17
	10.1	9	20.15	18.86	17.57	16.31	15.04
	13.2	12	20.02	18.74	17.46	16.18	14.91
	16.9	15.5	19.87	18.59	17.31	16.03	14.75

Air flow	Outdoor air temp. (℃DB)	Indoor air temperature 21 ℃CDB 14 ℃CWB		23 ℃CDB 16 ℃CWB		26 ℃CDB 18 ℃CWB		27 ℃CDB 19 ℃CWB		28 ℃CDB 20 ℃CWB		31 ℃CDB 22 ℃CWB		33 ℃CDB 24 ℃CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Me	10			12.07	8.60	14.42	9.77	15.60	10.08	16.60	10.27	18.60	11.07	19.31	10.74
	12			12.07	8.60	14.42	9.77	15.60	10.08	16.58	10.27	18.53	11.04	19.22	10.70
	14			12.07	8.60	14.42	9.77	15.60	10.08	16.56	10.26	18.46	11.02	19.14	10.67
	16			12.07	8.60	14.42	9.77	15.60	10.08	16.53	10.25	18.39	10.98	19.06	10.64
	18			12.07	8.60	14.42	9.77	15.60	10.08	16.51	10.24	18.33	10.95	18.97	10.59
	20			12.07	8.60	14.42	9.77	15.60	10.08	16.49	10.23	18.26	10.93	18.89	10.56
	22			12.05	8.57	14.42	9.77	15.60	10.08	16.41	10.18	18.03	10.81	18.63	10.45
28 (m^3/min)	24			12.03	8.56	14.41	9.77	15.60	10.08	16.33	10.15	17.80	10.71	18.38	10.35
	26			12.02	8.55	14.35	9.74	15.46	10.00	16.14	10.06	17.52	10.59	18.09	10.23
	28	10.89	8.41	12.01	8.55	14.28	9.70	15.31	9.93	15.95	9.97	17.24	10.46	17.81	10.10
	30	10.89	8.41	11.98	8.54	14.17	9.65	15.16	9.87	15.77	9.87	16.97	10.32	17.54	10.00
	32	10.89	8.41	11.95	8.52	14.06	9.59	15.01	9.79	15.58	9.79	16.71	10.22	17.28	9.90
	34	10.89	8.41	11.91	8.50	14.01	9.57	14.82	9.70	15.33	9.68	16.36	10.08	16.92	9.77
	35	10.89	8.41	11.89	8.50	13.98	9.56	14.72	9.66	15.21	9.63	16.18	10.00	16.74	9.69
	36	10.89	8.41	11.88	8.49	13.88	9.52	14.65	9.63	15.06	9.56	15.89	9.87	16.42	9.57
	38	10.89	8.41	11.85	8.48	13.67	9.41	14.50	9.56	14.77	9.43	15.31	9.64	15.77	9.31
	39	10.89	8.41	11.83	8.47	13.56	9.35	14.43	9.53	14.62	9.36	15.02	9.52	15.44	9.16
	41	10.89	8.41	11.79	8.45	13.16	9.17	13.84	9.25	14.01	9.09	14.35	9.22	14.72	8.93
	43	10.89	8.41	11.75	8.43	12.75	8.96	13.25	8.95	13.39	8.80	13.68	8.97	13.99	8.67

Air flow	outdoor temp DB	outdoor temp WB	indoor temp 16 ℃CDB	18 ℃CDB	20 ℃CDB	22 ℃CDB	24 ℃CDB
Me	-19.8	-20	9.60	9.60	9.60	9.60	9.60
	-17.8	-18	10.22	10.22	10.22	10.22	10.22
	-15.7	-16	10.84	10.84	10.84	10.84	10.84
	-13.7	-14	11.46	11.46	11.46	11.46	11.46
	-11.7	-12	12.08	12.08	12.08	12.08	12.08
	-9.6	-10	12.70	12.70	12.70	12.70	12.70
	-7.5	-8	13.47	13.47	13.47	13.47	13.47
28 (m^3/min)	-5.5	-6	14.24	14.24	14.24	14.24	14.24
	-3.4	-4	14.74	14.72	14.70	14.55	14.41
	-1.3	-2	15.24	15.19	15.15	14.86	14.57
	0.8	0	16.06	15.84	15.61	15.05	14.49
	3.9	3	17.43	16.81	16.19	15.28	14.37
	7.0	6	19.04	17.80	16.56	15.40	14.24
	10.1	9	18.92	17.71	16.50	15.31	14.12
	13.2	12	18.80	17.60	16.39	15.19	13.99
	16.9	15.5	18.65	17.45	16.25	15.05	13.85

Air flow	Outdoor air temp. (℃DB)	Indoor air temperature 21 ℃CDB 14 ℃CWB		23 ℃CDB 16 ℃CWB		26 ℃CDB 18 ℃CWB		27 ℃CDB 19 ℃CWB		28 ℃CDB 20 ℃CWB		31 ℃CDB 22 ℃CWB		33 ℃CDB 24 ℃CWB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
Lo	10			10.99	7.53	13.14	8.60	14.21	8.91	15.12	9.11	16.94	9.83	17.59	9.51
	12			10.99	7.53	13.14	8.60	14.21	8.91	15.10	9.10	16.88	9.80	17.51	9.47
	14			10.99	7.53	13.14	8.60	14.21	8.91	15.08	9.09	16.82	9.77	17.44	9.45
	16			10.99	7.53	13.14	8.60	14.21	8.91	15.06	9.08	16.76	9.74	17.36	9.41
	18			10.99	7.53	13.14	8.60	14.21	8.91	15.04	9.07	16.70	9.71	17.29	9.37
	20			10.99	7.53	13.14	8.60	14.21	8.91	15.02	9.06	16.63	9.68	17.21	9.34
	22			10.98	7.52	13.14	8.60	14.21	8.91	14.95	9.03	16.42	9.57	16.98	9.23
22 (m^3/min)	24			10.96	7.51	13.13	8.60	14.21	8.91	14.88	8.99	16.21	9.47	16.74	9.11
	26			10.95	7.51	13.07	8.57	14.08	8.84	14.71	8.91	15.96	9.33	16.48	9.01
	28	9.92	7.35	10.94	7.50	13.01	8.54	13.95	8.78	14.53	8.82	15.70	9.22	16.23	8.90
	30	9.92	7.35	10.92	7.49	12.91	8.49	13.81	8.70	14.36	8.73	15.46	9.11	15.98	8.79
	32	9.92	7.35	10.89	7.48	12.81	8.43	13.68	8.64	14.19	8.64	15.22	8.99	15.74	8.69
	34	9.92	7.35	10.85	7.46	12.76	8.41	13.50	8.54	13.97	8.53	14.90	8.84	15.42	8.53
	35	9.92	7.35	10.84	7.46	12.74	8.40	13.41	8.50	13.85	8.46	14.74	8.76	15.25	8.47
	36	9.92	7.35	10.82	7.45	12.64	8.35	13.34	8.47	13.72	8.40	14.48	8.64	14.96	8.36
	38	9.92	7.35	10.80	7.43	12.45	8.25	13.21	8.40	13.45	8.28	13.95	8.41	14.36	8.10
	39	9.92	7.35	10.78	7.42	12.36	8.20	13.14	8.37	13.32	8.21	13.68	8.28	14.07	7.98
	41	9.92	7.35	10.74	7.40	11.98	8.01	12.61	8.10	12.76	7.94	13.07	8.00	13.41	7.73
	43	9.92	7.35	10.71	7.39	11.61	7.82	12.07	7.84	12.20	7.67	12.47	7.76	12.75	7.46

Air flow	outdoor temp DB	outdoor temp WB	indoor temp 16 ℃CDB	18 ℃CDB	20 ℃CDB	22 ℃CDB	24 ℃CDB
Lo	-19.8	-20	8.39	8.39	8.39	8.39	8.39
	-17.8	-18	8.93	8.93	8.93	8.93	8.93
	-15.7	-16	9.47	9.47	9.47	9.47	9.47
	-13.7	-14	10.01	10.01	10.01	10.01	10.01
	-11.7	-12	10.55	10.55	10.55	10.55	10.55
	-9.6	-10	11.09	11.09	11.09	11.09	11.09
	-7.5	-8	11.77	11.77	11.77	11.77	11.77
22 (m^3/min)	-5.5	-6	12.44	12.44	12.44	12.44	12.44
	-3.4	-4	12.88	12.86	12.84	12.72	12.59
	-1.3	-2	13.31	13.28	13.24	12.99	12.73
	0.8	0	14.04	13.84	13.64	13.15	12.66
	3.9	3	15.23	14.69	14.14	13.35	12.55
	7.0	6	16.64	15.56	14.47	13.46	12.44
	10.1	9	16.53	15.47	14.42	13.38	12.34
	13.2	12	16.42	15.37	14.33	13.28	12.23
	16.9	15.5	16.30	15.25	14.20	13.15	12.10

Note(1) This data shows average statuses out of those possible to occur in the system control.
(Depending on controls, there may be ranges where the operation is not conducted continuously.)
(2) Symbols are as follows
TC :Total cooling capacity(kW)
SHC :Sensible heat capacity(kW)

PJG000Z054

3 APPLICATION DATA

3.1 Installation of indoor unit

This manual is for the installation of an indoor unit.
For electrical wiring work (Indoor), refer to the electrical wiring work installation manual. For remote control installation, refer to the installation manual attached to a remote control. For wireless kit installation, refer to the installation manual attached to a wireless kit. For electrical wiring work (Outdoor) and refrigerant pipe work installation for outdoor unit, refer to the installation manual attached to an outdoor 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.
- The precautionary items mentioned below are distinguished into two levels, ⚠WARNING and ⚠CAUTION .
  ⚠WARNING : Wrong installation would cause serious consequences such as injuries or death.
  ⚠CAUTION : 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 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.
- **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.**
  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.
- **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.**
  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 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 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 optional 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 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.**
  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 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.**
  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 atmosphere.
  - 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 (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 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)
  - Locations where an equipment affected by high harmonics is 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.**
  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 room and damaging user's belongings.
- **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.**
  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 maintenance.
- **Ensure the insulation on the pipes for refrigeration circuit so as not to condense water.**
  Incomplete 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 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.**
  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.**
  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 frostbite.
- **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 breakdown.
- **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.

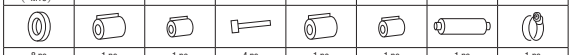
(a) Ceiling cassette-1 way type (FDTS)

PJC012D304

① Before installation

- Install the unit correctly according to this installation manual.
- Check the following items:
  - ○ Unit type/Power supply specification ○ Piping/Wiring/Small parts ○ Accessory

Accessory

For unit suspension	For refrigerant pipe			For drain pipe			
Flat washer (M10)	Pipe cover (Large)	Pipe cover (Small)	Strap	Pipe cover (Large)	Pipe cover (Small)	Drain hose	Hose clamp
							
8 pc	1 pc	1 pc	4 pc	1 pc	1 pc	1 pc	1 pc
For unit suspension	For heat insulation of gas pipe	For heat insulation of liquid pipe	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

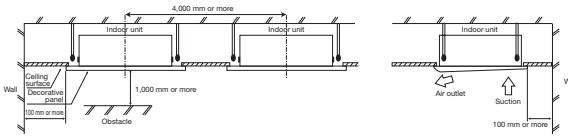
① Select the suitable areas to install the unit under approval of the user.
- Areas where the indoor unit can deliver hot and cold wind sufficiently. Suggest to the user to use a circulator if the ceiling height is over 3m to avoid warm air being accumulated on the ceiling.
- Areas where there is enough space to install and do maintenace.
- Areas where it can be drained properly. Areas where drain pipe descending slope can be taken.
- Areas where there is no obstruction of airflow 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 thickness 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 ware, 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 is strong enough to support the weight of the unit. If it is not strong enough to support, reinforce the structure with boards, beams and soon. If the strength is not enough, the unit may fall and it could injure someone.

③ If there are 2 units using wireless remote controller, 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 4m.

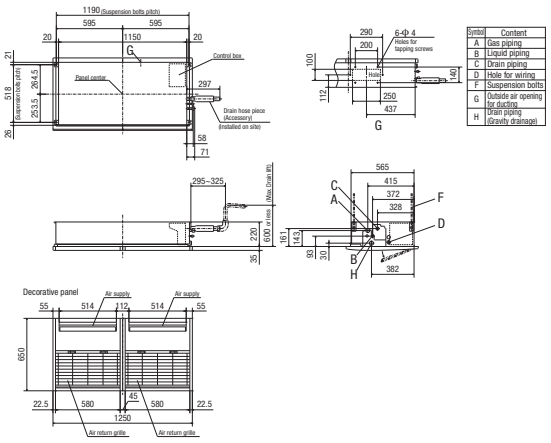
Indoor unit installation space



③ Preparation before installation

- If suspension bolt becomes longer, do reinforcement of earthquake resistant.
  - ○ 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.
  - ○ 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.

Size of hole on the ceiling, suspension bolt pitch and pipe position

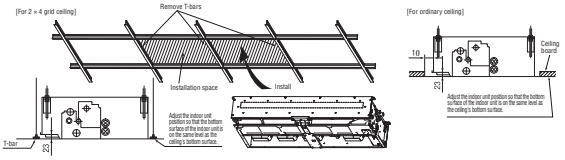


Symbol	Content
A	Gas piping
B	Liquid piping
C	Drain piping
D	Hole for wiring
F	Suspension bolts
G	Outside air opening for ducting
H	Drain piping (Gravity drainage)

④ Installation of indoor unit

Work procedure

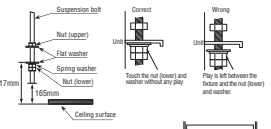
1. In case of installing on the 2 × 4 grid ceiling, remove three T-bars.
2. In case of installing on the ceiling other than 2 × 4 grid ceiling, prepare a ceiling hole with the size of 1420mm × 600mm.
3. Arrange the suspension bolt at the right position (1190mm × 518mm).
4. Make sure to use four suspension bolts and fix them so as to be able to hold 500N load.



④ Installation of indoor unit (continued)

5. Ensure that the lower end of the suspension bolt should be 165mm above the ceiling plane. Temporarily put the four lower nuts 217mm 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.
6. Adjust the indoor unit position after hanging it so that the bottom surface of the indoor unit is on the same level as the ceiling (bottom surface of the T bar).

The allowable gap between the bottom surface of the ceiling and that of the indoor unit is when the bottom surface of the indoor unit is no higher than 5mm.
In order to adjust the indoor unit position, adjust the lower nuts while the upper nuts are put on distant place. Confirm there is no backlash between the hanger plate for suspension bolt and the lower nut and washer.



Caution

- Do not install the bottom surface of the inddor unit lower than the bottom surface of the ceiling.

7. 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.
8. Tighten four upper nuts and fix the unit after height and levelness adjustment.

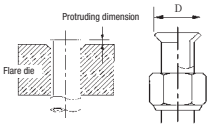
Caution

- Do not adjust the height by adjusting upper nuts. It will cause unexpected stress on the indoor unit and it will lead to deformation of the unit, failure of attaching a panel.
- Make sure to install the indoor unit horizontally and set the gap between the unit underside and the ceiling plane properly. Improper installation may cause air leakage, dew condensation, water leakage and noise.
- Make sure there is no gap between decoration panel and ceiling surface, and between decoration panel and the indoor unit. The gap may cause air leakage, dew condensation and water leakage.
- In case decorative panel is not installed at the same time, or ceiling material is installed after the unit installed, avoid dust coming into the indoor unit.

⑤ Refrigerant pipe

Caution

- **Be sure to use new pipes for the refrigerant pipes. Use the flare nut attached to the product or a nut compatible with JIS B 8607, Class 2.**
  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.
  1) In case of reuse: Do not use old flare nut, but use the one attached to the unit or compatible with JIS B 8607, Class 2.
  2) In case of reuse: Flare the end of pipe replaced partially for R410A.



Pipe dia. d mm	Min. pipe wall thickness mm	Protruding dimension for flare, mm		Flare O.D. D mm	Flare nut tightening torque N·m
		Rigid (Clutch type)			
		For R410A	Conventional tool		
6.35	0.8	0 ~ 0.5	0.7 ~ 1.3	8.9 ~ 9.1	14 ~ 18
9.52	0.8			12.8 ~ 13.2	32 ~ 42
12.7	0.8			16.2 ~ 16.6	49 ~ 61
15.88	1			19.3 ~ 19.7	68 ~ 72
19.05	1.2			23.6 ~ 24.0	100 ~ 120

- Use phosphorus deoxidized copper alloy seamless pipe (C1220T specified in JIS H3300) 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 R410A.
  Using other refrigerant except 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 R410 refrigerant.

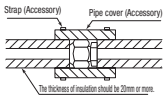
Work procedure

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.
   ※ Do a flare connection as follows:
   - 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.
   - 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 hold the pipe on the indoor unit securely by a spanner when tightening the nut in order to avoid unexpected stress on the copper pipe.

⑤ Refrigerant pipe (continued)

3. 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 leakage.
4. 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.



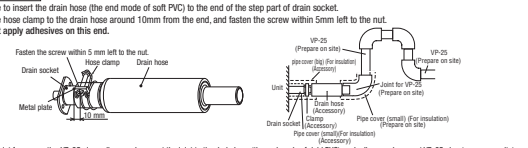
⑥ Drain pipe

Caution

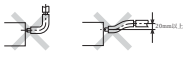
- **Install the drain pipe according to the installation manual in order to drain properly.**
  Imperfection in draining may cause flood indoors and wetting the household goods, etc.
- **Do not put the drain pipe directly into the ditch where toxic gas such as sulfur, the other harmful and inflammable 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

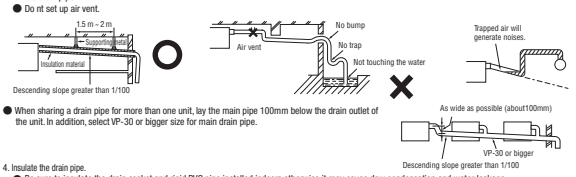
1. Make sure to insert the drain hose (the end mode of soft PVC) to the end of the step part of drain socket.
   Attach the hose clamp to the drain hose around 10mm from the end, and fasten the screw within 5mm left to the nut.
   - **Do not apply adhesives on this end.**



2. Prepare a joint for connecting VP-25 pipe, adhere and connect the joint to the drain hose (the end made of rigid PVC), and adhere and connect VP-25 pipe (prepare on site).
   ※ As for drain pipe, apply VP-25 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.



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 VP-30 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.

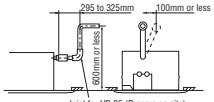
⑥ Drain pipe (continued)

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.

Drain test

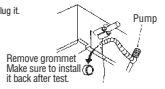
- After installation of drain pipe, make sure that drain system work in good condition and no water leakage from joint and drain pan. Check if the motor sound of drain pump is normal or not.
- Do drain test even if installation of heating season.
- For new building cases, make sure to complete the test before hanging the ceiling.



Joint for VP-25 (Prepare on site)

Work procedure

1. Remove the drain grommet, and pour water of about 1000cc into the drain pan in the indoor unit by pump so as not to get the electrical component wet.
2. Make sure that water is drained out properly and there is no water leakage from any joints of the drain pipe at the test.
   Confirm that the water is properly drained out while the drain motor is operating. At the drain socket (transparent), it is possible to check if the water is drained out properly.
3. Unplug the drain plug on the indoor unit to remove remaining water on the drain pan after the test, and re-plug it.
4. Make sure to install the grommet back to original place.
5. Insulate the drain pipe properly finally.



Drain pump operation

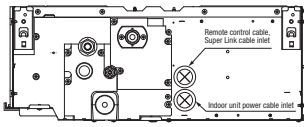
○ In case electrical wiring work finished
Drain pump can be operated by remote controller (wired).
For the operation method, refer to **Operation for drain pump** in the installation manual for wiring work.

○ In case electrical wiring work not finished
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 supply (220-240VAC on the terminal block L and N) is turned ON. Make sure to turn OFF "SW7-1" and reconnect the Connector CNB after the test.

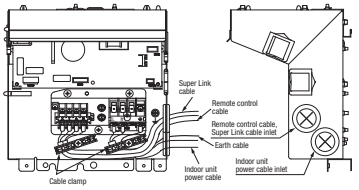
⑦ Wiring-out position and wiring connection

- 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 firmly, 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 the control box cover (2 screws).
2. Introduce cables into the unit.
3. Securely connect wires to the terminal block.
4. Fix each wire with the wire clamp.
5. Reinstall the control box cover with 2 screws.



Wire connection



⑧ Panel installation

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

⑨ Check list after installation

- Check the following items after all installation work completed.

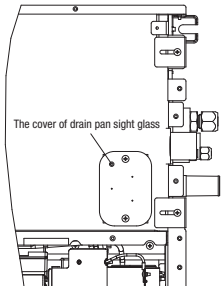
Check if;	Expected trouble	Check
The indoor and outdoor units are fixed securely?	Falling, vibration, noise	
Inspection for leakage is done?	Insufficient capacity	
Insulation work is properly done?	Water leakage	
Water is drained properly?	Water leakage	
Supply voltage is same as mentioned in the model 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	

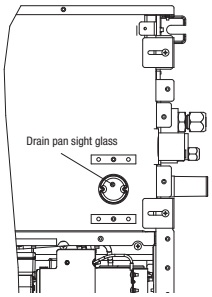
⑩ How to check the dirt of drain pan (Maintenance)

The method of checking the dirt of drain pan

- Dirt on the drain pan at the suction inlet of drain pump can be inspected without removing the drain pan.

1. Remove the panel.
2. Remove the cover of the drain pan sight glass.
3. Inspect the dirt on the drain pan through the sight glass.
   When it is heavily dirt, remove and clean the drain pan.
4. Reinstall the sight glass cover securely after the inspection of dirt. Unless it is installed properly, it could cause water leakage.





(b) Duct connected (thin)-Low static pressure type (FDUT)

PJH012D001

○ This model is low static ducted type air conditioning unit. Therefore, do not use this model for direct blow type air conditioning unit.

① Before installation

● Install correctly according to the installation manual.
● Confirm the following points:
○ Unit type/Power supply specification ○ Pipes/Wires/Small parts ○ Accessory items

Accessory item

For refrigerant pipe			For drain pipe					
Pipe cover(big)	Pipe cover (small)	Strap	Pipe cover(big)	Pipe cover(small)	Drain hose	Hose clamp (big)	Hose clamp (small)	Joint
1	1	4	1	1	1 (71 only)	1	1 (15~56 only)	1 (15~56 only)
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	For drain hose mounting	For drain pipe connecting

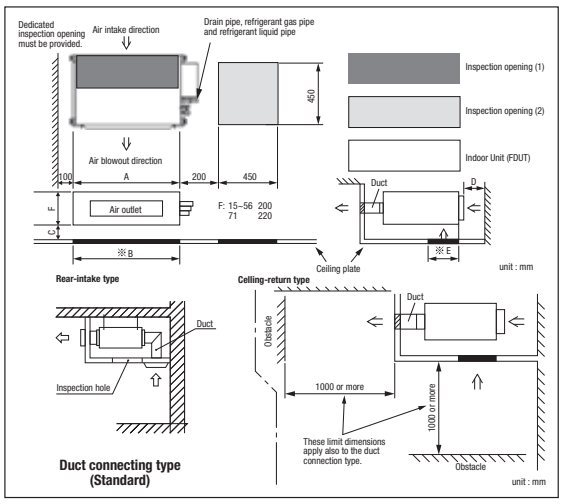
② Selection of installation location for the indoor unit

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 airflow 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.

Space for installation and service

●Make installation altitude over 2.5m.



※Dimensions of the opening on the ceiling after removing inspection opening (1)

FDUT, standard method of air intake: Rear intake (Specification at shipping from factory)

	A	B
15, 22, 28, 36	750	770
45, 56	950	970
71	1150	1170

Dimension C: 100 mm or more
Dimension D: 150 mm or more
Dimension E: 270 mm or more

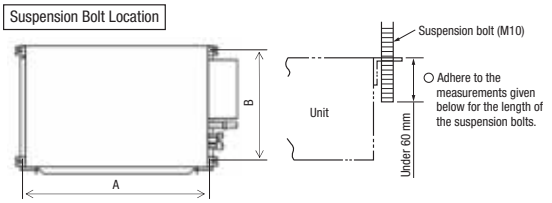
② Selection of installation location for the indoor unit

		Inspection opening (1)	Inspection opening (2)
1	Clamping of the flare of required and gas refrigerant pipe	Use	Not Use
2	Drain pipe connection	Use	Not Use
3	Installation and removal of blower	Not Use	Use
4	Control box		
	• Power supply wire connection	Use	Not Use
	• Signal wire connection (between indoor and outdoor)	Use	Not Use
	• Signal wire connection (Remote control)	Use	Not Use
	• Address setting	Use	Not Use
5	Replace drain pump	Use	Not Use
6	Replace heat exch sensor	Use	Not Use

③ Preparation before installation

● If suspension bolt becomes longer, do reinforcement of earthquake resistant.
○ 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.
○ 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.

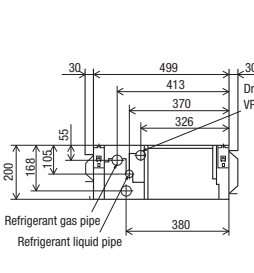
Suspension Bolt Location



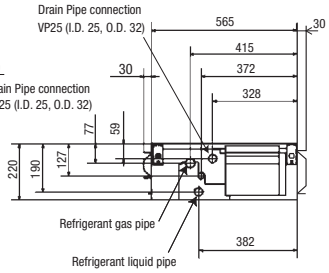
	A	B
15, 22, 28, 36	790	457
45, 56	990	457
71	1190	518

Pipe locations

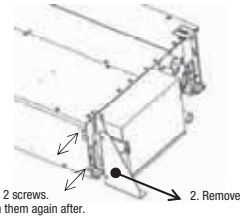
(In case of 15-56)



(In case of 71)



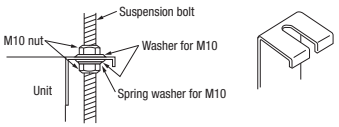
● Remove bracket from the unit after unpacking according to process as shown below.
(in case of 15-56 only)



④ Installation of indoor unit

Installation

[Hanging]
Hang the unit up.

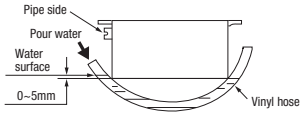


If the measurements between the unit and the ceiling hole do not match upon installation, it may be adjusted with the long holed installation tool.

Adjustment for horizontality

○ Either use a level vial, or adjust the level according to the method below.

● Adjust so the bottom side of the unit will be leveled with the water surface as illustrated below.



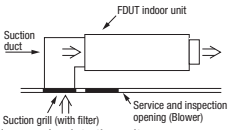
Let the pipe side be slightly sloped.

○ If the unit is not leveled, it may cause malfunctions or inoperation of the float switch.

⑤ Duct Work

Caution

· To prevent fire accident caused by dust or trouble of water leakage, install a filter provided at site at a place convenient for maintenance.
· When employing the ceiling return configuration, instead, install the suction guard (optional) specified by us to prevent dust or small living things in the ceiling coming into the unit.
· Indoor unit for small rooms of house, hotel or office, such as reception room, meeting room, etc.
· Where air is inhaled from the back of indoor unit and the air intake opening on the ceiling is disposed under the bottom face of blower, the suction duct is not used.

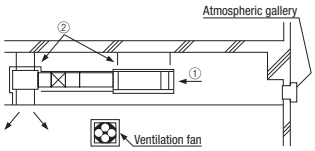


Where the air inhaling space is open to a large space or outdoor air, FDUT and the suction grill on the ceiling are connected to ducts. In this case, it is necessary to provide respectively the suction grill at the back of unit on the ceiling, and the service and inspection opening at the bottom face of FDUT. (One for both purposes is not allowed.)

(a) Suction grill is one of important parts for the air-conditioner. Install it in front of the suction duct. Make sure to install an air filter on it.
(b) Air outlet duct: Make it short as practicable as possible. Reduce the number of bends as less as possible.
Radius of bend on the duct must be as large as possible.
(c) Inhale section (Larger noises generate if air is inhaled from the underside). Install the suction inlet in front of the suction duct in a manner that the air filter can be brought down.
(d) Insulation must be performed for the duct to prevent water condensation on the duct.
(e) For the blowing outlet, select a shape and location where air may circulate, and a strucure where airflow may be controlled.
(f) An inspection hole must be made in the ceiling surface. This is necessary for the repair and maintenance of the electrical parts, motor and functional parts, as well as for cleaning the heat exchanger.

A bad example of duct work

① If the suction duct is not used, and the attic is used as a suction duct, the attic will become extremely humid depending on the performance of the ventilation fan, the strength of wind blowing to the atmospheric gallery and the climate (e.g., rainy days).

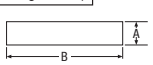


a. Condensation occurs on the outer board of the unit and water may fall on the ceiling. Use the unit according to the air c onditions in the above table and airflow limits. In concrete constructions, high humidity can occur in new constructions even when the attic is not used as a suction duct. In this case, insulate the entire unit with glass wool (25 mm) (use a metal net to hold the wool.)
b. Operation of the unit may exceed its limits (for example, when the temperature of the suction air is 24 °C with the outdoor temperature of 35 °C DB). In such a cases, problems such as an overload of the compressor may occur.
c. The volume of the air blowing in may increase due to the performance of the ventilation fan and the wind strength blowing against the atmospheric gallery. The air usage limit may be exceeded, and the water from the heat exchanger will not be able to drain to the drain pan. Instead it will drain outside and cause a water leak (to the ceiling).

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 pergormed.

Adaptation to suction duct (max. length 10 m)

· Size of duct fit to the air blowout duct plate



unit : mm

	A	B
15-36	99	660
45, 56	99	860
71	99	1060

⑤ Duct Work (continued)

1. When installing air outlet ducts on site, branch the duct near the air outlets and connect them to the air outlets provided on site, with care to achieve the designed blowout wind velocity on site.

Note 1) Max. duct length must be 10 m.
2) Number of air outlets provided on site must be as follows.

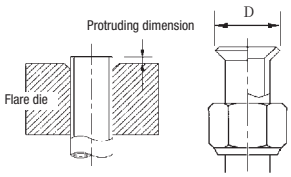
15-36	2 or less
45, 56	3 or less
71	4 or less

2. Speed of fan can be increased. Select the high ceiling mode with remote control.

⑥ Refrigerant pipe

Caution

● Be sure to use new pipes for the refrigerant pipes. Use the flare nut attached to the product or a nut compatible with JIS B 8607, Class 2.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.
1) In case of reuse: Do not use old flare nut, but use the one attached to the unit or compatible with JIS B 8607, Class 2.
2) In case of reuse: Flare the end of pipe replaced partially for R410A.

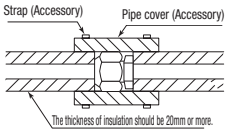


Pipe dia. d mm	Min. pipe wall thickness mm	Protruding dimension for flare, mm		Flare O.D. D mm	Flare nut tightening torque N·m
		Rigid (Clutch type)			
		For R410A	Conventional tool		
6.35	0.8	0 ~ 0.5	0.7 ~ 1.3	8.9 ~ 9.1	14 ~ 18
9.52	0.8			12.8 ~ 13.2	32 ~ 42
12.7	0.8			16.2 ~ 16.6	49 ~ 61
15.88	1			19.3 ~ 19.7	68 ~ 72
19.05	1.2			23.6 ~ 24.0	100 ~ 120

● Use phosphorus deoxidized copper alloy seamless pipe (C1220T specified in JIS H3300) 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 R410A.
Using other refrigerant except 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 R410 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.
※ Do a flare connection as follows:
● 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.
● 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 hold the pipe on the indoor unit securely by a spanner when tightening the nut in order to avoid unexpected stress on the copper pipe.
3. 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 leakage.
4. 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.

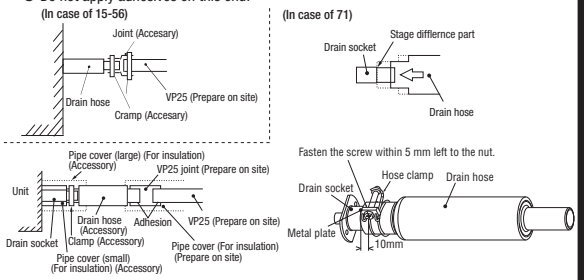
⑦ Drain pipe

Caution

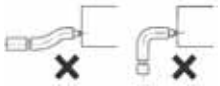
- Install the drain pipe according to the installation manual in order to drain properly. Imperfection in draining may cause flood indoors and wetting the household goods, etc.
- Do not put the drain pipe directly into the ditch where toxic gas such as sulfur, the other harmful and inflammable gas is 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

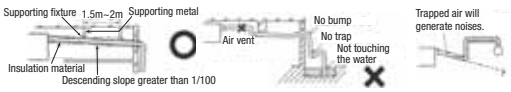
1. Insert the supplied drain hose (the end made of soft PVC) to the step of the drain socket on the indoor unit and fix it securely with the clamp.
   - Do not apply adhesives on this end.



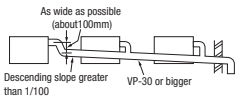
2. Prepare a joint for connecting VP-25 (O.D.32) pipe, adhere and connect the joint to the drain hose (the end made of rigid PVC), and adhere and connect VP-25 (O.D.32) pipe (prepare on site).
   ※As for drain pipe, apply VP-25 (O.D.32) made of rigid PVC which is on the market.
   - Make sure that the 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 the unit or installation of drain pipes. Intentional bending, expanding may cause the flexible hose broken and water leakage.



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.



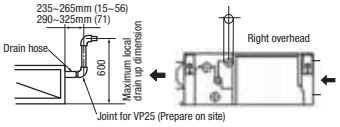
   - When sharing a drain pipe for more than one unit, lay the main pipe 100mm below the drain outlet of the unit. In addition, select VP-30 or bigger size for main drain pipe.



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.



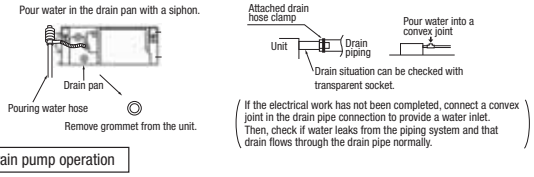
Drain test

1. Conduct a drainage test after completion of the electrical work.
2. During the trial, 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

1. Supply about 1000 cc of water to the unit through the air outlet by using a feed water pump.
2. Check the drain while cooling operation.

⑦ Drain pipe (continued)



Drain pump operation

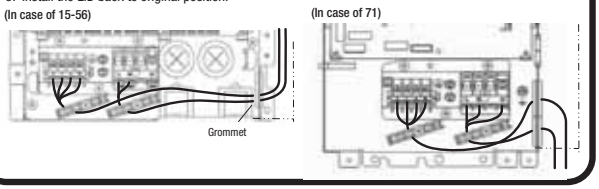
○ In case electrical wiring work finished
Drain pump can be operated by remote control (wired).
For the operation method, refer to Operation for drain pump in the installation manual for wiring work.

○ In case electrical wiring work not finished
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 supply (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.

⑧ 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 grounding work.
- For the details of electrical wiring work, see attached instruction manual for electrical wiring work.

1. Remove control LID from control box which is attaced to the side of control box.
2. Pass each wiring through circle shaped grommet as shown in attached file.
3. Hold each wiring inside the unit and fasten them to therminal block securely.
4. Fix the wirings with cramps.
5. Install the LID back to original position.



⑨ External static pressure setting

Notice

This setting is valid for model 71 only.
You can set External Static Pressure (E.S.P.) by either method of MANUAL SETTING by remote control.
Indoor unit will control fan-speed to keep rated air flow volume at each fan speed setting (Lo-Hi)

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.1-5 (10Pa-50Pa) from following table according to calculation result.
   Refer to technical manual for details of air flow characteristic.

Setting No.	1	2	3	4	5
External Static Pressure (Pa)	10	20	30	40	50

※ When you set No.6-19 by remote control, unit will control fan-speed with setting of No.5. Factory default is at No.1.

- 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 ⬍ button.
  ③ Select setting No. by using ⬍ button and set E.S.P. by button.
  See detailed procedure in technical manual.

Notice

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.

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	
Supply 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	

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

PJG012D004 A

○This model is middle static ducted type air conditioning unit. Therefore, do not use this model for direct blow type air conditioning unit.

①Before installation

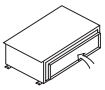
●Install correctly according to the installation manual.

●Confirm the following points:

○Unit type/Power supply specification ○Pipes/Wires/Small parts ○Accessory items

Accessory item

For hanging	For refrigerant pipe			For drain pipe			
Flat washer (M10)	Pipe cover (big)	Pipe cover (small)	Strap	Pipe cover (big)	Pipe cover (small)	Drain hose	Hose clamp
8	1	1	4	1	1	1	1
For unit hanging	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



Accessory parts are stored inside this suction side.

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.
- 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 airflow 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.

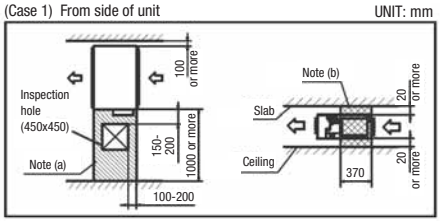
Space for installation and service

●Make installation altitude over 2.5m.

(Indoor Unit)

Select either of two cases to keep space for installation and services.

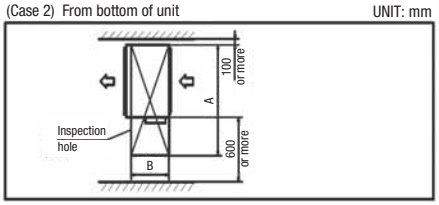
(Case 1) From side of unit UNIT: mm



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.

(Case 2) From bottom of unit UNIT: mm



(Size of inspection hole) UNIT: mm

Single type	–	71	100-140
Multi type	45, 56	71, 90	112-160
A	1100	1300	1720
B	620		725

③Preparation before installation

●If suspension bolt becomes longer, do reinforcement of earthquake resistant.

○For grid ceiling

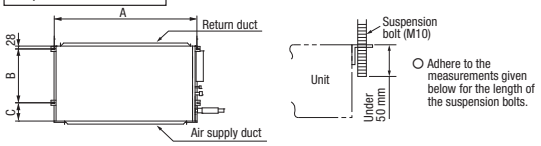
When the suspension bolt length is over 500mm, or the gap between the ceiling and roof is over 700mm, apply earthquake resistant brace to the bolt.

○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.

Suspension Bolt Location

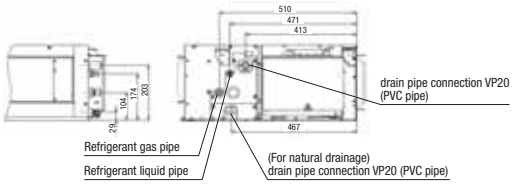


UNIT: mm

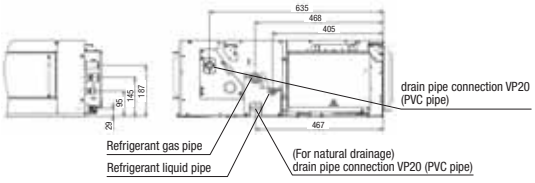
Single type	—	71	100-140
Multi type	45, 56	71, 90	112-160
A	786	986	1404
B	472	472	530
C	135	135	180

Pipe locations UNIT: mm

Single type	71
Multi type	45-90



Single type	100-140
Multi type	112-160

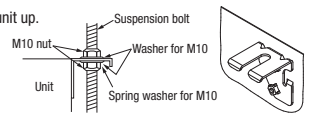


④Installation of indoor unit

Installation

[Hanging]

Hang the unit up.

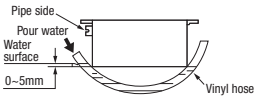


If the measurements between the unit and the ceiling hole do not match upon installation, it may be adjusted with the long holed installation tool.

Adjustment for horizontality

○Either use a level vial, or adjust the level according to the method below.

●Adjust so the bottom side of the unit will be leveled with the water surface as illustrated below.



Let the pipe side be slightly sloped.

○If the unit is not leveled, it may cause malfunctions or inoperation of the float switch.

⑤Duct Work

①A 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.

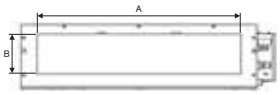
②Blowout duct

●Use rectangular duct to connect with unit.

●Duct size for each unit is as shown below.

UNIT: mm

Single type	—	71	100-140
Multi type	45, 56	71, 90	112-140
A	682	882	1202
B	172	172	172



●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.

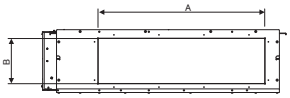
③Inlet port

●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
A	582	742	1282
B	202	202	237

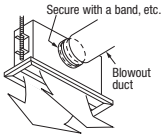


●Make sure to insulate the duct to prevent dewing on it.

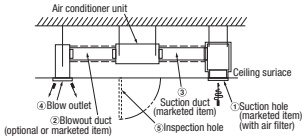
④Install the specific blowout duct in a location where the air will circulate to the entire room.

●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.



⑤Make sure provide an inspection hole on the ceiling. It is indispensable to service electric equipment, motor, functional components and cleaning of heat exchanger.



Bad example of duct work

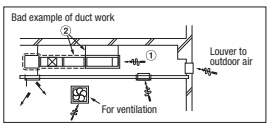
①If a duct is not provided at the suction side but it is substituted with the space over the ceiling, humidity in the space will increase by the influence of capacity of ventilation fan, strength of wind blowing against the out door air louver, weather (rainy day) and others.

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.

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.



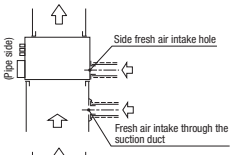
⑤Duct Work (continued)

Connecting the air intake/vent ducts

①Fresh Air Intake

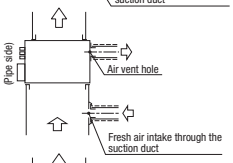
[for air intake duct only]

○Use the side fresh air intake hole, or supply through a part of the suction duct.



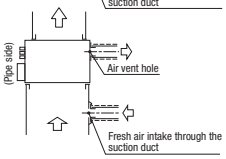
[for simultaneous air intake/vent]

○Intake air through the suction duct. (the side cannot be used)



②Air Vent

○Use the side air vent hole. (always use together with the air intake)



○Insulate the duct to protect it from dew condensation.

⑥Refrigerant pipe

Caution

●Use the new refrigerant pipe.

When re-using the existing pipe system for R22 or R407C, pay attention to the following items.

・Change the flare nuts with the attached ones (JIS category 2), and reprocess the flare parts.

・Do not use thin-walled pipes.

●Use phosphorus deoxidized copper alloy seamless pipe (C1220T specified in JIS H3300) 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.

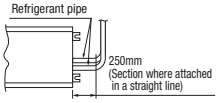
●Do not use any refrigerant other than R410A.

Using other refrigerant except 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 R410A refrigerant.

Piping work

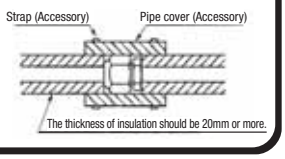


When conducting piping work, make sure to allow the pipes to be aligned in a straight line for at least 250 mm, as shown in the left illustration. (This is necessary for the drain pump to function)

Work procedure

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 the pipe with as big radius as possible and do not bend the pipe repeatedly. In addition, do not twist and crush the pipes.
   ※Do a flare connection as follows:
   ● 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.
   ● 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 below. Make sure to hold the pipe on the indoor unit securely by a spanner when tightening the nut in order to avoid unexpected stress on the copper pipe.
3. 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.
4. 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.

Pipe diameter	Tightening torque N·m
ϕ 6.35	14 to 18
ϕ 9.52	34 to 42
ϕ 12.7	49 to 61
ϕ 15.88	68 to 82



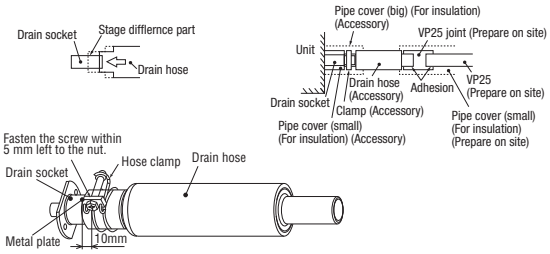
⑦Drain pipe

Caution

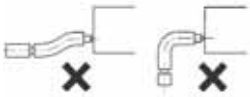
- Install the drain pipe according to the installation manual in order to drain properly. Imperfection in draining may cause flood indoors and wetting the household goods, etc.
- Do not put the drain pipe directly into the ditch where toxic gas such as sulfur, the other harmful and inflammable gas is 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

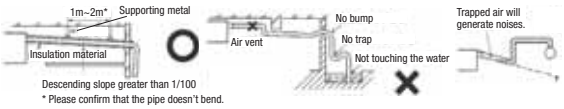
1. Make sure to insert the drain hose (the end mode of soft PVC) to the end of the step part of drain socket.
   Attach the hose clamp to the drain hose around 10mm from the end, and fasten the screw within 5mm left to the nut.
   - Do not apply adhesives on this end.
   - Do not use acetone-based adhesives to connect to the drain socket.



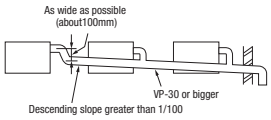
2. Prepare a joint for connecting VP-25 pipe, adhere and connect the joint to the drain hose (the end made of rigid PVC), and adhere and connect VP-25 pipe (prepare on site).
   ※As for drain pipe, apply VP-25 made of rigid PVC which is on the market.
   - Make sure that the adhesive will not get into 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.



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 VP-30 or bigger size for main drain pipe.

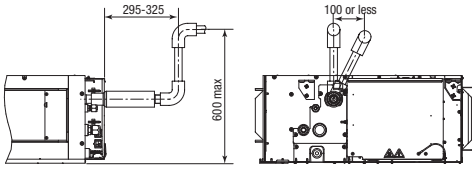


4. Insulate the drain pipe.
   - Be sure to insulate the drain socket and rigid PVC pipe installed indoors otherwise it may cause dew condensation and water leakage.
     ※After drainage test implementation, cover the drain socket part with pipe cover (small size), then use the pipe cover (big size) 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.

⑦Drain pipe (continued)

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.



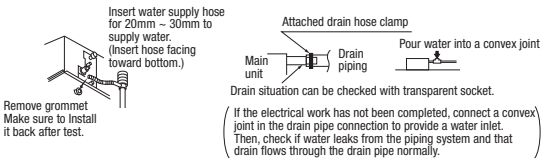
Otherwise, the construction point makes it same as drain pipe construction.

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.
4. Be sure to conduct this test even when the unit is installed in the heating season.

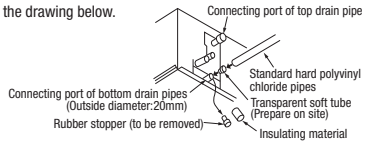
Procedures

1. Supply about 1000 cc of water to the unit through the air outlet by using a feed water pump.
2. Check the drain while cooling operation.



Outline of bottom drain piping work

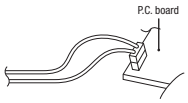
- If the bottom drain piping can be done with a descending gradient (1/50-1/100), it is possible to connect the pipes as shown in the drawing below.



Uncoupling the drain motor connector

- Uncouple the connector CNR for the drain motor as illustrated in the drawing on the right.

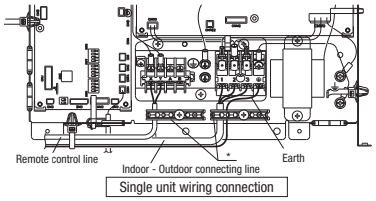
(Note: If the unit is run with the connector coupled, drain water will be discharged from the upper drain pipe joint, causing a water leak.)



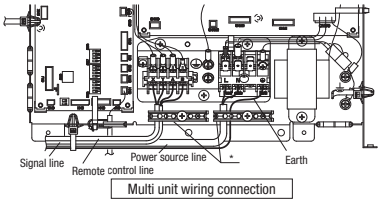
⑧Wiring-out position and wiring connection

- 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.
- 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 pulls.

⑨External static pressure setting

You can set External Static Pressure (E.S.P.) by method of MANUAL SETTING on remote control. Indoor unit will control fan-speed to keep rated air flow volume at each fan speed setting (Lo-Uhi)

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.

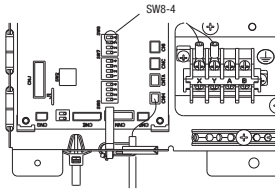
- How to set E.S.P. by wired remote control.
  ① Push "◆" marked button(E.S.P. button).
  ② Select indoor unit No. by using ⬍ button.
  ③ Select setting No. by using ⬍ button and set E.S.P. by button.
  See detailed procedure in technical manual.

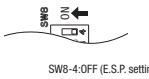
Notice
You can NOT set E.S.P. by wireless remote control.

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 airflow 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 airflow 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.





SW8-4:OFF (E.S.P. setting No. 8-15)

SW8-4:ON (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 becomes higher.

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.

⑩Check 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	
Supply 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 airflow on air inlet and outlet?	Insufficient capacity	
Is setting of E.S.P finished?	Excessive air flow, water drop blow out	

3.2 Electric wiring work instruction

PSC012D001 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.

Security instructions

- **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 .**
  ⚠WARNING : Wrong installation would cause serious consequences such as injuries or death.
  ⚠CAUTION : 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 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.**
  Improper fitting may cause abnormal heat and fire.
- **Use the genuine optional 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.
- **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.

⚠ 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.
- **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 terminal block.**
  In addition, do not mingle 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 breakdown.
- **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)

Switch No.	control content	
SW1	Indoor unit address (tens place)	
SW2	Indoor unit address (ones place)	
SW3	Outdoor unit address (tens place)	
SW4	Outdoor unit address (ones place)	
SW5－1	ON	Fixed previous version of Super Link protocol
	OFF	Automatic adjustment of Super Link protocol
SW5－2	Indoor unit address (hundreds place)	
SW6－1 ~ 4	Model capacity setting	
SW7－1	ON	Operation check, Drain motor test run
	OFF	Normal operation

① Electrical Wiring Connection

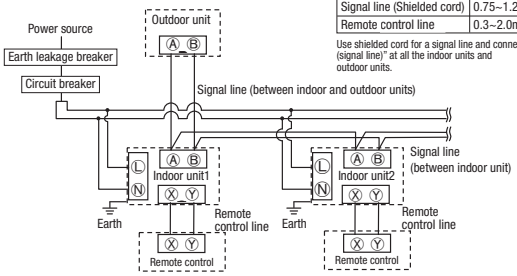
- Electrical wiring work must be performed by an electrician an qualified by a local power provider. These wiring specifications are determined on the assumption that the following instructions are observed:
  ① Do not use cords other than copper ones.
  Do not use any supply line lighter than one specified in parentheses for each type below.
  – braided cord (code designation 60245 IEC 51), if allowed in the relevant part 2;
  – ordinary tough rubber sheathed cord (code designation 60245 IEC 53);
  – flat twin tinsel cord (code designation 60227 IEC 41);
  – ordinary polyvinyl chloride sheathed cord (code designation 60227 IEC 53);
  ② Provide a separate power outlet for each outdoor or indoor unit.
  ③ All indoor units grouped in one system must have power source that can be turned on or off simultaneously.
  ④ Pay extra attention so as not to confuse signal line and power source line connection, because an error in their connection can be burn all the boards at once.
- Screw the line to terminal block without any looseness, certainly.
- Do not turn on the switch of power source, before all of line work is done.
- Provide a dedicated branching circuit and never share a branching circuit with other equipment. If shared, disconnection at the circuit breaker may occur, which can cause secondary damage.
- Install an over-current and earth leakage breaker (threshold current: 30mA) specified for each unit without fail.
- Set earth of D-type.
- Do not connect the power source line [220V/240V/380V/415V] to signal side terminal block. Otherwise, it could cause failure.
- Run the lines (power source, remote control and "between indoor and outdoor unit") upper ceiling through iron pipe or other tube protection to avoid the damage by mouse and so on.
- Connection of a cable beyond 3.5 mm^2 is not permitted. When cables of over 5.5 mm^2 are in use, provide a dedicated pull box to take a branch to an indoor unit.
- Misconnection between signal wires and power supply wires could burn out all PCBs. Connect them carefully.
  ① Even if 200 V power supply is connected mistakenly to signal wire A or B, PCBs are protected at the first time only.
  ② If you cannot confirm a unit No. (address) from the remote control 15 minutes after turning the power on, check all signal wires and correct misconnection(s).
  ③ Cut off the jumper wire J 10SL1 on the burn-out PCB and replace connectors CnK (yellow) and CnK1 (white) with Cnk2 (black).
  ④ If there is any anomaly in the wiring from A or B terminal block to the PCB, replace the wiring.
- Keep "remote control line"and"power source line" away from each other on constructing of unit outside.
- Do not add cord in the middle of line (of indoor power source, remote control and signal) route on outside of unit. If connecting point is flooded, it could cause problem as for electric or communication.
  (In the case that it is necessary to set connecting point on the signal line way, perform thorough waterproof measurement.)
- Connection of the line ("Between indoor and outdoor unit", Earth and Remote control)
  ① Remove lid of control box before connect the above lines, and connect the lines to terminal block according to number pointed on label of terminal block.
  In addition, pay enough attention to confirm the number to lines, because there is electrical polarity except earth line.
  Furthermore, connect earth line to earth position of terminal block of power source.
  ② Install earth leakage breaker on power source line. In addition, select the type of breaker for inverter circuit as earth leakage breaker.
  ③ If the function of selected earth leakage breaker is only for earth-fault protection, hand switch (switch itself and type "B" fuse) or circuit breaker is required in series with the earth leakage breaker.
  ④ Install isolator or disconnect switch on the power supply wiring in accordance with the local codes and regulations.
  The isolator should be set in the box with key to prevent touching by another person when servicing.

Cabling system diagram (Outdoor/indoor unit connection procedure)

Specification of each line

Power source line	2.0~3.5mm^2
Signal line (Shielded cord)	0.75~1.25mm^2
Remote control line	0.3~2.0mm^2

Use shielded cord for a signal line and connect "earth (signal line)" at all the indoor units and outdoor units.



Power source line specification

Wiring specification

Unit type	Earth leakage breaker			Circuit breaker		Wiring size				
				Switch breaker	Over-current protector rated capacity	Power source line	Wire length	Signal line	Remote control line	Earth line
22-36	15A	30mA	0.1sec	30A	15A	2.0mm^2 ×2	304m	0.75~1.25mm^2×2	0.3mm^2 ×2cores	2.0mm^2
45-90							216m			
112-160							129m			
In case of Duct connected -High static pressure- type										
71-140	15A	30mA	0.1sec	30A	15A	2.0mm^2 ×2	87m	0.75~1.25mm^2×2	0.3mm^2 ×2cores	2.0mm^2
224,280							48m			

Note (1) The cord distances are calculated with a voltage drop of 2%. If the distance should exceed the above data, review the cord thickness to use in accordance with your extension cord regulations.
(2) When total extension of remote control line is more than 100m, change the size of cord according to "③ Remote Control, Wiring and functions".

In case of Heat recovery 3-pipe systems

Branching control of heat recovery 3-pipe systems wiring

- When this unit is used as a "Heat Recovery 3-pipe Systems", refer to the installation manual of a branching control (option).

② Address setting

Address setting is done by (1) Manual address setting or (2) Automatic address setting.
In the case of (2) "Automatic address setting", it is possible to change address setting by wired remote control after once complete setting.
As for details of setting procedure, refer to instructions attached to the outdoor unit for details.

③ Remote Control, Wiring and functions

● Do not install it on the following places.

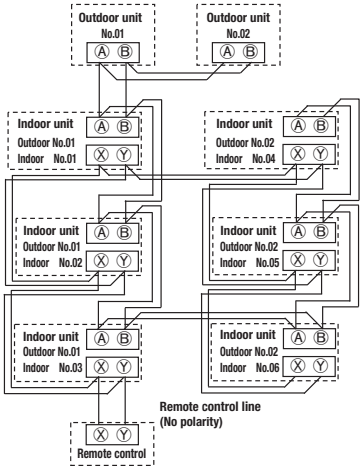
(1) Place exposed to direct sunlight
(2) Places near heat devices
(3) High humidity places
(4) Hot surface or cold surface enough to generate condensation
(5) Place exposed to oil mist or steam directly.
(6) Uneven surface

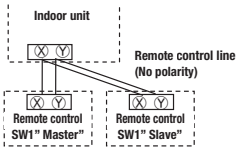
Installation and wiring of remote control

① Install remote control referring to the attached manual.
② Wiring of remote control should use 0.3mm^2 x 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 0.5mm2. 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 ..... 0.5mm^2×2 core
Under 300m..... 0.75mm^2 × 2 core
Under 400m..... 1.25mm^2 × 2 core
Under 500m..... 2.0mm^2 × 2 core
④ Avoid using multi-core cables to prevent malfunction.
⑤ Keep remote control line away from earth (frame or any metal of building).
⑥ Make 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

① A 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.
② Connect all indoor units with 2 core remote control line for group control.
③ Use the function of manual address setting to set the indoor and outdoor address number.
○Do not forget to set the number for the outdoor units.
④ As shown in the following figure, the remote control can be used to control multiple outdoor units.
⑤ One remote control is able to perform group control for multiple units (maximum 16 units).
○Use the rotary SW1 and SW2 provided on the indoor unit PCB (Printed circuit board) to set unique remote control communication address avoiding duplication.





Switch	Setting	Contents
Wired remote control : SW1 Wireless kit: SW1-2	Master	Master remote control
	Slave	Slave remote control

③ Remote Control, Wiring and functions (continued)

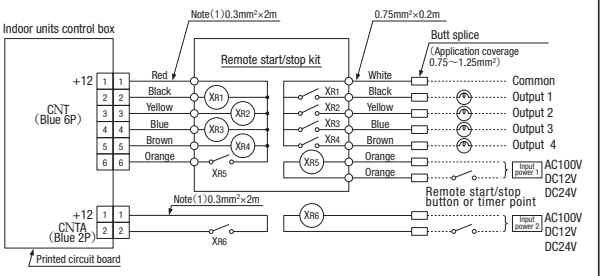
Master/slave setting when more than one remote control unit are used

A maximum of two remote control units can be connected to one indoor unit (or one group of indoor units.)
Latest "function setting" is superior than previous one.
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.

④ Operation and confirmation from remote control

Operation from RC-EX1	Operation from RC-E4, RC-E5
1 Check the number of units connected in the multi remote control system.	
"Menu"⇒"Next"⇒"Service & Maintenance"⇒ "Input password"⇒"IU address"	Press AIR CON NO button to display the IU address. Press the ▼ or ▲ button and check addresses of connected indoor units one by one.
2 Check if each unit is connected properly in the remote control system.	
When the operation is stopped, "Menu"⇒ "Next"⇒"Service & Maintenance"⇒ "Input password"⇒"IU address"⇒"check run mode"	If AIR CON NO. button is pressed when the operation is stopped, the indoor unit address is displayed. If you select one of addresses for connected indoor units by pressing the ▼ or ▲ button and press the (MODE) button, the unit starts to blow air.
3 Setting master/slave remote controls	
"Menu"⇒"Next"⇒"R/C function settings"⇒ "Input password"⇒"Main/Sub of R/C"	Set SW1 to "Slave" for the slave remote control unit.
4 Checking operation data	
"Menu"⇒"Next"⇒"Service & Maintenance"⇒ "Input password"⇒"Operation data"	Press the CHECK button. ⇒ "OPER DATA ▼" is displayed. ⇒ Press the (SET) button. ⇒ "DATA LOADING" is displayed. ⇒ "SELECT I/U" is dispayed. ⇒ Select one of addresses for connected indoor units by pressing the ▲ or ▼ button. ⇒ Press the (SET) button. ⇒ "DATA LOADING" is displayed. ⇒ Select data by pressing the ▲ or ▼ button.
5 Checking inspection display	
"Menu"⇒"Next"⇒"Service & Maintenance"⇒ "Input password"⇒"Inspection display"	Press the CHECK button. ⇒ Press the ▼ button. ⇒ "ERROR DATA ▲" is dispayed. ⇒ Press the (SET) button. ⇒ "DATA LOADING" is displayed. ⇒ Select data by pressing the ▲ or ▼ button.
6 Cooling test run from remote control	
"Menu"⇒"Next"⇒"Installation settings"⇒ "Input password"⇒"Test run"⇒ "Cooling test run"⇒"Start"	①Start the system by pressing the ON/OFF button. ②Select " (Cool)" with the (MODE) button. ③Press the TEST button for 3 seconds or longer. The screen display will switch to: " TEST RUN ▼" ④When the (SET) button is pressed while " TEST RUN ▼" is indicated, a cooling test run will start. The screen display will switch to " TEST RUN ".
7 Trial operation of drain pump from remote control	
"Menu"⇒"Next"⇒"Installation settings"⇒ "Input password"⇒"Test run"⇒ "Drain pump test run"⇒"Run"	①Press the TEST button for three seconds or longer. The display will change " TEST RUN ▼" ②Press the ▼ button once and cause " DRAIN PUMP " to be displayed. ③When the (SET) button is pressed, a drain pump operation will start. Display: " TO STOP "

⑤ Function of CNT connector of indoor printed circuit board



Note (1): Do not use the length over 2 meter

●CNT connector (local) vendor model
Connector : Made by molex 5264-06
Terminals : Made by molex 5263 T

●Refer to instruction manuals of "Branching control", when the indoor unit is connected to "Heat recovery 3-pipe systems".

●Function

Output 1	Air conditioner operation output (When the air conditioner ON: X_{R1} = ON)	
Output 2	Heating output	
Output 3	Thermostat ON output (When the thermostat ON: X_{R3} = ON)	
Output 4	Air conditioner check ON (When checking air conditioner: X_{R4} = ON)	
Input	At shipping	X_{R5} OFF ⇒ ON: Air conditioner operates.
		X_{R5} ON ⇒ OFF: Air conditioner stops.
	*Functions and controls may vary depending on the switching at site.	
Input 2 (FDT etc.)	At shipping	X_{R6} OFF ⇒ ON: Air conditioner operates.
		X_{R6} ON ⇒ OFF: Air conditioner stops.
	*Functions and controls may vary depending on the switching at site.	

* Refer to I/U settings.

●CNTA connector is installed on FDT, etc. Refer to the spec. drawings.
CNTA connector (local) vendor model
Connector : Made by JST XAP02V-1-E
Terminals : Made by JST SXA-01T-P0.6

⑥ Operation and setting from remote control

A: Refer to the instruction manual for RC-EX series.
B: Refer to the installation manual for RC-EX series.
C: Loading a utility software vie Internet
○: Nearly same function setting and operations are possible.
△: Similar function setting and operations are possible.

	Setting & display item	Description	RC-EX series	RC-E4 RC-E5
1. 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	Master/slave setting of remote controls	A maximum of two remote controls (include option wireless) can be connected to one indoor unit. Set one to "Master" and the other to "Slave".	B	○
2. TOP screen, Switch manipulation			A	
1	Menu	"Control", "Settings", or "Details" can be selected. (3.-19.)	A	
2	Operation mode	"Cooling", "Heating", "Fan", "Dry" or "Auto" can be set.	A	○
3	Set temp.	"Set temperature" can be set by 0.5℃ interval.	A	○
4	Air flow direction	"Air flow direction". [Individual flap control setting] can be set.	A	○
5	Fan speed	"Fan speed" can be set.	A	○
6	Timer setting	"Timer operation" can be set.	A	○
7	ON/OFF	"On/Off operation of the system" can be done.	A	○
8	High power SW	"High power operation" or "Normal operation" can be selected.	A	
9	Energy-saving SW	"Energy-saving operation" or "Normal operation" can be selected.	A	
3. Energy-saving settin			A	
1	Auto OFF timer [Administrator password]	For preventing the timer from keeping ON, set hours to stop operation automatically with this timer. ・The selectable range of setting time is from 30 to 240 minutes (10minutes interval) ・When setting is "Valid", this timer will activate whenever the ON timer is set.	A	△
2	Peak-cut timer [Administrator password]	Power consumption can be reduced by restricting 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-minutes interval. ・The selectable range of capacity limit % (Peak-cut %) is from 0% to 40-80% (20% interval). ・Holiday setting is available.	A	
3	Automatic temp. set back [Administrator password]	After the elapse of the set time period, the current set temp. will be set back to the [Set back temp.] ・The setting can be done in cooling and heating mode respectively. ・The selectable range of the set time is from 20 min. to 120 min. (10 min. interval). ・Set the [Set back temp.] by 1℃ interval.	A	△
4. Individual flap control setting			A	○
	Individual flap control setting	The moving range (the positions of upper limit and lower limit) of the flap for individual air outlet port can be set.	A	
5. Ventilation				
1	External ventilation (In combination with ventilator)	On/Off operation of the external ventilator can be done. ・The settings of [Interlock] with AC (air-conditioner), [Single operation] of ventilator or operation [invalid] of ventilation can be done through [Ventilation settings] in the [Remote control] menu.	A	○
6.Filter sign reset			A	○
1	Filter sign reset	The filter sign can be reset.	B	
2	Setting next cleaning date	The next cleaning date can be set.	A	
7.Initial settings				
1	Clock setting	The current date and time can be set or revised.	A	△
2	Date and time display	[Display] or [Hide] the date and/or time can be set, and the [12H] or [24H] display can be set.	A	
3	Summer time	When select [Valid], the +1hour adjustment of current time can be set.When select [Invalid], the [Summer time] adjustment can be reset.	A	
4	Contrast	The contrast of LCD can be adjusted higher or lower.	A	
5	Backlight	Switching on/off a light can be set and the period of the lighting time can be set within the range of 5sec-90sec (5sec interval).	A	
6	Controller sound	It can set with or without [Control sound (beep sound)] at touching panel.	A	
8.Timer settings			A	
1	Set On timer by hour	The period of time to start operation after stopping can be set. ・The period of set time can be set within the range of 1hour-12hours (1hr interval). ・The operation mode, set temp and fan speed at starting operation can be set.	A	△
2	Set Off timer by hour	The period of time to stop operation after starting can be set. ・The period of set time can be set within the range of 1hour-12hours (1hr interval).	A	△
3	Set On timer by clock	The clock time to start operation can be set. ・The set clock time can be set by 5 minutes interval. ・[Once (one time only)] or [Everyday] operation can be switched. ・The operation mode, set temp and fan speed at starting operation can be set.	A	△
4	Set Off timer by clock	The clock time to stop operation can be set. ・The set clock time can be set by 5 minutes interval. ・[Once (one time only)] or [Everyday] operation can be switched.	A	△
5	Confirmation of timer settings	Status of timer settings can be seen.	A	
9.Weekly timer				
1	Weekly timer [Administrator password]	On timer and Off timer on weekly basis can be set. ・8-operation patterns per day can be set at a maximum. ・The setting clock time can be set by 5 minutes interval. ・Holiday setting is available. ・The operation mode, set temp and fan speed at starting operation can be set.	A	△ △ △
10.Home leave mode				
1	Home leave mode [Administrator password]	When leaving home for a long period like a vacation 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 (Cooling⇔Heating) is done by the both factors of the set temp. and outdoor air temp. ・The set temp. and fan speed can be set.	A	

⑥Operation and setting from remote control (continued)

	Setting & display item	Description	RC-EX series	RC-E4 RC-E5
11.	Administrator settings	[Administrator password]	A	
1	Enable/Disable setting	•Enable/Disable setting of operation can be set. [On/Off] [Change set temp.] [Change operation mode] [Change air flow direction] [Individual flap control setting][Fan speed] [High power operation] [Energy-saving operation] [Timer settings] [Weekly timer setting] •Request for administrator password can be set. [Individual flap control setting][Weekly timer][Energy-saving setting][Home leave mode][Administrator settings]	A	△
2	Silent mode timer	The period of time to operate the outdoor unit by prioritizing the quietness can be set. •The [Start time] and the [End time] for operating outdoor unit in silent mode can be set. •The period of the operation time can be set once a day by 5 minutes interval.	A	△
3	Setting temp. range	The upper/lower limit of indoor temp. setting range can be set. •The limitation of indoor temp. setting range can be set for each operation mode in cooling and heating.	A	△
4	Temp. increment setting	The temp increment setting can be changed by 0.5℃ or 1.0℃.	A	
5	RC display setting	Register [Room name] [Name of I/U] Display [indoor temp.] or not. Display [inspection code] or not. Display [Heating stand-by] [Defrost operation] [Auto cooling/heating] or not	A	 ○ △ ○
6	Change administrator password	The administrator password can be changed. (Default setting is "0000") The administrator password can be reset.	A B	
12.	Installer settings	[Service password]	B	
1	Installation date	The [Installation date] can be registered. •When registering the [Installation date], the [Next service date] is displayed automatically. (For changing the [Next service date]. please refer the item of [Service & Maintenance].)	B	
2	Service contact	The [Service contact] can be registered and can be displayed on the RC. •The [Contact company] can be registered within 10 characters. •The [Contact phone] can be registered within 13 digits.	B	
3	Test run	On/Off operation of the test run can be done.	B	
	Cooling test run	The [Cooling test run] can be done at 5℃ of set temp. for 30 minutes.		○
	Drain pump test run	Only the drain pump can be operated.		○
	Compressor Hz fixed operation	The [Test run] operation can be done with fixed compressor Hz set by installer.		○
4	Static 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.	B	
5	Change auto-address	The set address of each indoor unit decided by auto-address setting method can be changed to any other address. (For multiple KX units only)	B	△
6	Address setting of Main IU	Main indoor unit address can be set. •Only the Main indoor unit can change operation mode and the Sub indoor units dominated by the Main indoor unit shall follow. •The Main indoor unit can domain 10 indoor units at a maximum.	B	△
13.	RC function settings	[Service password]	B	
1	Main/Sub RC setting	The setting of [Main/Sub RC] can be changed.	B	○
2	RC sensor	The [Valid/Invalid] setting of [RC sensor] can be done. Respective setting in cooling and heating is available.	B	○
3	RC sensor adjustment	The offset value of [RC sensor] sensing temp. can be set respectively in heating and cooling. •The setting range of offset value is ±3℃ both in cooling and heating.	B	△
4	Operation mode	The [Valid/Invalid] setting of [Auto][Cooling][Heating] and [Dry] can be done respectively.	B	○
5	Fan speed	The setting of [Fan speed] can be done from following patterns.•1-speed, 2-speeds (Hi-Me), 2-speeds (Hi-Lo), 3-speeds, 4-speeds.	B	○
6	External input	The applicable range ([Individual] or [All units]) of CnT input to the multiple indoor units connected in one control system. •[Individual] : Only the unit received CnT input signal.•[All units] : All the units connected to one control system received CnT input signal.	B	○
7	Ventilation setting	The setting of [Invalid] operation of ventilator, [Interlock] with AC or [Independent] of ventilator can be selected. •When setting [Interlock], the operation of external ventilator is interlocked with the operation of AC •When setting [Independent], only the operation of external ventilator is available.	B	○
8	Flap control	The [Flap control] method can be switched to[Stop at fixed position] or [Stop at any position]•[Stop at fixed position] : Stop the flap at a certain position among the designated 4 positions.•[Stop at any position] : Stop the flap at any arbitrary position just after the stopping command from RC was sent.	B	○
9	Auto-restart	The operation control method after recovery of power blackout happened during operation can be set.	B	○
10	Auto temp. setting	[Valid] or [Invalid] of [Auto temp. setting] can be selected.	B	
11	Auto fan speed setting	[Valid] or [Invalid] of [Auto fan speed setting] can be selected.	B	
14.	I/U settings	[Service password]	B	
1	High ceiling	The fan tap of indoor fan can be changed. •[Standard] [High ceiling 1] [High ceiling 2] can be selected.	B	○
2	Filter sign	The setting of filter sign display timer can be done from following patterns.	B	○
3	External input 1	The content of control by external input can be changed.•The selectable contents of control are [On/Off] [Permission/Prohibition] [Cooling/heating] [Emergency stop]	B	○
4	External input 1 signal	The type of external input signal ([Level input]/[Pulse input]) can be changed.	B	○
5	External input 2	•The selectable contents of control are [On/Off] [Permission/Prohibition] [Cooling/heating] [Emergency stop]	B	
6	External input 2 signal	The type of external input signal ([Level input]/[Pulse input]) can be changed.	B	
7	Heating thermo-off temp. adjust.	The judgment temp. of heating thermo-off can be adjusted within the range from 0 to +3℃(1℃ interval)	B	△
8	Return air sensor adjust.	The sensing temp. of return air temp. sensor built in the indoor unit can be adjusted within the range of ±2℃.	B	△
9	Fan control in heating thermo OFF	The fan control method at heating thermo-off can be changed.•The selectable fan control methods are [Low] [Set fan speed] [Intermittent] [Stop].	B	○
10	Anti-frost temp.	The judgment temp. of anti-frost control for the indoor unit in cooling can be changed to [Temp. High] or [Temp. Low].	B	○
11	Anti-frost control	When the anti-frost control of indoor unit in cooling is activated, the fan speed can be changed.	B	○
12	Drain pump operation	In any operation mode in addition to cooling and dry mode, the setting of drain pump operation can be done.	B	○
13	Residual fan operation in cooling	The time period of residual fan operation after stopping in cooling mode can be set.	B	○
14	Residual fan operation in heating	The time period of residual fan operation after stopping or thermo-off in heating mode can be set.	B	○
15	Intermittent fan operation in heating	The fan operation rule following the residual fan operation after stopping or thermo-off in heating mode can be set.	B	○
16	Fan circulator operation	In case that the fan is operated as the circulator, the fan control rule can be set.	B	
17	Control pressure adjust. (For OA processing unit only)	When only the OA processing units are operated, control pressure value can be changed.	B	○
18	Auto operation mode	The [Auto rule selection] for switching the operation mode automatically can be selected from 3 patterns.	B	
19	Thermo. rule setting	When selecting [Outdoor air temp. control], the judgment temp can be offset by outdoor temp..	B	
20	Auto fan speed control	Under the [Auto fan speed control] mode, the switching range of fan speed can be selected from following 2 patterns [Auto 1] [Auto 2]. •[Auto 1] : Hi ⇔Me⇔Lo•[Auto 2] : P-hi⇔Hi⇔Me⇔Lo	B	
15.	Service & Maintenance	[Service password]	B	
1	IU address No.	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 indoor fan.	B	○
2	Next service date	The [Next service date] can be registered.•The [Next service date] and [Service contact] is displayed on the [Periodical check] message screen.	AB	
3	Operation data	Total 39 items of [Operation data] for indoor unit and outdoor unit can be displayed.	B	○
4	Error history	[Date and time of error occurred] [I/U address] [Error code] for Max. 16 latest cases of error history can be displayed.	B	△
	Display anomaly data	The operation data just before the latest error stop can be displayed.	B	
	Reset periodical check	The timer for the periodical check can be reset.	B	○
5	Saving I/U 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.	B	
6	Special settings	[Erase I/U address] [CPU reset] [Initializing] [Touch panel calibration]	B	△
16.	Inspection		A	△
	Confirmation of Inspection	The address No, of anomalous indoor/outdoor unit and error code are displayed.		
17.	PC connection		C	
	USB connection	Weekly timer setting and etc., can be set from PC.		

3.3 Instullation manual for wired remote control

PJZ012D077 a

(a) Model : RC-EX1A(Option parts)

1 . Safety Precautions

This installation manual describes the installation methods and precautions related to the remote control. Use this manual together with the user's manuals for the indoor unit, outdoor unit and other optional equipment. Please read this manual carefully before starting the installation work to install the unit properly.

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 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, the "Installation Manual" should be given to a new owner.

⚠WARNING

Ask a professional contractor to carry out installation work according to the installation manual.
Improper installation work may result in electric shocks, fire or break-down.

Shut OFF the main power supply before starting electrical work.
Otherwise, it could result in electric shocks, break-down or malfunction.

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.

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.

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.

⚠ CAUTION

Do not install the remote control at following places.

It could cause break-down or deformation of remote control.

(1) Where it is exposed to direct sunlight
(2) Near the equipment to generate heat
(3) Where the surface is not flat

Do not leave the remote control with its upper case removed.

When the upper case is removed, put it in a packing box or packing bag to protect internal PCBs or other parts from dust, moisture, etc.

Request

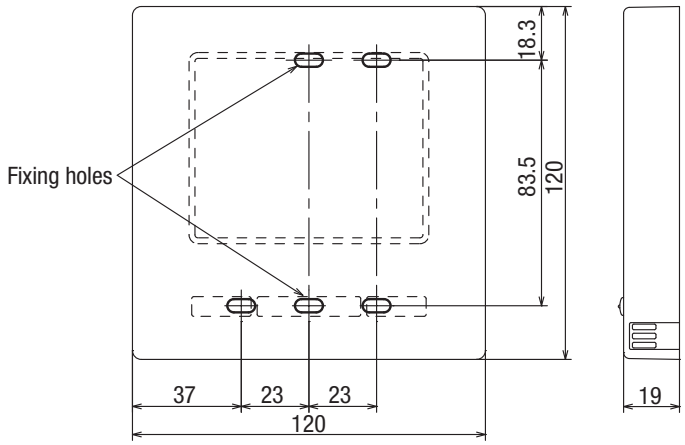
Be sure not to install R/C at a place where temperatures around the installation surface of R/C may differ largely from actual room temperature.
Difference between detected temperature and actual room temperature could cause troubles.
The correction for detected temperature by the R/C cannot offset such temperature difference because it corrects the detected temperatures itself.

Request

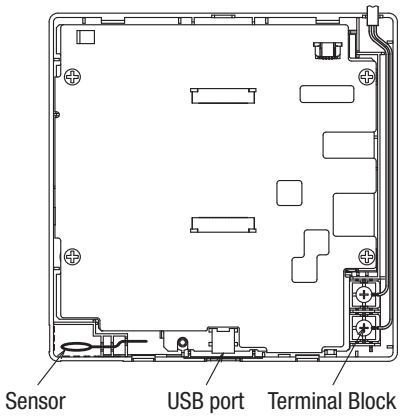
Do not install the R/C at a place where it is exposed to direct sunlight or where surrounding air temperature exceeds 40°C or drops below 0°C.
It could cause discoloration, deformation, malfunction or breakdown.

Installation procedure

Dimensions (Viewed from front)



PCB side (Viewed from rear)



① To remove the upper case from the bottom cases of R/C
· 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.

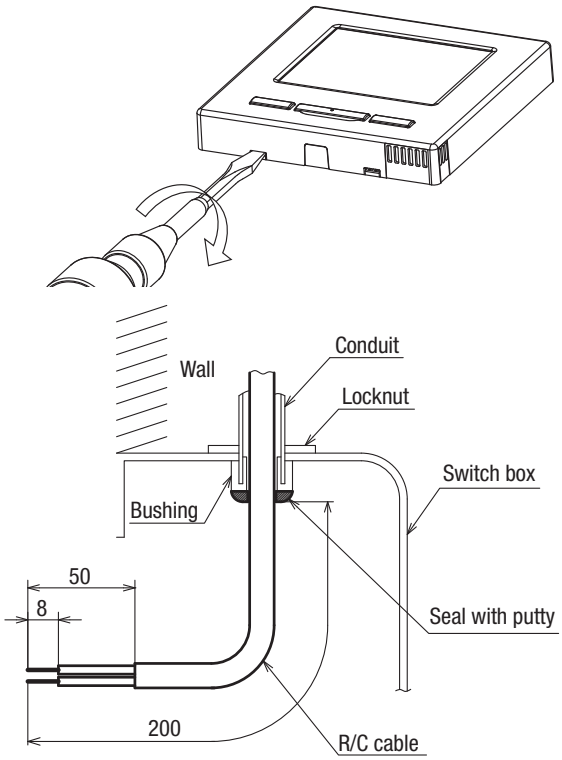
Take care to protect the removed upper case from moisture or dust.

② 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.

In case of embedding wiring (When the wiring is retrieved "Backward")

③ Embed the switch box and the R/C wires beforehand.

Seal the inlet hole for the R/C wiring with putty.
● If dust or insect enters, it could cause electric shocks, fire or breakdown.



2 . Accessories & Prepare on site

Accessories	R/C main unit, wood screw (ø3.5 x 16) 2 pcs User's Manual, Installation Manual

Parts procured at site

Item name	Q'ty	Remark
Switch box For 1 piece or 2 pieces (JIS C8340 or equivalent)	1	These are not required when installing directly on a wall.
Thin wall steel pipe for electric appliance (JIS C8305 or equivalent)	As required	
Lock nut, bushing (JIS C8330 or equivalent)	As required	
Lacing (JIS C8425 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 mm^2 . 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-core
< 300 m	0.75 mm^2 x 2-core
< 400 m	1.25 mm^2 x 2-core
< 600 m	2.0 mm^2 x 2-core

3. Remote control installation procedure

Determine where to install the remote control

Installation "Using a switch box"
"Installed directly on a wall"
Wiring direction "Backward"
"Upper center", "Upper left"

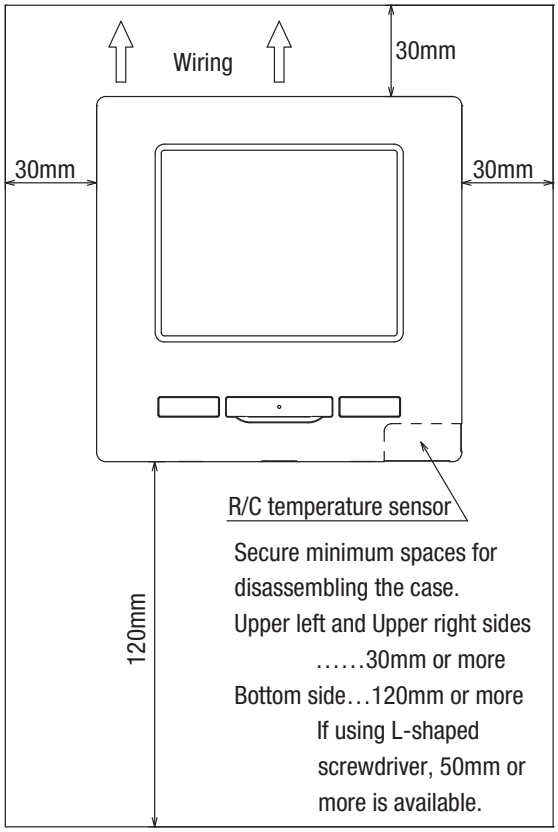
Cautions for selecting installation place

(1) Installation surface must be flat and sufficiently strong. R/C case must not be deformed.

(2) Where the R/C can detect room temperatures accurately. This is a must when detecting room temperatures with the temperature sensor of R/C.
- Install the R/C where it can detect the average temperature in the room.
- Install the R/C separated from a heat source sufficiently.
- Install the R/C where it will not be influenced by the turbulence of air when the door is opened or closed.

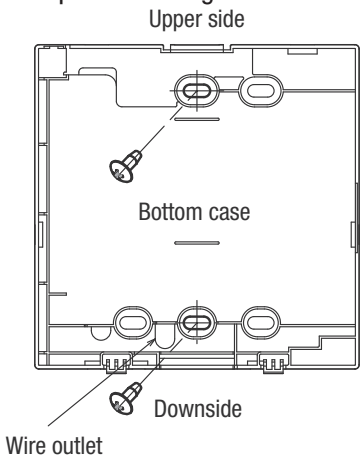
Select a place where the R/C is not exposed to direct sunlight or blown by winds from the air conditioner or temperatures on the wall surface will not deviate largely from actual room temperature.

Installation space

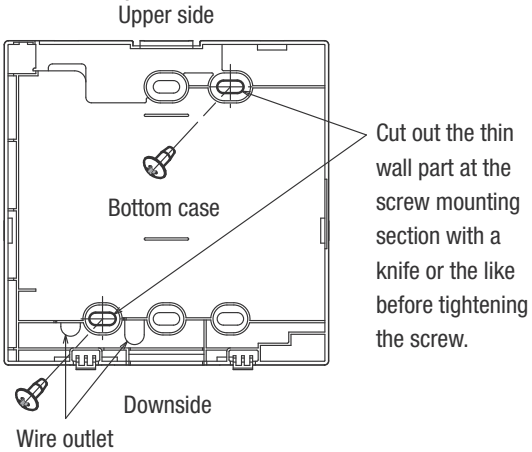


④ When wires are passed through the bottom case, fix the bottom case at 2 places on the switch box.

Switch box for 1 pc



Switch box for 2 pcs



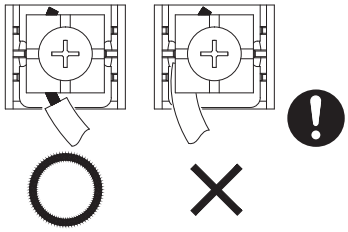
⑤ When fixing the bottom case diagonally at 2 places, cut out the thin wall section on the case.

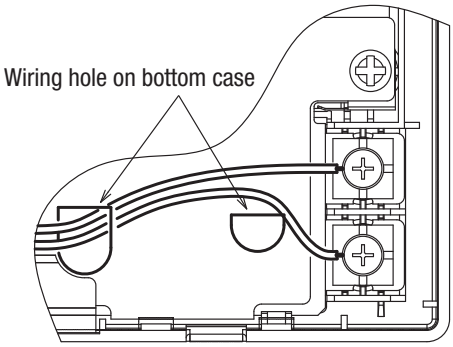
⑥ Fix wires such that the wires will run around the terminal screws on the top case of R/C.

Cautions for wire connection

Use wires of no larger than 0.5 mm^2 for wiring running through the remote control case, Take care not to pinch the sheath.

Tighten by hand (0.7 N·m or less) the wire connection. If the wire is connected using an electric driver, it may cause failure or deformation.

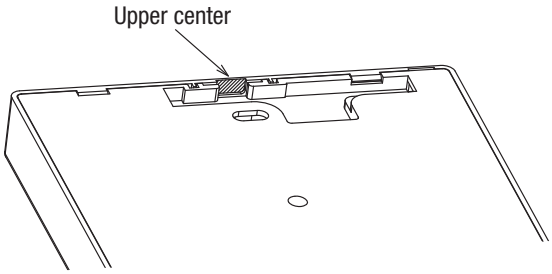




⑦ Install the upper case with care not to pinch wires of R/C.

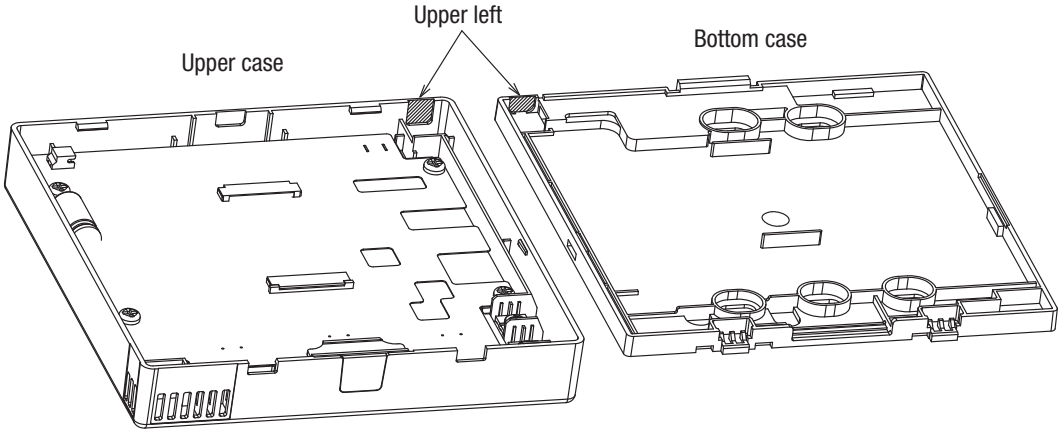
In case of exposing wiring (When the wiring is taken out from the “upper center” or “upper left” of R/C)

③ Cut out the thin wall sections on the cases for the size of wire.



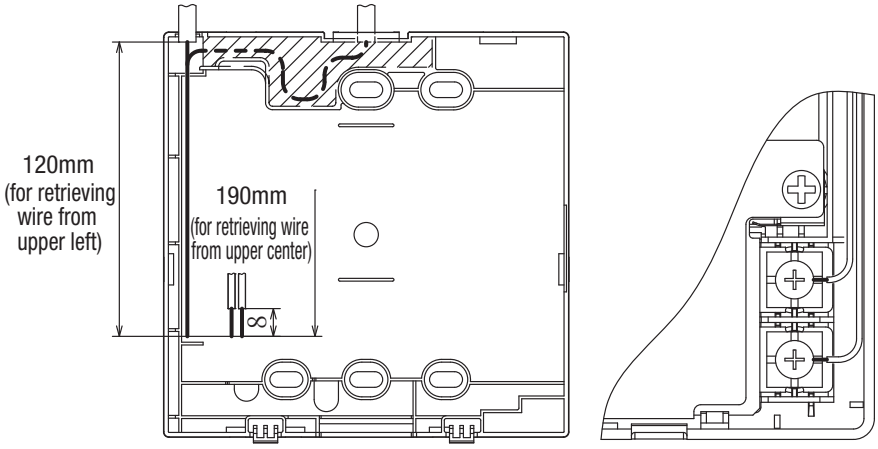
When taking the wiring out from the upper center, open a hole before separating the upper and bottom cases. This will reduce risk of damaging the PCB and facilitate subsequent work.

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.



If the hole is cut too large, moisture, dust or insects may enter.
Seal gaps with putty or the like.

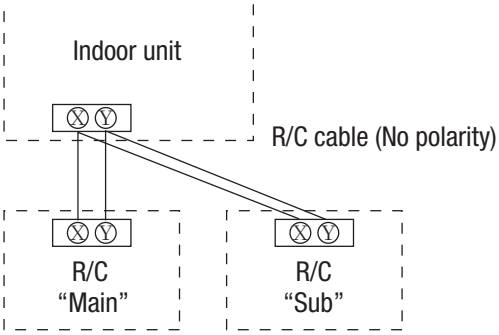
④ Fix the bottom R/C case on a flat surface with wood screws.
⑤ In case of the upper center, pass the wiring behind the bottom case. (Hatched section)
⑥ Fix wires such that the wires will run around the terminal screw of the top case of R/C.
⑦ Install the top case with care not to pinch wires of R/C.



Main/Sub setting when more than one remote control are used

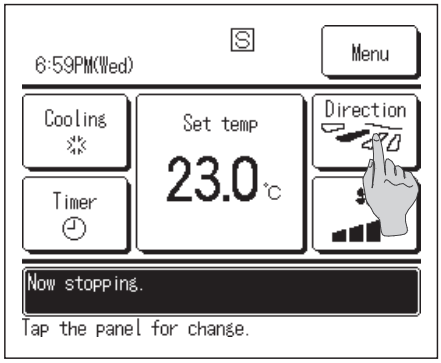
Main-Sub setting for use of two or more R/Cs

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.



Set the "Main" and "Sub" as described at Section 7.

R/C function	Main	Sub
Run/Stop, setting temperature, fan speed and flap direction operations	○	○
High power and energy-saving operations	○	○
Energy-saving setting	○	—
R/C sensor	○	—
Test run menu operation	○	—
Room temperature range setting	○	—
Indoor unit settings	○	—
Individual flap control	○	—
Operation data display	○	—
Error history display	○	○



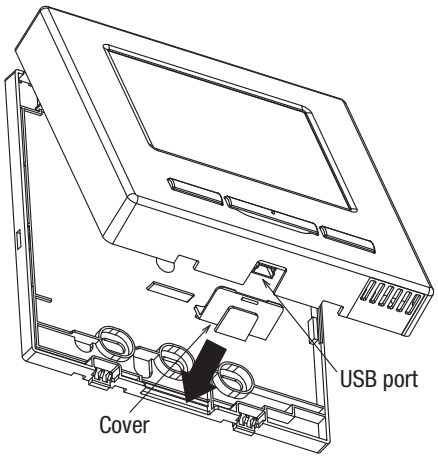
Note: Connection to personal computer

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.
If dust, insect, etc. enters, it could cause electric shocks or breakdown.

Special software is necessary for the connection.
For details, view the web site or refer to the engineering data.

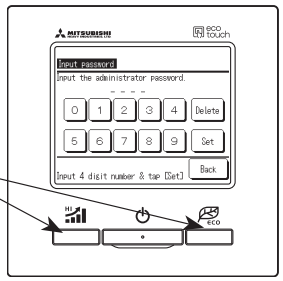
Do not connect to a personal computer without using the special software.
Do not connect the personal computer to the USB simultaneously with other USB devices.
It could cause malfunction or breakdown of R/C or personal computer.



Note: 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). When the administrator password is forgotten, it can be initialized, if the [Highpower] and the [Energy-saving] buttons are pushed simultaneously for 5 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.

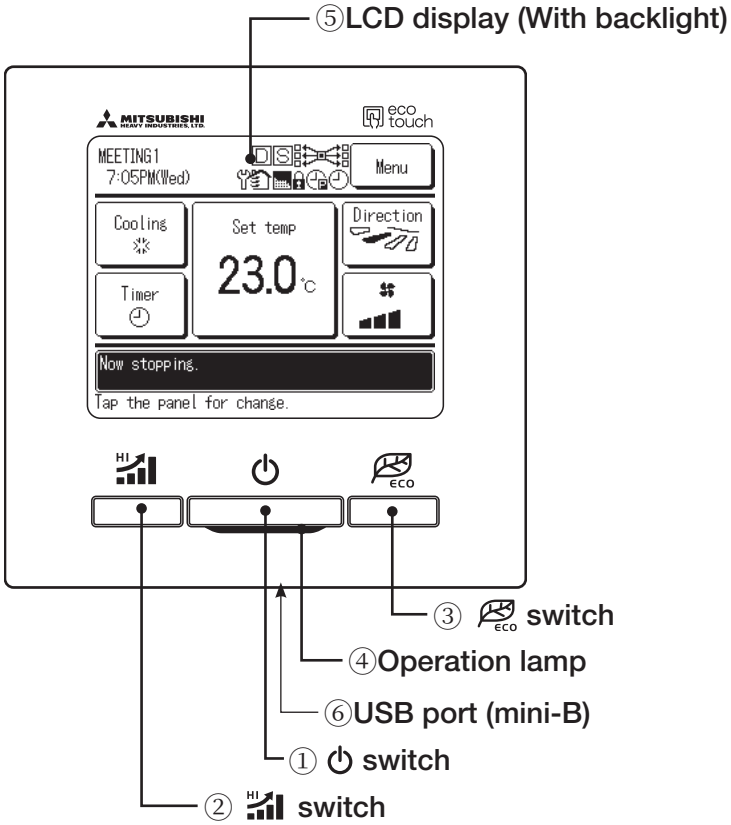


Note: Combination of R/C and indoor unit

(1) It can be used as the combination of Main and Sub with RC-E3 to -E5 type of wireless R/C (option part).
(2) It can be combined with FD-V or FD-KX E6 type and later types of indoor units
(3) In cases of combination with FD-V or FD-KX E6 type unit, there are some controlling items which cannot be used.
If operating such items, the message “Invalid request” is displayed.

4. Functions and menu items of Remote control

Names and functions of sections on R/C (Operating section)



Touch panel system, which is operated by tapping the LCD screen with a finger, is employed for any operations other than the ① Run/Stop, ② High power and ③ Energy-saving switches.

① ⏻ switch

One push on the button starts operation and another push stops operation. (★)

② HI switch

Pushing this button starts the high-power operation. (★)

③ ECO switch

Pushing this button starts the energy-saving operation. (★)

④ Operation lamp

This lamp lights in green (yellow-green) during operation. It changes to red if any error occurs.

⑤ LCD (With backlight)

A touch on the LCD lights the backlight.
The backlight turns off automatically if there is no operation for certain period of time.
Duration of the backlight lighting can be changed. (★)
When the backlight is setting ON, if the screen is tapped while the backlight is turned off, the backlight only is turned on. (Operations of switches ①, ② and ③ are excluded.)

⑥ USB port

USB connector (mini-B) allows connecting to a personal computer.
For operating methods, refer to the User's manual attached to the software for personal computer (Utility software of Eco-touch remote control RC-EX1)

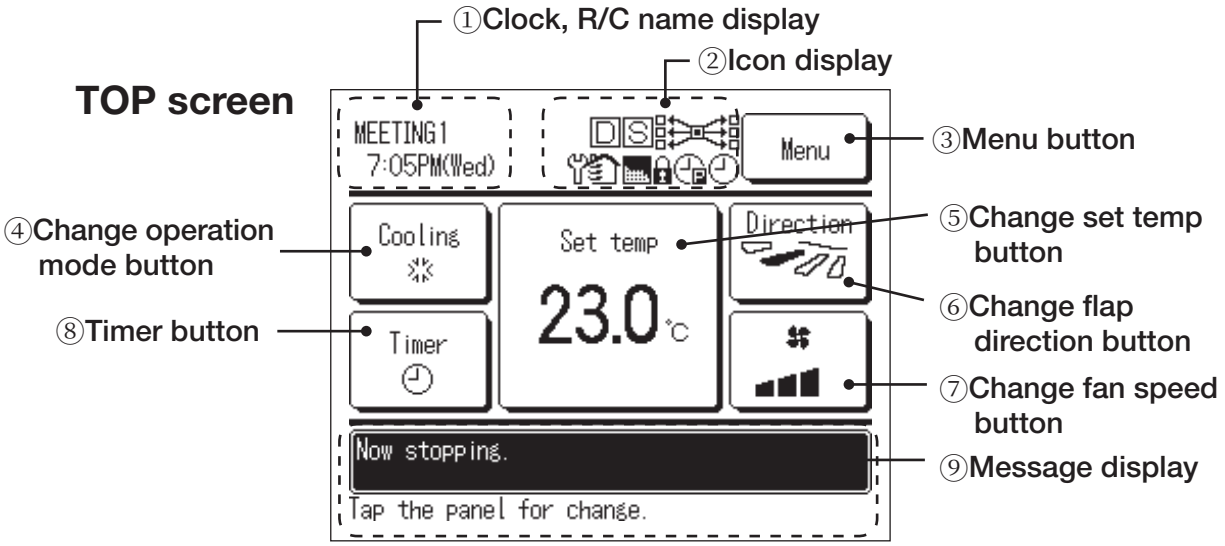
Request

· When connecting to a personal computer, do not connect simultaneously with other USB devices.
Please be sure to connect to the computer directly, without going through a hub, etc.

★ See User's manual for details.

Names and functions of sections on R/C (Display)

* All icons are shown for explanation.



① Clock, R/C name display

Displays the current time (★) and the name of R/C (★)

② Icon display

Each icon is displayed when one of following settings is going on.

When the peak-cut timer is set.

When setting is made from the sub R/C. (★)

When the central control (Optional) is running.

When the periodical inspection is necessary. (★)

During the ventilation operation (★)

When "filter sign" is up. (★)

When the Permission/ Prohibition setting is made. (★)

When the weekly timer is set. (★)

When the paek-cut timer is set. (★)

③ Menu button

When setting or changing other than the following ④ – ⑧, touch the menu button. When menu items are displayed, select one and set.

④ Change operation mode button (★)

Displays the operation mode which is selected currently. Tap this button to change the operation mode.

⑤ Change set temp button (★)

Displays the temperature which is set currently. Tap this button to change the set temperature.

⑥ Flap direction button (★)

Displays the flap direction which is selected currently. Tap this button to change the flap direction.

⑦ Fan speed change button (★)

Displays the fan speed which is selected currently. Tap this button to change the fan speed.

⑧ Timer button (★)

Displays simplified contents of the timer which is set currently.
(When two or more timers are set, a content of the timer which will be operated immediately after is displayed.)
Tap this button to set the timer.

⑨ Message display

Operation status of air conditioner and messages related to R/C operations, etc, are displayed.

★ See User's manual for details.

PJA012D730A A

(b) Model : RC-E5(Option parts)

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 supply is turned off when electric wiring work.
  Otherwise, electric shock, malfunction and improper running may occur.

⚠CAUTION

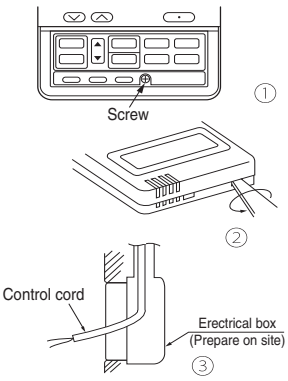
- DO NOT install the remote control at the following places in order to avoid malfunction.
  (1) Places exposed to direct sunlight
  (2) Places near heat devices
  (3) High humidity places
  (4) Hot surface or cold surface enough to generate condensation
  (5) Places exposed to oil mist or steam directly
  (6) Uneven surface
- 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 (ø3.5 ×16) 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

① Open the cover of remote control, and remove the screw under the buttons without fail.

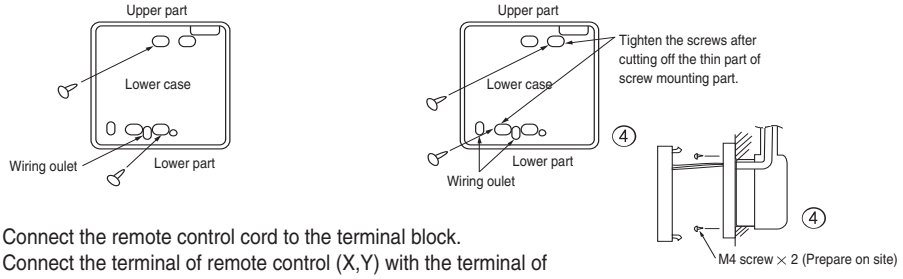
② Remove the upper case of remote control.
Insert a flat-blade screwdriver into the dented part of the upper part of the remote control, and wrench slightly.



[In case of embedding cord]

③ Embed the erectrical box and remote control cord beforehand.

④ 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.



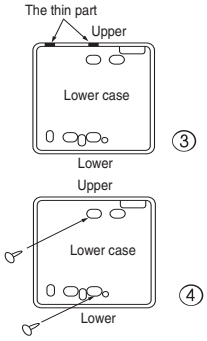
⑤ Connect the remote control cord to the terminal block.
Connect the terminal of remote control (X,Y) with the terminal of indoor unit (X,Y). (X and Y are no polarity)

⑥ Install the upper case as before so as not to catch up the remote control cord, and tighten with the screws.

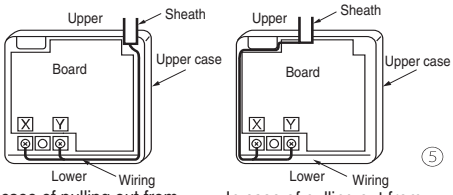
[In case of exposing cord]

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.



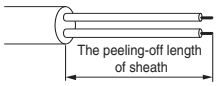
⑤ Connect the remote control cord to the terminal block.
Connect the terminal of remote control (X,Y) with the terminal of indoor unit (X,Y).
(X and Y are no polarity)
Wiring route is as shown in the right diagram depending on the pulling out direction.



In case of pulling out from upper left
In case of pulling out from upper center

The wiring inside the remote control case should be within 0.3mm^2 (recommended) to 0.5mm^2.
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 Y wiring : 195mm	X wiring : 170mm Y wiring : 190mm



⑥ Install the upper case as before so as not to catch up the remote control cord, and tighten with the screws.
⑦ In case of exposing cord, fix the cord on the wall with cord clamp so as not to slack.

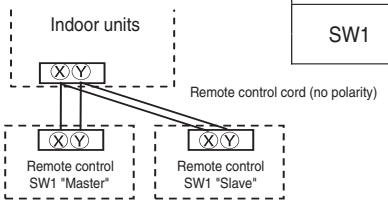
Installation and wiring of remote control

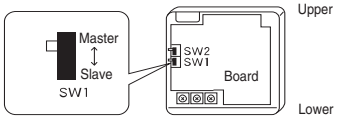
① Wiring of remote control should use 0.3mm^2 × 2 core wires or cables. (on-site configuration)
② Maximum prolongation of remote control wiring is 600 m.
If the prolongation is over 100m, change to the size below.
But, wiring in the remote control case should be under 0.5mm^2 . Change the wire size outside of the case according to wire connecting. Waterproof treatment is necessary at the wire connecting section. Be careful about contact failure.
100 - 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

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.)

Switch	Setting	Contents
SW1	M	Master remote control
	S	Slave remote control



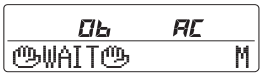


Set SW1 to "Slave" for the slave remote control. It was factory set to "Master" for shipment.
Note: The setting "Remote control thermistor enabled" is only selectable with the master remote control in the position where you want to check room temperature.
The air conditioner operation follows the last operation of the remote control regardless of the master/ slave setting of it.

The indication when power source is supplied

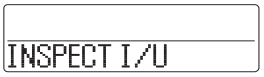
When power source is turned on, the following is displayed on the remote control until the communication between the remote control and indoor unit settled.
Master remote control : " ☺WAIT☺ M"
Slave remote control : " ☺WAIT☺ S"

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.



※ The left mark is only an example. Other marks may appear.

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 ⑫TEMP 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.

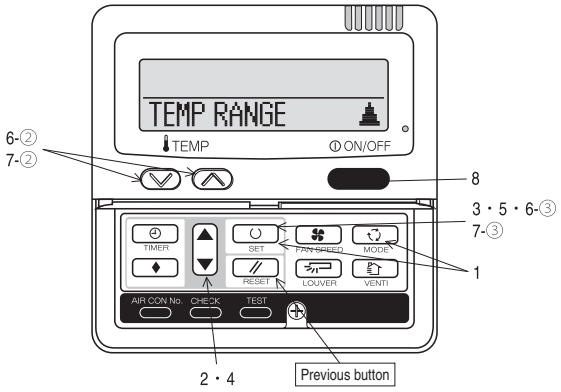
2. When ⑫TEMP RANGE SET, remote control function of function setting mode is "NO INDN CHANGE"
   【If upper limit value is set】
   During heating, even if the value exceeding the upper limit is set, upper limit value will be sent to the indoor unit. But, the indication is the same as the temperature set.

   【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 ▼" or "LOWER LIMIT ▲" by using ▲ ▼ button.
5. Press (SET) button to fix.
6. When "UPPER LIMIT ▼" is selected (valid during heating)
   ① Indication: "☝ ∨ ∧ SET UP" → "UPPER 30˚C ∨"
   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: "☝ ∨ ∧ SET UP" → "LOWER 18˚C ∧"
   ② Select the lower limit value with temperature setting button ∨ ∧. Indication example: "LOWER 24˚C ∨ ∧" (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.

- It is possible to finish by pressing ON/OFF button on the way, but unfinished change of setting is unavailable.
- During setting, if you press (RESET) button, you return to the previous screen.



The functional setting

● The initial function 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 wiil be no need to change the initial settings.
If you would like to change the initial setting marked "○", set your desired setting as for the selected item.
The procedure of functional setting is shown as the following diagram.

[Flow of function setting]

Start : Stop air-conditioner and press "(SET)" and "(MODE)" buttons at the same time for over three seconds.
Finalize : Press "(SET)" button.
Reset : Press "(RESET)" button.
Select : Press ▲ ▼ button.
End : Press ON/OFF button.
It is possible to finish above setting on the way, and unfinished change of setting is unavailable.
"○" : Initial settings
"※" : Automatic criterion

Record and keep the setting

Consult the technical data etc. for each control details

Note 1: The initial setting marked "※" is decided by connected indoor and outdoor unit, and is automatically defined as following table.

Function No.	Item	Default	Model
Remote control function02	AUTO RUN SET	AUTO RUN ON	"Auto-RUN" mode selectable indoor unit.
		AUTO RUN OFF	Indoor unit without "Auto-RUN" mode
Remote control function06	FAN SPEED SW	VALID	Indoor unit with two or three step of air flow setting
		INVALID	Indoor unit with only one of air flow setting
Remote control function07	LOUVER SW	VALID	Indoor unit with automatically swing louver
		INVALID	Indoor unit without automatically swing louver
Remote control function13	I/U FAN	HI-MID-LO	Indoor unit with three step of air flow setting
		HI-LO	Indoor unit with two step of air flow setting
		HI-MID	
		1 FAN SPEED	Indoor unit with only one of air flow setting
Remote controller function15	MODEL TYPE	HEAT PUMP	Heat pump unit
		COOLING ONLY	Exclusive cooling unit

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 "05 EXTERNAL INPUT" and "06 PERMISSION / PROHIBISHION".

Stop air-conditioner and press (SET) + (MODE) buttons at the same time for over three seconds.

FUNCTION SET ▼

FUNCTION ▼ (Remote control function)

Function	setting		
01 ESP SET	ESP VALID	○	Validate setting of ESP:External Static Pressure
	ESP INVALID		Invalidate setting of ESP
02 AUTO RUN SET	AUTO RUN ON	※	
	AUTO RUN OFF	※	Automatical operation is impossible
03 TEMP SW	VALID	○	
	INVALID		Temperature setting button is not working
04 MODE SW	VALID	○	
	INVALID		Mode button is not working
05 ON/OFF SW	VALID	○	
	INVALID		On/Off button is not working
06 FAN SPEED SW	VALID	※	
	INVALID	※	Fan speed button is not working
07 LOUVER SW	VALID	※	
	INVALID	※	Louver button is not working
08 TIMER SW	VALID	○	
	INVALID		Timer button is not working
09 SENSOR SET	SENSOR OFF	○	Remote thermistor is not working.
	SENSOR ON		Remote thermistor is working.
	SENSOR +3.0℃		Remote thermistor is working, and to be set for producing +3.0˚C increase in temperature.
	SENSOR +2.0℃		Remote thermistor is working, and to be set for producing +2.0˚C increase in temperature.
	SENSOR +1.0℃		Remote thermistor is working, and to be set for producing +1.0˚C increase in temperature.
	SENSOR −1.0℃		Remote thermistor is working, and to be set for producing -1.0˚C increase in temperature.
	SENSOR −2.0℃		Remote thermistor is working, and to be set for producing -2.0˚C increase in temperature.
	SENSOR −3.0℃		Remote thermistor is working, and to be set for producing -3.0˚C increase in temperature.
10 AUTO RESTART	INVALID	○	
	VALID		
11 VENT LINK SET	NO VENT	○	
	VENT LINK		In case of Single split series, by connecting ventilation device to CNT of the indoor printed circuit board (in case of VRF series, by connecting it to CND of the indoor printed circuit board), the operation of ventilation device is linked with the operation of indoor unit.
	NO VENT LINK		In case of Single split series, by connecting ventilation device to CNT of the indoor printed circuit board (in case of VRF series, by connecting it to CND of the indoor printed circuit board), you can operate /stop the ventilation device independently by (VENT) button.
12 TEMP RANGE SET	INDN CHANGE	○	If you change the range of set temperature, the indication of set temperature will vary following the control.
	NO INDN CHANGE		If you change the range of set temperature, the indication of set temperature will not vary following the control, and keep the set temperature.
13 I/U FAN	HI-MID-LO	※	Airflow of fan becomes the three speed of … or … .
	HI-LO	※	Airflow of fan becomes the two speed of … .
	HI-MID		Airflow of fan becomes the two speed of … .
	1 FAN SPEED	※	Airflow of fan is fixed at one speed.
14 POSITION			If you change the remote controller function "14 POSITION", you must change the indoor function "04 POSITION" accordingly.
	4POSITION STOP	○	You can select the louver stop position in the four.
	FREE STOP		The louver can stop at any position.
15 MODEL TYPE	HEAT PUMP	※	
	COOLING ONLY	※	
16 EXTERNAL CONTROL SET	INDIVIDUAL	○	If you input signal into CNT of the indoor printed circuit board from external, the indoor unit will be operated independently according to the input from external.
	FOR ALL UNITS		If you input into CNT of the indoor printed circuit board from external, all units which connect to the same remote controller are operated according to the input from external.
17 ROOM TEMP INDICATION SET	INDICATION OFF	○	
	INDICATION ON		In normal working indication, indoor unit temperature is indicated instead of airflow. (Only the master remote controller can be indicated.)
18 INDICATION	INDICATION ON	○	
	INDICATION OFF		Heating preparation indication should not be indicated.
19 ℃/℉ SET	℃	○	Temperature indication is by degree C
	℉		Temperature indication is by degree F

(Indoor unit function) I/U FUNCTION ▲

Indoor unit No. are indicated only when plural indoor units are connected.

I/U000 ▲
I/U001 ⬍
I/U002 ⬍
I/U003 ⬍
I/U004 ⬍

To set other indoor unit, press AIRCON NO. button, which allows you to go back to the indoor unit selection screen (for example: I/U 000 ▲).

Function	setting		
02 FAN SPEED SET	STANDARD	※	
	HIGH SPEED 1	※	
	HIGH SPEED 2		
03 FILTER SIGN SET	INDICATION OFF		
	TYPE 1	○	The filter sign is indicated after running for 180 hours.
	TYPE 2		The filter sign is indicated after running for 600 hours.
	TYPE 3		The filter sign is indicated after running for 1000 hours.
	TYPE 4		The filter sign is indicated after running for 1000 hours, then the indoor unit will be stopped by compulsion after 24 hours.
04 POSITION			If you change the indoor function "04 POSITION", you must change the remote control function "14 POSITION" accordingly.
	4POSITION STOP	○	You can select the louver stop position in the four.
	FREE STOP		The louver can stop at any position.
05 EXTERNAL INPUT	LEVEL INPUT	○	
	PULSE INPUT		
06 OPERATION PERMISSION/PROHIBITION	INVALID	○	
	VALID		Permission/prohibition control of operation will be valid.
07 EMERGENCY STOP	INVALID	○	
	VALID		With the VRF series, it is used to stop all indoor units connected with the same outdoor unit immediately. When stop signal is inputed from remote on-off terminal "CNT-6", all indoor units are stopped immediately.
08 SP OFFSET	OFFSET +3.0℃		To be reset for producing +3.0˚C increase in temperature during heating.
	OFFSET +2.0℃		To be reset for producing +2.0˚C increase in temperature during heating.
	OFFSET +1.0℃		To be reset for producing +1.0˚C increase in temperature during heating.
	NO OFFSET	○	
09 RETURN AIR TEMP	OFFSET +2.0℃		To be reset producing +2.0˚C increase in return air temperature of indoor unit.
	OFFSET +1.5℃		To be reset producing +1.5˚C increase in return air temperature of indoor unit.
	OFFSET +1.0℃		To be reset producing +1.0˚C increase in return air temperature of indoor unit.
	NO OFFSET	○	
	OFFSET −1.0℃		To be reset producing -1.0˚C increase in return air temperature of indoor unit.
	OFFSET −1.5℃		To be reset producing -1.5˚C increase in return air temperature of indoor unit.
	OFFSET −2.0℃		To be reset producing -2.0˚C increase in return air temperature of indoor unit.
10 FAN CONTROL	LOW FAN SPEED	○	When heating thermostat is OFF, fan speed is low speed.
	SET FAN SPEED		When heating thermostat is OFF, fan speed is set speed.
	INTERMITTENCE		When heating thermostat is OFF, fan speed is operated intermittently.
	FAN OFF		When heating thermostat is OFF, the fan is stopped. When the remote thermistor is working, "FAN OFF" is set automatically. Do not set "FAN OFF" when the indoor unit's thermistor is working.
11 FROST PREVENTION TEMP			Change of indoor heat exchanger temperature to start frost prevention control.
	TEMP HIGH		
	TEMP LOW	○	
12 FROST PREVENTION CONTROL			Working only with the Single split series.
	FAN CONTROL ON	○	To control frost prevention, the indoor fan tap is raised.
	FAN CONTROL OFF		
13 DRAIN PUMP LINK	(cooling/dry)	○	Drain pump is run during cooling and dry.
	AND (heating)		Drain pump is run during cooling, dry and heating.
	AND (heating) AND (fan)		Drain pump is run during cooling, dry, heating and fan.
	AND (fan)		Drain pump is run during cooling, dry and fan.
14 FAN REMAINING	NO REMAINING	○	After cooling is stopped is OFF, the fan does not perform extra operation.
	0.5 HOUR		After cooling is stopped is OFF, the fan perform extra operation for half an hour.
	1 HOUR		After cooling is stopped is OFF, the fan perform extra operation for an hour.
	6 HOUR		After cooling is stopped is OFF, the fan perform extra operation for six hours.
15 FAN REMAINING	NO REMAINING	○	After heating is stopped or heating thermostat is OFF, the fan does not perform extra operation.
	0.5 HOUR		After heating is stopped or heating thermostat is OFF,the fan perform extra operation for half an hour.
	2 HOUR		After heating is stopped or heating thermostat is OFF,the fan perform extra operation for two hours.
	6 HOUR		After heating is stopped or heating thermostat is OFF, the fan perform extra operation for six hours.
16 FAN INTERMITTENCE	NO REMAINING	○	
	20minOFF 5minON		During heating is stopped or heating thermostat is OFF, the fan perform intermittent operation for five minutes with low fan speed after twenty minutes' OFF.
	5minOFF 5minON		During heating is stopped or heating thermostat is OFF, the fan perform intermittent operation for five minutes with low fan speed after five minutes' OFF.
17 PRESSURE CONTROL	STANDARD	※	
	TYPE1	※	Connected "OA Processing" type indoor unit, and is automatically defined.

Note2: Fan setting of "HIGH SPEED"					
Fan tap		Indoor unit air flow setting			
FAN SPEED SET	STANDARD	UH - Hi - Me - Lo	Hi - Me - Lo	Hi - Lo	Hi - Me
	HIGH SPEED1, 2	UH - UH - Hi - Me	UH - Hi - Me	UH - Me	UH - Hi
Initial function setting of some indoor unit is "HIGH SPEED".					

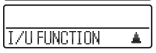
ON/OFF button (finished)

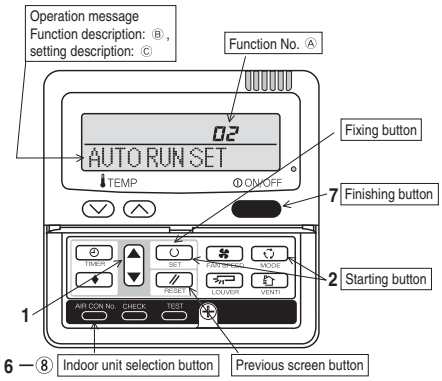
How to set function

1. **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.**
3. **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 ▲" (indoor unit function).

5. **Press (SET) button.**

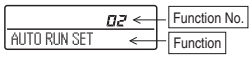




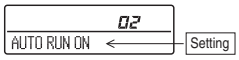
6. **【On the occasion of remote control function selection】**

① "DATA LOADING" (Indication with blinking)
↓
Display is changed to "01 ESP SET".

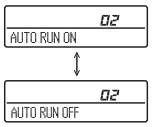
② Press ▲ or ▼ button.
"No. and function"are indicated by turns on the remote control function table, then you can select from them.
(For example)



③ Press (SET) button.
The current setting of selected function is indicated.
(for example) "AUTO RUN ON" ← 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.

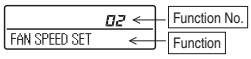
[Note]

(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.

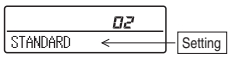
(2) Press ▲ or ▼ button.
Select the number of the indoor unit you are to set
If you select "ALL UNIT ▼", you can set the same setting with all unites.

(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 (SET) button.
The current setting of selected function is indicated.
(For example) "STANDARD" ← If "02 FAN SPEED SET" is selected.



④ Press ▲ or ▼ button.
Select the setting.

⑤ Press (SET) button.
"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.

※ When plural indoor units are connected to a remote control, press the AIRCON NO. button, which allows you to go back to the indoor unit selection screen. (example "I/U 000 ▲")

- It is possible to finish by pressing ON/OFF button on the way, but unfinished change of setting is unavailable.
- 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 setting.
(But, if you select "ALL UNIT ▼", the setting of the lowest number indoor unit is displayed.)

(c) Model:RC-E4 (Option parts)

PJA012D729A A

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 supply is turned off when electric wiring work.
  Otherwise, electric shock, malfunction and improper running may occur.

⚠CAUTION

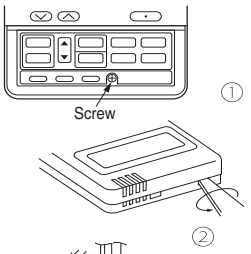
- DO NOT install the remote control at the following places in order to avoid malfunction.
  (1) Places exposed to direct sunlight
  (2) Places near heat devices
  (3) High humidity places
  (4) Hot surface or cold surface enough to generate condensation
  (5) Places exposed to oil mist or steam directly
  (6) Uneven surface
- 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 (ø3.5×16) 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

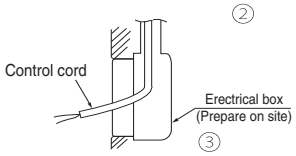
① Open the cover of remote control, and remove the screw under the buttons without fail.

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.

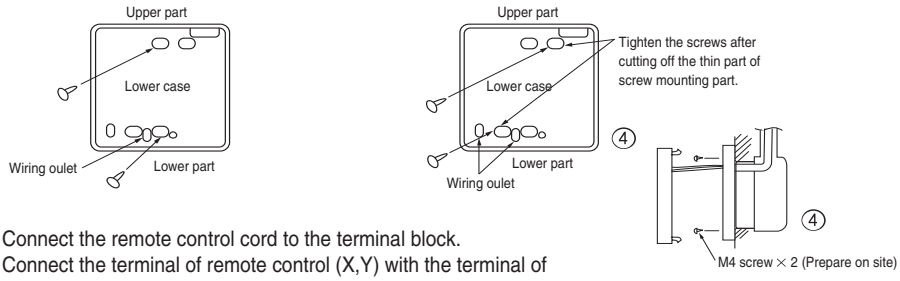


[In case of embedding cord]

③ Embed the erectrical box and remote control cord beforehand.



④ 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.



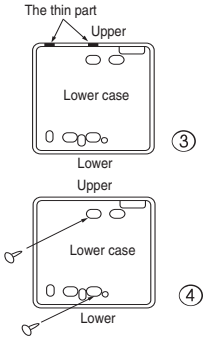
⑤ Connect the remote control cord to the terminal block.
Connect the terminal of remote control (X,Y) with the terminal of indoor unit (X,Y). (X and Y are no polarity)

⑥ Install the upper case as before so as not to catch up the remote control cord, and tighten with the screws.

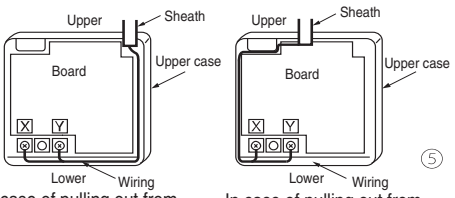
[In case of exposing cord]

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.



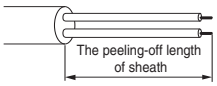
⑤ Connect the remote control cord to the terminal block.
Connect the terminal of remote control (X,Y) with the terminal of indoor unit (X,Y).
(X and Y are no polarity)
Wiring route is as shown in the right diagram depending on the pulling out direction.



In case of pulling out from upper left
In case of pulling out from upper center

The wiring inside the remote control case should be within 0.3mm^2 (recommended) to 0.5mm^2.
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 Y wiring : 195mm	X wiring : 170mm Y wiring : 190mm



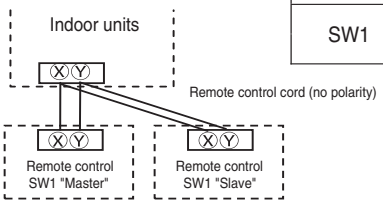
⑥ Install the upper case as before so as not to catch up the remote control cord, and tighten with the screws.
⑦ In case of exposing cord, fix the cord on the wall with cord clamp so as not to slack.

Installation and wiring of remote control

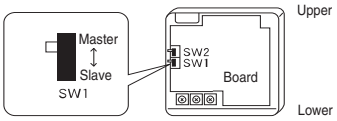
① Wiring of remote control should use 0.3mm^2 × 2 core wires or cables. (on-site configuration)
② Maximum prolongation of remote control wiring is 600 m.
If the prolongation is over 100m, change to the size below.
But, wiring in the remote control case should be under 0.5mm^2 . Change the wire size outside of the case according to wire connecting. Waterproof treatment is necessary at the wire connecting section. Be careful about contact failure.
100 - 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

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.)



Switch	Setting	Contents
SW1	M	Master remote control
	S	Slave remote control

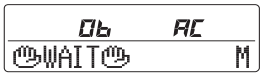


Set SW1 to "Slave" for the slave remote control. It was factory set to "Master" for shipment.
Note: The setting "Remote control thermistor enabled" is only selectable with the master remote control in the position where you want to check room temperature.
The air conditioner operation follows the last operation of the remote control regardless of the master/ slave setting of it.

The indication when power source is supplied

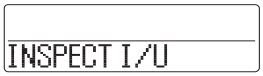
When power source is turned on, the following is displayed on the remote control until the communication between the remote control and indoor unit settled.
Master remote control : " ☺WAIT☺ M"
Slave remote control : " ☺WAIT☺ S"

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.



※ The left mark is only an example. Other marks may appear.

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 ⑫TEMP 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 ⑫TEMP 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.

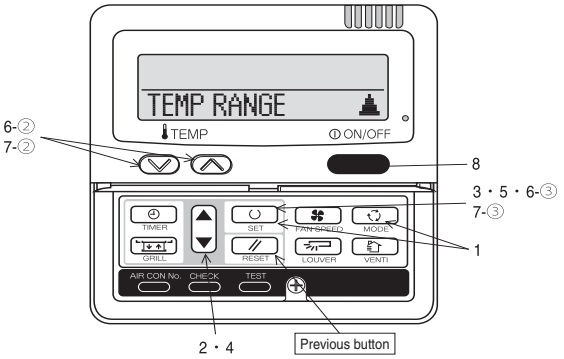
   【If lower limit value is set】

   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 ▼" or "LOWER LIMIT ▲" by using [▲] [▼] button.
5. Press (SET) button to fix.
6. When "UPPER LIMIT ▼" is selected (valid during heating)
   ① Indication: "☝ ∨ ∧ SET UP" → "UPPER 30˚C ∨"
   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: "☝ ∨ ∧ SET UP" → "LOWER 18˚C ∧"
   ② Select the lower limit value with temperature setting button [∨] [∧]. Indication example: "LOWER 24˚C ∨ ∧" (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.

- It is possible to finish by pressing [ON/OFF] button on the way, but unfinished change of setting is unavailable.
- During setting, if you press (RESET) button, you return to the previous screen.



The functional setting

● The initial function 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 "○", set your desired setting as for the selected item.
The procedure of functional setting is shown as the following diagram.

[Flow of function setting]

Start : Stop air-conditioner and press "[ ]" (SET) and "[ ]" (MODE) buttons at the same time for over three seconds.
Finalize : Press "[ ]" (SET) button.
Reset : Press "[ ]" (RESET) button.
Select : Press [▲] [▼] button.
End : Press [ON/OFF] button.
It is possible to finish above setting on the way, and unfinished change of setting is unavailable.
"○" : Initial settings
"※" : Automatic criterion

Record and keep the setting

Consult the technical data etc. for each control details

Note 1: The initial setting marked "※" is decided by connected indoor and outdoor unit, and is automatically defined as following table.

Function No.	Item	Default	Model
Remote control function02	AUTO RUN SET	AUTO RUN ON	"Auto-RUN" mode selectable indoor unit.
		AUTO RUN OFF	Indoor unit without "Auto-RUN" mode
Remote control function06	FAN SPEED SW	FAN VALID	Indoor unit with two or three step of air flow setting
		FAN INVALID	Indoor unit with only one of air flow setting
Remote control function07	LOUVER SW	LOUVER VALID	Indoor unit with automatically swing louver
		LOUVER INVALID	Indoor unit without automatically swing louver
Remote control function13	I/U FAN	HI-MID-LO	Indoor unit with three step of air flow setting
		HI-LO	Indoor unit with two step of air flow setting
		HI-MID	
		1 FAN SPEED	Indoor unit with only one of air flow setting
Remote control function15	MODEL TYPE	HEAT PUMP	Heat pump unit
		COOLING ONLY	Exclusive cooling unit

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 "05 EXTERNAL INPUT" and "06 PERMISSION / PROHIBISHION".

Fan tap		Indoor unit air flow setting			
		4 speed	3 speed	2 speed (Hi-Lo)	2 speed (Hi-Me)
FAN SPEED SET	STANDARD	PHi - Hi - Me - Lo	Hi - Me - Lo	Hi - Lo	Hi - Me
	HIGH SPEED1, 2	PHi - PHi - Hi - Me	PHi - Hi - Me	PHi - Me	PHi - Hi

Initial function setting of some indoor unit is "HIGH SPEED"
4 speed is not able to be set with wireless remote controls or simple remote control (RCH-H3).

During air-conditioner stopping push [ ] (SET) + [ ] (MODE) button simultaneously for 3 seconds

[FUNCTION SET ▼]

[FUNCTION ▼] (Remote control function)

Function / setting

- 01 GRILLE SET
  - INVALID ○
  - 50Hz ZONE ONLY — When you use at 50Hz area
  - 60Hz ZONE ONLY — When you use at 60Hz area
- 02 AUTO RUN SET
  - AUTO RUN ON ※
  - AUTO RUN OFF ※ — Automatical operation is impossible
- 03 TEMP SW
  - VALID ○
  - INVALID — Temperature setting button is not working
- 04 MODE SW
  - VALID ○
  - INVALID — Mode button is not working
- 05 ON/OFF SW
  - VALID ○
  - INVALID — On/Off button is not working
- 06 FAN SPEED SW
  - VALID ※
  - INVALID ※ — Fan speed button is not working
- 07 LOUVER SW
  - VALID ※
  - INVALID ※ — Louver button is not working
- 08 TIMER SW
  - VALID ○
  - INVALID — Timer button is not working
- 09 SENSOR SET
  - SENSOR OFF ○ — Remote thermistor is not working.
  - SENSOR ON — Remote thermistor is working.
  - SENSOR +3.0 — Remote thermistor is working, and to be set for producing +3.0°C increase in temperature.
  - SENSOR +2.0 — Remote thermistor is working, and to be set for producing +2.0°C increase in temperature.
  - SENSOR +1.0 — Remote thermistor is working, and to be set for producing +1.0°C increase in temperature.
  - SENSOR −1.0 — Remote thermistor is working, and to be set for producing -1.0°C increase in temperature.
  - SENSOR −2.0 — Remote thermistor is working, and to be set for producing -2.0°C increase in temperature.
  - SENSOR −3.0 — Remote thermistor is working, and to be set for producing -3.0°C increase in temperature.
- 10 AUTO RESTART
  - INVALID ○
  - VALID
- 11 VENT LINK SET
  - NO VENT ○
  - VENT LINK — In case of Single split series, by connecting ventilation device to CNT of the indoor printed circuit board (in case of VRF series, by connecting it to CND of the indoor printed circuit board), the operation of ventilation device is linked with the operation of indoor unit.
  - NO VENT LINK — In case of Single split series, by connecting ventilation device to CNT of the indoor printed circuit board (in case of VRF series, by connecting it to CND of the indoor printed circuit board), you can operate /stop the ventilation device independently by [ ] (VENT) button.
- 12 TEMP RANGE SET
  - INDN CHANGE ○ — If you change the range of set temperature, the indication of set temperature will vary following the control.
  - NO INDN CHANGE — If you change the range of set temperature, the indication of set temperature will not vary following the control, and keep the set temperature.
- 13 I/U FAN
  - HI-MID-LO ※ — Airflow of fan becomes (3 speed) or the four speed of (4 speed).
  - HI-LO ※ — Airflow of fan becomes (2 speed).
  - HI-MID — Airflow of fan becomes (2 speed).
  - 1 FAN SPEED ※ — Airflow of fan is fixed at one speed.
- 14 POSITION — If you change the remote controller function "14 POSITION", you must change the indoor function "04 POSITION" accordingly.
  - 4POSITION STOP ○ — You can select the louver stop position in the four.
  - FREE STOP — The louver can stop at any position.
- 15 MODEL TYPE
  - HEAT PUMP ※
  - COOLING ONLY ※
- 16 EXTERNAL CONTROL SET
  - INDIVIDUAL ○ — If you input signal into CNT of the indoor printed circuit board from external, the indoor unit will be operated independently according to the input from external.
  - FOR ALL UNITS — If you input into CNT of the indoor printed circuit board from external, all units which connect to the same remote controller are operated according to the input from external.
- 17 ROOM TEMP INDICATION SET
  - INDICATION OFF ○
  - INDICATION ON — In normal working indication, indoor unit temperature is indicated instead of airflow. (Only the master remote controller can be indicated.)
- 18 INDICATION
  - INDICATION ON ○
  - INDICATION OFF — Heating preparation indication should not be indicated.
- 19 °C/°F SET
  - °C ○ — Temperature indication is by degree C
  - °F — Temperature indication is by degree F

(Indoor unit function) [I/U FUNCTION ▲]

Indoor unit No. are indicated only when plural indoor units are connected.
I/U000 ▲, I/U001 ◆, I/U002 ◆, I/U003 ◆, I/U004 ◆

To set other indoor unit, press [AIRCON NO.] button, which allows you to go back to the indoor unit selection screen (for example: I/U 000 ▲).

Function / setting

- 02 FAN SPEED SET
  - STANDARD ※
  - HIGH SPEED 1 ※
  - HIGH SPEED 2
- 03 FILTER SIGN SET
  - INDICATION OFF
  - TYPE 1 ○ — The filter sign is indicated after running for 180 hours.
  - TYPE 2 — The filter sign is indicated after running for 600 hours.
  - TYPE 3 — The filter sign is indicated after running for 1000 hours.
  - TYPE 4 — The filter sign is indicated after running for 1000 hours, then the indoor unit will be stopped by compulsion after 24 hours.
- 04 POSITION — If you change the indoor function "04 POSITION", you must change the remote control function "14 POSITION" accordingly.
  - 4POSITION STOP ○ — You can select the louver stop position in the four.
  - FREE STOP — The louver can stop at any position.
- 05 EXTERNAL INPUT
  - LEVEL INPUT ○
  - PULSE INPUT
- 06 PERMISSION/PROHIBITION
  - INVALID ○
  - VALID — Permission/prohibition control of operation will be valid.
- 07 EMERGENCY STOP
  - INVALID ○
  - VALID — With the VRF series, it is used to stop all indoor units connected with the same outdoor unit immediately. When stop signal is inputed from remote on-off terminal "CNT-6", all indoor units are stopped immediately.
- 08 SP OFFSET
  - OFFSET +3.0 — To be reset for producing +3.0°C increase in temperature during heating.
  - OFFSET +2.0 — To be reset for producing +2.0°C increase in temperature during heating.
  - OFFSET +1.0 — To be reset for producing +1.0°C increase in temperature during heating.
  - NO OFFSET ○
- 09 RETURN AIR TEMP
  - OFFSET +2.0 — To be reset producing +2.0°C increase in return air temperature of indoor unit.
  - OFFSET +1.5 — To be reset producing +1.5°C increase in return air temperature of indoor unit.
  - OFFSET +1.0 — To be reset producing +1.0°C increase in return air temperature of indoor unit.
  - NO OFFSET ○
  - OFFSET −1.0 — To be reset producing -1.0°C increase in return air temperature of indoor unit.
  - OFFSET −1.5 — To be reset producing -1.5°C increase in return air temperature of indoor unit.
  - OFFSET −2.0 — To be reset producing -2.0°C increase in return air temperature of indoor unit.
- 10 FAN CONTROL
  - LOW FAN SPEED ○ — When heating thermostat is OFF, fan speed is low speed.
  - SET FAN SPEED — When heating thermostat is OFF, fan speed is set speed.
  - INTERMITTENCE — When heating thermostat is OFF, fan speed is operated intermittently.
  - FAN OFF — When heating thermostat is OFF, the fan is stopped. When the remote thermistor is working, "FAN OFF" is set automatically. Do not set "FAN OFF" when the indoor unit's thermistor is working.
- 11 FROST PREVENTION TEMP — Change of indoor heat exchanger temperature to start frost prevention control.
  - TEMP HIGH
  - TEMP LOW ○
- 12 FROST PREVENTION CONTROL — Working only with the Single split series. To control frost prevention, the indoor fan tap is raised.
  - FAN CONTROL ON ○
  - FAN CONTROL OFF
- 13 DRAIN PUMP LINK
  - ○ — Drain pump is run during cooling and dry.
  - AND — Drain pump is run during cooling, dry and heating.
  - AND AND — Drain pump is run during cooling, dry, heating and fan.
  - AND — Drain pump is run during cooling, dry and fan.
- 14 FAN REMAINING
  - NO REMAINING ○ — After cooling is stopped the fan does not perform extra operation.
  - 0.5 HOUR — After cooling is stopped the fan perform extra operation for half an hour.
  - 1 HOUR — After cooling is stopped the fan perform extra operation for an hour.
  - 6 HOUR — After cooling is stopped the fan perform extra operation for six hours.
- 15 FAN REMAINING
  - NO REMAINING ○ — After heating is stopped or heating thermostat is OFF, the fan does not perform extra operation.
  - 0.5 HOUR — After heating is stopped or heating thermostat is OFF,the fan perform extra operation for half an hour.
  - 2 HOUR — After heating is stopped or heating thermostat is OFF,the fan perform extra operation for two hours.
  - 6 HOUR — After heating is stopped or heating thermostat is OFF, the fan perform extra operation for six hours.
- 16 FAN INTERMITTENCE
  - NO REMAINING ○
  - OFF ON — During heating is stopped or heating thermostat is OFF, the fan perform intermittent operation for five minutes with low fan speed after twenty minutes' OFF.
  - OFF ON — During heating is stopped or heating thermostat is OFF, the fan perform intermittent operation for five minutes with low fan speed after five minutes' OFF.
- 17 PRESSURE CONTROL
  - STANDARD ※
  - TYPE1 ※ — Connected "DA Processing" type indoor unit, and is automatically defined.

[ON/OFF] button (finished)

How to set function

1. **Stop air-conditioner and press (SET) (MODE) buttons at the same time for over three seconds, and the "FUNCTION SET ▼" will be displayed.**

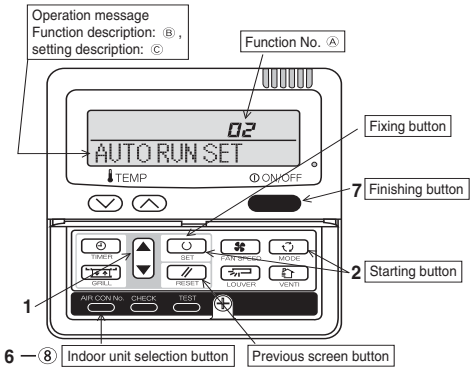
   FUNCTION SET ▼

2. **Press (SET) button.**
3. **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 ▲" (indoor unit function).

   FUNCTION ▼

   I/U FUNCTION ▲

5. **Press (SET) button.**



6. **【On the occasion of remote control function selection 】**

   ① "DATA LOADING" (Indication with blinking)
   ↓
   Display is changed to "01 GRILLE ↑↓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)

   02 ← Function No.
   AUTO RUN SET ← Function

   ③ Press (SET) button.
   The current setting of selected function is indicated.
   (for example) "AUTO RUN ON" ← If "02 AUTO RUN SET" is selected

   02
   AUTO RUN ON ← Setting

   ④ Press ▲ or ▼ button.
   Select the setting.

   02
   AUTO RUN ON
   ↕
   02
   AUTO RUN OFF

   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.

   02
   SET COMPLETE

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.

I/U000 ▲

(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 all unites.

(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)

02 ← Function No.
FAN SPEED SET ← Function

③ Press (SET) button.
The current setting of selected function is indicated.
(For example) "STANDARD" ← If "02 FAN SPEED SET" is selected.

02
STANDARD ← Setting

④ Press ▲ or ▼ button.
Select the setting.

⑤ Press (SET) button.
"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.

02
SET COMPLETE

※ When plural indoor units are connected to a remote control, press the AIRCON NO. button, which allows you to go back to the indoor unit selection screen. (example "I/U 000 ▲")

- It is possible to finish by pressing ON/OFF button on the way, but unfinished change of setting is unavailable.
- 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 setting.
(But, if you select "ALL UNIT ▼", the setting of the lowest number indoor unit is displayed.)

4 OPTION PARTS

4.1 Wireless kit

SAFETY PRECAUTIONS

- First of all, read the "SAFETY PRECAUTIONS" carefully and strictly follow the instruction during the installation work in order to protect yourself.
- The precautionary items mentioned below are distinguished into two levels, ⚠WARNING and ⚠CAUTION .
  ⚠WARNING : Wrong installation would cause serious consequences such as injuries or death.
  ⚠CAUTION : 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 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. ❗
- **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. ❗
- **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.**
  Improper fitting may cause abnormal heat and fire. ❗
- **Do not repair by yourself. And consult with the dealer about repair.**
  Improper repair 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

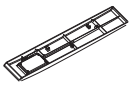
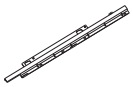
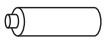
- DO NOT install the wireless kit at the following places in order to avoid malfunction.
  (1) Places exposed to direct sunlight
  (2) Places near heat devices
  (3) High humidity places
  (4) Hot surface or cold surface enough to generate condensation
  (5) Places exposed to oil mist or steam directly
  (6) Uneven surface
  (7) Places affected by the direct airflow of the AC unit.
  (8) Places where the receiver is influenced by the fluorescent lamp (especially inverter type) or sunlight.
  (9) Places where the receiver is affected by infrared rays of any other communication devices
  (10) Places where some object may obstruct the communication with the remote control ⊘
- DO NOT leave the wireless kit without the cover.
  In case the cover needs to be detached, protect the receiver with a packaging box or bag in order to keep it away from water and dust. ⊘

(a) FDTS series (RCN-TS-E)

PJC012D305 A

① Accessory

Check the following items.

Receiver	Bracket	Tapping screw	Tapping screw (White)	Wireless remote control	Remote control holder	Wood screw for holder	AAA dry cell battery (R03)
							
1	1	4	1	1	1	2	2

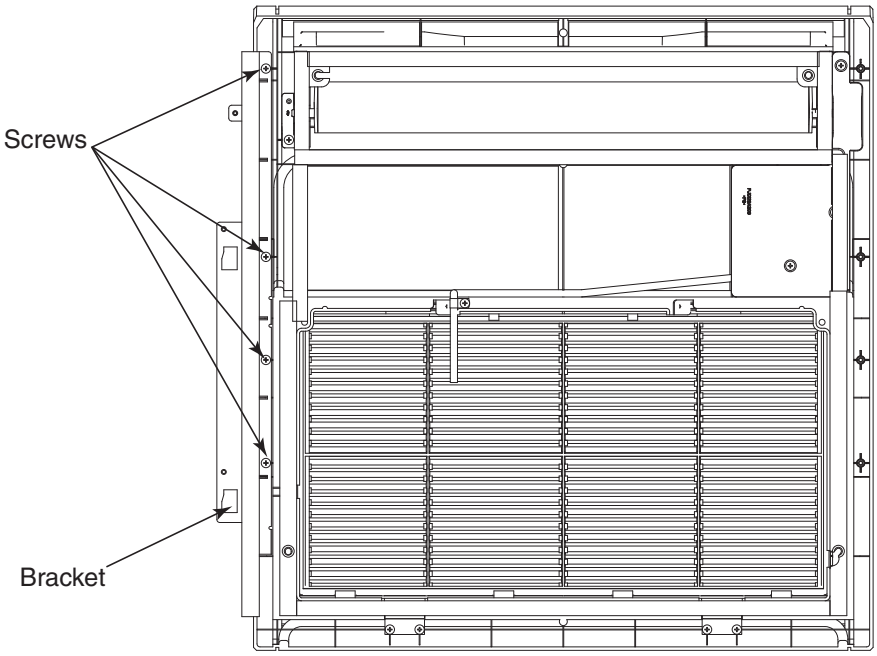
② How to install the receiver

Install the receiver of this wireless kit at the refrigerant pipe side.

Preparation before installation

① Install the bracket on the panel at the refrigerant pipe side with 4 pieces of screw.

② Remove the control box cover on the main unit of air conditioner by unfastening 2 pieces of screw.



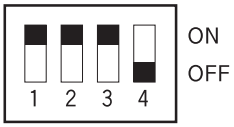
Setting on site

① PCB on the receiver has the following switches to set the functions. Default setting is shown with [ ] mark.

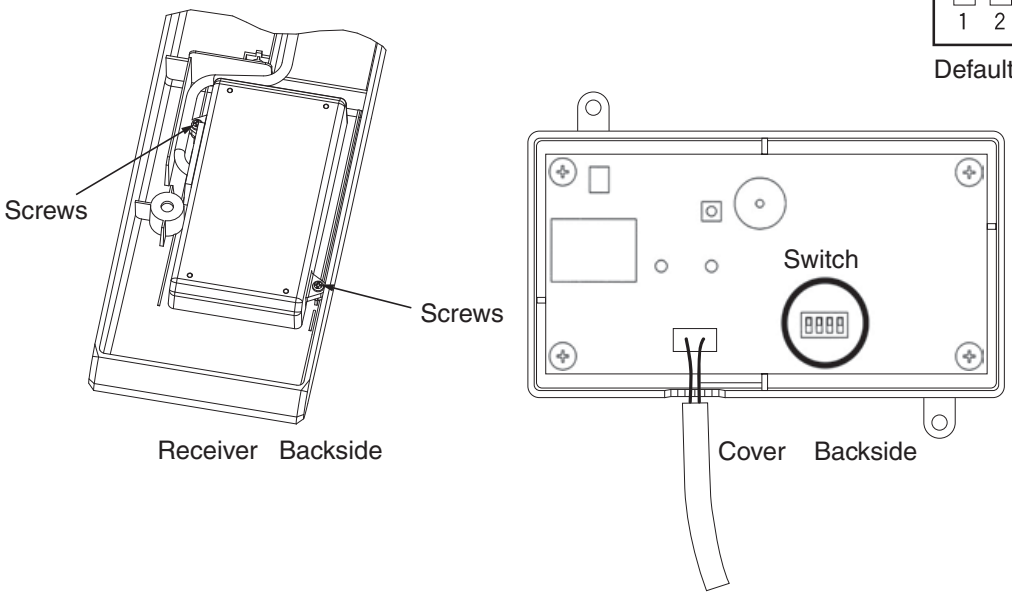
S W 1	Customized signal setting to avoid mixed communication	[ON : Normal] OFF : Remote
S W 2	Receiver master/slave setting	[ON : Master] OFF : Slave
S W 3	Buzzer valid/Invalid	[ON : Valid] OFF : Invalid
S W 4	Auto restart	ON : Valid [OFF : Invalid]

<To change the settings>

② Remove the cover by unscrewing two screws from the back of receiver.
③ Change the setting by the switch on PCB.



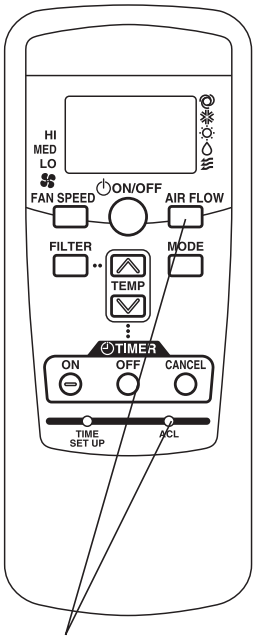
Default settings



④ When SW1 is turned to OFF position, change the corresponding remote control setting as follows:

How to change the remote control setting

Pressing [ACL] switch with [AIR FLOW] button kept pressing or inserting the batteries with pressing [AIR FLOW] button will customize the signal.



Radio interference prevention mode

Note

※ When the batteries are removed, the setting will return to the default setting.
Please make sure to reset it when the batteries are replaced.

Caution

Instruct the customer to set the mentioned above when replacing the batteries.
(How to set is also mentioned in the user's manual attached on the air conditioner.)

Installation of receiver

① Introduce the receiver cable, together with wires arranged at site, into the control box.

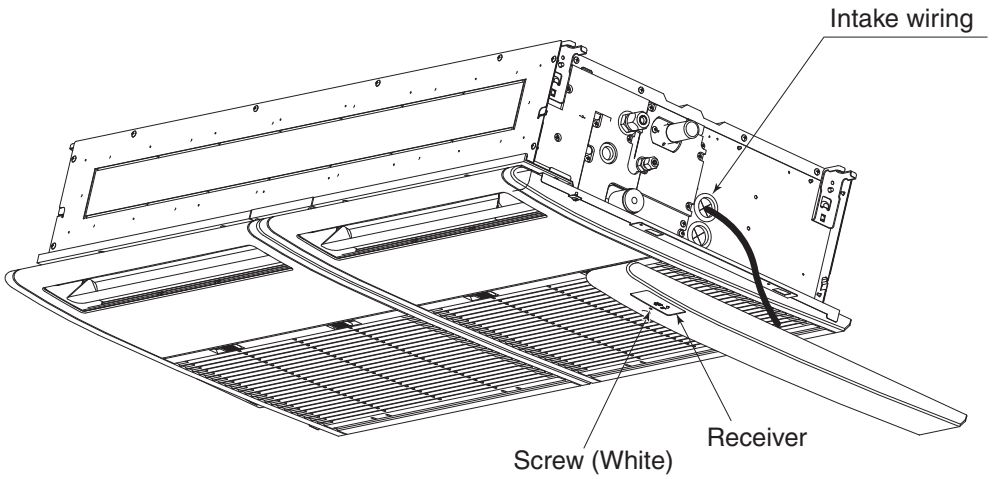
② Connect the wires to the terminal block (X, Y terminals) in the control box. (Non-polar)

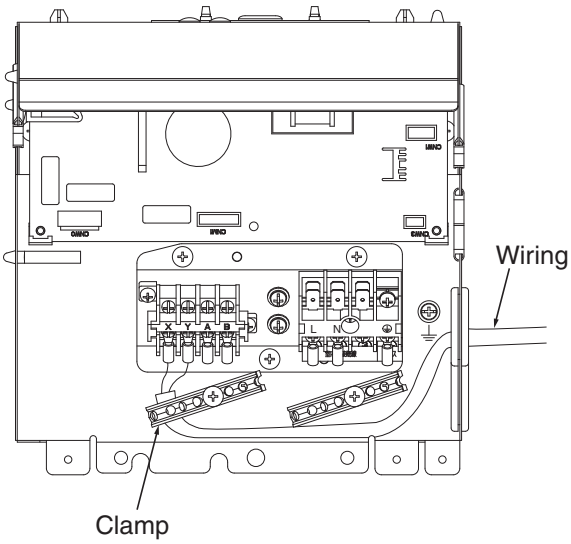
③ Fix the wires with the clamp as shown below.

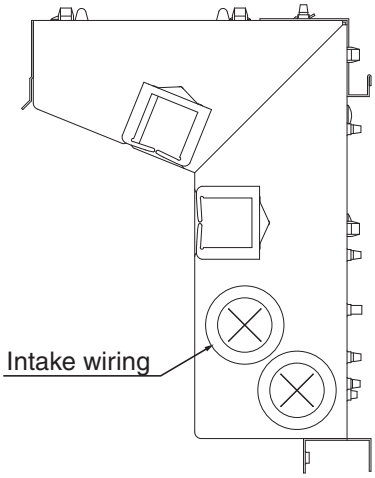
④ Reinstall the control box cover.

⑤ Hook the receiver on the panel and fix with a white screw.

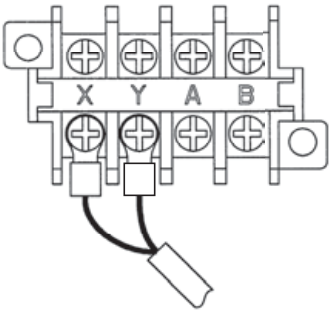
* Caution: Take care not to pinch the wires during installation.







Terminal block (X, Y) in the indoor unit control box

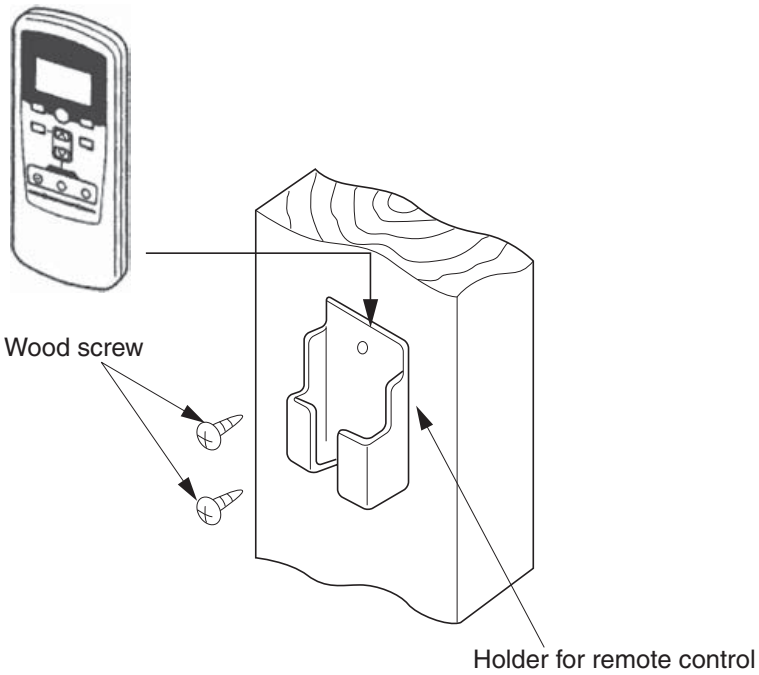


③ Remote control

Installation of the control holder

Caution

DO NOT install it on the following places
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

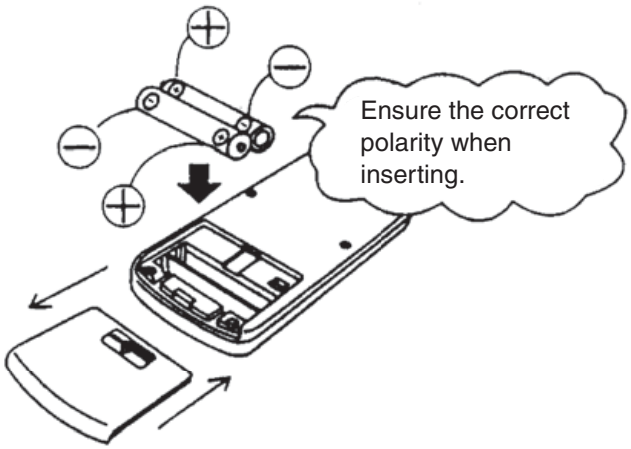


Installation tips for the remote control holder

- Adjust and keep the holder upright
- Tighten the screw to the end to avoid scratching the remote control.
- 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.



Control plural indoor units with one remote control

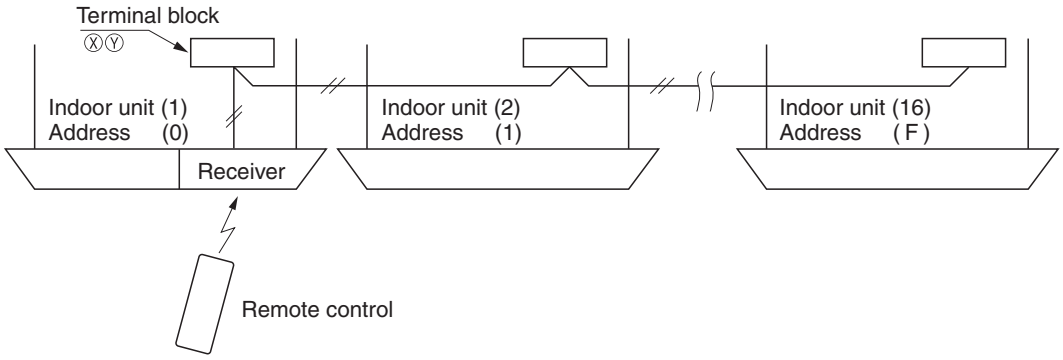
Up to 16 indoor units can be connected.

① Connect the XY terminal with 2-core wire. As for the size, refer to the following note.

② For Single 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 100m x 0.3 mm^2
	Within 200m x 0.5 mm^2
	Within 300m x 0.75mm^2
	Within 400m x 1.25mm^2
	Within 600m x 2.0 mm^2



③ 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.

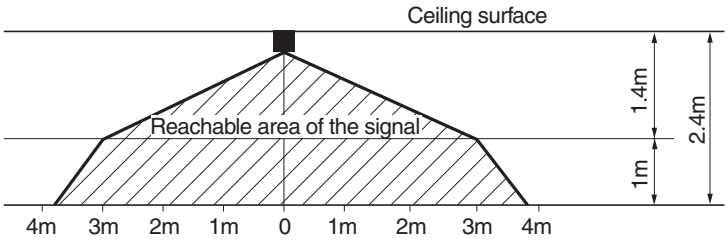
Master/Slave setting when using plural remote controls

Up to two receivers can be installed in one indoor unit group.
When two receivers are used, it is necessary for a receiver to turn OFF SW2 on the receiver PCB to set it as slave.

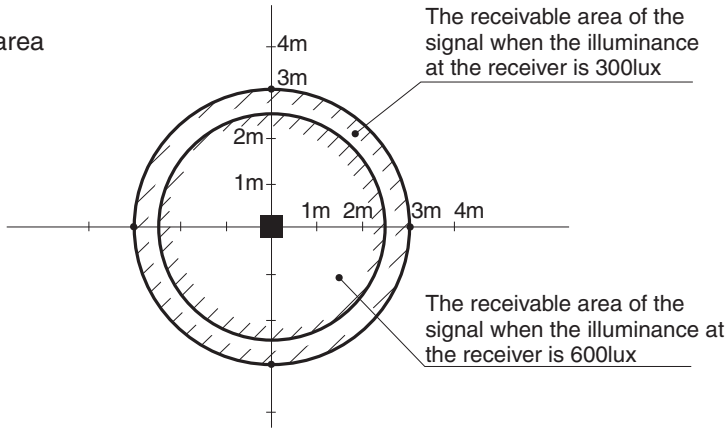
(For the method of switching, please see **Setting on site** in the section of **② How to install the receiver** in this manual.)

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.)



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.



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)

④ How to disable the Auto mode operation

VRF series (except heat recovery 3-pipe systems) cannot be operated in Auto mode.
Make sure to set the remote control for the models so as not to be able to choose Auto mode.

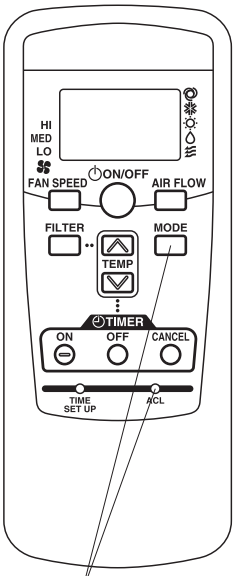
Pressing ACL switch with MODE button kept pressing or inserting the batteries with pressing MODE button will make auto mode operation.

Note

※ When the batteries are removed, the setting will return to the default setting (Auto mode is valid).

Caution

Instruct the customer to set the mentioned above when replacing the batteries. (How to set is also mentioned in the user's manual attached on the air conditioner.)

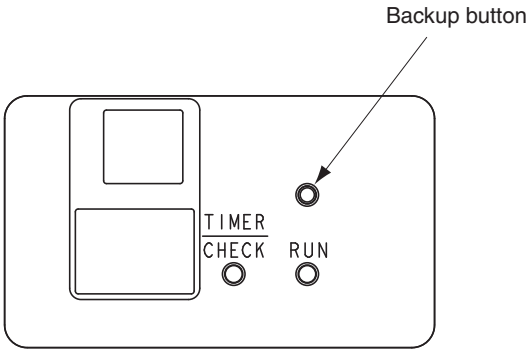


Auto mode operation setting

⑤ Backup button

A Backup button 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 button directly when operating it.

(1) 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 button is pressed when in operation.



⑥ Cooling test run operation

- After safety confirmation, turn on the power.
- Transmit a cooling operation command with wireless remote control, while the backup button on the receiver is pressed.
- If the backup button 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 by consulting with inspection guides on the wiring diagram of outdoor units.

⑦ 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 button 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.

This product is dedicated for heat pump unit. Never install on the unit dedicated for cooling.

PJZ012D060 a

Notes:
Following functions of FDTS, FDU, FDUT Type-F indoor unit series are not able to be set with this wireess remote control (REN-KIT3-E)
1.4-fan speed setting (PHi/Hi/Me/Lo/) → 3-fan speed setting (Hi/Me/Lo)

(b) FDU, FDUT series (RCN-KIT3-E)

(1) Accessories (Confirm the following accessories).

① Light detection adaptor	1
② Wiring (3m)	1
③ Parts set (A)	1
④ Parts set (B)	1
⑤ Parts set (C)	1
⑥ Wireless remote control	1
⑦ User's manual	1

① Screw for receiver	2
② Fixing band	1
③ Clamp	5
④ Screw for clamp	5

① Remote control holder	1
② Screw for holder	2
③ AAA dry cell battery (R03)	2

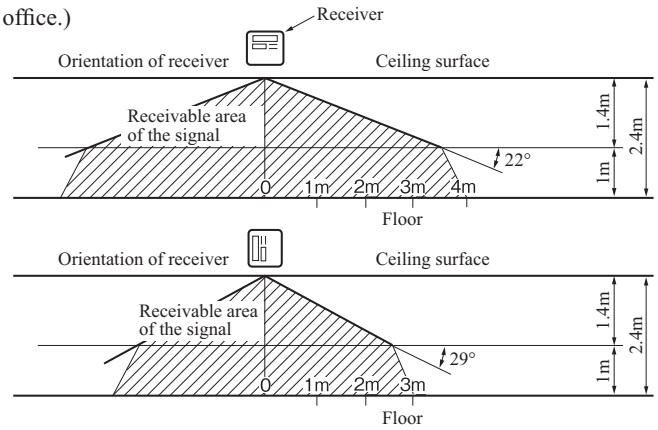
① Receiver installation bracket	1
② Screw for the bracket	2
③ Installation fitting	2

(2) Wireless remote control's operable area

(a) 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.)

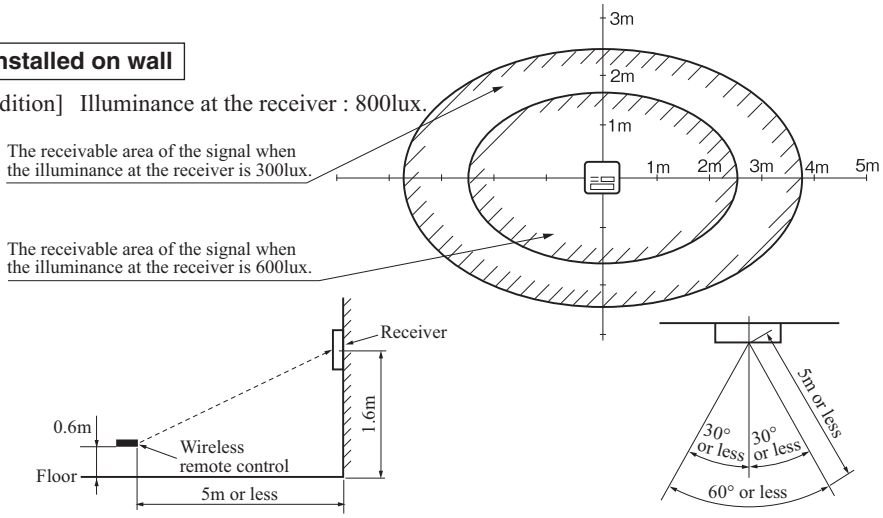


② Correlation between illuminance at the receiver and reachable area of the signal in a plain view.

[Condition] Correlation between the reachable area of the signal and illuminance at the receiver when the remote control is operated at 1.1m high under the condition of ceiling height of 2.5m.
When the illuminance becomes double, the area is narrowed down to two third.

(b) When installed on wall

[Condition] Illuminance at the receiver : 800lux.



(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>

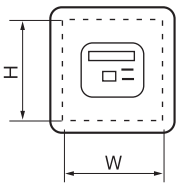
① Direct installation onto the ceiling with wood screws.

② Installation with accessory's bracket

(a) Drilling of the ceiling (ceiling opening)

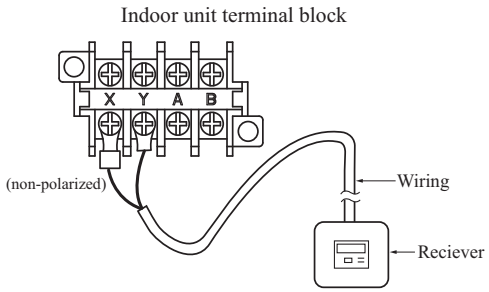
Drill the receiver installation holes with the following dimensions at the ceiling position where wires can be connected.

(A) Direct installation onto the ceiling with wood screws.	88mm (H) × 101mm (W)
(B) Installation with enclosed bracket.	108mm (H) × 108mm (W)



(b) 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.

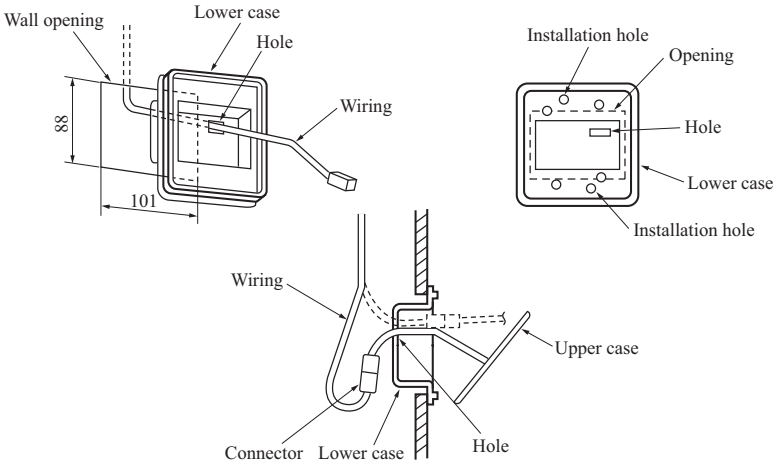


(c) Installation of the receiver

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) or (B) shown below.

(I) 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 above, fix the lower case onto the ceiling with the enclosed wood screws. (The other four holes are not used.)

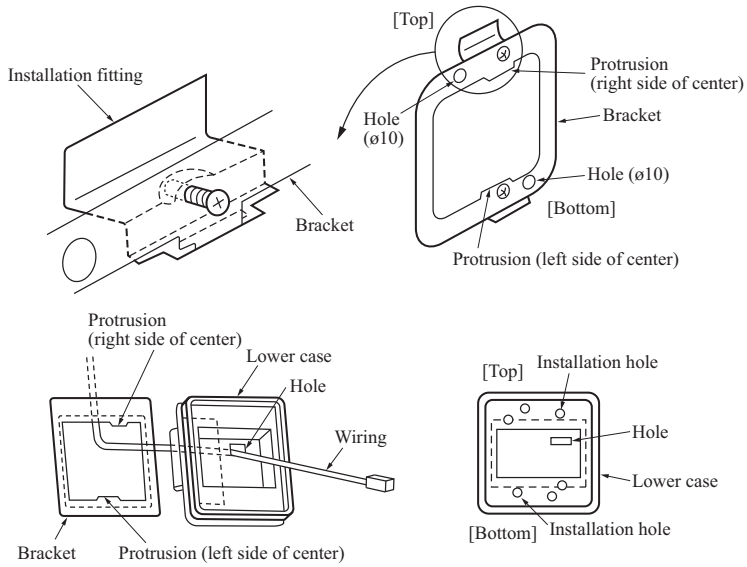
④ Connect the wiring with the wiring from the upper case by the connector.

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.

(Ⅱ) 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 up/down and front/back orientation. Confirm the top/bottom protrusion positions and the positional relation of the ø 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.

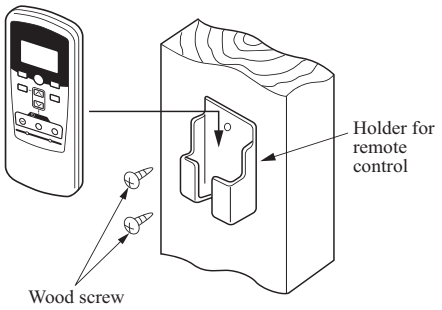
③ Pass the wiring from the rear side through the hole on the lower case.

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.

(4) Remote control

Installation of the control holder



Caution

DO NOT install it on the following places

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

Installation tips for the remote control holder

• Adjust and keep the holder upright.

• Tighten the screw to the end to avoid scratching the remote control.

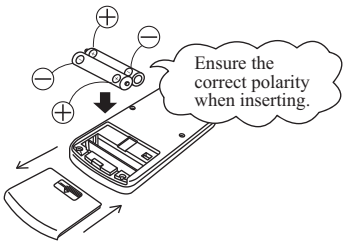
• DO NOT attach the holder to plaster wall.

How to insert batteries

① Detach the back lid.

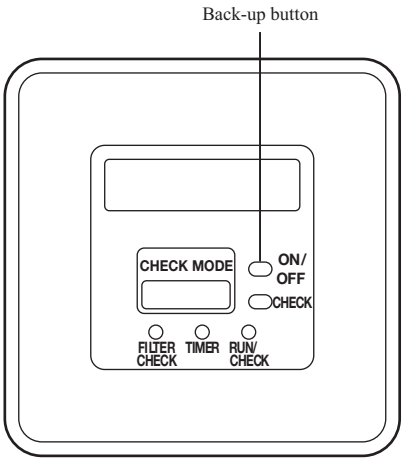
② Insert the batteries. (two AAA batteries)

③ Reattach the back lid.



(5) Cooling test run operation

- After safety confirmation, turn on the power.
- Transmit a cooling operation command with wireless remote control, while the backup button on the receiver is pressed.
- If the backup button 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 by consulting with inspection guides on the wiring diagram of outdoor units.



(6) Setting of wireless remote control and receiver

(I) Methods of avoiding the malfunction due to the mixed communication

Do both procedures ① and ② .

This setting is to avoid the mixed communication with other household electric appliances or the mixed communication when two receivers are located closely.

① **Setting change of the wireless remote control**

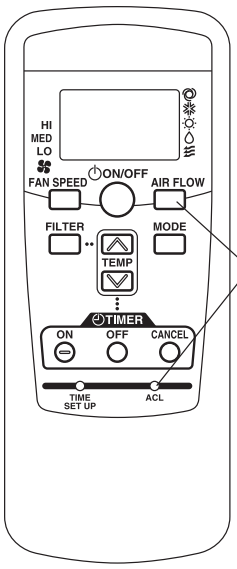
Pressing ACL and AIRFLOW button at the same time or inserting the batteries with pressing AIRFLOW button will customize the signal.

Note *When the batteries are removed, the setting will return to the default setting. Make sure to reset it when the batteries are replaced.

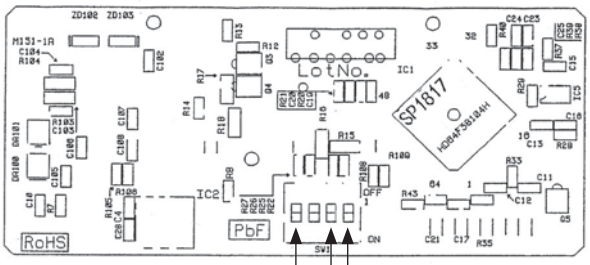
② **Setting the PCB of the receiver**

Turn SW1-1 off.

● **Wireless remote control** ● **PCB of the receiver**



Setting to avoid mixed communication.



SW1-1 (Customized signal setting to avoid mixed communication)

SW1-4 (Auto restart)

SW1-2 (Receiver master/slave setting)

SW1-1	Customized signal setting to avoid mixed communication	ON : Normal OFF: Remote
SW1-2	Receiver master/slave setting	ON : Master OFF: Slave
SW1-4	Auto restart	ON : Valid OFF: Invalid

[ ] : Default setting

(Ⅱ) Control plural indoor units with one remote control

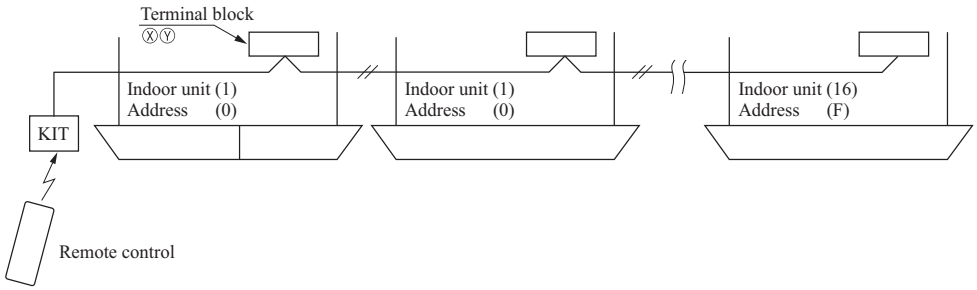
Up to 16 indoor units can be connected.

① Connect the XY terminal with 2-core 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.)

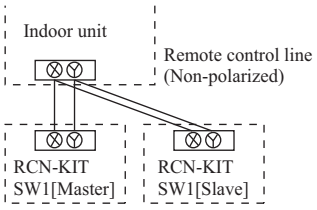
Standard	Within 100m x 0.3 mm^2
	Within 200m x 0.5 mm^2
	Within 300m x 0.75mm^2
	Within 400m x 1.25mm^2
	Within 600m x 2.0 mm^2



③ 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.

(Ⅲ) Master/Slave setting when using plural remote control

Up to two receivers can be installed in one indoor unit group.



Switch	Setting	Function
SW1-2	ON	Master
	OFF	Slave

(Ⅳ) Change setting of auto mode operation

Auto mode operation is prohibited to be selected for KX models (except for KXR models).

Therefore be sure to change setting of remote control to disable the auto mode operation for these models according to the following procedure.

While pressing the MODE button, press the ACL switch, or while pressing the MODE button, insert the batteries to the remote control. Then the auto mode can be invalid.

Attention

When the batteries are removed, it is returned to initial setting (Auto mode becomes valid).

Accordingly when replacing the batteries, be sure to perform the above operation once again.

(Ⅴ) Change setting of fan speed

While pressing the FAN SPEED button, press the ACL switch, or while pressing the FAN SPEED button, insert the batteries to the remote control. Then the fan speed can be changed from 2-speed setting to 3-speed setting.

When changing fan speed setting of remote control, be sure to perform the same fan speed setting as that of the indoor unit model to be used.

Attention

When the batteries are removed, it is returned to initial setting (Fan speed setting is 2-speed).

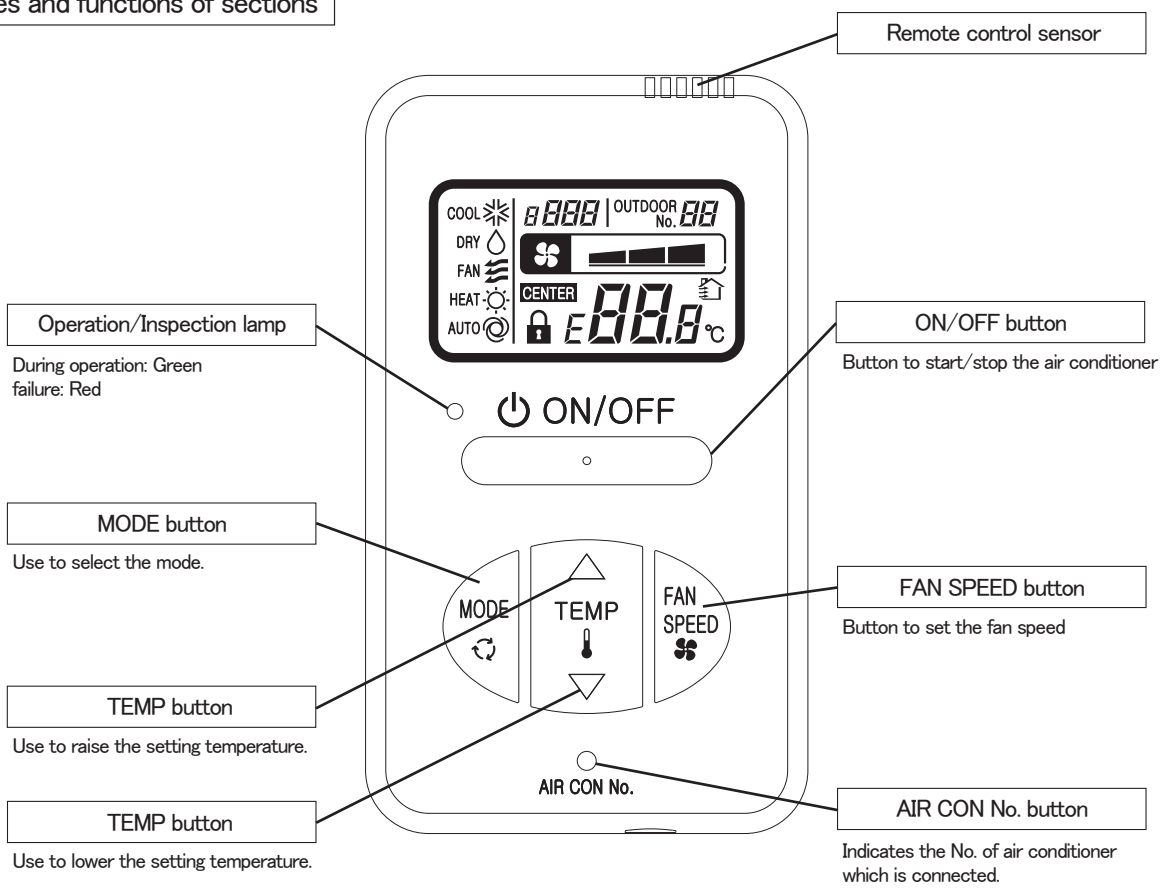
Accordingly when replacing the batteries, be sure to perform the above operation once again.

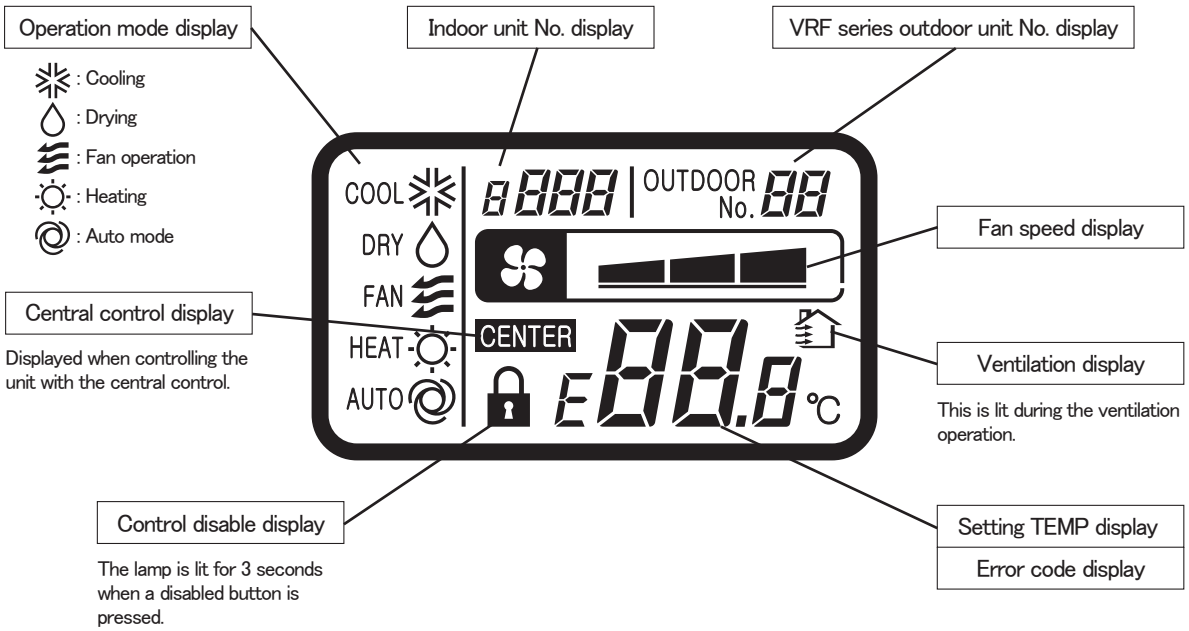
4.2 Simple wired remote control (RCH-E3)

PJZ000Z272

Models RCH-E3

Names and functions of sections



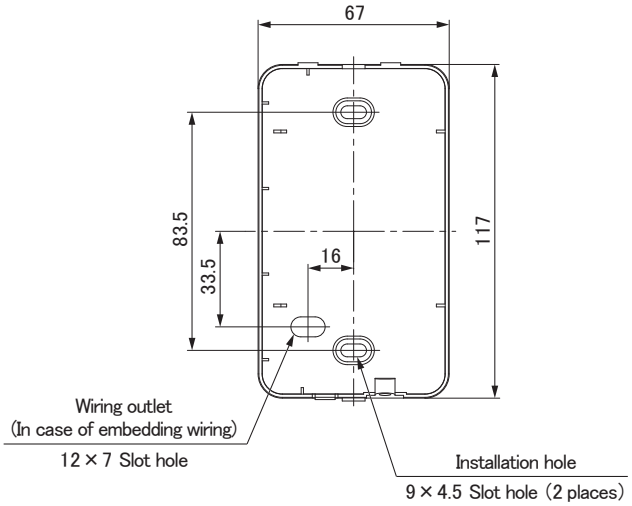


Installation of remote control

DO NOT install the remote control at the following places in order to avoid malfunction.

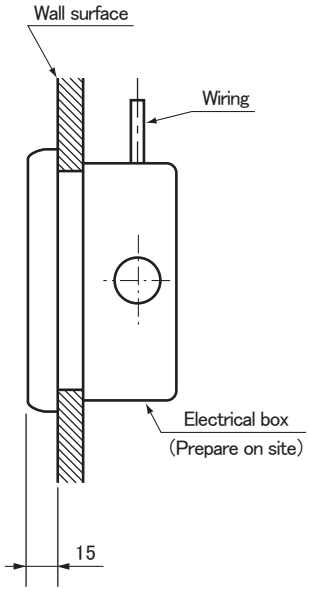
(1) Places exposed to direct sunlight
(2) Places near heat devices
(3) High humidity places
(4) Hot surface or cold surface enough to generate condensation
(5) Places exposed to oil mist or steam directly
(6) Uneven surface

Remote control installation dimensions

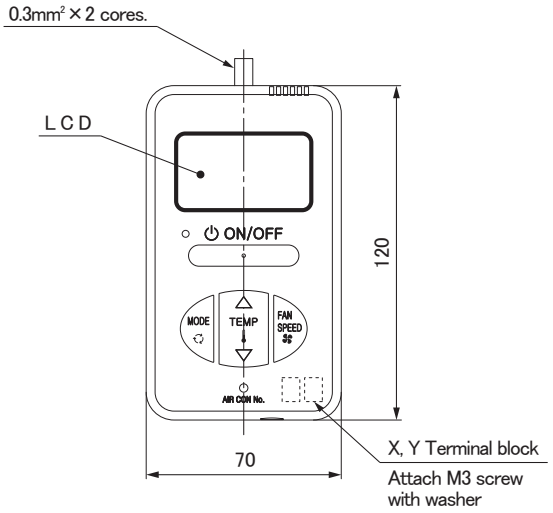


Note: Installation screw for remote control
M4 Screw (2 pieces)

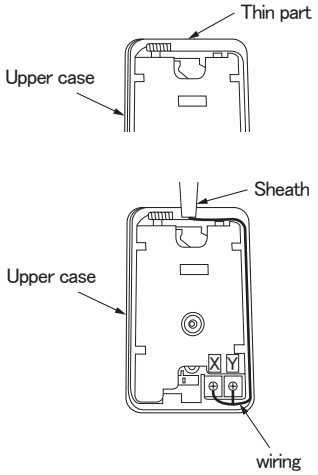
In case of embedding wiring



In case of exposing wiring

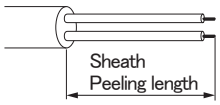


The remote control wiring can be extracted from the upper center.
After the thin part in the upper side of the remote control upper case is scraped with a nipper or knife, remove burr with a file.



The peeling length of each wiring is as follows:

X wiring : 160mm Y wiring : 150mm



Wiring specifications

(1) Wiring of remote control should use 0.3mm² × 2 core 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 0.3mm² (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.

Unit:mm

Length	Wiring thickness
100 to 200m	0.5mm² × 2 cores
Under 300m	0.75mm² × 2 cores
Under 400m	1.25mm² × 2 cores
Under 600m	2.0mm² × 2 cores

Adapted to **RoHS** directive

Simple Remote Control Installation Manual

PJZ012D069

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 supply is turned off when electric wiring work.**
  Otherwise, electric shock, malfunction and improper running may occur.

⚠ CAUTION

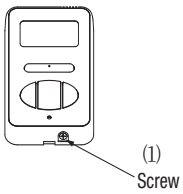
- **DO NOT install the remote control at the following places in order to avoid malfunction.**
  (1) Places exposed to direct sunlight
  (2) Places near heat devices
  (3) High humidity places
  (4) Hot surface or cold surface enough to generate condensation
  (5) Places exposed to oil mist or steam directly
  (6) Uneven surface
- **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 (ϕ3.5×16) 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)

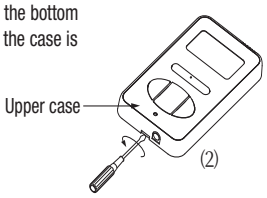
1. Installation procedure

In case of embedding cord

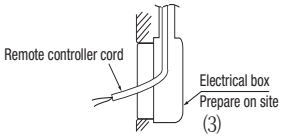
(1) Make certain to remove the screw on the bottom surface of the remote control.



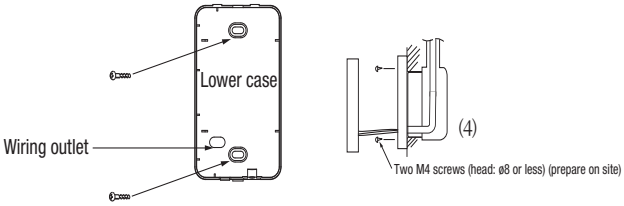
(2) Remove the upper case of the remote control.
Insert a flat-blade screwdriver to a concave portion of the bottom surface of the remote control and slightly twist it, and the case is removed.



(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.

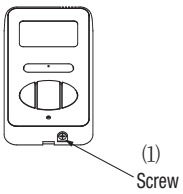


(5) Connect the remote control cord to the terminal block.
Connect the terminals (X and Y) of the remote control and the terminals (X and Y) of the indoor unit. (No polarity of X and Y)

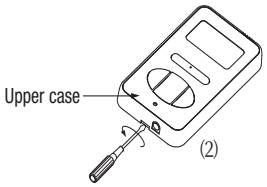
(6) Mount the upper case for restoring to its former state so as not to crimp the remote control cord, and secure with the removed screw.

In case of exposing cord

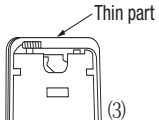
(1) Make certain to remove a screw on the bottom surface of the remote control.



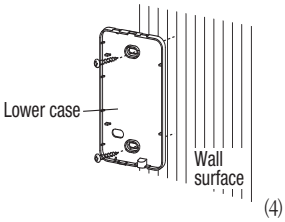
(2) Remove the upper case of the remote control.
Insert a flat-blade screwdriver to a concave portion of the bottom surface of the remote control and slightly twist it, and the case is removed.



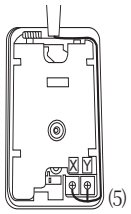
(3) The remote control cord can be extracted from the upper center.
After the thin part in the upper side of the remote control upper case is scraped with a nipper or knife, remove burr with a file.



(4) The lower case of the remote control is mounted to a flat wall with two accessory wood screws.

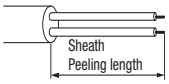


(5) Connect the remote control cord to the terminal block.
Connect the terminals (X and Y) of the remote control and the terminals (X and Y) of the indoor unit. (No polarity of X and Y)
The wiring route is as shown in the right.



The wiring in the remote control case should be 0.3 mm^2 (recommended) to 0.5 mm^2 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.

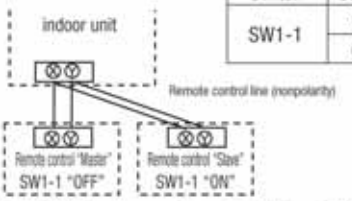
(7) In the case of exposing installation, secure the remote control cord to the wall surface with a cord clamp so as not to loosen the remote control cord.

2. Installation and wiring of remote control

(1) Wiring of remote control should use 0.3mm^2 × 2 core 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 0.3mm^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.
100 - 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

3. Master/ slave setting when more than one remote control are used

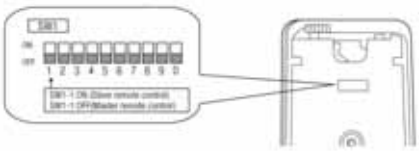
(1) Up to two remote controls can be connected to one unit (or one group) of indoor unit.



Switch	Setting	Function detail
SW1-1	ON	Slave remote control
	OFF	Master remote control

(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 thermistor 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

(1) 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.

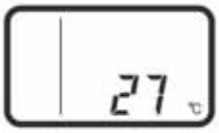
(3) In the case of connecting one remote control with one unit (or one group) of indoor unit, make certain to set the master remote control (factory default).
If the slave remote control is set, a communication cannot be established.

(4) 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.

(1) **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)

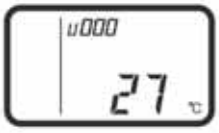


(Note) For the return air temperature, in the normal case, the return air temperature of the indoor unit is displayed; however, in the case that the remote control thermistor is effective, detected temperature by the remote control thermistor is displayed.

(2) **Press ⏻ ON/OFF button.**
End.

[In the case that the remote thermistor 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.

(3) **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").

(4) **Press ⏻ ON/OFF button.**
End.

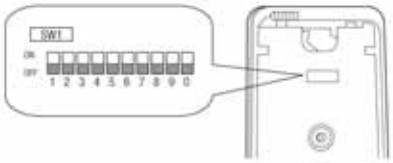
6. Function setting

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 " ○ ", 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	Master remote control	○
SW1-2	ON	Remote control thermistor enabled	
	OFF	Remote control thermistor disabled	○
SW1-3	ON	"MODE" button prohibited	
	OFF	"MODE" button enabled	○
SW1-4	ON	"ON/OFF" button prohibited	
	OFF	"ON/OFF" button enabled	○

Switch No.	Setting	Setting detail	Initial setting
SW1-5	ON	"TEMP" button prohibited	
	OFF	"TEMP" button enabled	○
SW1-6	ON	"FAN SPEED" button prohibited	❊ Note 1
	OFF	"FAN SPEED" button enabled	❊ Note 1
SW1-7	ON	Auto restart function enabled	
	OFF	Auto restart function disabled	○
SW1-8, 9, 0	ON	Not used	
	OFF		



- 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 be enabled.

(2) Function setting item by button operation

Classification	Function No.	Function	Setting No.	Setting	Initial setting	Remarks
Remote control function	01	Indoor unit fan speed	01	Fan speed: three steps	❊ Note 1	The fan speed is three steps, ■■■ · ■■ · ■.
			02	Fan speed: two steps (Hi-Lo)	❊ Note 1	The fan speed is two steps, ■■■ · ■.
			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.
	03	Remote control thermistor at the time of cooling	01	Remote control thermistor: no offset	○	
			02	Remote control thermistor: +3.0 °C		At the time of cooling, in the case of remote control thermistor enabled, offset temperature at +3.0°C.
			03	Remote control thermistor: +2.0 °C		At the time of cooling, in the case of remote control thermistor enabled, offset temperature at +2.0°C.
			04	Remote control thermistor: +1.0 °C		At the time of cooling, in the case of remote control thermistor enabled, offset temperature at +1.0°C.
			05	Remote control thermistor: -1.0 °C		At the time of cooling, in the case of remote control thermistor enabled, offset temperature at -1.0°C.
			06	Remote control thermistor: -2.0 °C		At the time of cooling, in the case of remote control thermistor enabled, offset temperature at -2.0°C.
			07	Remote control thermistor: -3.0 °C		At the time of cooling, in the case of remote control thermistor enabled, offsett temperature at -3.0°C.
	04	Remote control thermistor at the time of heating	01	Remote control thermistor: no offset	○	
			02	Remote control thermistor: +3.0 °C		At the time of heating, in the case of remote control thermistor enabled, offset temperature at +3.0°C.
			03	Remote control thermistor: +2.0 °C		At the time of heating, in the case of remote control thermistor enabled, offset temperature at +2.0°C.
			04	Remote control thermistor: +1.0 °C		At the time of heating, in the case of remote control thermistor enabled, offset temperature at +1.0°C.
			05	Remote control thermistor: -1.0 °C		At the time of heating, in the case of remote control thermistor enabled, offset temperature at -1.0°C.
			06	Remote control thermistor: -2.0 °C		At the time of heating, in the case of remote control thermistor enabled, offset temperature at -2.0°C.
			07	Remote control thermistor: -3.0 °C		At the time of heating, in the case of remote control thermistor enabled, offset temperature at -3.0°C.
	05	Ventilation setting	01	No ventilator connection	○	
			02	Ventilator links air-conditioner		In case of Single split series, by connecting ventilation device to CN7 of the indoor printed circuit board (in case of VRF series, by connecting it to CN0 of the indoor printed circuit board), the operation of ventilation device is linked with the operation of indoor unit.
	06	"Auto" operation setting	01	"Auto" operation enabled	❊ Note 1	
			02	"Auto" operation disabled	❊ Note 1	"Auto" operation disabled
Indoor unit function	07	Operation permission/ prohibition	01	Disabled	○	
			02	Enabled		Operation permission/prohibition control is enabled.
	08	External input	01	Level input	○	
			02	Pulse input		
	09	Fan speed setting	01	Standard	Note2	
			02	High speed 1	Note2	
			03	High speed 2	Note2	
	10	Fan remaining operation at the time of cooling	01	No remaining operation	○	After cooling stopped, no fan remaining operation
			02	0.5 hours		After cooling stopped, fan remaining operation for 0.5 hours
			03	1 hour		After cooling stopped, fan remaining operation for 1 hour
			04	6 hours		After cooling stopped, fan remaining operation for 6 hours
	11	Fan remaining operation at the time of heating	01	No remaining operation	○	After heating stopped or after heating thermostat OFF, no fan remaining operation
			02	0.5 hours		After heating stopped or after heating thermostat OFF, fan remaining operation for 0.5 hours
			03	2 hours		After heating stopped or after heating thermostat OFF, fan remaining operation for 2 hours
			04	6 hours		After heating stopped or after heating thermostat OFF, fan remaining operation for 6 hours
	12	Setting temperature offset at the time of heating	01	No offset	○	
			02	Setting temperature offset + 3.0 °C		The setting temperature at the time of heating is offset by +3.0 °C.
			03	Setting temperature offset + 2.0 °C		The setting temperature at the time of heating is offset by +2.0 °C.
			04	Setting temperature offset + 1.0 °C		The setting temperature at the time of heating is offset by +1.0 °C.
	13	Heating fan control	01	Low fan speed	❊ Note 1	At the time of heating thermostat OFF, operate with low fan speed.
			02	Setting fan speed		At the time of heating thermostat OFF, operate with the setting fan speed.
			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 controller thermistor is enabled, automatically set to "Fan off". Do not set at the time of the indoor unit thermistor.
	14	Return air temperature offset	01	No offset	○	
			02	Return air temperature offset +2.0 °C		Offset the return air temperature of the indoor unit by +2.0 °C.
			03	Return air temperature offset +1.5 °C		Offset the return air temperature of the indoor unit by +1.5 °C.
			04	Return air temperature offset +1.0 °C		Offset the return air temperature of the indoor unit by +1.0 °C.
			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.
			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 determined as follows:

Swith No. Function No.	Function	Setting	Product model
SW1-6	"FAN SPEED" button	"FAN SPEED" button prohibited	Product model whose indoor fan speed is only one step
		"FAN SPEED" button enabled	Product model whose indoor fan speed is two steps or three steps
Remote control function 01	Indoor unit fan speed	Fan speed: three steps	Product model whose indoor unit fan speed is three steps
		Fan speed: two steps (Hi-Lo)	Product model whose indoor unit fan speed is two steps
		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 setting	"Auto" operation enabled	Product model where "Auto" mode is selectable
		"Auto" operation disabled	Product model without "Auto" mode
Indoor unit function 13	Heating fan control	Low fan speed	Product model except FDUS
		Intermittent operation	FDUS

Note 2: Fan speed of "High speed" setting

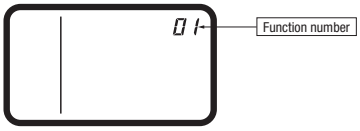
Fan speed setting	Indoor unit fan speed setting		
	■■■ · ■■ · ■	■■■ · ■	■■■ · ■■
Standard	Hi — Mid — Lo	Hi — Lo	Hi — Mid
High speed 1 · 2	UHi — Hi — Mid	UHi — Mid	UHi — Hi

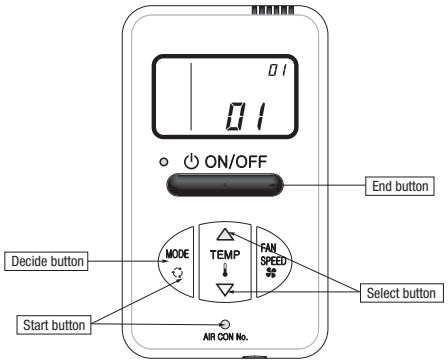
Initial setting of some indoor unit is "High speed".

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-conditioning, and simultaneously press AIR CON NO. and MODE buttons at the same time for over three seconds.**
The function number "01" blinks in the upper right.

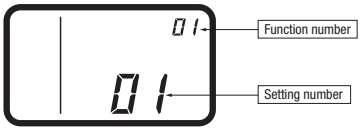




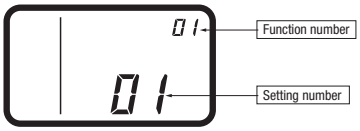
(2) **Press TEMP△ or TEMP▽ button.**
Select the function number.

(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
(Example)
Function number: "01" (lighting)
Setting number: "01" (blinking)

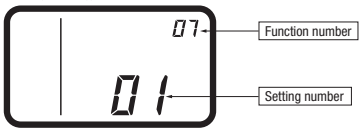


② **Press TEMP△ or TEMP▽ button.**
Select the setting number.
③ **Press MODE button.**
The setting is completed.
Light is on for approximately 3 to 20 seconds while data of the decided function No. and setting No. is transmitted.
(Example)
Function number: "01" (lighting for 3 to 20 seconds)
Setting number: "01" (lighting for 3 to 20 seconds)



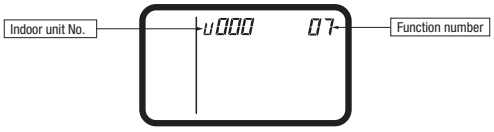
Then, the screen goes back to the function number blinking indication (1), if the setting is sequentially conducted, continue with the same procedures. If the setting is finished, proceed to (5).

[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 is 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.

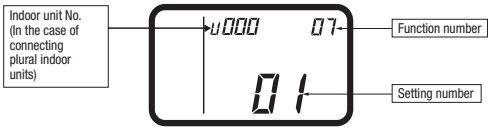
[Note]
a. In the case of connecting one remote control to plural indoor units, the display will be as follows:
Indoor unit No. display: "U 000" (blinking)
(Display the lowest number among the connected indoor units.)



b. Press TEMP△ or TEMP▽ 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 is read)
When AIR CON NO. button is pressed, go back to the indoor unit selection display (for example, "U 000" blinking).

② **Press TEMP△ or TEMP▽ button.**
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 MODE 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.)

VRF INVERTER MULTI-SYSTEM AIR CONDITIONERS

MITSUBISHI HEAVY INDUSTRIES, LTD.

Air-Conditioning & Refrigeration Systems
16-5, Konan 2-chome, Minato-ku, Tokyo, 108-8215 Japan
http://www.mhi.co.jp

Because of our policy of continuous improvement, we reserve the right to make changes in all specifications without notice.
©Copyright MITSUBISHI HEAVY INDUSTRIES, LTD.