Manual No.'19 · SCM-DB-275



# DATA BOOK

# INVERTER MULTI-SPLIT SYSTEM RESIDENTIAL AIR-CONDITIONERS

(Split system, air to air heat pump type)

## **(OUTDOOR UNIT)**

SCM71ZS-W 80ZS-W

## (INDOOR UNIT)

Wall mounted type	Ceiling concealed type	4-way ceiling cassette type
SRK20ZSX-W,-WB,-WT	SRR25ZM-W	FDTC25VH
25ZSX-W,-WB,-WT	35 <b>ZM-W</b>	35VH
35ZSX-W,-WB,-WT	50ZS-W	50VH
50ZSX-W,-WB,-WT	60ZS-W	60VH
60ZSX-W,-WB,-WT		
SRK20ZS-W,-WB,-WT	Ceiling suspended type	)
25ZS-W,-WB,-WT	FDE50VH	
35ZS-W,-WB,-WT		
50ZS-W,-WB,-WT		
SRK71ZR-W		
Duct connected-Low/N FDUM50VH	/liddle static pressure t	уре

MITSUBISHI HEAVY INDUSTRIES THERMAL SYSTEMS, LTD.

## CONTENTS

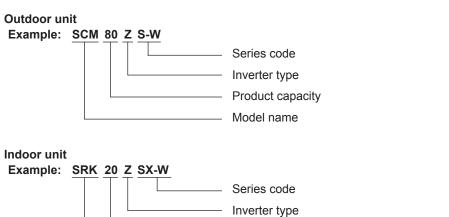
1. OU1	DOOR UNITS	4
1.1 \$	Specifications	4
1.2 E	Exterior dimensions	6
1.3 E	Electrical wiring	7
1.4 M	Noise level	8
1.5	Application data	11
2. IND	OOR UNITS	15
2.1 \$	Specifications	
(1)	Wall mounted type (SRK)	15
(2)	Ceiling concealed type (SRR)	
(3)	4-way ceiling cassette type (FDTC)	29
(4)	Duct connected-Low/Middle static pressure type (FDUM)	33
(5)	Ceiling suspended type (FDE)	
2.2 E	Exterior dimensions	35
(1)	Wall mounted type (SRK)	35
(2)	Ceiling concealed type (SRR)	
(3)	4-way ceiling cassette type (FDTC)	40
(4)	Duct connected-Low/Middle static pressure type (FDUM)	41
(5)	Ceiling suspended type (FDE)	
(6)	Remote control	
2.3 E	Electrical wiring	46
. ,	Wall mounted type (SRK)	
(2)	Ceiling concealed type (SRR)	49
(3)	4-way ceiling cassette type (FDTC)	50
(4)	Duct connected-Low/Middle static pressure type (FDUM)	51
(5)	Ceiling suspended type (FDE)	52
2.4	Noise level	53
(1)	Wall mounted type (SRK)	
(2)	Ceiling concealed type (SRR)	
(3)	4-way ceiling cassette type (FDTC)	
(4)	Duct connected-Low/Middle static pressure type (FDUM)	
(5)	Ceiling suspended type (FDE)	
2.5 (	Characteristics of fan1	110

2	2.6	Application data	112
	(1)	) Wall mounted type (SRK)	112
	(2)	) Ceiling concealed type (SRR)	124
	(3)	) 4-way ceiling cassette type (FDTC)	128
	(4)	) Duct connected-Low/Middle static pressure type (FDUM)	136
	(5)	) Ceiling suspended type (FDE)	142
	(6)	) Electric wiring work installation	146
3.	PIF	PING SYSTEM	150
4.	RA	ANGE OF USAGE & LIMITATIONS	151
5.	TA	BLE OF INDOOR UNIT COMBINATIONS	152
	(1)	) Model SCM71ZS-W	152
	(2)		
6.	SE	LECTION CHARTS	166
7.	TAE	BLE OF FUNCTIONS CONNECTED WIRED REMOTE CONTROL (RC-E5)	167
8.	OP	PTION PARTS	168
8	8.1	Wired remote control	168
8	3.2	Simple wired remote control (RCH-E3)	180
8	3.3	Wireless kit	186
8	8.4	Motion sensor kit	210
8	8.5	Interface kit (SC-BIKN2-E)	226
8	8.6	Superlink E board (SC-ADNA-E)	230
8	8.7	Ceiling concealed type (SRR) option parts	232
8	8.8	OA spacer (FDTC only)	235
8	8.9	Duct joint (FDTC only)	239
8.	10	Filter kit (FDUM only)	240
9.	ΤE	CHNICAL INFORMATION	242
	(1)	) Model SCM71ZS-W	242
	(2)	) Model SCM80ZS-W	248

## ■ Table of models

Model	20	25	35	50	60	71
Wall mounted type (SRK ** ZSX-W)	0	0	0	0	0	
Wall mounted type (SRK ** ZS-W)	0	0	0	0		
Wall mounted type (SRK ** ZR-W)						0
Ceiling concealed type (SRR)		0	0	0	0	
4-way ceiling cassette type (FDTC)		0	0	0	0	
Duct connected-Low/Middle static pressure type (FDUM)				0		
Ceiling suspended type (FDE)				0		
Outdoor unit to be combined (SCM)	SCM71ZS-V	V, 80ZS-W				

## ■ How to read the model name



Product capacity Model name ſ

SRK

: Wall mounted type SRR : Ceiling concealed type FDTC : 4-way ceiling cassette type

pressure type FDE : Ceiling suspended type

FDUM : Duct connected-Low/Middle static

# **1. OUTDOOR UNITS**

## 1.1 Specifications

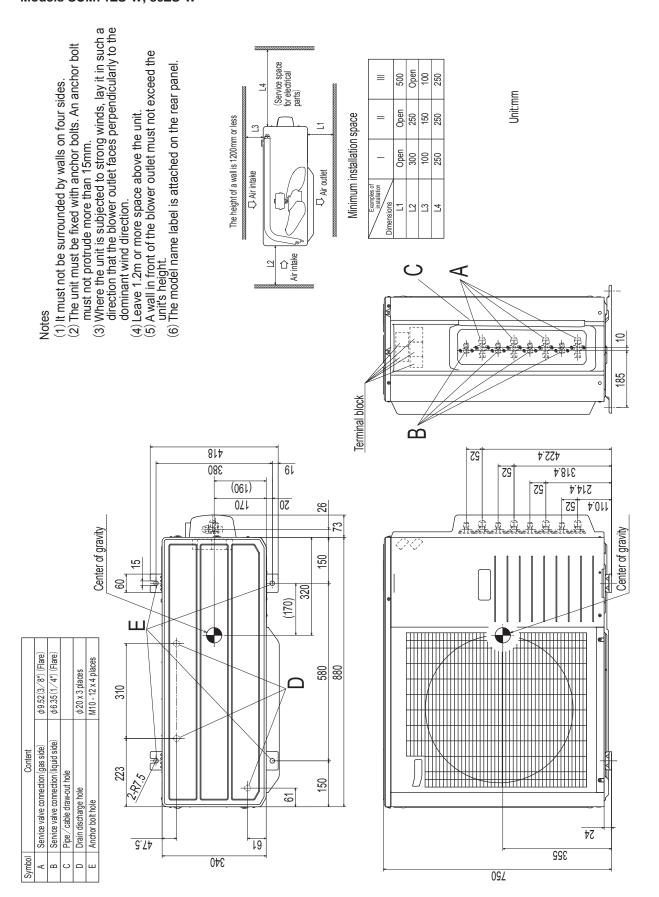
		Mode	1		SCM71ZS-W	
				~	400 ( 4000 (Mire ) = 0000 (Mare ))	
acity (1)		W			100 ( 1800 (Min.) - 8800 (Max.))	
acity (1)		W		86	600 ( 1100 (Min.) - 9400 (Max.))	
		W				
e				1 Pha	se, 220 - 240 V, 50Hz/ 220V, 60Hz	
					1.42 ( 0.48 - 2.75 )	
Power consumption					1.75 ( 0.35 - 3.00 )	
	Heating	(H2)			—	
Bunning current	Cooling			6	6.5 / 6.2 / 6.0 (220/ 230/ 240 V)	
	Heating	A		8	3.1 / 7.8 / 7.4 (220/ 230/ 240 V)	
Inrush current, max cur	rent				5.0 Max. 20	
EER	Cooling			5.00		
000	Heating				4.91	
COP	Heating	(H2)			_	
	Cooling				63	
Sound power level	Heating				67	
					50	
Sound pressure level		dB(A)			54	
					45	
Silent mode					50	
ensions (Height v Midth v			+		750 x 880(+73) x 340	
	Depuiy		+		Stucco white	
				(	4.2Y 7.5/1.1 ) near equivalent	
		ka		(	61	
Compressor type & OH	V	r.y		DM	5118SBP2 (Twin rotary type ) x 1	
		LW.			1.4 ( Line starting )	
	)			0.0		
					075 ( DIAMOND FREEZE MB75 )	
		кд	-		re-Charged up to the piping length of 30m )	
					M fins & inner grooved tubing	
			Capillary tubes + Electronic expansion valve			
				Microcomputer control		
Fan type & Q'ty					Propeller fan x 1	
Motor		W	W 86			
Air flow	Cooling	m <sup>3</sup> /mir			50.0	
	Heating		1	56.0		
ration absorber				Cu	ushion rubber ( for compressor )	
er					-	
es			Compressor overheat protection, Overcurrent protection, Frost protection, Serial signal error protection, Outdoor fan motor error Heating & Cooling overload protection		nal error protection, Outdoor fan motor error protection,	
			Liquid line: $\phi$ 6.35 (1/4") × 4			
Refrigerant piping size	( O.D )	mm	$\begin{array}{c} Liquid line: \phi 6.35 (1/4") \times 4 \\ \hline \\ Gas line: \phi 9.52 (3/8") \times 4 \end{array}$			
Connecting method					Flare connecting	
				Noo		
	unit.		Necessary (Both sides), independent			
				Max. 25		
		m	Max. 70			
					ax. 20 ( Outdoor unit is higher ) lax. 20 ( Outdoor unit is lower )	
				IV	Max. 25	
			+		25	
1		A		1 E		
					n <sup>2</sup> x 4 cores (Including earth cable)	
Connecting method				ler	minal block (Screw fixing type)	
P number					IPX4	
Accessories (included)					tallation sheet, Elbow, Grommet	
(included)				SKK	(20,25,35,50,60ZSX-W(-WB,-WT)	
(included) o be combined				SF	RK20,25,35,50ZS-W(-WB,-WT) RF71ZR-W,FDTC25,35,50,60VH RR25,35ZM-W,SRR50,60ZS-W	
o be combined				SF	RK71ZR-W,FDTC25,35,50,60VH	
				SF	RK71ZR-W,FDTC25,35,50,60VH RR25,35ZM-W,SRR50,60ZS-W FDE50VH,FDUM50VH Max. 2 - Max. 4	
o be combined		kW		SF	RK71ZR-W,FDTC25,35,50,60VH RR25,35ZM-W,SRR50,60ZS-W FDE50VH,FDUM50VH	
o be combined	ed at the followin	I		SF	RK71ZR-W,FDTC25,35,50,60VH RR25,35ZM-W,SRR50,60ZS-W FDE50VH,FDUM50VH Max. 2 - Max. 4	
o be combined connectable indoor units or units 1) The data are measure		g conditions		SF SF The pipe	RK71ZR-W,FDTC25,35,50,60VH RR25,35ZM-W,SRR50,60ZS-W FDE50VH,FDUM50VH Max. 2 - Max. 4 Max. 12.5	
o be combined connectable indoor units or units 1) The data are measure Item	Indoor air terr	g conditions. perature	Outdoor air	SF Sf The pipe temperature	RK71ZR-W,FDTC25,35,50,60VH RR25,35ZM-W,SRR50,60ZS-W FDE50VH,FDUM50VH Max. 2 - Max. 4 Max. 12.5	
o be combined connectable indoor units or units 1) The data are measure Item	Indoor air tem DB	g conditions perature WB	Outdoor air DB	SF Sf The pipe temperature WB	RK71ZR-W,FDTC25,35,50,60VH RR25,35ZM-W,SRR50,60ZS-W FDE50VH,FDUM50VH Max. 2 - Max. 4 Max. 12.5 Plength for one indoor unit is 5m. Standards	
o be combined connectable indoor units or units 1) The data are measure Operation Cooling	Indoor air tem DB 27°C	g conditions perature WB 19°C	Outdoor air DB 35°C	SF Sf The pipe temperature WB 24°C	RK71ZR-W,FDTC25,35,50,60VH           RR25,35ZM-W,SRR50,60ZS-W           FDE50VH,FDUM50VH           Max. 2 - Max. 4           Max. 12.5           Plength for one indoor unit is 5m.           Standards           ISO15042-T1	
o be combined connectable indoor units or units 1) The data are measure Operation Cooling Heating	Indoor air tem DB 27°C 20°C	g conditions perature WB	Outdoor air DB 35°C 7°C	SF Sf The pipe temperature WB 24°C 6°C	RK71ZR-W,FDTC25,35,50,60VH         RR25,35ZM-W,SRR50,60ZS-W         FDE50VH,FDUM50VH         Max. 2 - Max. 4         Max. 12.5         elength for one indoor unit is 5m.         Standards         ISO15042-T1         ISO15042-H1	
o be combined connectable indoor units or units 1) The data are measure Operation Cooling	Indoor air tem DB 27°C 20°C 20°C	g conditions perature WB 19°C — —	Outdoor air DB 35°C 7°C 2°C	The pipe temperature WB 24°C 6°C 1°C	RK71ZR-W,FDTC25,35,50,60VH         RR25,35ZM-W,SRR50,60ZS-W         FDE50VH,FDUM50VH         Max. 2 - Max. 4         Max. 12.5         elength for one indoor unit is 5m.         Standards         ISO15042-T1	
	acity (H2) e Power consumption Running current Inrush current, max cur EER COP Sound power level Sound pressure level Silent mode ensions (Height x Width > earance or) Compressor type & Q't Motor (Starting method Refrigerant oil Refrigerant control Device control Fan type & Q'ty Motor Air flow ration absorber er es Refrigerant piping size Connecting method Insulation for piping Length for one indoor u Vertical height difference outdoor unit and indoo	acity (H2)         ee         Power consumption         Heating         Running current         EER         COOling         Inrush current, max current         EER       Cooling         COP       Heating         Sound power level       Cooling         Sound pressure level       Cooling         Sound pressure level       Cooling         Battering       Cooling         Sound pressure level       Cooling         Battering       Cooling         Battering       Cooling         Heating       Cooling         Battering       Cooling         Heating       Cooling         Battering       Cooling         Heating       Cooling         Heating       Cooling         Heating       Cooling         Heating       Cooling         Refrigerant coll       Refrigerant oil         Refrigerant oil       Refrigerant control         Device control       Fan type & Q'ty         Motor       Air flow         Air flow       Cooling         Heating       Cooling         Length for one indoor unit       Total l	acity (H2)       W         re       Cooling         Power consumption       Heating         Heating (H2)       KW         Running current       Cooling         Inrush current, max current       EER         COP       Heating         COP       Heating         COP       Heating         Sound power level       Cooling         Heating       Cooling         Heating       Cooling         Sound pressure level       Cooling         Heating       Cooling         Bilent mode       Cooling         erance       Cooling         rheating       Kg         Compressor type & Q'ty       Motor (Starting method)         Refrigerant oil       ℓ         Refrigerant (4)       kg         Heat exchanger       Pating         Refrigerant control       Device control         Fan type & Q'ty       Motor         Motor       W         Air flow       Cooling         Refrigerant piping size ( O.D )       mm         Connecting method       Insulation for piping         Length for one indoor unit       Total length for all rooms         Vertical height di	active (H2)       W         Power consumption       Cooling Heating       kW         Power consumption       Cooling Heating (H2)       KW         Running current       Cooling Heating       A         Inrush current, max current       Heating       A         EER       Cooling Heating       A         COP       Heating       Cooling Heating         Sound power level       Cooling Heating       A         Silent mode       Cooling Heating       A         Silent mode       Cooling Heating       A         Compressor type & Q'ty       mm         Refrigerant oil       &         Refrigerant control       Kg         Device control       Fan type & Q'ty         Motor       W         Air flow       Cooling Heating         aration absorber       Image         er       Er         Refrigerant piping size ( O.D )       mm         Refrigerant piping size ( O.D )       mm         Connecting method       Insulation for piping         Length for all nooms       W         Vertical height difference between outdoor unit and indoor unit       m         Insulation for piping       Im         Length fo	acity (H2)       W       1 Pha         Power consumption       Heating       KW         Running current       Cooling       KW         Inrush current, max current       Heating       A         EER       Cooling       A         COP       Heating       Cooling         COP       Heating       Cooling         Sound power level       Cooling       A         Silent mode       Cooling       A         Silent mode       Cooling       A         Silent mode       Cooling       A         Gompressore level       Heating       A         Heating       A       B(A)         Silent mode       Cooling       A         Gompressor type & Q'ty       Mm       A         Motor (Starting method)       KW       RM         Perfigerant oil       & & & 0.6         Refrigerant oil       & & & 0.6         Refrigerant oil       & & & 0.6         Fan type & Q'ty       Motor         Motor       W       Cooling         Air flow       Cooling       m <sup>6</sup> /min         Coonneeting method       Cooling       Frost protection, Serial sig         Fan type & Q'ty	

(Purging is not required even for the short piping.)

Item			Model		SCM80ZS-W	
Cooling capa	acity (1)		W		8000 ( 1800 (Min.) - 9200 (Max.))	
Heating capa			W		9300 ( 1100 (Min.) - 9800 (Max.))	
Heating capa			W			
Power sourc			~~~	1	Phase, 220 - 240 V, 50Hz/ 220V, 60Hz	
Power sourc		Cooling	+	11		
	Dower concurrention	Cooling	kW		<u>1.70 (0.48 - 2.83)</u> <u>1.95 (0.35 - 3.12)</u>	
	Power consumption	Heating			1.95 ( 0.55 - 5.12 )	
		Heating (H2)	+		-	
	Running current	Cooling			7.8 / 7.5 / 7.2 (220/ 230/ 240 V)	
		Heating	A		9.0 / 8.6 / 8.2 (220/ 230/ 240 V)	
	Inrush current, max curren				5.0 Max. 20	
Operation	EER	Cooling			4.71	
data (1)	COP	Heating			4.77	
data (I)	001	Heating (H2)			_	
	Sound power level	Cooling	dB		66	
	Sound power level	Heating			67	
		Cooling			54	
	Sound pressure level	Heating	1 .		54	
		Cooling	dB(A)		46	
	Silent mode	Heating	1		50	
Exterior dim	ensions (Height x Width x De	-	mm		750 x 880(+73) x 340	
	( 0	·Pu1)	+		Stucco white	
Exterior app (Munsell cold					(4.2Y 7.5/1.1) near equivalent	
Net weight			ka		(4.217.5/1.1) hear equivalent	
wer weight	Comprocess true = 0.01		kg			
	Compressor type & Q'ty			R	MT5118SBP2 (Twin rotary type) x 1	
	Motor (Starting method)		kW		1.4 (Line starting)	
Refrigerant	Refrigerant oil		l		0.675 ( DIAMOND FREEZE MB75 )	
equipment	Refrigerant (4)		kg	R32 2.55	(Pre-Charged up to the piping length of 30m)	
	Heat exchanger	Heat exchanger		M fins & inner grooved tubing		
	Refrigerant control			Capillary tubes + Electronic expansion valve		
	Device control	Device control		Microcomputer control		
	Fan type & Q'ty				Propeller fan x 1	
Air handling	Motor		w		86	
equipment		Cooling		56.0		
	Air flow	Heating	m³/min	56.0		
Shock & vibr	ration absorber	Ticating	+	Cushion rubber ( for compressor )		
Electric heat			+			
Safety devic				Compressor overheat protection, Overcurrent protection, Frost protection, Serial signal error protection, Outdoor fan motor error pro Heating & Cooling overload protection		
	Refrigerant piping size ( O	D)	mm	Liquid line: φ 6.35 (1/4") × 4 Gas line: φ 9.52 (3/8") × 4		
	L		+	Flare connecting		
	Connecting method			5		
	Connecting method		1 1	Necessary (Both sides), independent		
	Insulation for piping			N		
	Insulation for piping Length for one indoor unit			N	Max. 25	
	Insulation for piping Length for one indoor unit Total length for all rooms			N	Max. 25 Max. 70	
	Insulation for piping Length for one indoor unit Total length for all rooms Vertical height difference b		m	N	Max. 25 Max. 70 Max. 20 (Outdoor unit is higher )	
	Insulation for piping Length for one indoor unit Total length for all rooms Vertical height difference b outdoor unit and indoor un	nit		N	Max. 25 Max. 70 Max. 20 (Outdoor unit is higher) Max. 20 (Outdoor unit is lower)	
data	Insulation for piping Length for one indoor unit Total length for all rooms Vertical height difference b outdoor unit and indoor un Height difference of the ind	nit	-	N	Max. 25 Max. 70 Max. 20 (Outdoor unit is higher) Max. 20 (Outdoor unit is lower) Max. 25	
data Recommenc	Insulation for piping Length for one indoor unit Total length for all rooms Vertical height difference b outdoor unit and indoor un Height difference of the ind led breaker size	nit	m		Max. 25 Max. 70 Max. 20 (Outdoor unit is higher) Max. 20 (Outdoor unit is lower) Max. 25 25	
data Recommenc Connection	Insulation for piping Length for one indoor unit Total length for all rooms Vertical height difference b outdoor unit and indoor un Height difference of the ind led breaker size Size x Core number	nit	-	1.5	Max. 25 Max. 70 Max. 20 (Outdoor unit is higher ) Max. 20 (Outdoor unit is lower ) Max. 25 25 mm <sup>2</sup> x 4 cores ( Including earth cable )	
data Recommenc Connection wiring	Insulation for piping Length for one indoor unit Total length for all rooms Vertical height difference b outdoor unit and indoor un Height difference of the ind led breaker size	nit	-	1.5	Max. 25 Max. 70 Max. 20 (Outdoor unit is higher ) Max. 20 (Outdoor unit is lower ) Max. 25 25 mm <sup>2</sup> x 4 cores ( Including earth cable ) Terminal block ( Screw fixing type )	
data Recommenc Connection wiring	Insulation for piping Length for one indoor unit Total length for all rooms Vertical height difference b outdoor unit and indoor un Height difference of the ind led breaker size Size x Core number	nit	-	1.5	Max. 25 Max. 70 Max. 20 (Outdoor unit is higher ) Max. 20 (Outdoor unit is lower ) Max. 25 25 mm <sup>2</sup> x 4 cores ( Including earth cable )	
data Recommenc Connection wiring IP number	Insulation for piping Length for one indoor unit Total length for all rooms Vertical height difference b outdoor unit and indoor un Height difference of the ind ded breaker size Size x Core number Connecting method	nit	-	1.5	Max. 25 Max. 70 Max. 20 (Outdoor unit is higher ) Max. 20 (Outdoor unit is lower ) Max. 25 25 mm <sup>2</sup> x 4 cores ( Including earth cable ) Terminal block ( Screw fixing type ) IPX4 Installation sheet, Elbow, Grommet	
data Recommenc Connection wiring IP number Accessories Indoor unit te	Insulation for piping Length for one indoor unit Total length for all rooms Vertical height difference b outdoor unit and indoor ur Height difference of the ind led breaker size Size x Core number Connecting method (included)	nit	-	1.5	Max. 25 Max. 70 Max. 20 (Outdoor unit is higher ) Max. 20 (Outdoor unit is lower ) Max. 25 25 mm <sup>2</sup> x 4 cores (Including earth cable ) Terminal block (Screw fixing type ) IPX4 Installation sheet, Elbow, Grommet RK20,25,35,50,602SX-W(-WB,-WT) SRK71ZR-W,FDTC25,35,50,60VH SRR25,35ZM-W,SRR50,60ZS-W FDE50VH,FDUM50VH	
data Recommence Connection wiring IP number Accessories Indoor unit to Number of c	Insulation for piping Length for one indoor unit Total length for all rooms Vertical height difference b outdoor unit and indoor ur Height difference of the ind ded breaker size Size x Core number Connecting method (included)	nit	A	1.5	Max. 25 Max. 70 Max. 20 (Outdoor unit is higher ) Max. 20 (Outdoor unit is lower ) Max. 25 25 mm <sup>2</sup> x 4 cores (Including earth cable ) Terminal block (Screw fixing type ) IPX4 Installation sheet, Elbow, Grommet RK20,25,35,50,602SX-W(-WB,-WT) SRK71ZR-W,FDTC25,35,50,60VH SRR25,35ZM-W,SR50,60ZS-W FDE50VH,FDUM50VH Max. 2 - Max. 4	
data Recommence Connection wiring IP number Accessories Indoor unit to Number of c	Insulation for piping Length for one indoor unit Total length for all rooms Vertical height difference b outdoor unit and indoor ur Height difference of the ind ded breaker size Size x Core number Connecting method (included)	nit	-	1.5	Max. 25 Max. 70 Max. 20 (Outdoor unit is higher ) Max. 20 (Outdoor unit is lower ) Max. 25 25 mm <sup>2</sup> x 4 cores (Including earth cable ) Terminal block (Screw fixing type ) IPX4 Installation sheet, Elbow, Grommet RK20,25,35,50,602SX-W(-WB,-WT) SRK71ZR-W,FDTC25,35,50,60VH SRR25,35ZM-W,SRR50,60ZS-W FDE50VH,FDUM50VH	
data Recommence Connection wiring IP number Accessories Indoor unit to Number of c Total of indo	Insulation for piping Length for one indoor unit Total length for all rooms Vertical height difference b outdoor unit and indoor ur Height difference of the ind ded breaker size Size x Core number Connecting method (included)	it door units	A	1.5 	Max. 25 Max. 70 Max. 20 (Outdoor unit is higher ) Max. 20 (Outdoor unit is lower ) Max. 25 25 mm <sup>2</sup> x 4 cores (Including earth cable ) Terminal block (Screw fixing type ) IPX4 Installation sheet, Elbow, Grommet RK20,25,35,50,60ZSX-W(-WB,-WT) SRK20,25,35,50,60ZSX-W(-WB,-WT) SRK71ZR-W,FDTC25,35,50,60VH SRR25,35ZM-W,SRR50,60ZS-W FDE50VH,FDUM50VH Max. 2 - Max. 4 Max. 13.5	
data Recommence Connection wiring IP number Accessories Indoor unit to Number of c Total of indo	Insulation for piping Length for one indoor unit Total length for all rooms Vertical height difference to outdoor unit and indoor un Height difference of the ind ded breaker size Size x Core number Connecting method (included) o be combined connectable indoor units or units 1) The data are measured a	it the following co	A A kW nditions.	1.5 S The į	Max. 25 Max. 70 Max. 20 (Outdoor unit is higher ) Max. 20 (Outdoor unit is lower ) Max. 25 25 mm <sup>2</sup> x 4 cores (Including earth cable ) Terminal block (Screw fixing type ) IPX4 Installation sheet, Elbow, Grommet RK20,25,35,50,602SX-W(-WB,-WT) SRK71ZR-W,FDTC25,35,50,60VH SRR25,35ZM-W,SRR50,60ZS-W FDE50VH,FDUM50VH Max. 2 - Max. 4	
data Recommence Connection wiring IP number Accessories Indoor unit to Number of c Total of indo	Insulation for piping Length for one indoor unit Total length for all rooms Vertical height difference b outdoor unit and indoor ur Height difference of the ind ded breaker size Size x Core number Connecting method (included) o be combined connectable indoor units or units 1) The data are measured a	t the following co Indoor air tempera	A A kW nditions. ture	1.5 S The p Outdoor air temperature	Max. 25 Max. 70 Max. 20 (Outdoor unit is higher ) Max. 20 (Outdoor unit is lower ) Max. 25 25 mm <sup>2</sup> x 4 cores (Including earth cable ) Terminal block (Screw fixing type ) IPX4 Installation sheet, Elbow, Grommet RK20,25,35,50,60ZSX-W(-WB,-WT) SRK271ZR-W,FDTC25,35,50,60VH SRR25,35ZM-W,SRR50,60ZS-W FDE50VH,FDUM50VH Max. 2 - Max. 4 Max. 13.5	
data Recommence Connection wiring IP number Accessories Indoor unit to Number of c Total of indo	Insulation for piping Length for one indoor unit Total length for all rooms Vertical height difference to outdoor unit and indoor un Height difference of the ind ded breaker size Size x Core number Connecting method (included) o be combined connectable indoor units or units 1) The data are measured a ltem	it the following could be a constrained by the second seco	A A kW nditions. ture	1.5 S Outdoor air temperature DB WB	Max. 25 Max. 70 Max. 20 (Outdoor unit is higher) Max. 20 (Outdoor unit is lower) Max. 25 25 mm <sup>2</sup> x 4 cores (Including earth cable) Terminal block (Screw fixing type) IPX4 Installation sheet, Elbow, Grommet RK20,25,35,50,60ZSX-W(-WB,-WT) SRK20,25,35,50,60ZSX-W(-WB,-WT) SRK20,25,35,50,50ZS-W(-WB,-WT) SRK20,25,35,50,50ZS-W(-WB,-WT) SRK20,25,35,50,50ZS-W(-WB,-WT) SRK20,25,35Z-W(-WB,-WT) SRK20,25,35Z-W(-WB,-WT) SRK20,25,35Z-W(-WB,-WT) SRK20,20Z-W(-W	
Connection wiring IP number Accessories Indoor unit to Number of c Total of indo	Insulation for piping Length for one indoor unit Total length for all rooms Vertical height difference to outdoor unit and indoor un Height difference of the ind ded breaker size Size x Core number Connecting method (included) o be combined connectable indoor units or units 1) The data are measured a lter Operation Cooling	at the following could be a constrained by the following could by the following could by the following could by the following	A A kW nditions. ture /B	The J Outdoor air temperature DB WB 35°C 24°C	Max. 25 Max. 70 Max. 20 (Outdoor unit is higher) Max. 20 (Outdoor unit is lower) Max. 20 (Outdoor unit is lower) Max. 25 25 mm <sup>2</sup> x 4 cores (Including earth cable) Terminal block (Screw fixing type) IPX4 Installation sheet, Elbow, Grommet RK20,25,35,50,60ZSX-W(-WB,-WT) SRK20,25,35,50,60ZSX-W(-WB,-WT) SRK20,25,35,50,60ZSX-W(-WB,-WT) SRK20,25,35,50,50ZS-W(-WB,-WT) SRK20,25,35,50,50ZS-W(-WB,-WT) SRK20,25,35,50,50ZS-W(-WB,-WT) SRK20,25,35,50ZS-W(-WB,-WT) SRK20,25,35,50,60ZSX-W(-WB,-WT) SRK20,25,35,50ZS-W(-WB,-WT) SRK20,22,22,22,22,22,22,22,22,22,22,22,22,2	
data Recommence Connection wiring IP number Accessories Indoor unit to Number of c Total of indo	Insulation for piping Length for one indoor unit Total length for all rooms Vertical height difference to outdoor unit and indoor un Height difference of the in- ded breaker size Size x Core number Connecting method (included) o be combined connectable indoor units or units 1) The data are measured a ltem Operation Cooling Heating	tt the following con Indoor air tempera DB V 27°C 11 20°C ·	A A kW nditions. ture	1.5           1.5           0	Max. 25           Max. 70           Max. 20 (Outdoor unit is higher)           Max. 20 (Outdoor unit is lower)           Max. 20 (Outdoor unit is lower)           Max. 25           25           mm² x 4 cores (Including earth cable)           Terminal block (Screw fixing type)           IPX4           Installation sheet, Elbow, Grommet           RK20,25,35,50,60ZSX-W(-WB,-WT)           SRK21,25,35,50,60ZSX-W(-WB,-WT)           SRK21,25,35,50,02S-W(-WB,-WT)           SRK21,25,35,50,02S-W(-WB,-WT)           SRK20,25,35,50,02S-W(-WB,-WT)           SRK20,25,35,50,02S-W(-WB,-WT)           SRK20,25,35,50,02S-W(-WB,-WT)           SRK20,25,35,50,02S-W(-WB,-WT)           SRK20,25,35,50,02S-W(-WB,-WT)           SRK20,25,35,50,02S-W(-WB,-WT)           SRK20,25,35,50,02S-W(-WB,-WT)           SRK20,25,35,50,02S-W(-WB,-WT)           SRK20,25,35,50,02S-W(-WB,-WT)           SRK20,25,35,50,02S-W           FDE50VH,FDUM50VH           Max. 2 - Max. 4           Max. 13.5           Dipe length for one indoor unit is 5m.           Standards           ISO15042-T1           ISO15042-H1	
data Recommence Connection wiring IP number Accessories Indoor unit to Number of c Total of indo	Insulation for piping Length for one indoor unit Total length for all rooms Vertical height difference to outdoor unit and indoor un Height difference of the ind ded breaker size Size x Core number Connecting method (included) o be combined connectable indoor units or units 1) The data are measured a lter Operation Cooling	at the following could be a constrained by the following could by the following could by the following could by the following	A A kW nditions. ture /B	The J Outdoor air temperature DB WB 35°C 24°C	Max. 25 Max. 70 Max. 20 (Outdoor unit is higher) Max. 20 (Outdoor unit is lower) Max. 20 (Outdoor unit is lower) Max. 25 25 mm <sup>2</sup> x 4 cores (Including earth cable) Terminal block (Screw fixing type) IPX4 Installation sheet, Elbow, Grommet RK20,25,35,50,60ZSX-W(-WB,-WT) SRK20,25,35,50,60ZSX-W(-WB,-WT) SRK20,25,35,50,60ZSX-W(-WB,-WT) SRK20,25,35,50,50ZS-W(-WB,-WT) SRK20,25,35,50,50ZS-W(-WB,-WT) SRK20,25,35,50,50ZS-W(-WB,-WT) SRK20,25,35,50ZS-W(-WB,-WT) SRK20,25,35,50,60ZSX-W(-WB,-WT) SRK20,25,35,50ZS-W(-WB,-WT) SRK20,22,22,22,22,22,22,22,22,22,22,22,22,2	

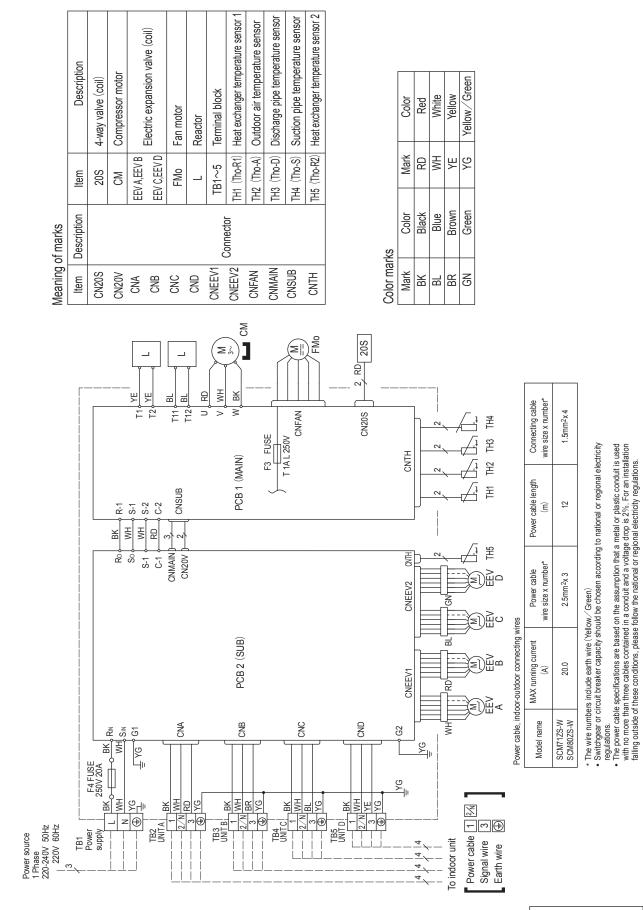
(Purging is not required even for the short piping.)

### 1.2 Exterior dimensions Models SCM71ZS-W, 80ZS-W



RWC000Z330

### 1.3 Electrical wiring Models SCM71ZS-W, 80ZS-W



'19 • SCM-DB-275

RWC000Z331

## 1.4 Noise level

### (1) Sound power level Model SCM71ZS-W

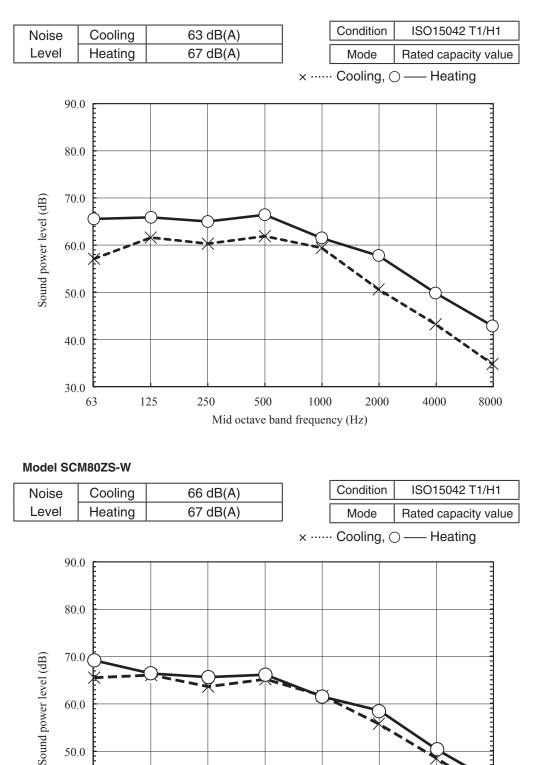
50.0

40.0

30.0

63

125

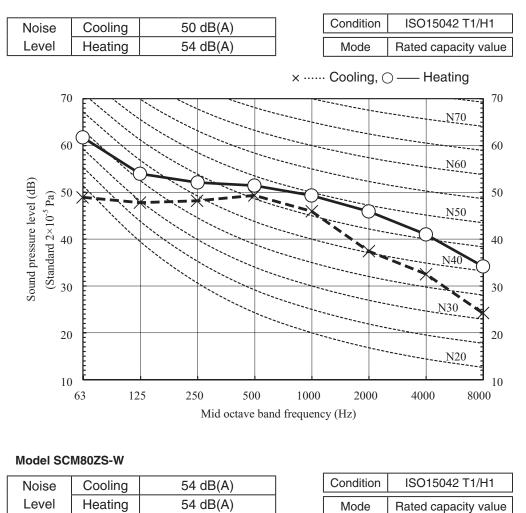


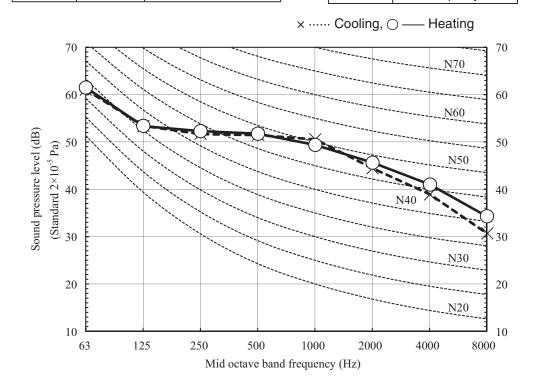
4000

8000

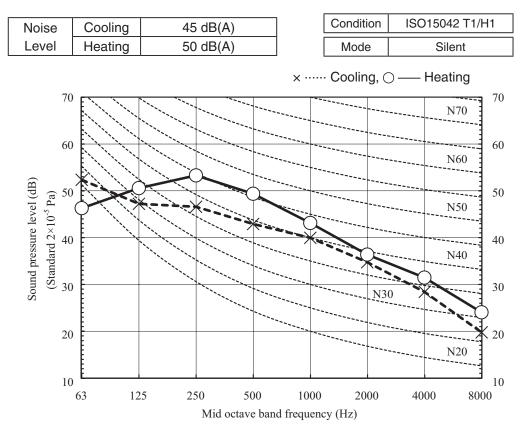
### (2) Sound pressure level

### (a) Rated capacity value Model SCM71ZS-W

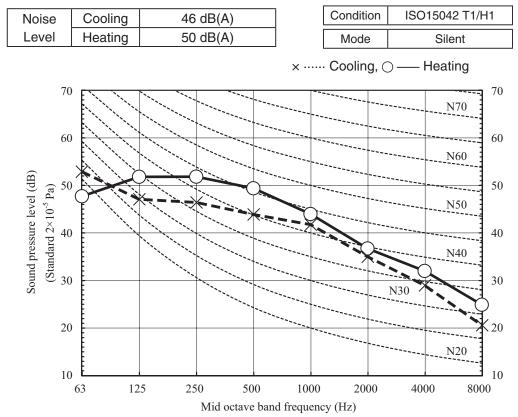




### (b) Silent mode Model SCM71ZS-W



Model SCM80ZS-W



### 1.5 Application data Models SCM71ZS-W, 80ZS-W

#### RPC012A925

#### Model SCM71, 80ZS-W R32 REFRIGERANT USED

This installation manual deals with an outdoor unit installation only. For an indoor unit installation, refer to page 112

#### SAFETY PRECAUTIONS

- before installation, read the SAFETY PRECADIONS carefully and strictly tollow it during the installation. If unusual noise can be heard during the test run, consult the dealer.
   The precautionary items mentioned below are distinguished into two levels, WARNING and CAUTION.
   Be sure to explain the operating methods as well as the maintenance methods of this equipment to the user according to the user's manual.
   Be sure to explain the operating methods as well as the maintenance methods of this equipment to the user according to the user's manual.
   Be sure to explain the operating methods as well as the maintenance methods of this equipment to the user according to the user's manual.
   Be sure to keep the installation manual together with user's manual at a place where it is easily accessible to the user any time. Moreover, ask the user to hand the manuals to a new user, whenever required.
- sequences such as death or severe injury.

  <u>CAUTION</u> Indicates a potentially hazardous situation which, if not avoided, can result in personal in-

jury or property damage. Both mention the important items to protect your health and safety. Therefore, strictly follow them by any means

- **MARNING** During pump down work, be sure to stop the compressor before closing service valves and removing connecting pipes. If the connecting pipes are removed when the compressor is in operation and operation valves are open, air can be sucked into the refrigerant circuit which can cause anomalous high pressure resultion in burst or personal interv Be sure to use only for residential purpose. If this unit is installed in inferior environment such as machine shop, vehicle (like ship), warehouse, etc., it can malfunction etc., it can mailunction. Installation must be carried out by the qualified installer completely in accor-dance with the installation manual. Installation by non qualified person or incorrect installation can cause serious troubles such as water leak, electric shock, fire and personal injury. Be sure to wear protective goggles and gloves while performing installation work. Improper safety measures can result in personal injury. Use the original accessories and the specified components for the installation. Lies parts other than these prescribed may cause water leak, electric shock fire and personal injury. In the event of refrigerant leakage during installation, be sure to ventilate the working area properly. If the refrigerant comes into contact with naked flames, poisonous gases will be produced. Electrical work must be carried out by the qualified electrician, strictly in ac-cordance with national or regional electricity regulations. Using parts other than those prescribed may cause water leak, electric shock, fire and personal injury. Do not install the unit near the location where leakage of flammable gases can occur. If leaked gases accumulate around the unit, it can cause fire resulting in property damage and per-Incorrect installation can cause electric shock, fire or personal injury. Make sure that earth leakage breaker and circuit breaker of appropriate capacities are installed. Circuit breaker should be able to disconnect all poles under over current. Absence of appropriate When installing the unit in small rooms, make sure that refrigerant density does not exceed the limit (Reference: ISO5149) in the event of leakage. If refrigerant density exceeds the limit, consult the dealer and install the ventilation system. Otherwise lack of oxygen can occur resulting in serious accident. Install the unit in a location where unit will remain stable, horizontal and free forward to the stable stability of the stability o Circuit breaker should be able to disconnect all poles under over current. Absence of appropriate breakers can cause electric shock, personal injury or property damage. Be sure to switch off the power source in the event of installation, mainte-nance or service. If the power source is not switched off, there is a risk of electric shock, unit failure or personal injury. Be sure to tighten the cables securely in terminal block and relieve the ca-bles properly to prevent overloading the terminal blocks. Loose connections or cable mountings can cause anomalous heat production or fire. Do not process, splice or modify the power cable, or share the socket with other power plure. of any vibration transmission. Unsuitable installation location can cause the unit to fall resulting in material damage and personal injury. Do not run the unit with removed panels or protections. To uching rotating equipments, hot surfaces or high voltage parts can cause personal injury due to entrapment, burn or electric shock. This unit is designed specifically for R32. Using any other refrigerant can cause unit failure and personal injury. Do not vent R32 into atmosphere. R32 is a fluorinated greenhouse gas with a Global Warning Potential (GWP) = 675. Make sure that no air enters the refrigerant circuit when the unit is installed and removed. Improper power plugs. Improper power cable or power plug can cause fire or electric shock due to poor connection, insufficient insulation or over-current. Do not perform any change in protective device or its setup condition yourself. Changing protective device specifications can cause electric shock, fire or burst. Be sure to clamp the cables properly so that they do not touch any internal component of the unit. If cables touch any internal component, it can cause overheating and fire and removed. If air enters the refrigerant circuit, the pressure in the refrigerant circuit will become too high, which If cables touch any internal component, it can cause overheating and fire. Be sure to install service cover properly. Improper installation can cause electric shock or fire due to intrusion of dust or water. Be sure to use the prescribed power and connecting cables for electrical work. Using improper cables can cause electric leak or fire. This appliance must be connected to main power source by means of a cir-cuit breaker or switch with a contact separation of at least 3 mm. Improper electrical work can cause unit failure or personal injury. Be sure to connect the power source cable with power source properly. Improper connecting can cause intrusion of dust or water resultion in electric shock or fire. Be sure to use the personal injury. Be sure to use the prescribed pipes, flare nuts and tools for R32 or R410A. Using existing parts (for R22 or R407C) can cause refrigerant circuit burst resulting in unit failure and Be sure to connect both liquid and gas connecting pipes properly before operating the compressor. Do not open the liquid and gas service valves before completing piping work. and evacuation. Improper connection can cause intrusion of dust or water resulting in electric shock or fire work, and evacuation. If the compressor is operated when connecting pipes are not connected and service valves are open, air can be sucked into the refrigerant circuit which can cause anomalous high pressure result-ing in burst or personal injury. Be sure to tighten the flare nuts to specified torque using the torque wrench. Tightening flare nuts with excess torque can cause burst and refrigerant leakage after a long period. **∧** CAUTION Take care when carrying the unit by hand. If the unit weight is more than 20 kg, it must be carried by two or more persons. Do not carry the unit by the plastic straps. Always use the carry handle.
   Do not install the outdoor unit in a location where insects and small animals and install the outdoor unit in a location where insects and small animals Do not install the unit in the locations where: There are heat sources nearby. Unit is directly exposed to rain or sunlight. Unit is directly exposed to rain or sunlight. There is any obstacle which can prevent smooth air circulation from inlet and outlet side of the unit. Unit is directly exposed to oil mist and steam such as kitchen. Chemical substances like ammonia (organic fertilizer), calcium chloride (snow melting agent) and acid (sulfurous acid etc.), which can harm the unit, will generate or accumulate. Drain water can not be discharged properly. TV set or raid or ceciver is placed within 1 m. Height above sea level is more than 1000 m. It can cause parformance decredation corresion and damage of components, unit malfunction and fire. can inhabit. Insects and small animals can enter the electrical parts and cause damage resulting in fire or per-sonal injury. Instruct the user to keep the surroundings clean. If the outdoor unit is installed at height, make sure that there is enough space Installation, maintenance and service. Insufficient space can result in personal injury due to failing from the height. Do not install the unit near the location where neighbours are bothered by It can cause performance degradation, corrosion and damage of components, unit malfunction and fire. Do not install the unit hear the location where neighbours are bothered by noise or air generating from the unit. It can affect surrounding environment and cause a claim. Do not install in the locations where unit is directly exposed to corrosive gases (like sulphide gas, chloride gas), sea breeze or salty atmosphere. It can cause corrosion of heat exchanger and damage to plastic parts. Dispose of all packing materials properly. Packing materials contain nails and wood which can cause personal injury Keep the polybag away from children to avoid the risk of suffocation. Do not put anything on the outdoor unit. Do not put anything on the outdoor unit. Object may fall causing property damage or personal injury. Do not touch the aluminum fin of the outdoor unit. Aluminium fin temperature is high during heating operation. Touching fin can cause burn. Do not touch any refrigerant pipe with your hands when the system is in operation. Do not install the unit close to the equipments that generate electromagnetic waves and/or high-harmonic waves. Equipment such as inverters, standby generators, medical high frequency equipments and telecom-munication equipments can affect the system, and cause malfunctions and breakdowns. The system can also affect medical equipment and telecommunication equipment, and obstruct its
- function or cause jamming

Do not fouch any reingerant pipe with your hands when the system is in operation. During operation the refrigerant pipes become extremely hot or extremely cold depending on the op-erating condition. Touching pipes can cause personal injury like burn (hot/cold). Install isolator or disconnect switch on the power source wiring in accor-dance with the local codes and regulations. The isolator should be locked in OFF state in accordance with EN60204-1.

### **1. ACCESSORIES AND TOOLS**

(	Standard accessories Supplied with outdoor unit)	Q'ty	Locally procured parts		Tools for installation work	
(1)	Drain grommet Ø	2	(a) Anchor bolt (M10-M12) × 4 pcs	Plus headed driver	Spanner wrench	Vacuum pump*
		+	(b) Putty	Knife	Torque wrench [14.0-82.0 N•m(1.4-8.2 kgf•m)]	Gauge manifold *
(2)	Drain elbow 🕑 📷	1	(c) Electrical tape	Saw	Wrench key (Hexagon) [4 mm]	Charge hose *
	Variable diameter joint		(d) Connecting pipe	Tape measure	Flaring tool set *	Vacuum pump adapter*
(3)	ø9.52→ø12.7	3	(e) Connecting cable	Trape measure		(Anti-reverse flow type)
	(Inside of service cover)		(f) Power cable	Pipe cutter	Flare adjustment gauge	Gas leak detector *
	Variable diameter joint		(g) Clamp and screw (for finishing work)			*Designed specifically for R32 or R410A
(4)	Ø9.52→Ø15.88 (Inside of service cover)	1		-		

- Before installation, read the "SAFETY PRECAUTIONS" carefully and strictly follow it during the installa- Be sure to confirm no operation problem on the equipment after completing the installation. If unusual

### 2. OUTDOOR UNIT INSTALLATION

- Note as a unit designed for R32
   Do not use any refrigerant other than R32. R32 will rise to pressure about 1.6 times higher than a conventional refrigerant. A cylinder containing R32 has a light blue indication mark on the top. than that of Do not use a charge cylinder. The use of a charge cylinder will cause the refrigerant composition to
- change, which results in performance degradation.
   In charging refrigerant, always take it out from a cylinder in the liquid phase.
   All indoor units must be models designed exclusively for R32. Check connectable indoor unit models in a catalog, etc. (A wrong indoor unit, if connected into the system, will impair proper system operation)

#### 1. Haulage

- Always carry or move the unit with two or more persons.
- The right hand side of the unit as viewed from the front (outlet side) is heavier. A person carrying the right hand side must take care of this fact. A person carrying the left hand side must hold the handle provided on the front panel of the unit with his right hand and the corner column must be of the side.
- section of the unit with his left hand. In the case of hoisting the unit, use nylon slings or ropes and protection pads for prevend damage of the unit.



#### **▲** CAUTION

When a unit is hauled, take care of its gravity center position which is shifted towards right hand side If the unit is not hauled properly, it can go off balance and fall resulting in serious injury

#### 2. Selecting the installation location

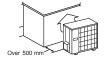
- Select the suitable installation location where: Unit will be stable, horizontal and free of any vibration transmission
- There is no obstacle which can prevent smooth air circulation from inlet and outlet side of the unit.
- There is enough space for service and maintenance of unit.
   Neighbours are not bothered by noise or air generating from the unit.
   Outlet air of the unit does not blow directly to animals or plants.
- Drain water can be discharged properly.
- There is no risk of flammable gas leakage.
- There is no taken an analysis of a makage.
   There are no other heat sources nearby.
   Unit is not directly exposed to rain or sunlight.
   Unit is not directly exposed to oil mist and steam.
- Chemical substances like ammonia (organic fertilizer), calcium chloride (snow melting agent) and acid (suffurous acid etc.), which can harm the unit, will not generate or accumulate.
   Unit is not directly exposed to corrosive gases (like sulphide gas, chloride gas), sea breeze or salty atmosphere.
   No TV set or radio receiver is placed within 1 m.
- Unit is not affected by electromagnetic waves and/or high-harmonic waves generated by other equipments.
  Strong wind does not blow against the unit outlet.
  Heavy snowfalls do not occur (If installed, provide proper protection to avoid snow accumulation).

### NOTE

If the unit is installed in the area where there is a possibility of strong wind or snow accumulation, the fol-lowing measures are required.

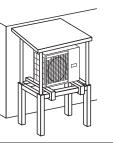
#### (1) Location of strong wind

· Place the unit with its outlet side facing the wall. · Place the unit such that the direction of air from the outlet gets perpendicular to the wind direction



#### (2) Location of snow accumulation

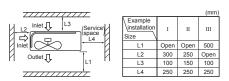
- Install the unit on the base so that the bottom is higher than snow cover surface
- Install the unit under eaves or provide the roof on site.



Wind direction

#### 3. Installation space

There must be 1 m or larger space between the unit and the wall in at least 1 of the 4 sides. Walls surrounding the unit from 4 sides is not acceptable. The wall height on the outlet side should be 1200 mm or less. Refer to the following figure and table for details.



#### NOTE

When more than one unit are installed side by side, provide a 250 mm or wider interval between them as a service space.

#### **≜** CAUTION

When more than one unit are installed in parallel directions, provide sufficient inlet space so that short-circuiting may not occur.

#### 4. Drain piping work (If necessary)

Carry out drain piping work by using a drain elbow and a drain grommet supplied separately as acces-sories if condensed water needs to be drained out.

Install drain elbow and drain grommet.
 Seal around the drain elbow and drain grommet with putty or adequate caulking material.



Drain h (To be procured on the installer's part)

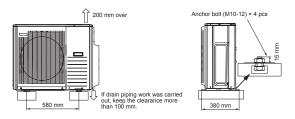
Do not put a grommet on this hole This is a supplementary drain hole to discharge drain water, when a large amount of it is gathered

#### **▲** CAUTION

Do not use drain elbow and drain grommet if there is a possibility to have several consecutive days of sub zero temperature. (There is a risk of drain water freezing inside and blocking the drain.)

#### 5. Installation

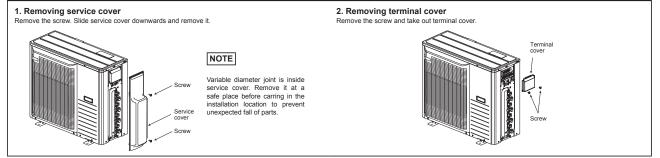
Install the unit on a flat level base. While installing the unit, keep space and fix the unit's legs with 4 anchor bolts as shown in the figure below. The protrusion of an anchor bolt from the foundation surface must be kept within 15 mm.



#### A CAUTION

Install the unit properly so that it does not fall over during earthquake, strong wind, etc. Make sure that unit is installed on a flat level base. Installing unit on uneven base may result in unit malfunction

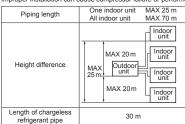
### **3. PREPARATION FOR WORK**



### **4. CONNECTING PIPING WORK**

#### 1. Restrictions on unit installation

```
Abide by the following restrictions on unit installation.
Improper installation can cause compressor failure or performance degradation
```



#### 2. Preparation of connecting pipe

#### 2.1 Selecting connecting pipe

Select connecting pipe according to the following table.						
Indoor unit	Model 20/25/35	Model 40/50/60	Model 71			
Gas pipe	ø9.52	ø12.7	ø15.88			
Liquid nine	Ø6 35	Ø6.35	ø6.35			

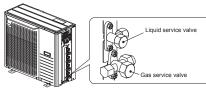
 Pipe wall thickness must be greater than or equal to 0.8 mm (#15.88 : 1.0 mm).
 Pipe material must be O-type (Phosphorus deoxidized seamless copper pip
77.150.30). mless copper pipe ICS 23.040.15, ICS

#### 2.2 Cutting connecting pipe

(1) Cut the connecting pipe to the required length with pipe cutter.
 (2) Hold the pipe downward and remove the burrs. Make sure that no foreign material enters the pipe.
 (3) Cover the connecting pipe ends with the tape.

#### 3. Piping work

Check that both liquid and gas service valves are fully closed. Carry out the piping work with service valves fully closed.



3.1 Flaring pipe
 (1) Take out flare nuts from the service valves of outdoor unit.
 If 4,0, 5,0, 6,0 KW class indoor unit (gas side pipe e12.7) or 7.1 kW class indoor unit (gas side pipe e15.80) is going to be connected to the service valves (ø9.52), variable joints available as accessories must be applied to the gas side service valves.

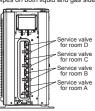
Securely fit the copper packing between the service valve and the variable diameter joint to prevent shifting. Engage flare nuts onto connecting pipes.

#### ce valve (\$6.35) Liquid side service valve (\$6.35) φ6.35 pipe 71 mous. - Γ΄- Indoor unit vervice 52) Copper packing Visrice servia Service Gas side serv valve (\$9.52) Variable diameter joint (\$\phi 9.52 - \$\phi 12.7) Variable diameter joint (φ 9.52 - φ15.88)

(2) Flare the pipes according to table and figure shown below. Flare dimensions for R32 are different from those for conventional refrigerant. Although it is recommended to use the flaring tools designed specifically for R32, conventional flaring tools can also be used by adjustion the dimension B with a flare adjustment aque.

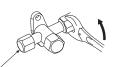
oois can a	liso be used by	adjusting tr	te dimension b with a flare	adjustment g	auge.	
A	Copper pipe	А		Copper pipe	B [Rigid (c	lutch) type]
	outer diameter	A		outer diameter	R32 or R410A	Conventional
	ø6.35	9.1		ø6.35		
	ø9.52	13.2		ø9.52	0-0.5	1.0-1.5
	ø12.7	16.6	<b>P</b>	ø12.7	0-0.5	1.0-1.0
. !	ø15.88	19.7	·	ø15.88		

**3.2 Connecting pipes** (1) Connect pipes on both liquid and gas sides.



### (2) Tighten nuts to specified torque shown in the table below

Service valve size (mm)	Tightening torque (N·m)
ø6.35 (1/4")	14-18
ø9.52 (3/8")	34-42
ø12.7 (1/2")	49-61
ø15.88 (5/8")	68-82



Do not hold the valve cap area with a spanne

#### **▲** CAUTION

 Do not apply refrigerating machine oil to the flared surface. It can cause refrigerant leakage · Do not apply excess torque to the flared nuts. The flared nuts may crack resulting in refrigerant leakage

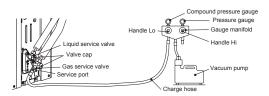
#### 4. Evacuation

- 4. Evacuation
  (1) Connect vacuum pump to gauge manifold. Connect charge hose of gauge manifold to a service port of outdoor unit.
  (2) Run the vacuum pump for at least one hour after the vacuum gauge shows -0.1 MPa (-76 cm Hg).
  (3) Confirm that the vacuum gauge indicator does not rise even if the system is left for 15 minutes or more. Vacuum gauge indicator will rise if the system has moisture left inside or has a leakage point. Check the system for the leakage point. If leakage point is found, repair it and return to (1) again.
  (4) Close the Handle Lo and stop the vacuum pump. Keep this state for a few minutes to make sure that the compound pressure gauge pointer does not swing back.
  (5) Remove valve caps from liquid service valve and gas operation valve.
  (6) Turn the liquid operation valve's rod 90 degree counterclockwise with a hexagonal wrench key to open valve.

(b) Tim the induit operation varies foot so degree contrendocwise with a nexagonal which key to open valve.
 Close it after 5 seconds, and check for gas leakage.
 Close it after 5 seconds, and check for gas leakage from indoor unit's flare and outdoor unit's flare and valve rods.
 Wipe off all the water after completing the check.
 (7) Disconnect charging hose from gas service valve's service port and fully open liquid and gas service valves. (Do not attempt to turn valve rod beyond its stop.)
 (8) Tighten service valve caps and service port cap to the specified torque shown in the table below.

Service valve size (mm)	Service valve cap tightening torque (N·m)	Service port cap tightening torque (N·m)
ø6.35 (1/4")	20-30	
ø9.52 (3/8")	20-30	10-12
ø12.7 (1/2")	25-35	10-12
ø15.88 (5/8")	30-40	

(9) Repeat the above steps (1) to (8) for all connected indoor units.



#### **∆** CAUTION

To prevent vacuum pump oil from entering into the refrigerant system, use a counterflow prevention adapter.

#### 5. Additional refrigerant charge

Additional refrigerant charge is required only when connecting pipe length exceeds 30 m.

**5.1 Calculating additional refrigerant charge** Additional refrigerant charge can be calculated using the formula given below. Additional refrigerant charge (g) = { Connecting pipe length (m) – Factory charged length 30 (m) } x 20 (g/m) NOTE

 If additional refrigerant charge calculation result is negative, there is no need to remove the refrigerant.
 If refrigerant recharge is required for the unit with connecting pipe length 30 m or shorter, charge the factory charged amount as shown in the table below.

	Model SCM71/80
The factory refrigerant charge amount (kg)	2.55
The maximum refrigerant charge amount (kg)	3.35

#### 5.2 Charging refrigerant

5.2 Charging reingerant
(1) Charge the R32 refrigerant in liquid phase from service port with both liquid and gas service valves shut. Since R32 refrigerant must be charged in the liquid phase, make sure that refrigerant is discharged from the cylinder in the liquid phase all the time.
(2) When it is difficult to charge a required refrigerant amount, fully open both liquid and gas service valves and charge refrigerant, while running the unit in the cooling mode. When refrigerant is charged with the unit being run, complete the charge operation within 30 minutes.
(3) Write the additional refrigerant charge calculated from the connecting pipe length on the label attached on the service cover.

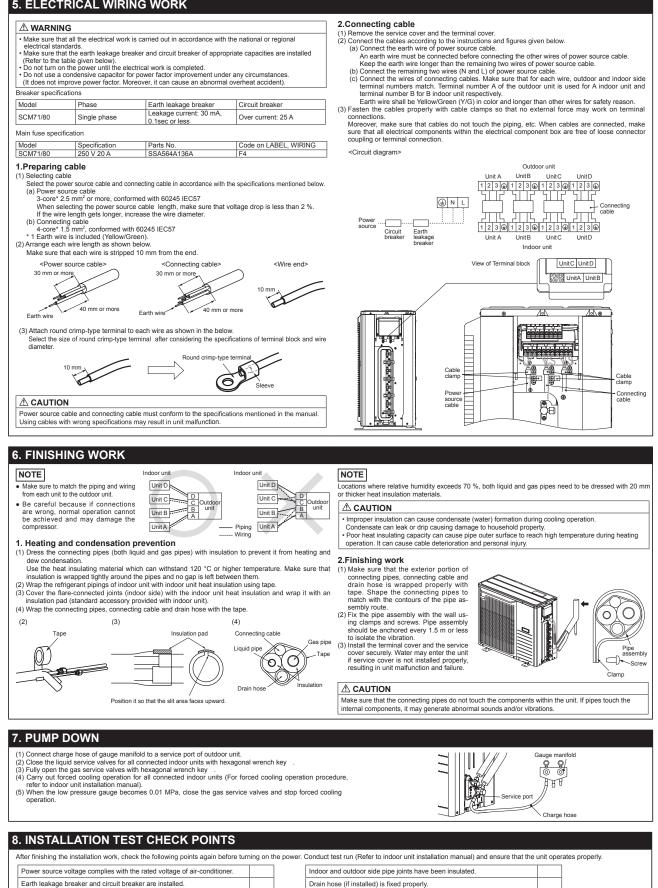
#### 

· Running the unit with an insufficient guantity of refrigerant for a long time can cause unit malfunction. . Do not charge more than the maximum refrigerant amount. It can cause unit malfunction

### 5. ELECTRICAL WIRING WORK

Power cable and connecting cable are securely fixed to the terminal block

Both liquid and gas service valves are fully open No gas leaks from the joints of the service valves.



Screw of the service cover is tightened properly.

Piping and wiring from each unit to the outdoor unit are matched

# 2. INDOOR UNITS

## 2.1 Specifications

(1) Wall mounted type (SRK)

(a) Models SRK20, 25, 35, 50, 60ZSX-W, -WB, -WT

				Model							
Item						S	RK20ZSX-W, -WB, -WT				
Power source						1 Phase	, 220–240 V, 50Hz/220V, 60	0Hz			
	Nominal coolin	g capac	ity (range)	kW			2.0				
	Nominal heatin	ig capac	ity (range)	kW			3.0				
			Cooling				53				
Operation data	Sound power	level	Heating	1			55				
			Cooling	dB(A)		Hi: 3	8 Me: 31 Lo: 24 ULo: 19	)			
	Sound pressure	e level ⊢	Heating			Hi: 3	8 Me: 33 Lo: 25 ULo: 19	)			
	Silent mode sou		0	1			_				
Exterior dimensio	ons (Height x Width x	(Depth)		mm			305 x 920 x 220				
Exterior appeara		. ,					SRK20ZSX-W :				
(Equivalent color						Fine sno	ow (8.0Y 9.3/0.1), RAL : 90	003			
Net weight	·			kg			13				
Heat exchanger						Louve	r fins & inner grooved tubin	IQ			
Fan type & Q'ty							Tangential fan x 1	5			
Fan motor (Starti	na method)			w			42 x1 (Direct drive)				
	<u> </u>		Cooling		Hi: 11.3 Me: 9.1 Lo: 6.0 ULo: 5.0						
Air flow		Heating	m³/min	Hi: 12.2 Me: 10.3 Lo: 7.2 ULo: 5.4							
Available externa	l static pressure	l	0	Pa		0					
Outside air intake							Not possible				
Air filter, Quality /	Quantity				Polyp	ropylene net ( washable ) x	2				
Shock & vibration							ober sleeve (for fan motor)				
	Remote contro	ol					Vireless remote control				
Operation contro			ontrol			М	icrocomputer thermostat				
	Operation disp						een, TIMER: Yellow, ECO: I	Blue			
Safety equipmen					Frost protection, Serial signal error protection, Indoor fan motor error protection						
	Refrigerant pip	oina size	e(O.D)	mm	Liquid line: $\phi$ 6.35 (1/4") Gas line: $\phi$ 9.52 (3/8")						
	Connecting m	-	- ( - )				Flare connection				
Installation data	Attached lengt		ping	m		Liqui	d line : 0.55 / Gas line : 0.48	8			
	Insulation for p	piping				Necess	ary (Both sides), independe	ent			
	Drain hose						ose connectable (VP16)				
Drain pump, max	lift height			mm			_				
Interconnecting v	vires Size x Co	re numb	ber		1.5mm <sup>2</sup> x 4	cores (Including	g earth cable ) / Terminal blo	ock ( Screw fixing type )			
IP number							IPX0				
Standard access	ories				Mounting kit, Cle	an filter ( Allergen o	clear filter x 1, Photocatalytic v	vashable deodorizing filter x 1			
Option parts							erface kit (SC-BIKN2-E)				
Notes (1)	The data are measure	ed at the	e followin	a conditi	ons.		The pipe length is 5m				
	Item		or air tem		1	ir temperature		1			
0.5						WB	Standards				
Op	Capling	27°(		19°C	35°C	24°C	10015040 T1	-			
	Cooling			190			ISO15042-T1	-			
(3) S	Heating This air-conditioner is Sound level indicates During operation thes The difference in appe	the values	actured ar ue in an a s are som	nechoic ewhat hi	chamber. gher due to amb		ISO15042-H1	]			
Iter	Madal			20ZSX-		SF	RK20ZSX-WT	]			
Ex	Exterior appearance Fine snow ( 8.0				Shk2023A-WB         Shk2023A-WI           (8.0Y 9.3 / 0.1), RAL : 9003         Titanium gray (1.6Y 6.59 / 0.63), RAL :7048           PB 2.44 / 0.25), RAL : 9011         Black (4.0PB 2.44 / 0.25), RAL : 9011						

				Model								
Item				mouch			SRK25ZSX-W, -WB, -WT					
Power source	9					1 Pha	ase, 220–240 V, 50Hz/220V, 6	0Hz				
	Nominal of	ooling capa	acity (range)	kW			2.5					
	Nominal h	eating capa	acity (range)	kW			3.4					
			Cooling				55					
Operation da	ta Sound po	ower level	Heating				56					
			Cooling	dB(A)		Hi	: 39 Me: 33 Lo: 25 ULo: 19	9				
	Sound pro	essure level	Heating				: 40 Me: 34 Lo: 27 ULo: 19					
	Silent mo	de sound pre	5				_	-				
Exterior dime	nsions (Height x Wi			mm			305 x 920 x 220					
Exterior appe			-,				SRK25ZSX-W :					
(Equivalent c						Fines	snow ( 8.0Y 9.3/0.1 ) , RAL : 9	003				
Net weight				kg			13					
Heat exchange	ner			ing i		Lou	iver fins & inner grooved tubir	ומ				
Fan type & Q						Lõu	Tangential fan x 1	שי				
				W			42 x1 (Direct drive)					
	motor (Starting method) Cooling					Hi- 1	2.2 Me: 10.0 Lo: 6.7 ULo:	5.0				
Air flow	Heating					Hi: 12.2 Mie: 10.0 Lo: 0.7 OLO: 5.0 Hi: 12.8 Me: 11.0 Lo: 7.8 ULo: 5.4						
Available ext	ernal static pressure	)	1	Pa		0						
Outside air in	de air intake				Not possible							
Air filter, Qua	ity / Quantity					Pol	ypropylene net ( washable ) >	(2				
	ation absorber					F	Rubber sleeve (for fan motor)					
	Remote of	ontrol					Wireless remote control					
Operation co	ntrol Room ter	nperature o	control				Microcomputer thermostat					
-	Operation						Green, TIMER: Yellow, ECO:	Blue				
Safety equip	·	17			Frost prote		gnal error protection, Indoor f					
		nt piping si	ze ( O.D )	mm			φ6.35 (1/4") Gas line: φ9					
		ng method	- ( - )		Flare connection							
Installation d		length of p	ipina	m		Lia	uid line : 0.55 / Gas line : 0.4	8				
		for piping	1 0			Nece	essary (Both sides), independ	ent				
	Drain hos						Hose connectable (VP16)	-				
Drain pump.	max lift height	-		mm			_					
Interconnecti		x Core nun	nber		1.5mm <sup>2</sup> x 4	1 cores ( Includ	ing earth cable ) / Terminal bl	ock ( Screw fixing type )				
IP number	<u> </u>						IPX0					
Standard acc	essories				Mounting kit, Cle	an filter ( Allerge	n clear filter x 1, Photocatalytic	washable deodorizing filter x 1)				
Option parts							Interface kit (SC-BIKN2-E)					
Notes	(1) The data are me	asured at t	he followin	g conditi	ons.		The pipe length is 5m	l.				
			oor air tem	-		air temperature		7				
	Operation		B	WB	DB	WB	Standards					
	Cooling		7°C	19°C	35°C	24°C	ISO15042-T1	-				
	Heating 20°C					6°C	ISO15042-H1	-				
	(2) This air-condition (3) Sound level indic	ner is manu	factured ar		l in conformity w		13013042-111					
	During operation (4) The difference in	these valu	es are som	ewhat hi	gher due to amb	pient conditions	S.					
	Item Mo	del	SR	25ZSX-	NB	SRK25ZSX-WT						
	Exterior appearance Fine snow (8.0				(8.0Y 9.3 / 0.1 ), RAL : 9003 PB 2.44 / 0.25 ), RAL : 9011 Black (4.0PB 2.44 / 0.25 ), RAL : 9011							

					a de l				Adapted to <b>ROHS</b> directive		
Item				Mo	odel			SRK35ZSX-W, -WB, -WT			
Power sourc							1 Pha	ase, 220-240 V, 50Hz/220V, 6	i0Hz		
		ominal cooling	i capacity (ra	nae) k	w			3.5	0112		
		ominal heating			w			4.5			
			Cooli	<u> </u>				58			
Operation da	ata So	ound power le	evel Heati	<u> </u>	F			58			
oporation ac			Cooli	-	3(A)		Hi	: 43 Me: 35 Lo: 26 ULo: 19	9		
	So	ound pressure	level Heati	<u> </u>				: 42 Me: 35 Lo: 28 ULo: 19			
	Si	lent mode sour		<u> </u>	F			_			
Exterior dime	I	ht x Width x I			nm			305 x 920 x 220			
	ior appearance (4)							SRK35ZSX-W :			
(Equivalent c							Fine	snow (8.0Y 9.3/0.1), RAL : 9	003		
Net weight	,				kg			13			
Heat exchan	aer						Lou	iver fins & inner grooved tubi	าต		
Fan type & C							200	Tangential fan x 1	<u> </u>		
Fan motor (S		od)			w			42 x1 (Direct drive)			
,	Cooling						Hi: 1	3.1 Me: 10.8 Lo: 7.3 ULo:	: 5.0		
Air flow	Heating				/min	Hi: 13.9 Me: 11.8 Lo: 8.6 ULo: 5.4					
Available ext	ternal static p	oressure			Pa	0					
Outside air ir	e air intake					Not possible					
Air filter, Qua	r, Quality / Quantity					Polypropylene net ( washable ) x 2					
Shock & vibr	ration absorb	er					F	Rubber sleeve (for fan motor)			
	R	emote control						Wireless remote control			
Operation co	ontrol Re	oom temperat	ture control					Microcomputer thermostat			
	0	peration displ	lay				RUN:	Green, TIMER: Yellow, ECO:	Blue		
Safety equip	ments					Frost protec	tion, Serial sig	gnal error protection, Indoor f	an motor error protection		
	R	efrigerant pipi	ing size ( O.I	)) n	nm	Liquid line: $\phi$ 6.35 ( 1/4" ) Gas line: $\phi$ 9.52 ( 3/8" )					
	C	onnecting me	thod			Flare connection					
Installation d	lata At	tached length	h of piping		m		Lic	uid line : 0.55 / Gas line : 0.4	8		
	In	sulation for pi	iping				Nece	essary (Both sides), independ	ent		
	Di	rain hose						Hose connectable (VP16)			
Drain pump,	max lift heig	ht		n	nm			_			
Interconnect	ing wires	Size x Core	e number			1.5mm <sup>2</sup> x 4	cores (Includ	ing earth cable ) / Terminal bl	ock (Screw fixing type)		
IP number								IPX0			
Standard ac	cessories					Mounting kit, Clea	an filter ( Allerge	n clear filter x 1, Photocatalytic	washable deodorizing filter x 1 )		
Option parts								Interface kit (SC-BIKN2-E)			
Notes	(1) The data	are measured	d at the follo	wina co	onditic	ons.		The pipe length is 5m	1.		
		Item	Indoor air			-	ir temperature		7		
	Operation		DB	· ·	VB	DB	WB	Standards			
	Operation	ling						10015040 T1	-		
	Cooling 27°C Heating 20°C				9°C	35°C	24°C	ISO15042-T1	-		
			20°C	<u> </u>		7°C	6°C	ISO15042-H1			
	( )	onditioner is r vel indicates t				in conformity wi	th the ISO.				
	()					namber. gher due to amb	ient condition	S.			
		ence in appea							_		
	Item Model SRK3					/B	SRK35ZSX-WT				
					8.0Y 9.3 / 0.1 ) , RAL : 9003 PB 2.44 / 0.25 ) , RAL : 9011 Black (4.0PB 2.44 / 0.25 ) , RAL : 9011						

				Model	SEK507SY-W -WE -WT							
Item							5	SRK50ZSX-W, -WB, -WT				
Power sourc	e						1 Phase	e, 220–240 V, 50Hz/220V, 60	)Hz			
	Nominal cooli	ng capao	city (range)	kW				5.0				
	Nominal heati	ng capao	city (range)	kW				5.8				
	Sound power	rlovol	Cooling					59				
Operation da	ita Sound power	level	Heating	]				62				
	Sound propou	iro loval	Cooling	dB(A)			Hi: 4	44 Me: 39 Lo: 31 ULo: 22				
	Sound pressu		Heating	]			Hi: 4	46 Me: 41 Lo: 33 ULo: 23				
	Silent mode so	ound pre	ssure level					-				
Exterior dime	ensions (Height x Width	x Depth	)	mm				305 x 920 x 220				
Exterior app	earance (4)						SRK50ZSX-W :					
(Equivalent c	olor)					Fine sr	now(8.0Y 9.3/0.1), RAL:90	003				
Net weight				kg				13				
Heat exchan	ger						Louve	er fins & inner grooved tubin	g			
Fan type & C	2'ty						Tangential fan x 1					
Fan motor (S	itarting method)		W				42 x1 (Direct drive)					
Air flow	Cooling						Hi: 14.	3 Me: 12.4 Lo: 7.8 ULo:	5.4			
AIT HOW	Heating					Hi: 17.3 Me: 14.3 Lo: 9.8 ULo: 6.2						
Available ext	ernal static pressure	Pa		0								
Outside air ir	ntake			Not possible								
Air filter, Qua	lity / Quantity					Polypropylene net ( washable ) x 2						
Shock & vibr	ation absorber						Ru	bber sleeve (for fan motor)				
	Remote cont	rol						Wireless remote control				
Operation co	ontrol Room tempe	rature co	ontrol				N	licrocomputer thermostat				
	Operation dis	splay					RUN: G	reen, TIMER: Yellow, ECO: E	Blue			
Safety equip	ments				Fros	st protect	tion, Serial sign	al error protection, Indoor fa	an motor error protection			
	Refrigerant p	iping siz	e ( O.D )	mm		Liquid line: $\phi$ 6.35 (1/4") Gas line: $\phi$ 12.7 (1/2")						
	Connecting n	nethod						Flare connection				
Installation d	ata Attached leng	gth of pi	ping	m			Liqu	id line : 0.55 / Gas line : 0.48	3			
	Insulation for	piping					Neces	sary (Both sides), independe	ent			
	Drain hose						H	lose connectable (VP16)				
Drain pump,	max lift height			mm				-				
Interconnect	ing wires Size x Co	ore num	ber		1.5	mm <sup>2</sup> x 4	cores ( Includin	g earth cable ) / Terminal blo	ock ( Screw fixing type )			
IP number								IPX0				
Standard ac	cessories				Mountin	g kit, Clea	n filter ( Allergen	clear filter x 1, Photocatalytic w	vashable deodorizing filter x 1 )			
Option parts							In	terface kit (SC-BIKN2-E)				
Notes	(1) The data are measu	red at th	e followin	g conditi	ions.			The pipe length is 5m.				
	Item		or air tem			utdoor ai	r temperature		]			
	Operation	DI		WB		DB	WB	Standards				
	Cooling			19°C		35°C	24°C	ISO15042-T1				
	Cooling 27°C Heating 20°C					7°C	6°C	ISO15042-H1				
		1						10010042-111	]			
	<ul><li>(2) This air-conditioner is</li><li>(3) Sound level indicates</li></ul>						in the ISO.					
	During operation the						ent conditions.					
	(4) The difference in app				5							
	Item Model SRK5						S	RK50ZSX-WT				
	Exterior appearance Fine snow (8.0)				(8.0Y 9.3 / 0.1 ) , RAL : 9003 PB 2.44 / 0.25 ) , RAL : 9011 Black (4.0PB 2.44 / 0.25 ) , RAL : 9011							

				Model								
Item								SRK60ZSX-W, -WB, -WT				
Power source							1 Phas	e, 220–240 V, 50Hz/220V, 60	OHz			
	Nominal coolin	ig capacity	(range)	kW				6.0				
	Nominal heatin	ig capacity	(range)	kW				6.8				
	Sound power	Co	ooling					62				
Operation data	a   Sound power	He	eating					63				
	Cound pressure	Co	ooling	dB(A)			Hi: 4	48 Me: 41 Lo: 33 ULo: 22	2			
	Sound pressure	He	eating	1			Hi: 4	47 Me: 42 Lo: 34 ULo: 23	}			
	Silent mode so	und pressu	ire level	1				_				
Exterior dimen	sions (Height x Width x	(Depth)		mm				305 x 920 x 220				
Exterior appea	erior appearance (4)							SRK60ZSX-W:				
	quivalent color)						Fine sr	now(8.0Y 9.3/0.1), RAL:9	003			
Net weight				kg				13				
Heat exchange	er						Louv	er fins & inner grooved tubin	IQ			
Fan type & Q't	· · · · ·							Tangential fan x 1	-			
Fan motor (Sta	-		w	1			42 x1 (Direct drive)					
· · · ·	Cooling				1		Hi: 16	.3 Me: 13.4 Lo: 8.9 ULo:	5.4			
Air flow	flow Heating				۱ <u> </u>			8 Me: 13.7 Lo: 10.9 ULo:				
Available exter	rnal static pressure	0	Pa		0							
Outside air inta	· · · · · · · · · · · · · · · · · · ·					Not possible						
Air filter, Qualit	Iter, Quality / Quantity					Polypropylene net ( washable ) x 2						
Shock & vibrat	tion absorber						Ru	Ibber sleeve (for fan motor)				
	Remote contro	ol						Wireless remote control				
Operation con	trol Room tempera	ature conti	rol				N	licrocomputer thermostat				
	Operation disp	play					RUN: G	ireen, TIMER: Yellow, ECO: I	Blue			
Safety equipm					F	rost protec	tion, Serial sigr	al error protection, Indoor fa	an motor error protection			
	Refrigerant pip	ping size (	0.D)	mm			-	6.35 (1/4") Gas line: φ1				
	Connecting m		,			Flare connection						
Installation dat			g	m			Liqu	id line : 0.55 / Gas line : 0.48	3			
	Insulation for p	piping	-				Neces	sary (Both sides), independe	ent			
	Drain hose							lose connectable (VP16)				
Drain pump, m	nax lift height			mm				_				
Interconnectin		re number	r		1	.5mm <sup>2</sup> x 4	cores ( Includin	g earth cable ) / Terminal blo	ock ( Screw fixing type )			
IP number	<u> </u>						,	IPX0				
Standard acce	essories				Mount	ting kit, Clea	an filter ( Allergen	clear filter x 1, Photocatalytic v	vashable deodorizing filter x 1 )			
Option parts						-	Ir	terface kit (SC-BIKN2-E)				
Notes (	1) The data are measure	ed at the fo	ollowing	n conditi	ions			The pipe length is 5m				
Notes (	,			-		Outdoor o	* *****		]			
	Item			perature	-		r temperature	Standards				
	Dperation	DB		WB		DB	WB		-			
F	Cooling 27°C			19°C		35°C	24°C	ISO15042-T1	-			
L	Heating	20°C		_		7°C	0°C	ISO15042-H1				
`	?) This air-conditioner is						th the ISO.					
(3	B) Sound level indicates During operation thes						ent conditions					
(4	) The difference in appe				0	iue to ambi	ent conditions.					
, L							SRK60ZSX-WT		]			
F												
	Exterior appearance (Equivalent color)			8.0Y 9.3 / 0.1 ), RAL : 9003 PB 2.44 / 0.25 ), RAL : 9011 Black ( 4.0PB 2.44 / 0.25 ), RAL : 9011								
L	,				J.25), RAL: 9011   Black (4.0PB 2.44 / 0.25), RAL: 9011							

### (b) Models SRK20, 25, 35, 50ZS-W, -WB, -WT

			Model			RK20ZS-W, -WB, -WT				
Item										
Power source					1 Phase	e, 220–240 V, 50Hz/220V, 60	)Hz			
	Nominal cooling cap	acity (range	) kW			2.0				
	Nominal heating cap	acity (range	) kW			3.0				
	Sound power level	Cooling				48				
Operation data	Sound power level	Heating				50				
	Sound pressure leve	Cooling	dB(A)		Hi: 3	4 Me: 25 Lo: 22 ULo: 19				
	Sound pressure leve	Heating	]	Hi: 36 Me: 29 Lo: 23 ULo: 19						
	Silent mode sound p	ressure leve	]							
Exterior dimensions	(Height x Width x Dept	th)	mm			290 x 870 x 230				
Exterior appearance	(4)					SRK20ZS-W :				
(Equivalent color)					Fine sno	ow(8.0Y 9.3/0.1), RAL:90	003			
Net weight			kg			9.5				
Heat exchanger					Louve	r fins & inner grooved tubin	g			
Fan type & Q'ty					Tangential fan x 1					
Fan motor (Starting	method)		W			30 x1 (Direct drive)				
	,	Cooling	3	Hi: 9.3 Me: 7.0 Lo: 5.9 ULo: 5.0						
Air flow		Heating	m³/min	Hi: 10.0 Me: 8.5 Lo: 6.5 ULo: 5.9						
Available external st	atic pressure		Pa	0						
Outside air intake					Not possible					
Air filter, Quality / Qu	iantity				Polvp	ropylene net ( washable ) x	2			
Shock & vibration at						ober sleeve (for fan motor)				
	Remote control					Vireless remote control				
Operation control	Room temperature	control				icrocomputer thermostat				
operation control	Operation display					JN: Green, TIMER: Yellow				
Safety equipments	oporation diopiay			Frost protection, Serial signal error protection, Indoor fan motor error protectio						
oulory oquipilionto	Refrigerant piping s	ize ( O D )	mm	Liquid line: $\phi$ 6.35 (1/4") Gas line: $\phi$ 9.52 (3/8")						
	Connecting method					Flare connection	.02 (0,0 )			
Installation data	Attached length of		m		Liquid	d line : 0.54 / Gas line : 0.47	7			
inotaliation data	Insulation for piping		+		· · · ·	ary (Both sides), independe				
	Drain hose	·				ose connectable (VP16)				
Drain pump, max lift			mm			_				
Interconnecting wire		mher		1.5mm <sup>2</sup> x 4	cores (Including	g earth cable ) / Terminal blo	ock (Screw fixing type)			
IP number						IPX0	for ( corow inting type )			
Standard accessorie	26			Mounting kit, Clea	n filter ( Allemen d	clear filter x 1, Photocatalytic w	ashable deodorizing filter x 1			
Option parts					, °	erface kit ( SC-BIKN2-E )	ashable decodorizing inter x 1			
· ·	data are measured at t	he followin	l a conditi	one	int	, , ,				
			0			The pipe length is 5m.	1			
		oor air tem			r temperature	Standards				
Operat	on C	DB	WB	DB	WB		-			
	Cooling 27	7°C	19°C	35°C	24°C	ISO15042-T1				
	Heating 20	D°C	-	7°C	6°C	ISO15042-H1				
(3) Sour Durir	air-conditioner is manu d level indicates the va g operation these valu difference in appearance	alue in an a les are sorr	nechoic ewhat hi	chamber. gher due to ambi						
Item	Model	SR	K20ZS-W	/B	S	RK20ZS-WT	1			
Exterio	or appearance Fine	/ 9.3 / 0.		Titanium gray ( 1	.6Y 6.59 / 0.63 ) , RAL :7048 2.44 / 0.25 ) , RAL : 9011					

RWA000Z274

				Model			5	RK25ZS-W, -WB, -WT			
Item											
Power source	I						1 Phase,	220–240 V, 50Hz / 220 V, 6	0Hz		
		minal cooling cap						2.5			
	No	minal heating cap		) kW				3.4			
	So	und power level	Cooling	_				50			
Operation data	a 📑		Heating					53			
	So	und pressure leve	Cooling	dB(A)			Hi: 3				
			Heating				Hi: 3	9 Me: 30 Lo: 24 ULo: 19			
	Sile	ent mode sound p	ressure leve					_			
Exterior dimen	sions (Heigl	nt x Width x Dep	th)	mm				290 x 870 x 230			
Exterior appea	erior appearance (4)							SRK25ZS-W:			
(Equivalent col	quivalent color )						Fine sn	ow(8.0Y 9.3/0.1), RAL:90	03		
Net weight				kg				9.5			
Heat exchange	·						Louve	er fins & inner grooved tubing	g		
Fan type & Q't	ype & Q'ty							Tangential fan x 1			
Fan motor (Sta	notor (Starting method)							30 x1 (Direct drive)			
A: 0	Cooling				1		Hi: 9.9	9 Me: 8.0 Lo: 5.9 ULo: 5.	.0		
Air flow			Heating	- m³/min	ון י	Hi: 11.3 Me: 8.7 Lo: 6.7 ULo: 5.9					
Available exter	vailable external static pressure					0					
	itside air intake					Not possible					
Air filter. Qualit	r filter, Quality / Quantity					Polypropylene net ( washable ) x 2					
Shock & vibrat								ober sleeve (for fan motor)			
		mote control						Wireless remote control			
Operation cont		om temperature	control		+			icrocomputer thermostat			
operation com		eration display	Control		+			JN: Green, TIMER: Yellow			
Safety equipm	·	cration display				rost protoc		al error protection, Indoor fa	n motor orror protoction		
		frigerant piping		mm	- ·	TOST PIOLEC	· ·				
		nnecting metho	·		+	Liquid line: $\phi$ 6.35 (1/4") Gas line: $\phi$ 9.52 (3/8") Flare connection					
Installation dat							Liqui	d line : 0.54 / Gas line : 0.47			
Installation dat		ached length of		m							
		ulation for piping	J					sary (Both sides), independe	11L		
<b>D</b> :		ain hose					Н	ose connectable (VP16)			
Drain pump, m	~	1		mm		4 5 2 4					
Interconnecting	g wires	Size x Core nu	mber			1.5mm <sup>-</sup> x 4	cores ( Including	g earth cable ) / Terminal blo	ck (Screw fixing type)		
IP number							<u></u>	IPX0			
Standard acce	ssories				Mour	nting kit, Clea		clear filter x 1, Photocatalytic w	ashable deodorizing filter x 1)		
Option parts							Int	erface kit (SC-BIKN2-E)			
Notes (1)	) The data a	are measured at	the followir	g condit	ions.			The pipe length is 5m.			
		Item Ind	loor air ten	perature	•	Outdoor ai	r temperature	Ctop-II-			
о	peration	$\frown$	DB	WB		DB	WB	- Standards			
	Cooling 27°C					35°C	24°C	ISO15042-T1			
	Heatir	<u> </u>	0°C	19°C		7°C	6°C	ISO15042-H1			
(3)	This air-co Sound leve During ope	nditioner is man el indicates the v eration these valu nce in appearan	alue in an a les are son	nechoic newhat h	chaml higher d	ber.		1			
Item Model SRK2					WB		S	RK25ZS-WT			
	Exterior appearance (Equivalent color) Fine snow (8.0) Black (4.0PB 2							l.6Y 6.59 / 0.63 ) , RAL :7048 3 2.44 / 0.25 ) , RAL : 9011			

				Model				SRK35ZS-W, -WB, -WT			
Item											
Power source							1 Phase	e, 220–240 V, 50Hz / 220 V, 6	60Hz		
	Nominal coolin			kW				3.5			
	Nominal heatin	<u> </u>		kW				4.5			
	Sound power	level —	oling					54			
Operation data	i '	He	ating					56			
	Sound pressur	e level —	oling	dB(A)				40 Me: 30 Lo: 26 ULo: 19			
		He	ating				Hi:	41 Me: 36 Lo: 25 ULo: 19			
	Silent mode so		re level					_			
	sions (Height x Width x	(Depth)		mm				290 x 870 x 230			
	kterior appearance (4)						<b>-</b> :	SRK35ZS-W:			
	Equivalent color)						Fine s	now(8.0Y 9.3/0.1), RAL:9	003		
Net weight				kg				9.5			
	eat exchanger						Louv	ver fins & inner grooved tubir	ig		
Fan type & Q'ty			W				Tangential fan x 1				
Fan motor (Sta	n motor (Starting method)							30 x1 (Direct drive)			
Air flow	ir flow Cooling					Hi: 11.3 Me: 8.7 Lo: 7.0 ULo: 5.0					
	Heating						Hi: 12	.3 Me: 11.0 Lo: 7.0 ULo:	5.6		
	railable external static pressure					0					
	utside air intake					Not possible					
Air filter, Qualit	· ·							propylene net ( washable ) x	2		
Shock & vibrat		n absorber					R	ubber sleeve (for fan motor)			
	Remote contro	-						Wireless remote control			
Operation cont			rol					Aicrocomputer thermostat			
	Operation dis	play						UN: Green, TIMER: Yellow			
Safety equipm	ents				Frost	protect	tion, Serial sigi	nal error protection, Indoor fa	an motor error protection		
	Refrigerant pi	ping size (	0.D)	mm		Liquid line: $\phi$ 6.35 (1/4") Gas line: $\phi$ 9.52 (3/8")					
	Connecting m	lethod				Flare connection					
Installation dat	a Attached leng	th of piping	g	m			Liqu	uid line : 0.54 / Gas line : 0.4	7		
	Insulation for	piping					Neces	ssary (Both sides), independ	ent		
	Drain hose						ŀ	Hose connectable (VP16)			
Drain pump, m	nax lift height			mm				-			
Interconnecting	g wires Size x Co	re number			1.5m	$m^2 \times 4$	cores ( Includii	ng earth cable ) / Terminal blo	ock (Screw fixing type)		
IP number								IPX0			
Standard acce	ssories				Mounting	kit, Clea		clear filter x 1, Photocatalytic v	vashable deodorizing filter x 1		
Option parts							lı lı	nterface kit (SC-BIKN2-E)			
Notes (1	) The data are measure	ed at the fo	ollowing	conditi	ons.			The pipe length is 5m.			
	Item	Indoor a	air temp	erature	Out	door air	temperature		]		
C	Operation	DB		WB	1	DB	WB	Standards			
	Cooling 27°C			19°C	3	5°C	24°C	ISO15042-T1	-		
-	Heating 20°C					7°C	6°C	ISO15042-H1	-		
(3)	<ul> <li>(2) This air-conditioner is manufactured a</li> <li>(3) Sound level indicates the value in an During operation these values are so</li> <li>(4) The difference in appearance color is</li> </ul>						h the ISO.		1		
	Model							]			
	Exterior appearance Fine snow ( 8.0Y				KK35ZS-WB         SRK35ZS-WT           Y 9.3 / 0.1 ), RAL : 9003         Titanium gray (1.6Y 6.59 / 0.63           2.44 / 0.25 ), RAL : 9011         Black (4.0PB 2.44 / 0.25 ),						

				Model				S	RK50ZS-W, -WB, -WT		
Item										2011	
Power source								1 Phase,	220-240 V, 50Hz / 220 V, 6	50Hz	
	Nominal coolin			kW					5.0		
	Nominal heatin	<u> </u>		kW					5.8		
	Sound power	level —	oling						59		
Operation data	a '	Hea	ating						60		
	Sound pressur	′e level ⊢—	oling	dB(A)					6 Me: 36 Lo: 29 ULo: 22		
			ating					Hi: 4	6 Me: 37 Lo: 31 ULo: 24		
	Silent mode so		e level						-		
	isions (Height x Width x	(Depth)		mm					290 x 870 x 230		
	sterior appearance (4)							<b>-</b>	SRK50ZS-W :	000	
	Equivalent color )							Fine sho	ow (8.0Y 9.3/0.1), RAL : 9	003	
Net weight				kg					10.0		
	eat exchanger							Louve	r fins & inner grooved tubin	ig	
Fan type & Q't									Tangential fan x 1		
⊢an motor (Sta	n motor (Starting method)							11: 10	42 x1 (Direct drive)		
Air flow	ir flow Cooling Heating					Hi: 12.1 Me: 9.9 Lo: 7.4 ULo: 5.9 Hi: 13.9 Me: 11.2 Lo: 9.1 ULo: 7.4					
		Hea	ating	Pa				HI: 13.9		7.4	
	vailable external static pressure					0 Not possible					
	itside air intake					Not possible					
Air filter, Qualit									ropylene net ( washable ) x	2	
Shock & Vibrat		absorber							ober sleeve (for fan motor)		
<b>A B</b>	Remote contro	-							Nireless remote control		
Operation con			l						icrocomputer thermostat		
	Operation dis	play							JN: Green, TIMER: Yellow		
Safety equipm					Fro	st protec		-	al error protection, Indoor fa		
	Refrigerant pi		).D)	mm		Liquid line: $\phi$ 6.35 (1/4") Gas line: $\phi$ 12.7 (1/2")					
	Connecting m								Flare connection	-	
Installation dat				m					d line : 0.54 / Gas line : 0.47		
	Insulation for	piping							ary (Both sides), independe	ent	
<u> </u>	Drain hose							He	ose connectable (VP16)		
Drain pump, m				mm		- 2 4			—		
Interconnectin	g wires Size x Co	ore number			1.5	mm <sup>-</sup> x 4	cores (	Including	g earth cable ) / Terminal blo	OCK (Screw fixing type)	
IP number					Maximi		filt (	All	IPX0		
Standard acce	essories				Iviountir	ig kit, Clea	an filter (			vashable deodorizing filter x 1	
Option parts								Int	erface kit (SC-BIKN2-E)		
Notes (1	I) The data are measure	ed at the fo	lowing	conditi	ons.				The pipe length is 5m.		
	Item	Indoor a	ir temp	erature	0	utdoor ai	ir tempe	erature	Standards		
C	Operation	DB		WB		DB	1	WB	Stanuarus		
	Cooling 27°C			19°C		35°C	2	24°C	ISO15042-T1		
Γ	Heating 20°C					7°C	6	6°C	ISO15042-H1		
(3	<ul><li>(2) This air-conditioner is manufactured a</li><li>(3) Sound level indicates the value in an During operation these values are sor</li><li>(4) The difference in appearance color is</li></ul>					r.				-	
, F	Madal							<u> </u>		]	
	Exterior appearance Fine snow ( 8.0Y				SRK50ZS-WB         SRK50ZS-WT           8.0Y 9.3 / 0.1 ), RAL : 9003         Titanium gray (1.6Y 6.59 / 0.63 ), RAL :7048           B 2.44 / 0.25 ), RAL : 9011         Black (4.0PB 2.44 / 0.25 ), RAL : 9011						

## (c) Model SRK71ZR-W

Item				Model			SRK71ZR-W				
Power source						1 Phase 2	220–240 V, 50Hz / 220 V, 6	:0Hz			
	Nominal cooling	1 canacit	v (range)	kW		1111030,2	7.1	0112			
	Nominal heating			kW			8.0				
	Norminal nearing	· · ·	Cooling	1			57				
Operation data	Sound power le	evel 🛏	leating				60				
Operation data			Cooling	dB(A)			Me: 41 Lo: 37 ULo: 25				
	Sound pressure	e level ⊢	leating	ub(л)	Hi: 46 Me: 39 Lo: 35 ULo: 28						
	Silent mode sou		0			11.40					
Exterior dimens	sions (Height x Width x			mm	339 x 1197 x 262						
Exterior appear		Bopin									
(Equivalent cold						003					
Net weight	, ,			kg	15.5						
Heat exchange	r			ng	Louver fins & inner grooved tubing						
Fan type & Q'ty	0				Tangential fan x 1						
Fan motor (Star				W	56 x1 (Direct drive)						
· · ·	ting motilody	C	Cooling	m³/min		Hi: 20.5 Me: 18.6 Lo: 16.2 ULo: 10.4					
Air flow	ir flow Heating				Hi: 25.0 Me: 19.8 Lo: 17.3 ULo: 13.3						
Available extern	nal static pressure	5	Ра	0							
Outside air intal	•					Not possible					
Air filter, Quality	/ Quantity					Polypro	opylene net ( washable ) x	2			
Shock & vibrati	on absorber						ber sleeve (for fan motor)				
	Remote contro	I				W	/ireless remote control				
Operation contr	rol Room tempera	ture cor	ntrol			Mic	procomputer thermostat				
	Operation disp	lay			RUN: Green, TIMER: Yellow, HI POWER: Green, 3D AUTO: Green						
Safety equipme	ents				Frost protecti	on, Serial signal	error protection, Indoor fa	n motor error protection			
	Refrigerant pipi	ing size	(O.D)	mm	L	iquid line: $\phi$ 6.3	5 (1/4") Gas line: φ15	5.88 ( 5/8" )			
	Connecting me	thod					Flare connection				
Installation data	Attached lengtl	h of pipi	ng	m		Liquid	line : 0.78 / Gas line : 0.72	2			
	Insulation for p	iping				Necessa	ary (Both sides), independe	ent			
	Drain hose					Hos	se connectable (VP16)				
Drain pump, ma	ax lift height			mm			_				
Interconnecting	wires Size x Core	e numbe	ər		1.5mm <sup>2</sup> x 4 c	ores ( Including	earth cable ) / Terminal blo	ock ( Screw fixing type )			
IP number							IPX0				
Standard acces	ssories				Mounting kit, Clean	filter (Allergen cle	ear filter x 1, Photocatalytic w	ashable deodorizing filter x 1			
Option parts	otion parts					Inte	rface kit ( SC-BIKN2-E )				
Notes (1)	The data are measured	following	, conditi	ons.		The pipe length is 5m.					
	Item	Indooi	r air temp	oerature	Outdoor air	temperature					
0	Operation DB			WB	DB	WB	Standards				
	Cooling 27°C			19°C	35°C	24°C	ISO15042-T1				
	Heating 20°C				7°C	6°C	ISO15042-H1				
	0						100.00 L 111				
( )	This air-conditioner is r Sound level indicates t During operation these	e in an ar	nechoic	chamber.							

## (2) Ceiling concealed type (SRR)

Item				Mode	"			SRR25ZM-W				
Power source					-		1 Phase, 22	0–240 V, 50Hz	/ 220 V, 60Hz			
	Nominal coo	ling capa	citv (range)	kW			,	2.5				
	Nominal hea	<u> </u>	, , ,	kW				3.4				
		ung oupu	Cooling					56				
	Sound pow	er level	Heating					59				
							11:07		1.11 -: 0.4			
<b>.</b>	Sound pressu	ire level 1	Cooling					Me: 33 Lo: 30				
Operation data			Heating					Me: 37 Lo: 34				
	Sound pressu	ire level (2)	Cooling	dB(A)				Me: 28 Lo: 26				
			Heating				Hi: 33	Me: 30 Lo: 28	ULo: 23			
	Sound pressu	ura laval @	Cooling				Hi: 39	Me: 35 Lo: 32	ULo: 25			
	Sound pressu	ire ievei 🕑	Heating	]	Hi: 44 Me: 41 Lo: 38 ULo: 31							
	Silent mode	sound pre	ssure level	1				_				
Exterior dimensi	ons (Height x Widt			mm	200 x 750 x 500							
Exterior appeara		. [1	/						-			
(Equivalent color								_				
Net weight	/			ka				20.5				
				kg								
Heat exchanger					Louver fins & inner grooved tubing							
Fan type & Q'ty						Centrifugal fan x 2						
Fan motor (Start	ting method)			W				1 x1 (Direct driv	1			
Air flow			Cooling	m³/mi			Hi: 9.5 M	Me: 8.0 Lo: 6.5	5 ULo: 4.5			
			Heating	111 / 111		Hi: 10.0 Me: 9.0 Lo: 8.0 ULo: 6.0						
Available extern	al static pressure			Pa			35 (Initial stat	tic pressure wit	h air filter:5Pa)			
Outside air intak	e							Not possible				
Air filter, Quality	/ Quantity						Pc	lypropylene ne	tx1			
Shock & vibratio	,							n rubber (for fa				
onook a vibratio	Remote cor	atrol						eless remote co	,			
Operation control			ontrol									
Operation contro	· · · · ·		ontrol					computer ther				
	Operation of	lisplay			_	RUN: G	reen, IIMER: Ye	ellow, HI POWER	R: Green, ECONO: Green			
Safety equipmer	nts					Drain error protection, Frost protection, Serial signal error protection, Indoor fan motor error protection						
	Refrigerant	piping siz	ze ( O.D )	mm		Liq	uid line: $\phi$ 6.35	(1/4") Gas	line: \$\$\phi 9.52 (3/8")\$\$			
	Connecting	method						Flare connectio	'n			
Installation data	Insulation for						Necessary	/ (Both sides), ir	ndependent			
	Drain hose	8			+			connectable (	•			
Drain pump ma								Built-in, MAX60	1			
Drain pump, ma		0		mm				,				
Interconnecting	wires Size x (	Core num	IDer		1.5r	IIM X 4 COre	is (including ea		rminal block (Screw fixing type)			
IP number								IPX0				
Standard access	sories							g kit, Joint for d	11 0			
Option parts						Wired remo	te control, Inter	face kit ( SC-B	IKN2-E ), Bottom air inlet kit			
Notes (1)	The data are meas			-					1			
	Item	Indoor a	ir tempera	ture C	utdoor air	temperature	Standards	Note				
Op	eration	DB	WE	3	DB	WB						
	Cooling	27°C	19°0	c T	35°C	24°C	ISO15042-T1	Non-duct				
	Heating	20°C	_		7°C	6°C	ISO15042-H1	(with air fillter)				
(3) 5	This air-conditioner Sound level indicate During operation the Mike positions of m	es the value	ue in an an s are some	echoic what hi	chamber. gher due t	o ambient co	onditions.	<u> </u>	1			
đ	Air- Uuit 1.5m	leturn duct	it Supply duct	Air- Re	lm Unit turn dact	2m 1 Supply duct	External sta	tic pressure for ②, (	3) : 10Pa			

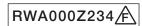
Item					Mod	el				SRR35ZM-W				
Power source	<i>.</i>								1 Phase, 22	20-240 V, 50Hz /	220 V. 60Hz			
	, 	Nominal coo	ling cana	city (range)	kW	,   _			1111000, 22	3.5				
		Nominal hea			kW	_				4.5				
		Normanica	ung capa	Cooling		_				57				
		Sound power	er level	Heating	-					60				
				Cooling	-				Hi: 38	Me: 34 Lo: 31	111 0: 25			
On avation day	t-0	Sound pressu	re level $(1)$		1	-				Me: 34 Lo: 31 Me: 38 Lo: 35				
Operation da	la			Heating	- 	,								
		Sound pressu	re level (2)	Cooling	dB(A	<u>۳</u>				Me: 30 Lo: 27				
				Heating					-	Me: 32 Lo: 29				
		Sound pressu	re level ③	Cooling					-	Me: 37 Lo: 33				
				Heating					Hi: 45	Me: 42 Lo: 39	ULo: 33			
		Silent mode					-							
Exterior dime	nsions (H	eight x Widtl	n x Depth	1)	mm	1	200 x 750 x 500							
Exterior appe							_							
(Equivalent control Net weight	5101)				kg	_	20.5							
Heat exchange	ner				ĸġ	_			Louver fi		red tubing			
Fan type & Q	, 						Louver fins & inner grooved tubing Centrifugal fan x 2							
Fan motor (Si	,	athod)			w					51 x1 (Direct driv				
	tarting me			Cooling			Hi: 10.0 Me: 8.5 Lo: 7.0 ULo: 5.0							
Air flow				Heating	m³/m	iin —								
				Heating	Pa	_	Hi: 10.5 Me: 9.5 Lo: 8.5 ULo: 6.5 35 (Initial static pressure with air filter:5Pa)							
	Available external static pressure						Not possible							
	Outside air intake						Polypropylene net x 1							
Air filter, Qual						_								
Shock & vibra	ation abso					_				on rubber (for far	'			
		Remote cor	-							eless remote co	-			
Operation co	ntrol	Room temp		ontrol						ocomputer thern				
		Operation d	isplay				RUN: Green, TIMER: Yellow, HI POWER: Green, ECONO: Green							
Safety equipr	nents						Drain error protection, Frost protection, Serial signal error protection, Indoor fan motor error protection							
		Refrigerant	piping siz	ze ( O.D )	mm	1		Liq	uid line: $\phi$ 6.35	5(1/4") Gas	line: \$\oldsymbol{\phi}\$ 9.52 (3/8")			
		Connecting	method							Flare connection	n			
Installation da	ata	Insulation fo	or piping						Necessar	/ (Both sides), in	dependent			
		Drain hose							Hose	e connectable ( \	/P25)			
Drain pump,	max lift h	eight			mm	1				Built-in, MAX60	0			
Interconnecti	ng wires	Size x 0	Core num	nber			1.5m	m <sup>2</sup> x 4 core	es (Including e	arth cable ) / Ter	minal block ( Screw fixing type )			
IP number										IPX0				
Standard acc	essories								Mountine	g kit, Joint for dr	ain piping			
Option parts							1	Wired remo	te control, Inte	rface kit ( SC-BI	KN2-E ), Bottom air inlet kit			
Notes	(1) The da	ata are meas	ured at th	ne following	g cond	ditions	6.		Tł	ne pipe length is 5m.				
		Item	Indoor a	air tempera	ture	Outdo	oor air t	emperature						
	Operatio	İ	DB	WE		D		WB	Standards	Note				
		oling	27°C	19°	С	35	5°C	24°C	ISO15042-T1	Non-duct				
		ating	20°C			7°	°C	6°C	ISO15042-H1					
Ì	2) This ai 3) Sound During	r-conditioner level indicate operation the	is manuf es the val ese value	ue in an an s are some	echoid what	ed in o c charr higher	confori nber. r due to	mity with th	e ISO.	1				
	(1) Air- ([	Unit - Air	eturn duct	2m it 1.5m Supply duct	A	3 lm ir- Return duct	t Unit	2m Supply duct	External st	atic pressure for ②, G	〕: 10Pa			

Item					Mod	el	SRR50ZS-W					
Power source	9					-		1 Phase, 22	0–240 V, 50Hz /	220 V, 60Hz		
		Nominal cool	ing capa	city (range)	kW			,	5.0			
		Nominal heat	ing capa	city (range)	kW		5.8					
		<u> </u>		Cooling					59			
		Sound powe	r level	Heating					61			
		0	- 11 @	Cooling	1			Hi: 41	Me: 37 Lo: 34	ULo: 29		
Operation da	ta	Sound pressur	e ievei ()	Heating	1			Hi: 43	Me: 39 Lo: 37	ULo: 32		
		0		Cooling	dB(A	A)		Hi: 35	Me: 33 Lo: 30	ULo: 25		
		Sound pressur	e level (2)	Heating	]			Hi: 38	Me: 36 Lo: 33	ULo: 28		
	Sound pressure leve			Cooling	1			Hi: 41	Me: 37 Lo: 34	ULo: 29		
		Sound pressur	e level 🕥	Heating	]			Hi: 46	Me: 43 Lo: 40	ULo: 34		
		Silent mode s	ound pre	essure level	1				_			
Exterior dime	nsions (H	eight x Width	x Depth	1)	mm	1			200 x 950 x 500	)		
Exterior appe	arance											
(Equivalent co	olor )								—			
Net weight					kg				24			
Heat exchang	ger							Louver fir	ns & inner groov	ed tubing		
Fan type & Q	'ty							C	Centrifugal fan x	3		
Fan motor (St	tarting me	ethod)			W			8	5 x1 (Direct driv	e)		
Air flow				Cooling	m³/m	in			le: 11.0 Lo: 10			
7.11 11010				Heating				Hi: 14.0 N	le: 12.5 Lo: 11	.0 ULo: 8.5		
Available exte	ernal stati	c pressure			Pa			50 (Initial stat	tic pressure with	air filter:5Pa)		
Outside air intake							Not possible					
Air filter, Quality / Quantity									lypropylene net			
Shock & vibration absorber					_			n rubber (for far	,			
		Remote cont				_			eless remote co	-		
Operation co	ntrol	Room tempe		ontrol					computer thern			
		Operation di	splay				RUN: Gr	reen, TIMER: Ye	ellow, HI POWER	: Green, ECONO: Green		
Safety equipr	nents						Drain error protection, Frost protection, Serial signal error protection, Indoor fan motor error protection					
		Refrigerant p	piping siz	ze ( O.D )	mm	1	Liquid line: $\phi$ 6.35 ( 1/4" ) Gas line: $\phi$ 12.7 ( 1/2" )					
Installation da	ata	Connecting r	method				Flare connection					
	ata	Insulation for	r piping					Necessary	(Both sides), in	dependent		
		Drain hose						Hose	connectable ( \	/P25)		
Drain pump,		eight			mm				Built-in, MAX60			
Interconnecti	ng wires	Size x C	ore num	ıber		1.5r	mm <sup>2</sup> x 4 core	s ( Including ea	arth cable ) / Ter	minal block ( Screw fixing type )		
IP number						_			IPX0			
Standard acc	essories					_			ı kit, Joint for dr			
Option parts							Wired remot	e control, Inter	face kit ( SC-BI	KN2-E ), Bottom air inlet kit		
Notes	(1) The da	ata are measu	ired at th	ne following	g cond	ditions.		Th	e pipe length is 5m.			
		Item	Indoor a	air tempera	ture	Outdoor air	temperature	Ctandarda	Nata			
	Operatio	n T	DB	WE	3	DB	WB	Standards	Note			
	Co	oling	27°C	19°	С	35°C	24°C	ISO15042-T1	Non-duct			
	He	ating	20°C	- 1		7°C	6°C	ISO15042-H1	(with air fillter)			
(	3) Sound During	r-conditioner i level indicates operation the ositions of me	s the val se value	ue in an an s are some	echoid what l	c chamber. nigher due t	o ambient co	nditions.				
	(1) Air - [	Unit Air- 1.5m Ref	tum duct	it 1.5m Supply duct	( A	3 Im ir- Unit Return duct	2m lr 	External sta	tic pressure for ②, (	ĵ) : 10Pa		

Item					Mode	el			SRR60ZS-W			
Power source	9							1 Phase, 220	0–240 V, 50Hz /	220 V, 60Hz		
		Nominal coo	ling capa	city (range)	kW	-		,	6.0			
		Nominal hea	<u> </u>	,, ,	kW	-			6.8			
				Cooling					60			
		Sound powe	er level	Heating					63			
				Cooling	1			Hi: 44	Me: 38 Lo: 35	ULo: 30		
Operation da	ta	Sound pressu	re level (1)	Heating				Hi: 45	Me: 41 Lo: 38	ULo: 33		
				Cooling	dB(A	)		Hi: 37	Me: 34 Lo: 32	ULo: 27		
		Sound pressu	re level (2)	Heating		·		Hi: 39	Me: 37 Lo: 34	ULo: 29		
				Cooling	1			Hi: 42	Me: 39 Lo: 36	ULo: 30		
		Sound pressu	re level (3)	Heating	1			Hi: 47	Me: 44 Lo: 41	ULo: 35		
		Silent mode s	sound pre	essure level					_			
Exterior dime	nsions (H	eight x Width	י א Depth	ר)	mm			:	200 x 950 x 500	)		
Exterior appe	arance	_										
(Equivalent co	olor )								_			
Net weight					kg				24			
Heat exchang	ger							Louver fir	ns & inner groov	ed tubing		
Fan type & Q	'ty							C	entrifugal fan x	3		
Fan motor (Si	tarting me	ethod)			W			8	5 x1 (Direct driv	e)		
A: ()				Cooling	37			Hi: 14.5 M	le: 11.5 Lo: 10	.5 ULo: 8.0		
Air flow				Heating	m³/m	in		Hi: 15.0 M	le: 13.0 Lo: 11	.5 ULo: 9.0		
Available exte	ernal stati	c pressure			Pa			50 (Initial stat	ic pressure with	air filter:5Pa)		
Outside air in	take								Not possible			
Air filter, Qual	lity / Quar	ntity					Polypropylene net x 1					
Shock & vibration absorber								Cushio	n rubber (for far	n motor)		
		Remote con	ntrol					Wire	eless remote co	ntrol		
Operation co	ntrol	Room temp	erature c	ontrol				Micro	computer thern	nostat		
		Operation d	isplay				RUN: G	reen, TIMER: Ye	llow, HI POWER	: Green, ECONO: Green		
Safety equipr	nents						Drain error		st protection, Se an motor error p	erial signal error protection,		
		Refrigerant	pipina si	ze ( O.D )	mm		Liquid line: $\phi$ 6.35 ( 1/4" ) Gas line: $\phi$ 12.7 ( 1/2" )					
		Connecting		20(012)			Flare connection					
Installation da	ata	Insulation fo					Necessary (Both sides), independent					
		Drain hose	. p.p9						connectable ( \	· · · · · · · · · · · · · · · · · · ·		
Drain pump,	max lift he				mm				Built-in, MAX60	,		
Interconnecti			Core num	ıber			imm <sup>2</sup> x 4 core		,	minal block ( Screw fixing type )		
IP number	ing miller	0.20 // 0	Jore num					e ( mendanig ee	IPX0			
Standard acc	essories							Mounting	kit, Joint for dr	ain piping		
Option parts							Wired remo			KN2-E ), Bottom air inlet kit		
	(1) The da	ata are measi	ured at th	ne following	g cond	litions.			e pipe length is 5m.			
		Item	Indoor a	air tempera	ture 0	Outdoor a	r temperature	Stondards	Nicto			
	Operation	n[	DB	WE	3	DB	WB	Standards	Note			
	Co	oling	27°C	19°	С	35°C	24°C	ISO15042-T1	Non-duct			
	He	ating	20°C			7°C	6°C	ISO15042-H1	(with air fillter)			
(	3) Sound During	level indicate operation the	es the val	ue in an an s are some	echoic what h	chamber. nigher due	ormity with the to ambient co ndoor unit is s	nditions.				
	(1) Air - C	Unit 1.5m R	eturn disct	2m iit Supply duct	Ai	3 Im r- Uni teturn duct	2m 1 1 Supply duct	External sta	tic pressure for ②, (	9) : 10Pa		

## (3) 4-way ceiling cassette type (FDTC)

				Model	FDTC25VH				
Item					Panel sta	ndard : TC-PSA	-5AW-E, Draft prevention :	TC-PSAE-5AW-E	
Power source						1 Phase, 2	220-240 V, 50Hz/220V, 60I	Hz	
	No	minal cooling cap	acity (range)	kW			2.5		
		minal heating cap		kW	3.4				
			Cooling				51		
Operation dat	a	und power level	Heating	1			53		
			Cooling	dB(A)		P-Hi: 3	8 Hi: 34 Me: 30 Lo: 27		
	So	und pressure leve	Heating				9 Hi: 36 Me: 32 Lo: 28		
	Sile	ent mode sound p		1			_		
						l	Init 248 × 570 × 570		
Exterior dimer	nsions (Heigl	ht x Width x Dep	th)	mm			anel $10 \times 620 \times 620$		
Exterior appea	arance						Fine snow		
(Equivalent co					(8.0Y 9.3/0.1), RAL: 9003				
Net weight				kg			Jnit : 14, Panel : 2.5		
Heat exchang	ier						fins & inner grooved tubing	1	
Fan type & Q'ty						Louvor	Turbo fan x 1	)	
Fan motor (Starting method)					50 (Direct drive)				
Cooling			W	P-Hi: 8.5 Hi: 7.5 Me: 7.0 Lo: 6.0					
Air flow		<u> </u>	m³/min			5 Hi: 8.5 Me: 7.5 Lo: 6.5			
Heating			Pa		Р-пі: 9.:	0	)		
Available external static pressure									
Outside air intake							Possible		
Air filter, Quality / Quantity							plastic net ( washable ) x 1		
Shock & vibration absorber						er sleeve (for fan motor)			
		Remote control			Wired : RC - EX3		H - E3 (option), Wireless : F	RCN-TC-5AW-E2 (optio	
Operation cor	ntrol Ro	Room temperature control				The	rmostat by electronics		
	Op	eration display					-		
Safety equipm	nents				Overload protection for fan motor, Frost protection thermostat				
	Re	frigerant piping s	size ( O.D )	mm	Liquid line: $\phi$ 6.35 ( 1/4" ) Gas line: $\phi$ 9.52 ( 3/8" )				
	Co	nnecting method	k		Flare connection				
Installation da	ita Att	ached length of	piping	m	_				
	Ins	ulation for piping	J		Necessary (Both sides), independent				
	Dra	ain hose				Hose cor	nectable with VP25(O.D.3	2)	
Drain pump, r	nax lift heigh	nt		mm		Bu	ilt-in Drain pump, 850		
Interconnectir	ng wires	Size x Core nu	mber		1.5mm <sup>2</sup> x 4 co	ores ( Including e	earth cable ) / Terminal blo	ck (Screw fixing type)	
IP number	-						IPX0		
Standard acce	essories					Mc	ounting kit, Drain hose		
Option parts					OA spac		, TC-OAD-E, Motion sense	or : LB-TC-5W-E	
	(1) The data	are measured at	the following	g conditic	·		The pipe length is 5m.		
[		Item Ind	door air tem	perature	Outdoor air t	emperature	Otarad		
	Operation	$\frown$	DB	WB	DB	WB	Standards		
F	Cooli		7°C	19°C	35°C	24°C	ISO15042-T1		
F	Heati	<u> </u>	0°C		7°C	6°C	ISO15042-H1		
	i ioali			-	, , , , , ,	00	10010042-111		



				Model	FDTC35VH					
Item					Panel sta	andard : TC-PS	A-5AW-E, Draft prevention	: TC-PSAE-5AW-E		
Power source						1 Phase	, 220–240 V, 50Hz/220V, 60	)Hz		
	Nominal cooli	Nominal cooling capacity (range)		kW		3.5				
	Nominal heati	Nominal heating capacity (range)		kW			4.5			
	O a series a series a	C	Cooling				52			
Operation data	Sound power	r level H	Heating				54			
	Cound proces	C	Cooling	dB(A)		P-Hi:	39 Hi: 36 Me: 32 Lo: 29	)		
	Sound pressu	H level ar	leating			P-Hi:	41 Hi: 38 Me: 34 Lo: 30	)		
	Silent mode se	ound press	sure level				_			
Exterior dimensions (Height x Width x Depth)				mm			Unit 248 × 570 × 570 Panel 10 × 620 × 620			
Exterior appeara	nce						Fine snow			
(Equivalent color	)				(8.0Y 9.3/0.1), RAL: 9003					
Net weight				kg			Unit : 14, Panel : 2.5			
Heat exchanger						Louve	r fins & inner grooved tubin	g		
Fan type & Q'ty							Turbo fan x 1			
Fan motor (Starting method)				W		50 (Direct drive)				
Cooling			Cooling		P-Hi: 9.0 Hi: 8.0 Me: 7.5 Lo: 6.5					
Air flow	Heating		m³/min	P-Hi: 10.0 Hi: 9.0 Me: 8.0 Lo: 7.0						
Available external static pressure			Pa			0				
Outside air intake							possible			
Air filter, Quality / Quantity						Pocke	t plastic net ( washable ) x	1		
Shock & vibration absorber					Rub	ober sleeve (for fan motor)				
	Remote cont	trol			Wired : RC - EX	3A, RC - E5, R	CH - E3 (option), Wireless :	RCN-TC-5AW-E2 (option		
Operation contro	Room tempe	Room temperature control				Tł	nermostat by electronics			
	Operation dis	splay					_			
Safety equipmer	nts				Overload protection for fan motor, Frost protection thermostat					
	Refrigerant p	piping size	(O.D)	mm	Liquid line: $\phi$ 6.35 ( 1/4" ) Gas line: $\phi$ 9.52 ( 3/8" )					
	Connecting r	nethod	, ,		Flare connection					
Installation data	Attached leng	gth of pipi	ng	m						
	Insulation for	• • •	2		Necessary (Both sides), independent					
	Drain hose				Hose connectable with VP25(O.D.32)					
Drain pump, ma	k lift height			mm		В	Built-in Drain pump, 850			
Interconnecting		ore numbe	er		1.5mm <sup>2</sup> x 4 c		earth cable ) / Terminal blo	ock ( Screw fixing type )		
IP number							IPX0	/		
Standard access	ories					N	Iounting kit, Drain hose			
Option parts					OA spa	cer : TC-OAS-E	E2, TC-OAD-E, Motion sens	sor : LB-TC-5W-E		
Notes (1)	The data are measu		following	g conditio	ons.		The pipe length is 5m.			
Item		Indoo	r air tem	oerature	Outdoor air	temperature	Standards			
Op	Operation			WB	DB	WB				
	Cooling	27°C	;	19°C	35°C	24°C	ISO15042-T1			
	Heating	20°C	;	_	7°C	6°C	ISO15042-H1			
(3) 5	This air-conditioner i Sound level indicate During operation the	s the value	e in an a	nechoic (	chamber.					

Adapted	to	RoHS	directive
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				Model	FDTC50VH					
Item					Panel star	ndard : TC-PS/	A-5AW-E, Draft prevention	: TC-PSAE-5AW-E		
Power source	)					1 Phase,	, 220–240 V, 50Hz/220V, 60	Hz		
	No	minal cooling cap	acity (range)	kW		5.0				
	No	Nominal heating capacity (range)		kW	5.8					
			Cooling				59			
Operation dat	ia So	ound power level	Heating				59			
			Cooling	dB(A)		P-Hi:	44 Hi: 40 Me: 35 Lo: 27			
	So	ound pressure leve	Heating			P-Hi:	44 Hi: 40 Me: 35 Lo: 27			
	Sil	ent mode sound pr	essure level				_			
Exterior dimensions (Height x Width x Depth)				mm			Unit 248 × 570 × 570 Panel 10 × 620 × 620			
Exterior appearance ( Equivalent color )						( 8	Fine snow .0Y 9.3/0.1 ) , RAL : 9001			
Net weight				kg		(0	Unit : 14, Panel : 2.5			
Heat exchanger						Louver	fins & inner grooved tubing	a		
Fan type & Q'ty					200701	Turbo fan x 1	3			
<i>3</i> 1	Fan type & Q ty Fan motor (Starting method)			w			50 (Direct drive)			
Cooling					P-Hi: 13	.0 Hi: 11.0 Me: 9.0 Lo: 7	7.0			
Air flow Heating			m³/min	P-Hi: 13.0 Hi: 11.0 Me: 9.0 Lo: 7.0						
Available external static pressure			Pa			0				
Outside air intake							Possible			
Air filter, Quality / Quantity						t plastic net ( washable ) x	1			
Shock & vibration absorber						ber sleeve (for fan motor)				
		Remote control			Wired : RC - EX3		CH - E3 (option), Wireless :	RCN-TC-5AW-E2 (option)		
Operation cor		Room temperature control				Th	ermostat by electronics			
	· ·	peration display					_			
Safety equipn	1				Overload protection for fan motor, Frost protection thermostat					
		efrigerant piping s	, ,	mm	Liquid line: $\phi$ 6.35 (1/4") Gas line: $\phi$ 12.7 (1/2")					
		onnecting method			Flare connection					
Installation da		tached length of p		m			_			
		sulation for piping					ary (Both sides), independe			
		ain hose					onnectable with VP25(O.D.3	32)		
Drain pump, r		1		mm	0		uilt-in Drain pump, 850			
Interconnectir	ng wires	Size x Core nur	nber		1.5mm <sup>2</sup> x 4 co	res (Including	earth cable ) / Terminal blo	ck (Screw fixing type)		
IP number							IPX0			
Standard acc	essories						lounting kit, Drain hose			
Option parts					OA spac	er : TC-OAS-E	2, TC-OAD-E, Motion sens	or : LB-TC-5W-E		
Notes (	(1) The data	are measured at t		-			The pipe length is 5m.			
Item			loor air tem		Outdoor air te		Standards			
	Operation		DB	WB	DB	WB				
	Cool	ing 2	7°C	19°C	35°C	24°C	ISO15042-T1			
	Heat	ing 2	0°C	_	7°C	6°C	ISO15042-H1			
,	Heati 2) This air-cc 3) Sound lev	ing 2 onditioner is manu rel indicates the v	0°C ufactured ar alue in an a	- nd tested	7°C in conformity with	6°C the ISO.				

Adapted to <b>RoHS</b> directi
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			Model	FDTC60VH					
Item				Panel standard : TC-PSA-5AW-E, Draft prevention : TC-PSAE-5AW-E					
Power source					1 Phase,	220-240 V, 50Hz/220V, 60	Hz		
	Nominal cooling	capacity (range	kW			6.0			
	Nominal heating	Nominal heating capacity (range)			6.8				
		Cooling				60			
Operation data	Sound power le	Heating	1 1			60			
		, Cooling	dB(A)		P-Hi:	46 Hi: 42 Me: 38 Lo: 31			
	Sound pressure I	Heating	1 1		P-Hi:	46 Hi: 42 Me: 38 Lo: 31			
	Silent mode sound pressure le		1 1			_			
Exterior dimensions (Height x Width x Depth)						Unit 248 × 570 × 570 Panel 10 × 620 × 620			
Exterior appear ( Equivalent cold				( 8	Fine snow .0Y 9.3/0.1 ) , RAL : 9001				
Net weight			kg			Unit : 14, Panel : 2.5			
Heat exchanger					Louver	fins & inner grooved tubing	J		
Fan type & Q'ty						Turbo fan x 1			
Fan motor (Starting method)			W			50 (Direct drive)			
A	, ,	Cooling	37 .	P-Hi: 14.0 Hi: 12.0 Me: 10.0 Lo: 8.0					
Air flow Heating		- m³/min		P-Hi: 14.	0 Hi: 12.0 Me: 10.0 Lo: 8	3.0			
Available external static pressure			Pa			0			
Outside air intake						Possible			
Air filter, Quality / Quantity					Pocke	t plastic net ( washable ) x 1	l		
Shock & vibration absorber					Rub	ber sleeve (for fan motor)			
	Remote control			Wired : RC - EX3	8A, RC - E5, RC	CH - E3 (option), Wireless : F	RCN-TC-5AW-E2 (optior		
Operation contr	rol Room temperati	ure control			Th	ermostat by electronics			
	Operation displa	ıy				_			
Safety equipme	ents			Overle	pad protection	for fan motor, Frost protecti	on thermostat		
	Refrigerant pipir	ng size ( O.D )	mm	Liquid line: $\phi$ 6.35 (1/4") Gas line: $\phi$ 12.7 (1/2")					
	Connecting met	hod		Flare connection					
Installation data	Attached length	of piping	m	_					
	Insulation for pip	bing		Necessary (Both sides), independent					
	Drain hose				Hose co	nnectable with VP25(O.D.3	2)		
Drain pump, ma	ax lift height		mm		B	uilt-in Drain pump, 850			
Interconnecting	wires Size x Core	number		1.5mm <sup>2</sup> x 4 co	ores ( Including	earth cable ) / Terminal blog	ck (Screw fixing type)		
IP number						IPX0			
Standard acces	sories				М	ounting kit, Drain hose			
Option parts				OA spac		2, TC-OAD-E, Motion sense	or : LB-TC-5W-E		
	The data are measured	at the followin	g conditio	ons.		The pipe length is 5m.			
Item		Indoor air tem	perature	Outdoor air t	emperature	Standards			
0	peration	DB	WB	DB	WB	Stanuarus			
	Cooling	27°C	19°C	35°C	24°C	ISO15042-T1			
	Heating	20°C	_	7°C	6°C	ISO15042-H1			
( )	This air-conditioner is m Sound level indicates th During operation these	ie value in an a	nechoic d	chamber.					

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

				Model	FDUM50VH					
Item										
Power source							1 Phase, 220-240 V, 50	Hz/220V, 60Hz		
		lominal cooling capa		kW		5.0				
	1	lominal heating capa		kW			5.8			
	5	ound power level	Cooling				60			
Operation da	ita		Heating				60			
	5	ound pressure level	Cooling	dB(A)			P-Hi: 37 Hi: 32 Me			
			Heating				P-Hi: 37 Hi: 32 Me	: 29 Lo: 26		
		ilent mode sound pre		mm			-			
	xterior dimensions (Height x Width x Depth)						280 × 750 ×	635		
Exterior appearance ( Equivalent color )							_			
Net weight				kg			29			
Heat exchang	ger						Louver fins & inner gro	•		
Fan type & Q'ty							Centrifugal fa			
Fan motor (Starting method)				W			100 (Direct d	,		
Air flow Cooling			m³/min			P-Hi: 13.0 Hi: 10.0 N				
-	Heating			Pa			P-Hi: 13.0 Hi: 10.0 N			
Available external static pressure					Standard: 35, Max: 100					
Outside air intake					Possible					
Air filter, Quality / Quantity							Procure loca	ally		
Shock & vibra	Shock & vibration absorber						Rubber sleeve (for	,		
	F	Remote control			Wired	: RC - EX3A, I	RC - E5, RCH - E3 (optic	n), Wireless : RCN	KIT4-E2 (option	
Operation co	ntrol F	loom temperature c				Thermostat by ele	ectronics			
		Deration display					-			
Safety equipr	ments						rotection for fan motor, F	rost protection the	rmostat	
		Refrigerant piping siz	ze ( O.D )	mm	Liquid line: $\phi$ 6.35 (1/4") Gas line: $\phi$ 12.7 (1/2")					
		Connecting method					Flare connec	tion		
Installation da	-	ttached length of p	iping	m			_			
	_	nsulation for piping			Necessary (Both sides), independent					
		Prain hose					Hose connectable with	. ,		
Drain pump,		-		mm		0	Built-in Drain pu	1.1		
Interconnecti	ing wires	Size x Core num	iber		1.5m	m <sup>-</sup> x 4 cores (	Including earth cable ) /	Ierminal block ( Sc	rew fixing type )	
IP number							IPX0			
Standard acc	cessories						Mounting kit, Dra			
Option parts						Fil	ter set: UM-FL1EF, Motio	on sensor: LB-KIT		
Notes	(1) The data	a are measured at th	e following	conditio	ons.			The pipe length is 7.5m		
		tem Indoor air te	mperature	0	utdoor air	temperature	External static pressure	Ctandards		
	Operation	DB	WB		DB	WB	of indoor unit	Standards		
	Cooling	Cooling 27°C 19°C			35°C	24°C	055	ISO15042-T1		
Heating 20°C -					7°C	6°C	- 35Pa	ISO15042-H1		
	<ul><li>(3) Sound p these va</li><li>(4) The operation</li></ul>	kaged air-condition pressure level indica lues are somewhat l ration data indicate ressure of option air	tes the valu nigher due when the a	ue in an a to ambie air-condi	anechoic o ent tempera tioner is o	chamber. Durin ature. perated at 230				

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### (5) Ceiling suspended type (FDE)

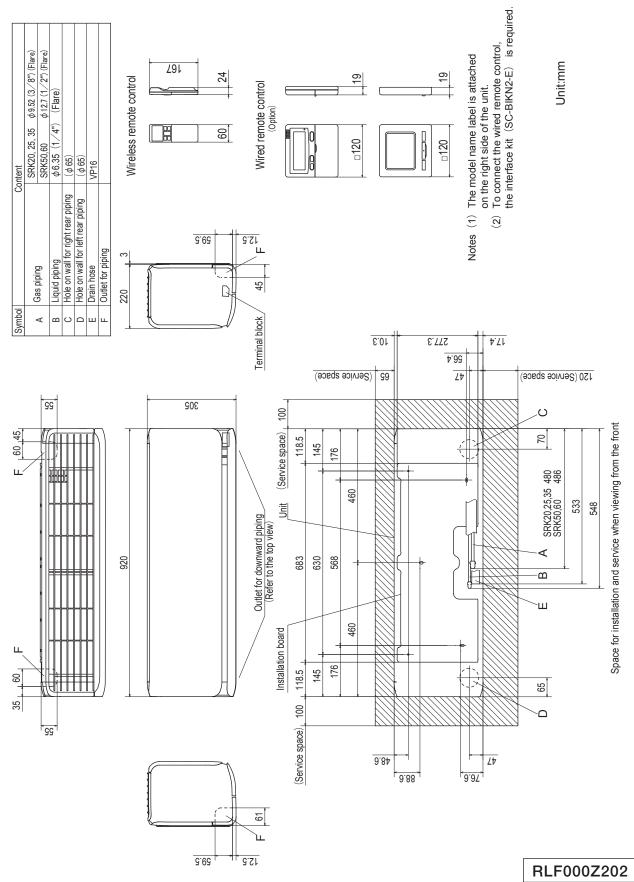
Item				Model			FDE50VH		
Power source						1 Phase	, 220–240 V, 50Hz/220V, 60	)Hz	
ower source	Nominal coolin	a canaci	ty (range)	kW		1111030	5.0	511 <u>2</u>	
		Nominal cooling capacity (range) Nominal heating capacity (range)			5.8				
	Normarticatin	<u> </u>	Cooling	kW			0.0		
Operation data	Sound power	level –	Heating				60		
oporation data			Cooling						
	Sound pressure	e level ⊢	Heating			P-Hi:	46 Hi: 38 Me: 36 Lo: 31		
	Silent mode sou		0				_		
Exterior dimens	ions (Height x Width x			mm			210 × 1070 × 690		
Exterior appear	ance	. ,			Plaster white				
(Munsell color)						( 6.8	3Y 8.9/0.2 ) near equivalent		
Net weight				kg			28		
Heat exchanger					Louve	r fins & inner grooved tubin	g		
Fan type & Q'ty							Centrifugal fan x 2		
Fan motor (Starting method)				w			30 (Direct line start)		
Air flow Cooling Heating		·m³/min	P-Hi: 13.0 Hi: 10.0 Me: 9.0 Lo: 7.0						
Available external static pressure			Pa			0			
Outside air intake							Not possible		
Air filter, Quality / Quantity					Pocke	et plastic net ( washable ) x	2		
Shock & vibration absorber					Rub	ber sleeve (for fan motor)			
	Remote contro	ol			Wired : RC -	EX3A, RC - E5	, RCH - E3 (option), Wirele	ss : RCN-E-E3 (option)	
Operation contr	rol Room tempera	Room temperature control				Tł	nermostat by electronics		
	Operation disp	olay					_		
Safety equipme	ents				Overload protection for fan motor, Frost protection thermostat				
	Refrigerant pip	oing size	e(O.D)	mm	Liquid line: $\phi$ 6.35 ( 1/4" ) Gas line: $\phi$ 12.7 ( 1/2" )				
	Connecting m	ethod			Flare connection				
Installation data	Attached lengt	Attached length of piping			-				
	Insulation for p	oiping			Necessary (Both sides), independent				
	Drain hose				Hose connectable with VP20(O.D.26)				
Drain pump, ma	ax lift height			mm			_		
Interconnecting	wires Size x Co	re numb	er		1.5mm <sup>2</sup> x 4 c	ores ( Including	earth cable ) / Terminal blo	ock (Screw fixing type)	
IP number							IPX0		
Standard acces	sories					N	Iounting kit, Drain hose		
Option parts							Motion sensor : LB-E		
Notes (1) The data are measured at the followin				,	1	tomporaturo	The pipe length is 7.5m	]	
		DB	·	WB	Outdoor air DB	WB	Standards		
	peration				_		ISO15042 T1		
	Cooling	27°C		19°C	35°C	24°C	ISO15042-T1		
	Heating	20°C	_ ر	_	7°C	6°C	ISO15042-H1		

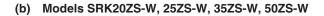


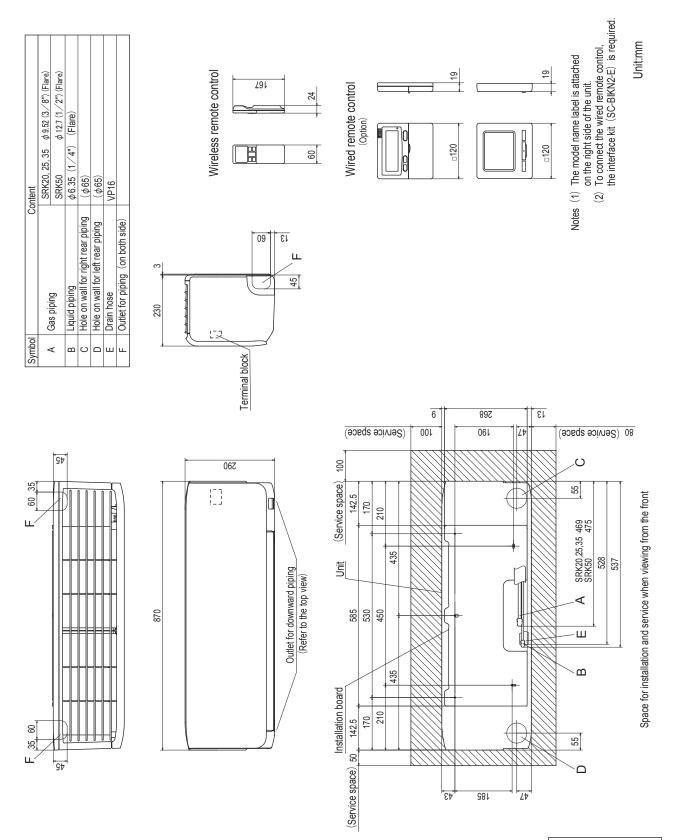
# 2.2 Exterior dimensions

(1) Wall mounted type (SRK)

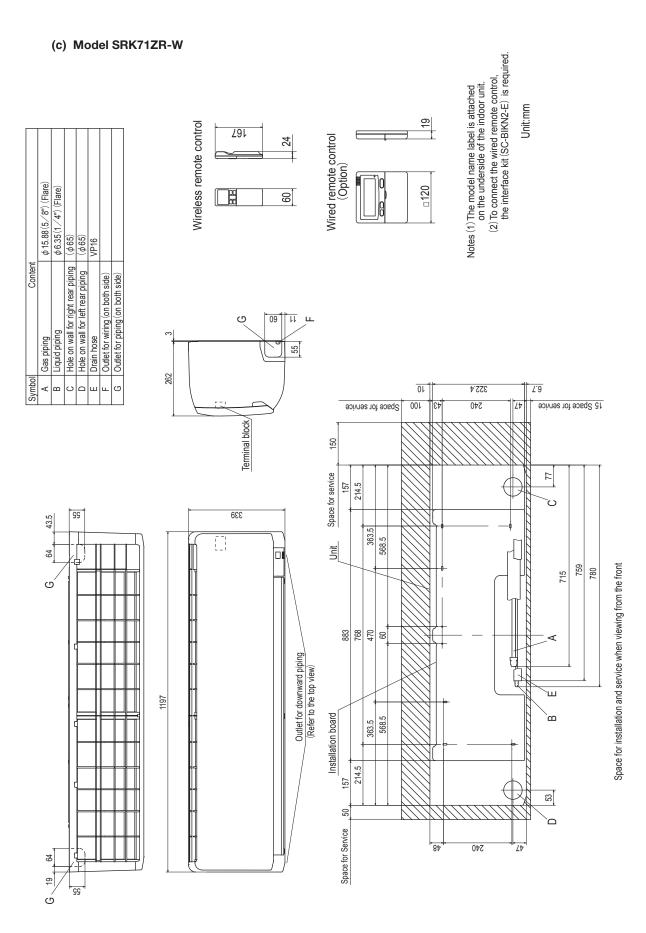
(a) Models SRK20ZSX-W, 25ZSX-W, 35ZSX-W, 50ZSX-W, 60ZSX-W



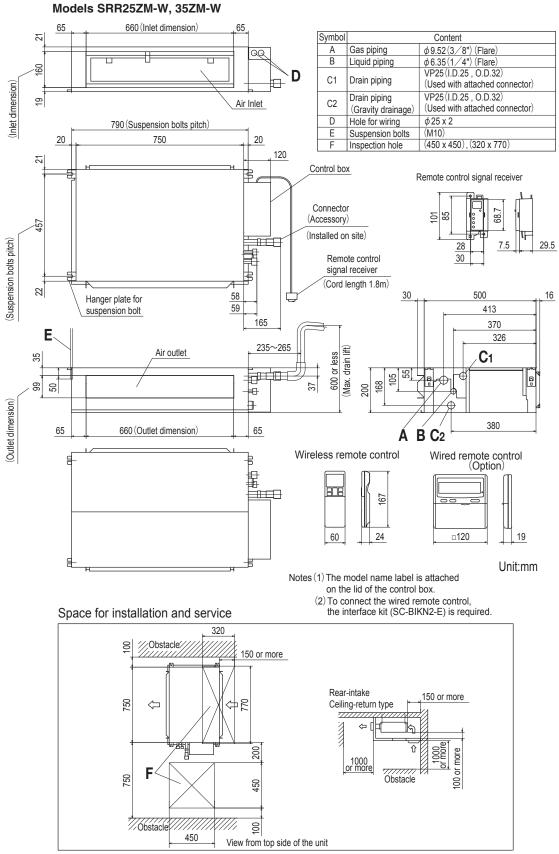




RLF000Z103



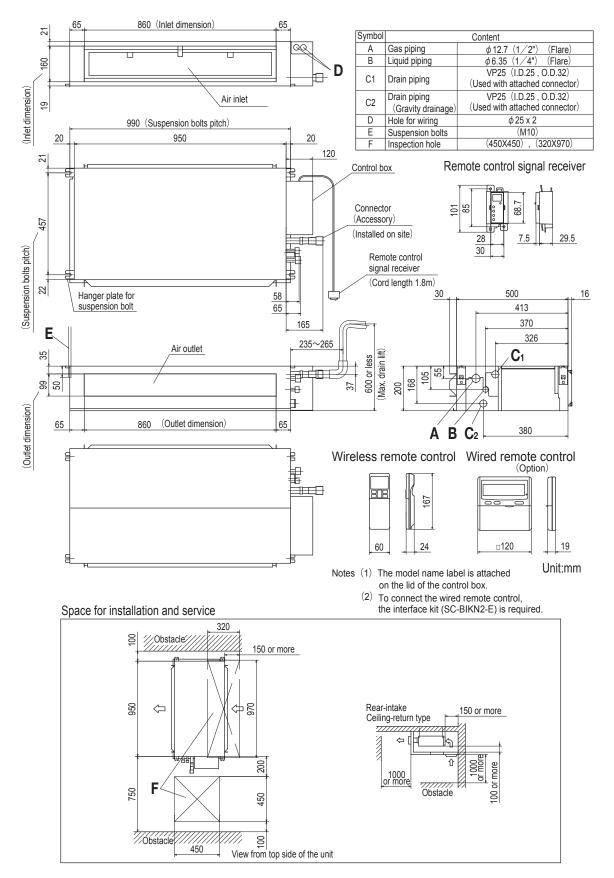
RLD000Z005



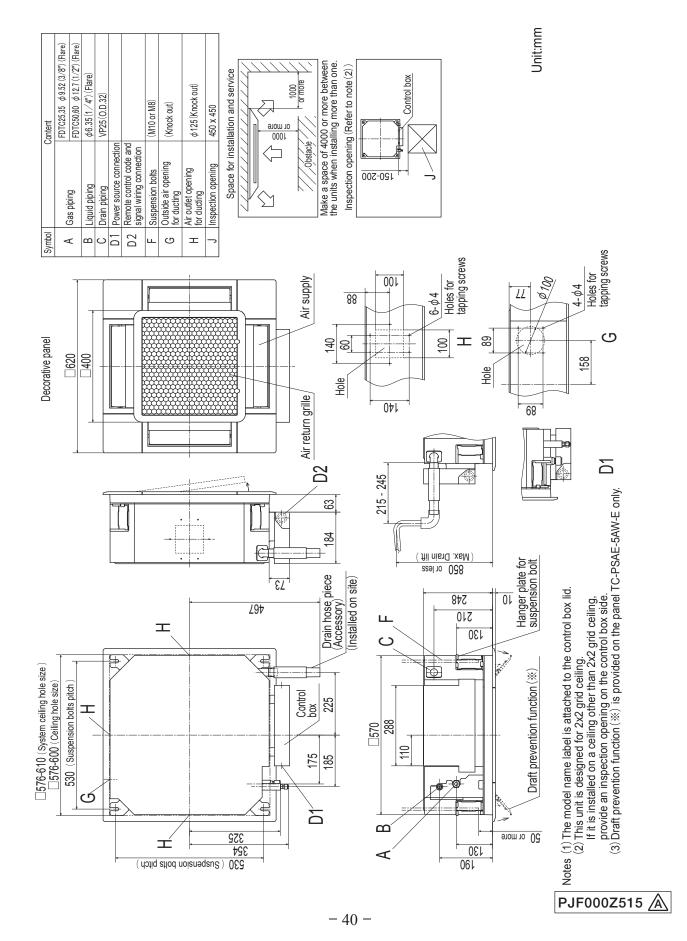
(2) Ceiling concealed type (SRR)

RJJ000Z001

#### Models SRR50ZS-W, 60ZS-W

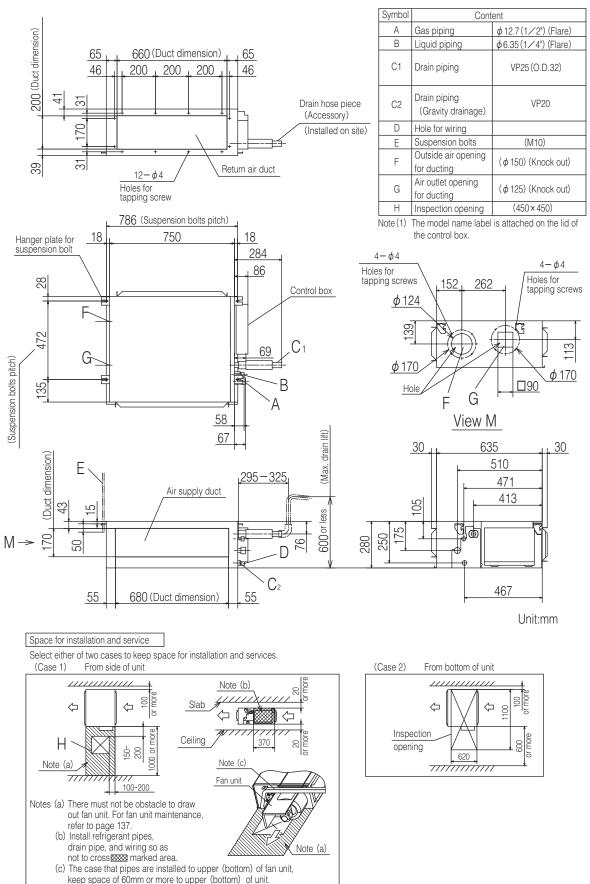


RJJ000Z002



# (3) 4-way ceiling cassette type (FDTC) Models FDTC25VH, 35VH, 50VH, 60VH

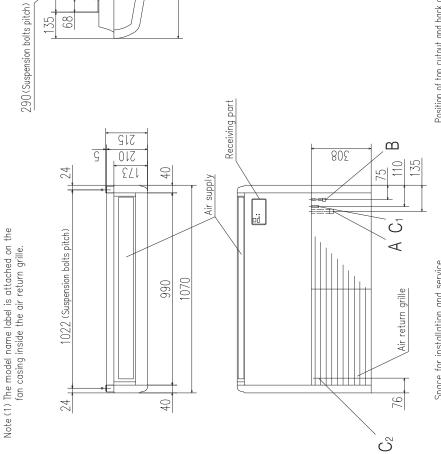
(4) Duct connected-Low / Middle static pressure type (FDUM) Model FDUM50VH

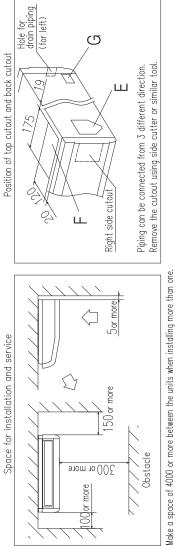


Model FDE50VH Note) The slope of drain piping inside the unit must take decline of 10mm. 77 15 ¢12.7 (1/2") (Flare) £ς 01 60  $C_1, C_2$ 15 Content 20 07 801 <u>77</u> Drain hose piece (Accesory, 0.3m) (Installed on site) Gas piping <sup>C</sup>C<sub>1</sub>,C<sub>2</sub> m∢ Symbol 601 4 £ς 145 52 195 235 771  $\Box$ 690 410

(5) Ceiling suspended type (FDE)

68 135





PFA004Z084

Unit: mm

(Knock out)

Hole for drain piping (for left back)

0

Top cutout

Plate cover

PE cover

¢6.35(1/4")(Flare)

Liquid piping Drain piping Back cutout

C 1,2 മ

VP20

(M10 or M8)

Hole for suspension bolts

ш ц.

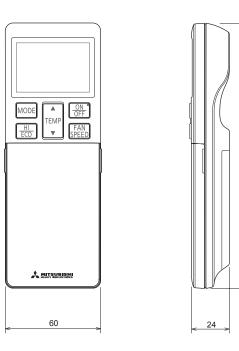
- 42 -

## (6) Remote control

(a) Wireless remote control

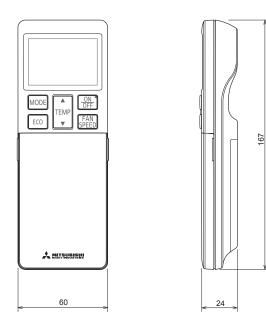
Unit:mm

## Models SRK, SRR (Standard parts)



167

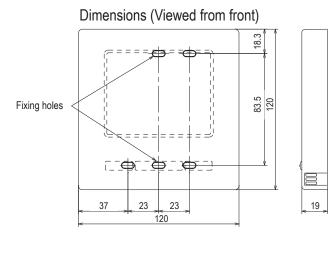
## Models FDTC, FDUM, FDE (Option parts)

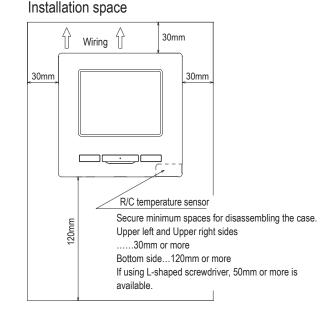


#### (b) Wired remote control (Option parts)

Interface kit (SC-BIKN2-E) is required to use the wired remote control.

#### Model RC-EX3A





#### • Do not install the remote control at following places.

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

4 When you are using the automatic grille up and down panel in the IU, you may not be able to

- confirm the up and down motion.
- Where the IU cannot be visually confirmed

#### 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.

#### R/C cable:0.3mm<sup>2</sup>x2 cores

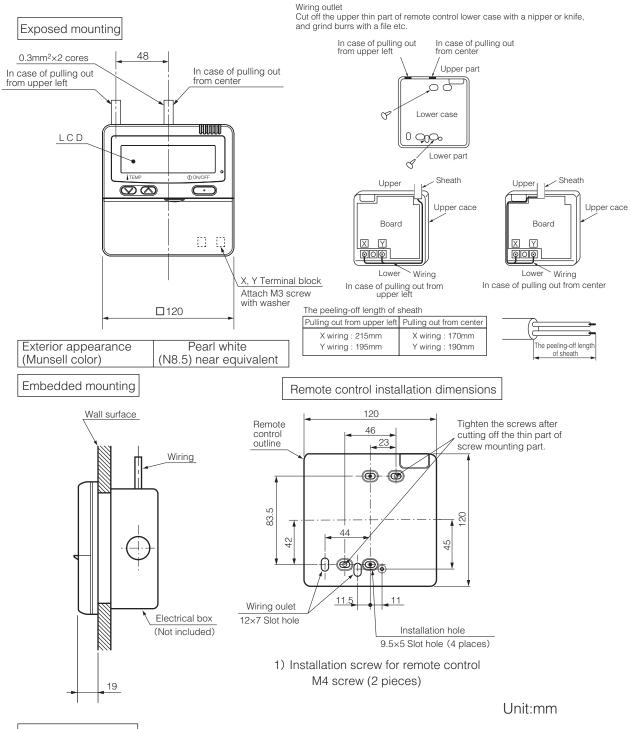
When the cable length is longer than 100 m, the max size for wires used in the R/C case is  $0.5 \text{ mm}^2$ . Connect them to wires of larger size near the outside of R/C. When wires are connected, take measures to prevent water, etc. from entering inside.

≦ 200 m	0.5 mm <sup>2</sup> x 2 cores			
≦ 300m	0.75 mm <sup>2</sup> x 2 cores			
≦ 400m	1.25 mm <sup>2</sup> x 2 cores			
≦ 600m	2.0 mm <sup>2</sup> x 2 cores			

Adapted RoHS directive

## PJZ000Z333

#### Model RC-E5



#### Wiring specifications

1) If the prolongation is over 100m, change to the size below.

But, wiring in the remote control case should be under 0.5mm<sup>2</sup>. Change the wire size outside of the case according to wire connecting. Waterproof treatment is necessary at the wire connecting section. Be careful about contact failure.

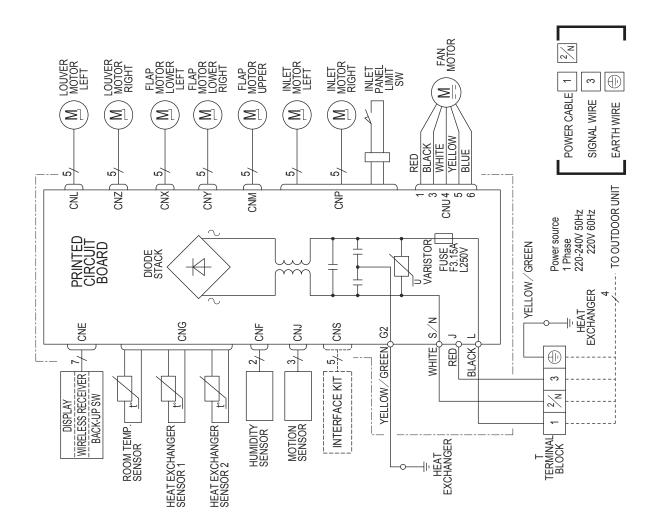
Length	Wiring thickness
100 to 200m	0.5mm <sup>2</sup> ×2 cores
Under 300m	0.75mm <sup>2</sup> ×2 cores
Under 400m	1.25mm <sup>2</sup> ×2 cores
Under 600m	2.0mm <sup>2</sup> ×2 cores

### PJZ000Z295

## 2.3 ELECTRICAL WIRING

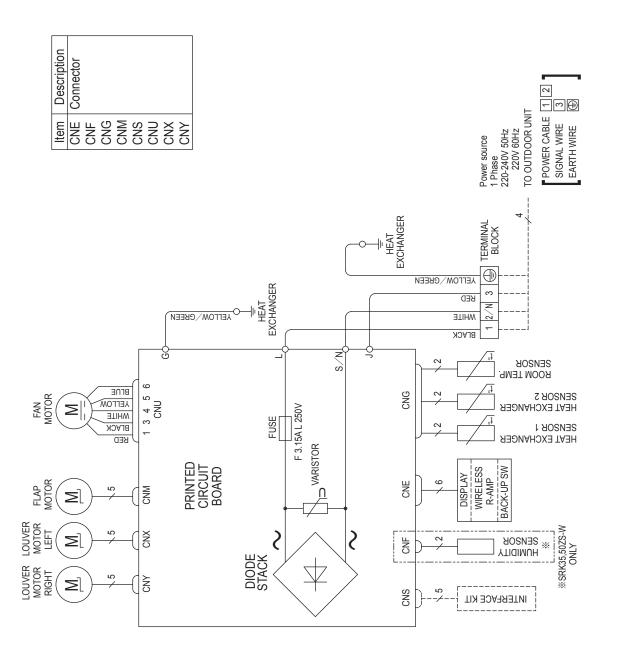
- (1) Wall mounted type (SRK)
  - (a) Models SRK20ZSX-W, 25ZSX-W, 35ZSX-W, 50ZSX-W, 60ZSX-W SRK20ZSX-WB, 25ZSX-WB, 35ZSX-WB, 50ZSX-WB, 60ZSX-WB SRK20ZSX-WT, 25ZSX-WT, 35ZSX-WT, 50ZSX-WT, 60ZSX-WT

Description	Connector											
ltem	CNE	CNF	CNG	CNJ	CNL	CNM	CNP	CNS	CNU	CNX	CNY	CNZ



RWA000Z413

(b) Models SRK20ZS-W, 25ZS-W, 35ZS-W, 50ZS-W SRK20ZS-WB, 25ZS-WB, 35ZS-WB, 50ZS-WB SRK20ZS-WT, 25ZS-WT, 35ZS-WT, 50ZS-WT

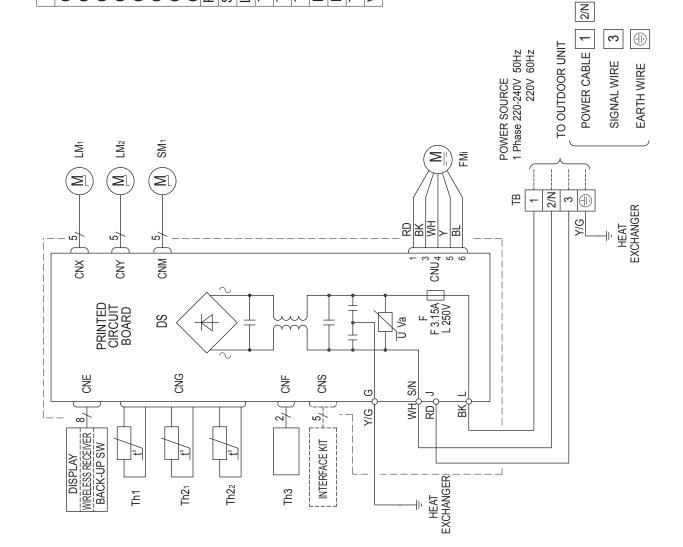


RWA000Z416

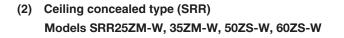
# (c) Model SRK71ZR-W

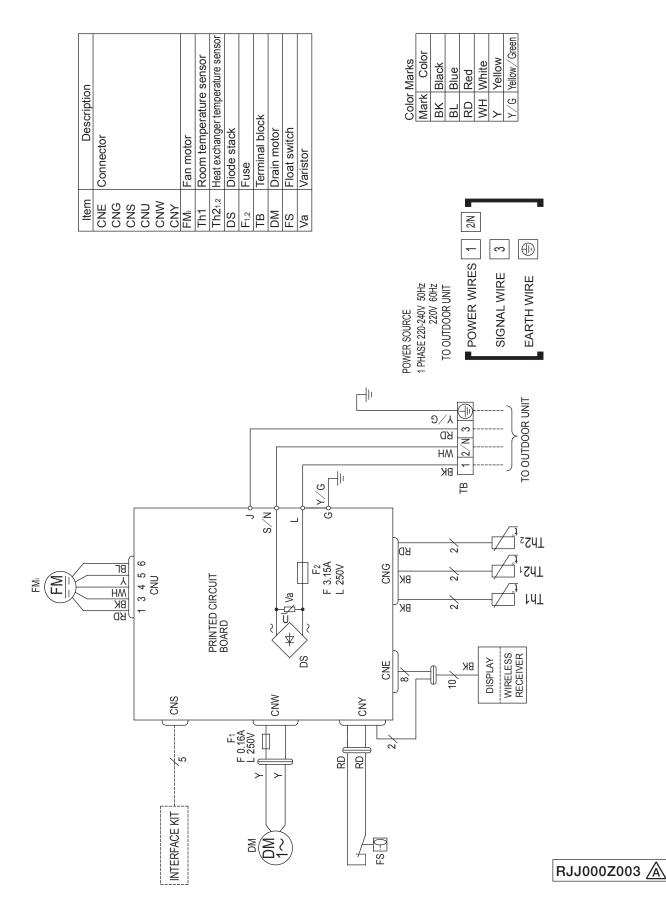
Description	Connector								Fan motor	Flap motor	Louver motor	Room temperature sensor	Heat exchanger temperature sensor	Humidity sensor	Diode stack	Fuse	Terminal block	Varistor	
ltem	CNE	CNF	CNG	CNM	CNS	CNU	CNX	CNY	FMi	SM1	LM <sub>1,2</sub>	Th1	Th2 <sub>1,2</sub>	Th3	DS	Ŀ	TB	Va	





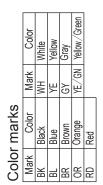
RWA000Z417

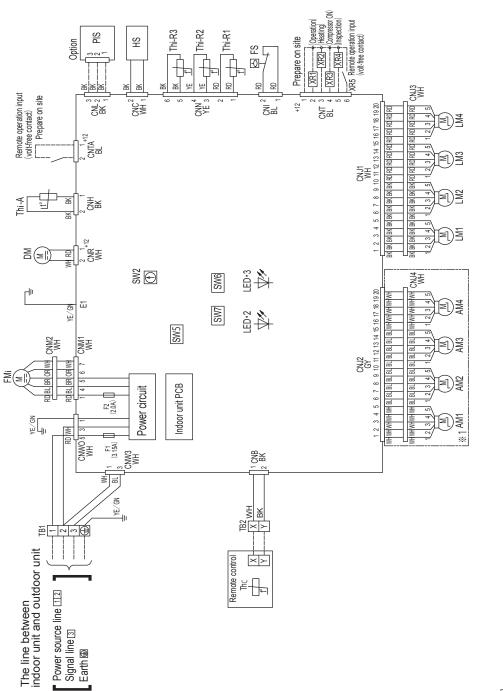




ta ta	
	Description
AM1 - 4	Draft prevention function motor
CNB - Z	Connector
DM	Drain pump motor
F1,2	Fuse
FMi	Fan motor
FS	Float switch
HS	Humidity sensor
-ED·2	Indication lamp (Green-Nomal operation)
-ED•3	Indication lamp (Red-Inspection)
LM1-4	Louver motor
PIS	Motion sensor
SW2	Remote control communication address
SW5	Plural units Master/Slave setting
SW6	Model capacity setting
SW7-1	Operation check, drain pump motor test run
<u>-</u> B1	Terminal block (Power source) ( mark)
B2	Terminal block (Signal line) ( mark)
ThC	Temperature sensor (Remote control)
Thi-A	Temperature sensor (Return air)
Thi-R1,2,3	Temperature sensor (Heat exchanger)

# (3) 4-way ceiling cassette type (FDTC) Models FDTC25VH, 35VH, 50VH, 60VH





Use twin core cord (0.3mm<sup>2</sup>) at remote control line. See spec sheet of remote control in case that the total length is more than 100m. Do not put remote control line alongside power source line. Draft prevention function (※ 1) is provided on the panel TC-PSAE-5AW-E only.

See the wiring diagram of outdoor unit about the line between

indoor unit and outdoor unit.

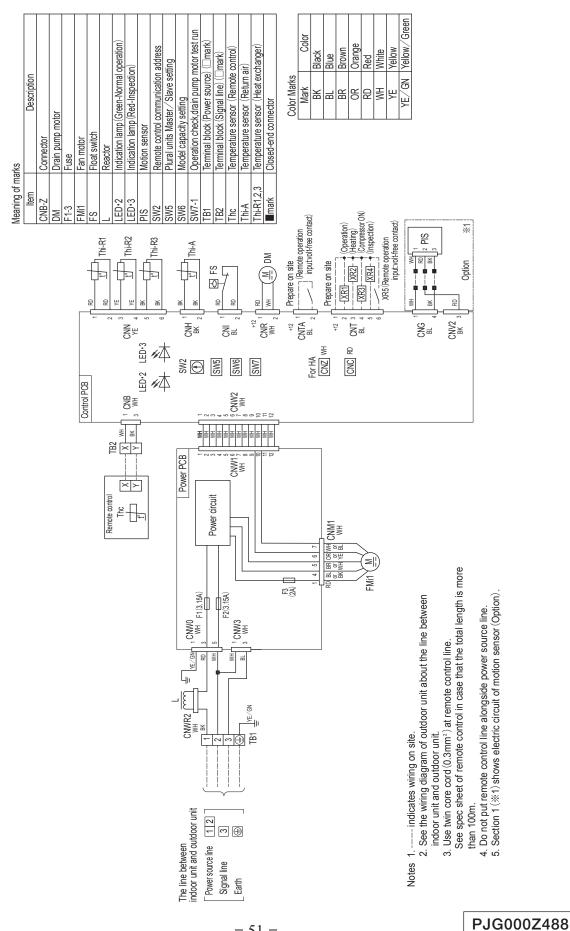
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PJF000Z516 🛕

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Notes 1. ---- indicates wiring on site.

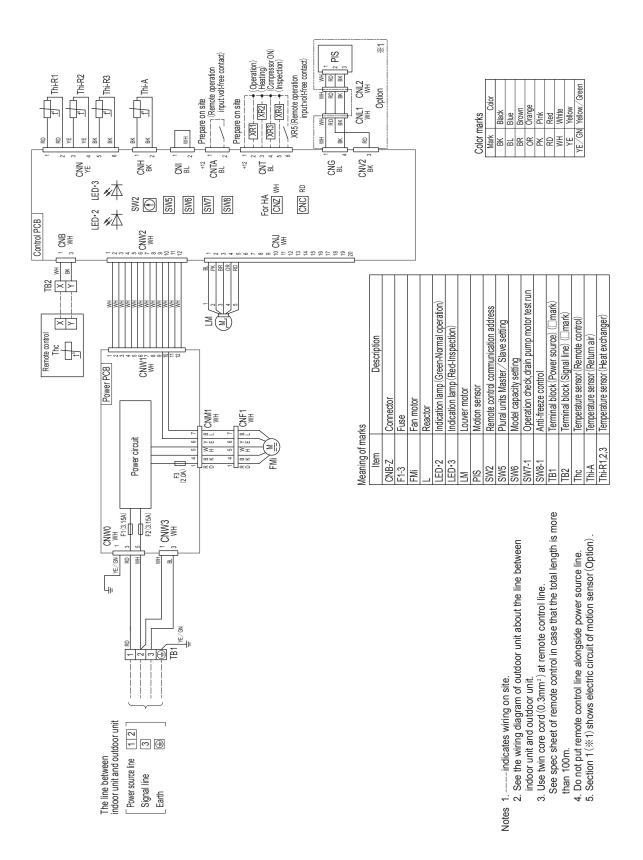
- 50 -



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

- 51 -

(5) Ceiling suspended type (FDE) Model FDE50VH



# 2.4 NOISE LEVEL

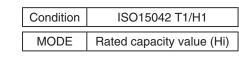
- (1) Wall mounted type (SRK)
  - (a) SRK ZSX series
    - (i) Sound power level

(Indoor ເ	unit)					
Model	SRK20	ZSX-W, -WB, -WT				
Noise	Cooling	53 dB(A)				
Level	Heating	55 dB(A)				

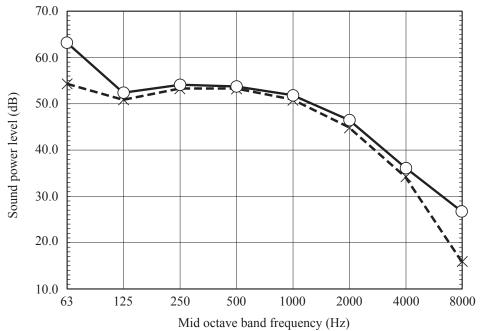
	Model SR	K20ZSX	-W, -V	VB, -WT			Con	dition		00150	140 T	.4 /L14	
r uni	t)						Con	dition		SO150	J4Z I	1/日1	
	,	ZSX-W	, -WB	, -WT			MC	DE	Rate	d capa	city v	/alue (H	li)
(	Cooling	1	53 dB										
	Heating	1	55 dB										
							×	· Cool	ing, C	) —— I	Heat	ing	
	70.0												
	Ē												
	60.0 F											_	
	-	N)	<u> </u>										
$\mathbf{B}$	50.0	(		-*			= 0						
el (d													
Sound power level (dB)													
ver	40.0												
l po										۶Ç,			
pun	30.0										- )	-*	
So	-											Ý	
	20.0												
	-												
	10.0 E 63	12	25	250	5	00	1000	20	00	4000	)	8000	
	55	12					frequenc						
				IVIIU	Jetavi	Joanu	inequence	y (112)					

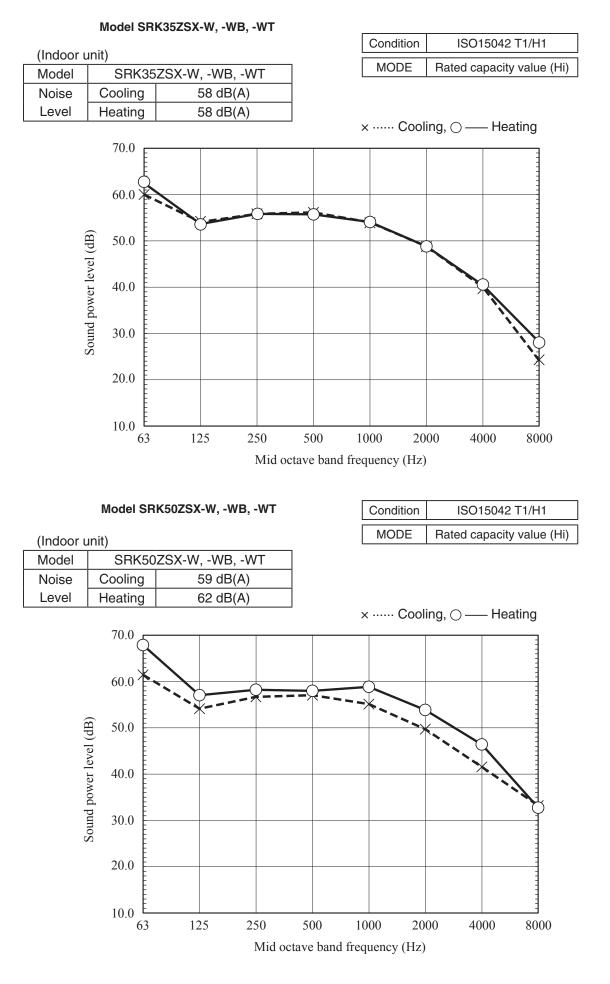
Model SRK25ZSX-W, -WB, -WT

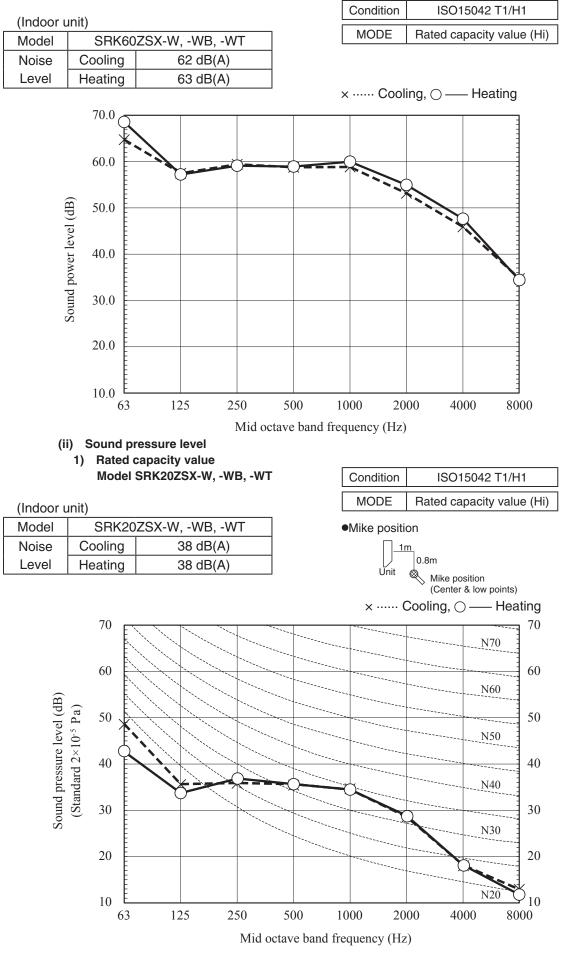
Model	SRK25ZSX-W, -WB, -WT					
Noise	Cooling	55 dB(A)				
Level	Heating	56 dB(A)				





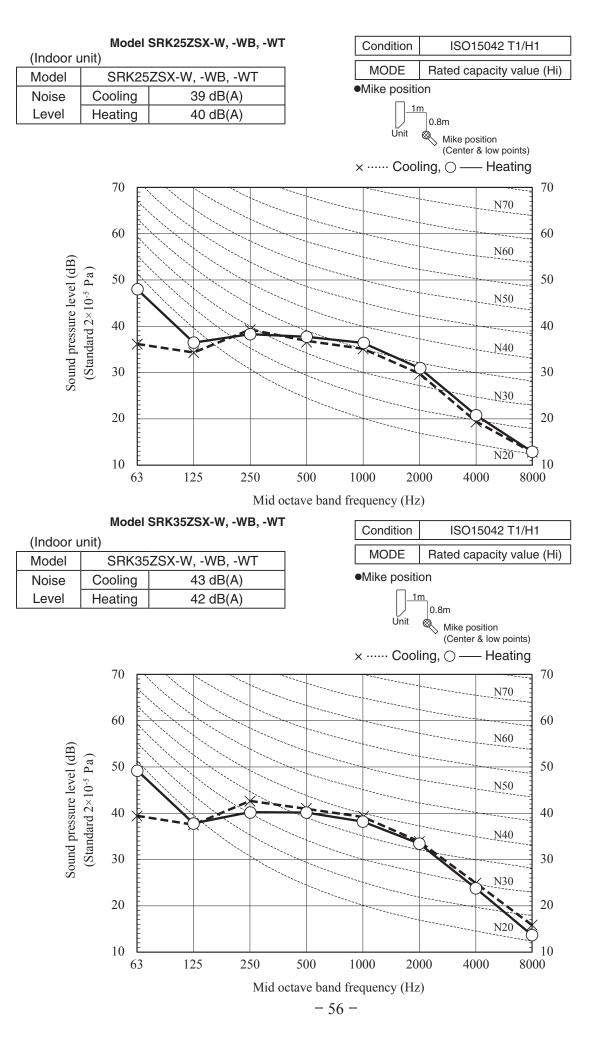


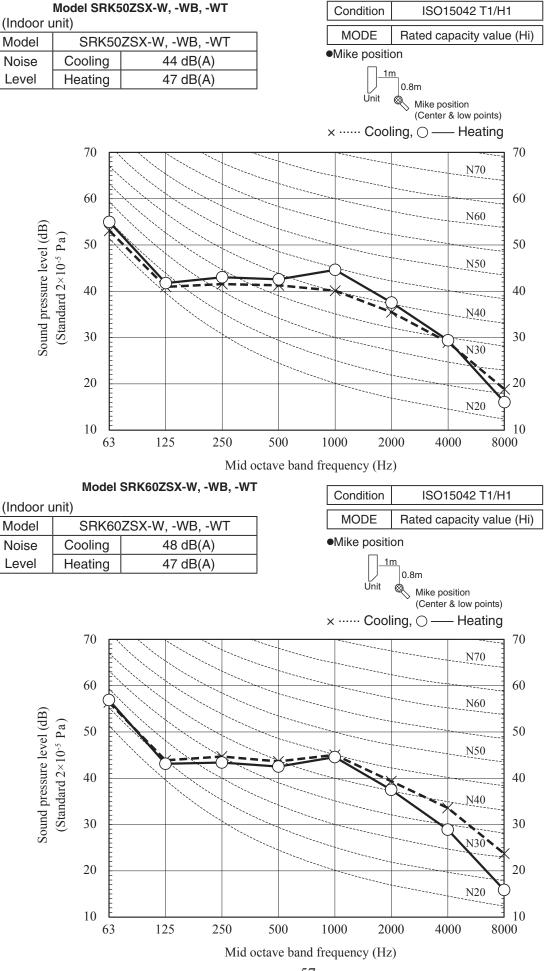




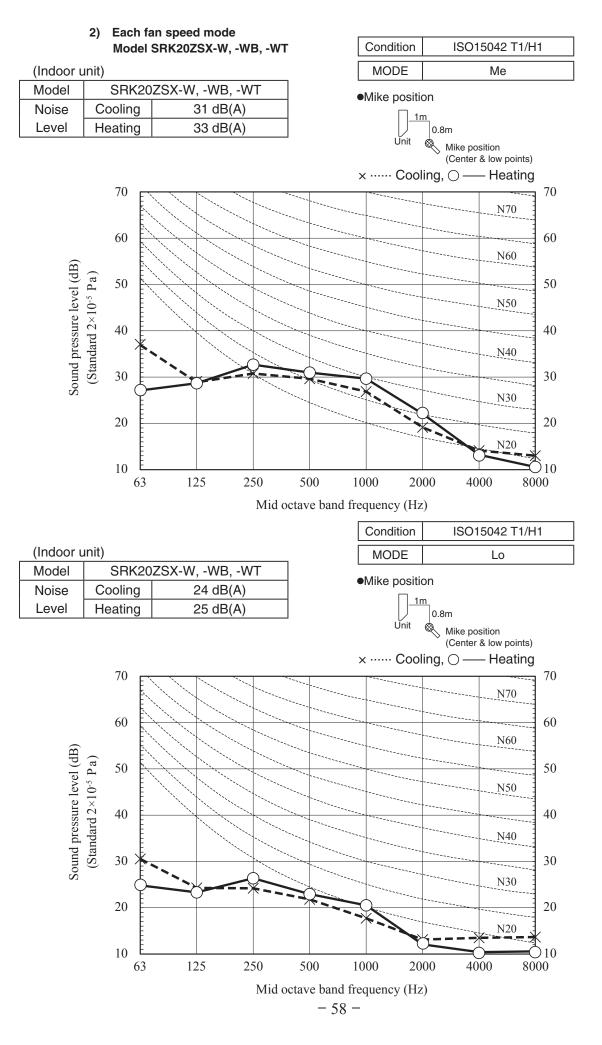
Model SRK60ZSX-W, -WB, -WT

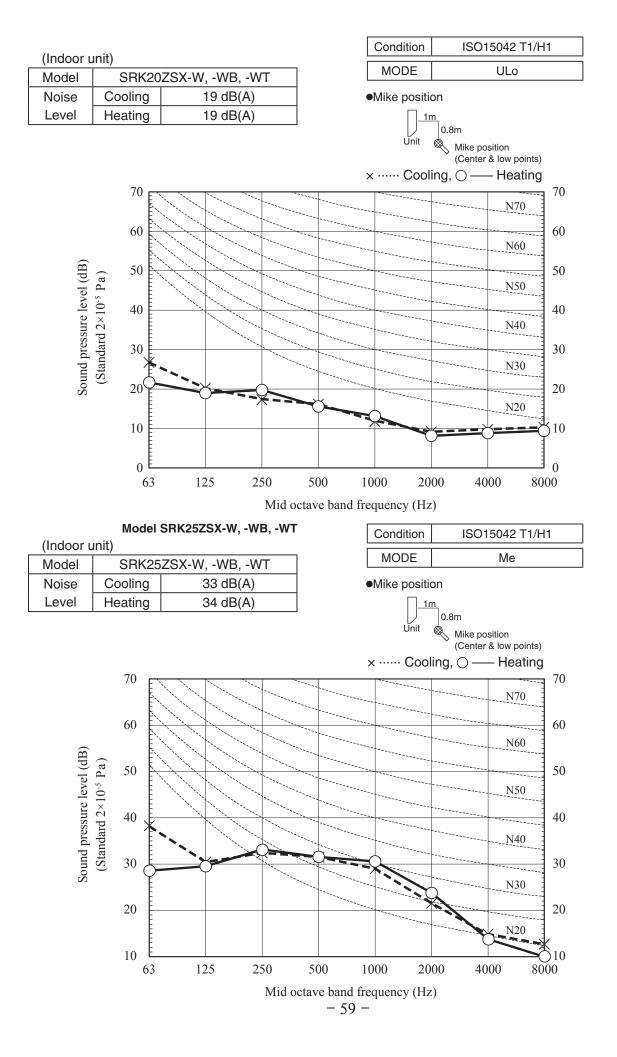
- 55 -

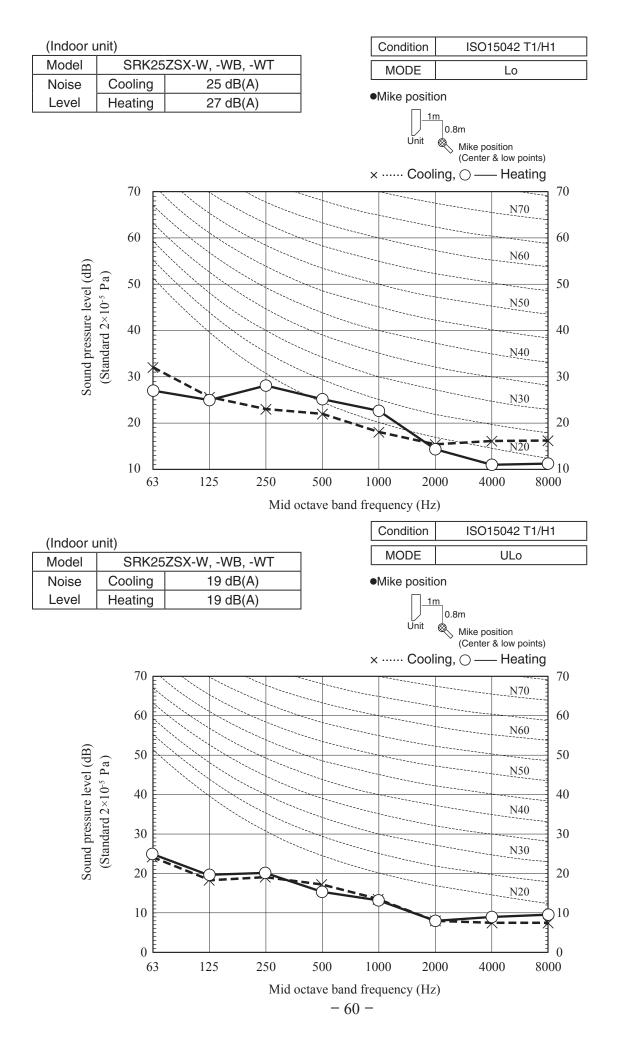


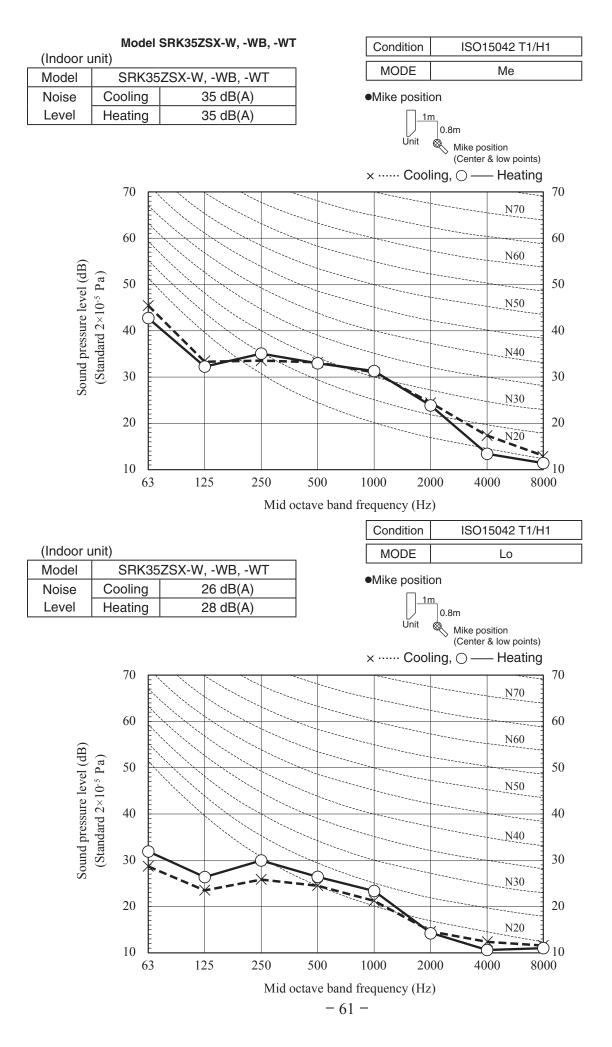


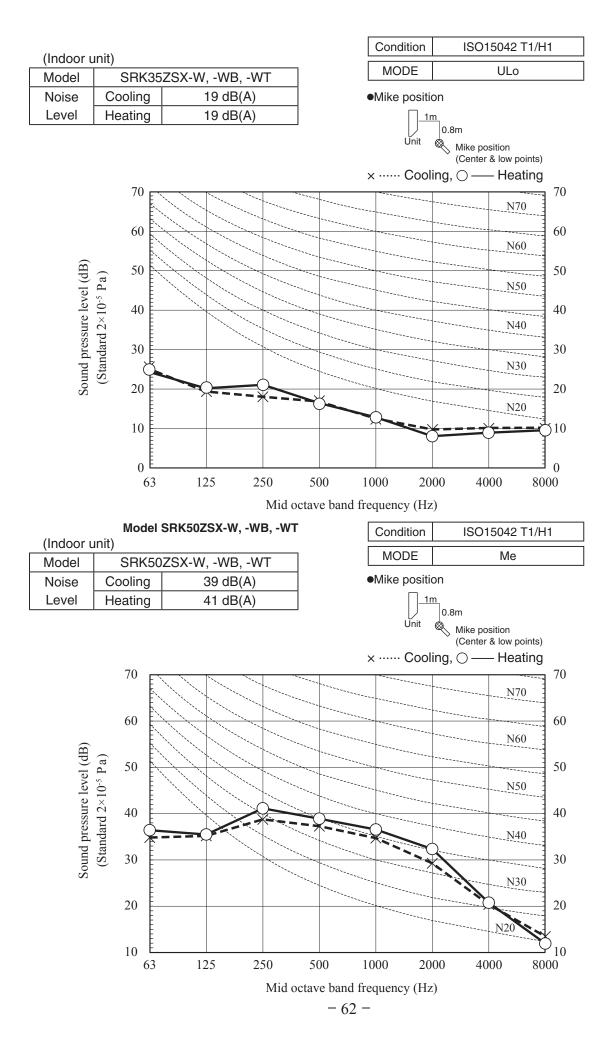
- 57 -

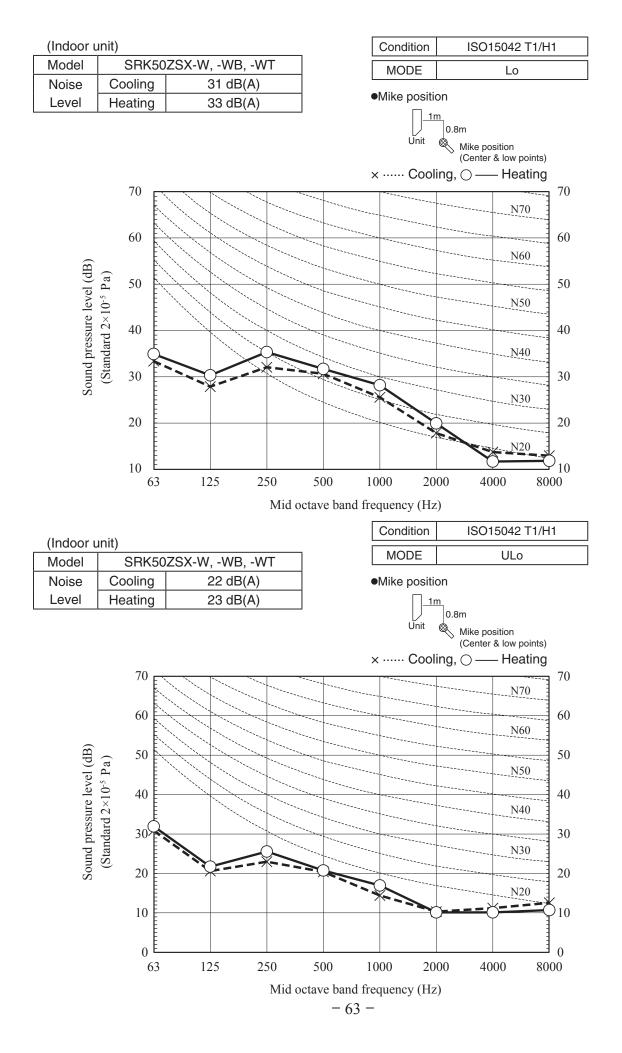


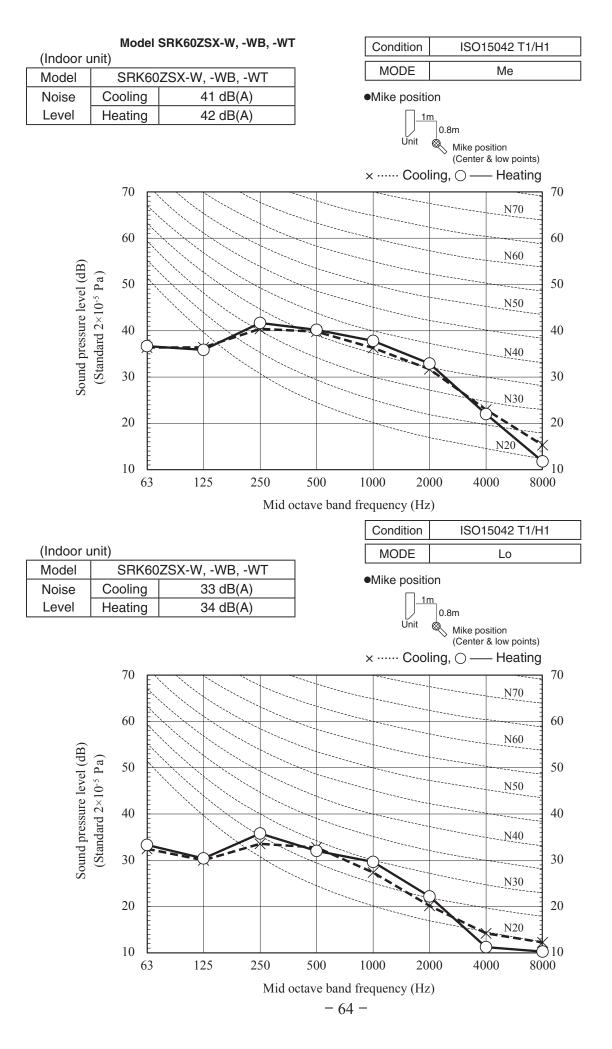


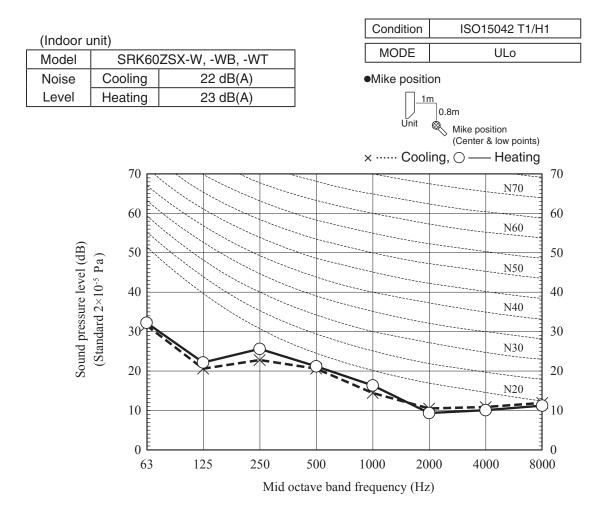












## (b) SRK-ZS series

(i) Sound power level Model SRK20ZS-W, -WB, -WT

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(Indoor u	init)				
Model	SRK2	OZS-W, WB, WT	]	MODE	Rated capacity value (Hi)
Noise	Cooling	48 dB(A)	]		
Level	Heating	50 dB(A)	]		
			-	× Coo	ling, $\bigcirc$ —— Heating
	<sup>70.0</sup> E				
	Ē				
	60.0				
6					
191	(fm) 50.0 40.0 30.0 30.0 40.0	*···			
10,00				×	
	40.0 E				
	30.0				
20					
	20.0				
	Ē				
	10.0 E				
	63	125 250			4000 8000
		Mid of	ctave band fre	equency (Hz)	)

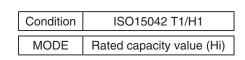
Condition

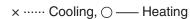
ISO15042 T1/H1

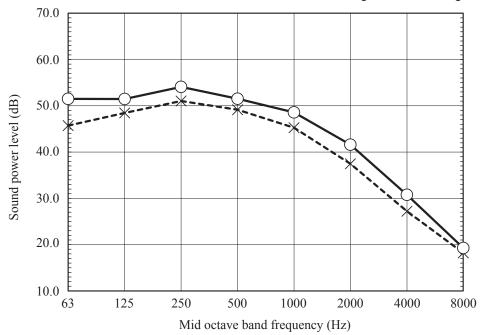


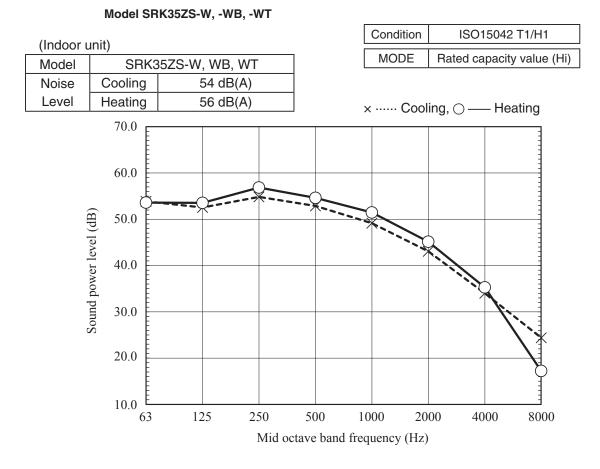
(Indoor unit)

Model	SRK25ZS-W, WB, WT					
Noise	Cooling	50 dB(A)				
Level	Heating	53 dB(A)				

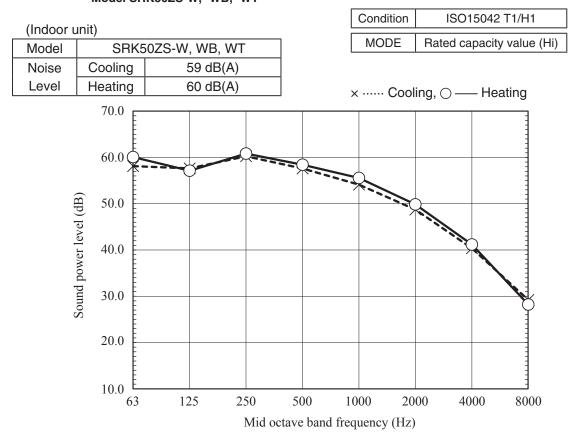






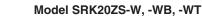


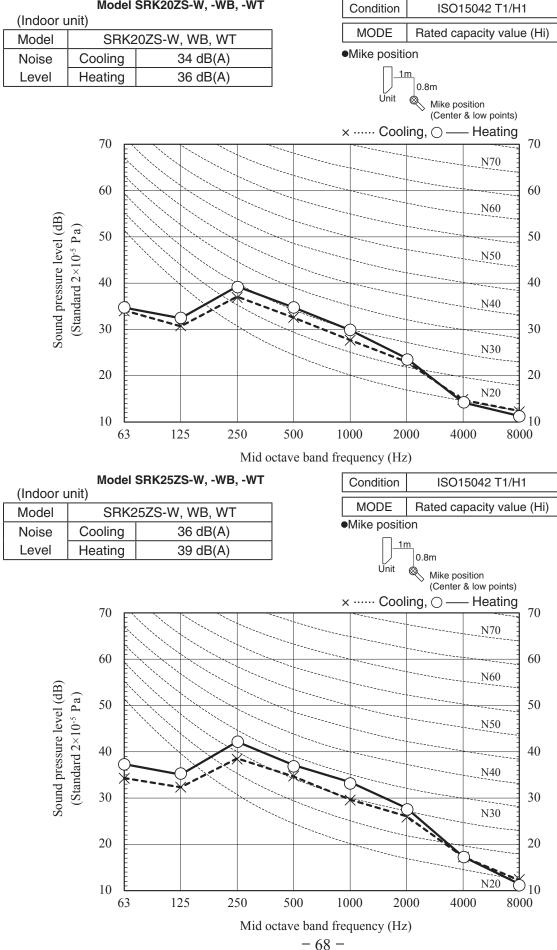
Model SRK50ZS-W, -WB, -WT

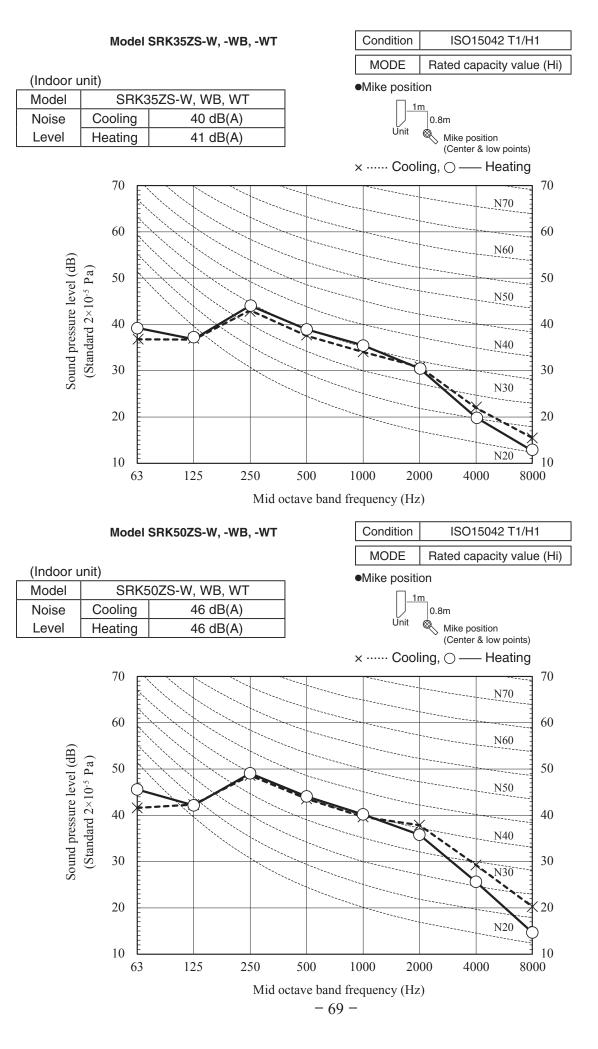


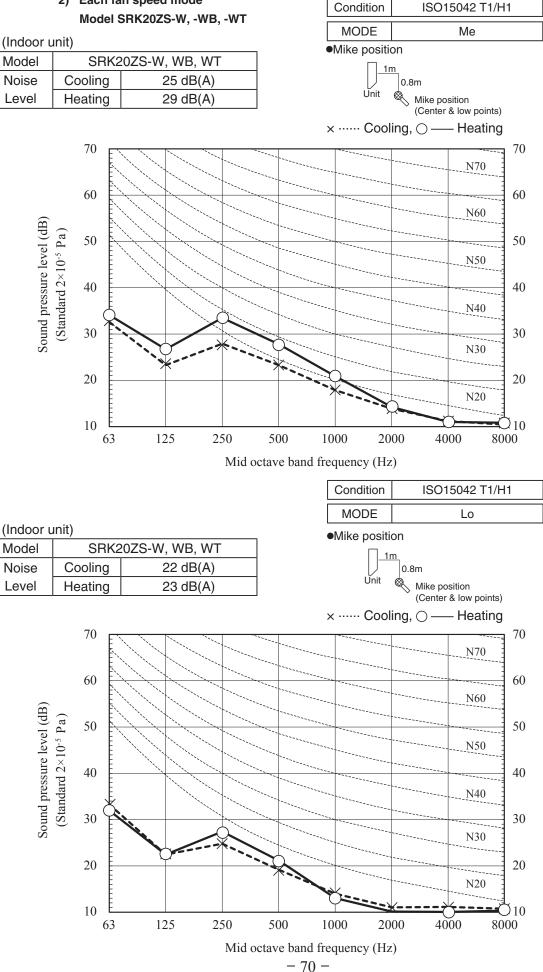
(ii) Sound pressure level

1) Rated capacity value

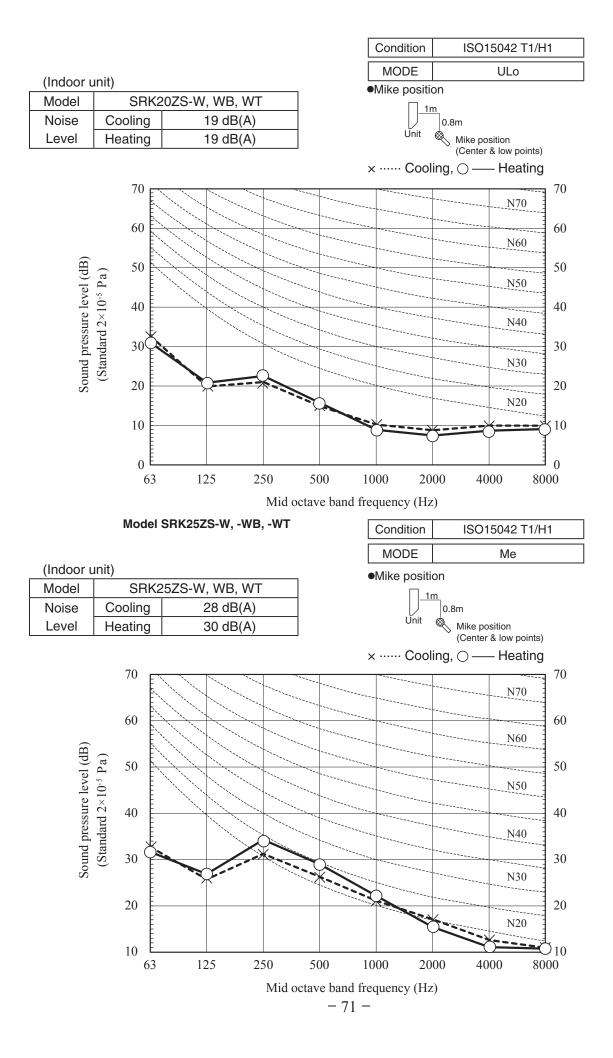


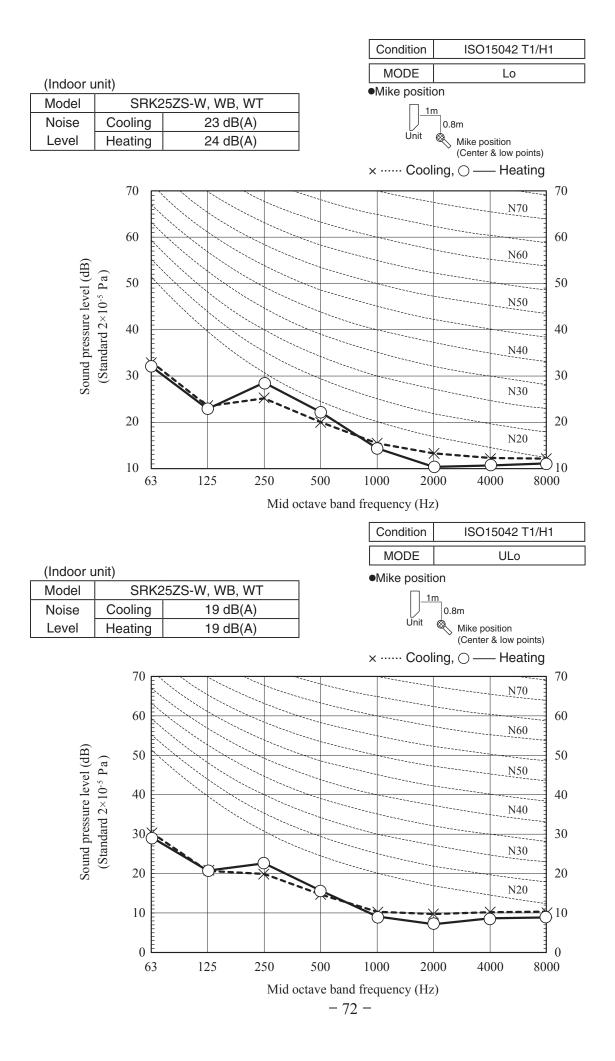


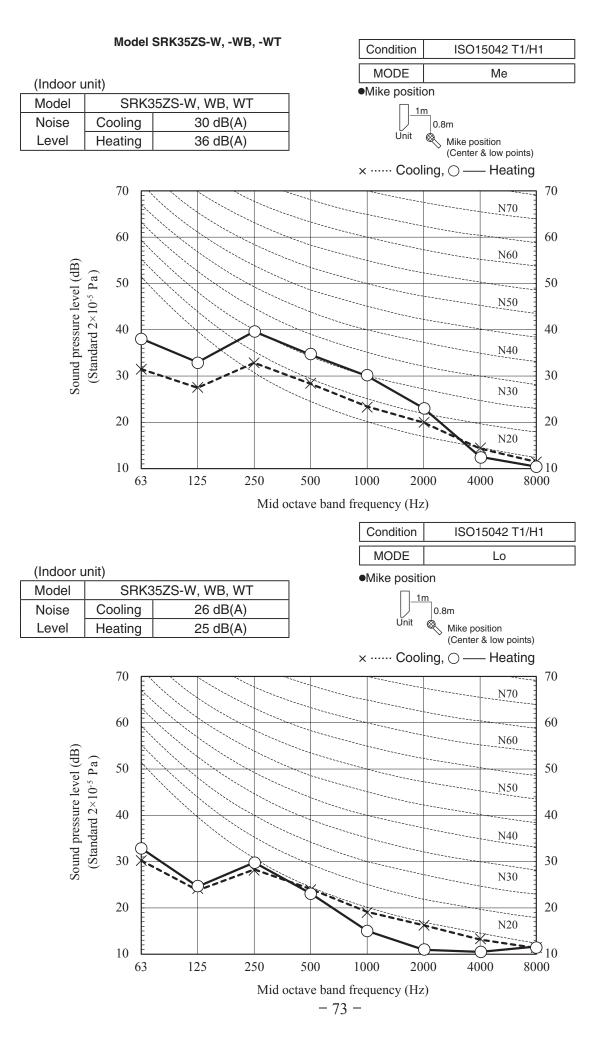


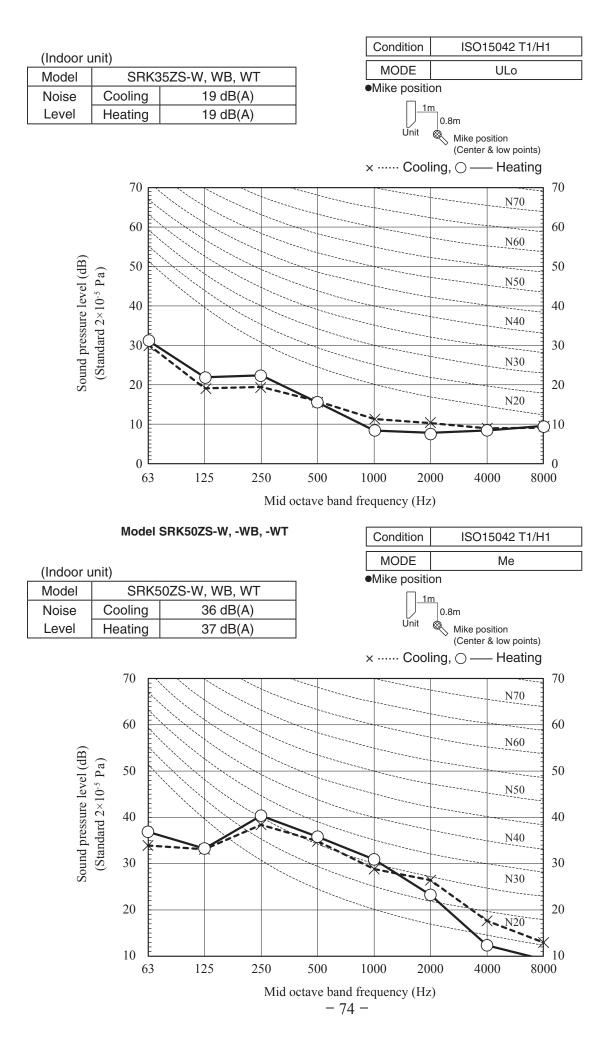


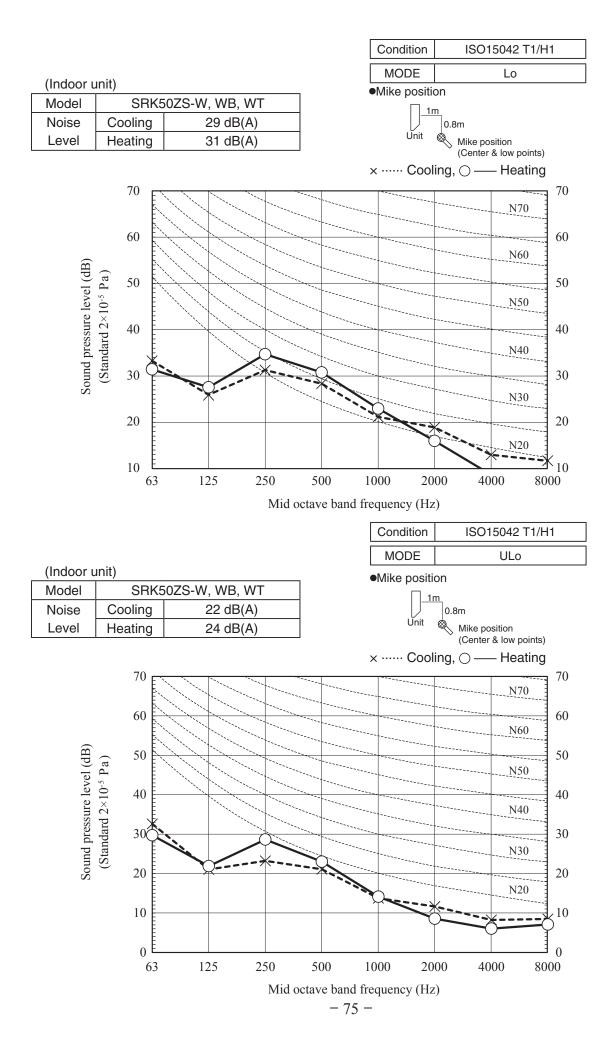
2) Each fan speed mode

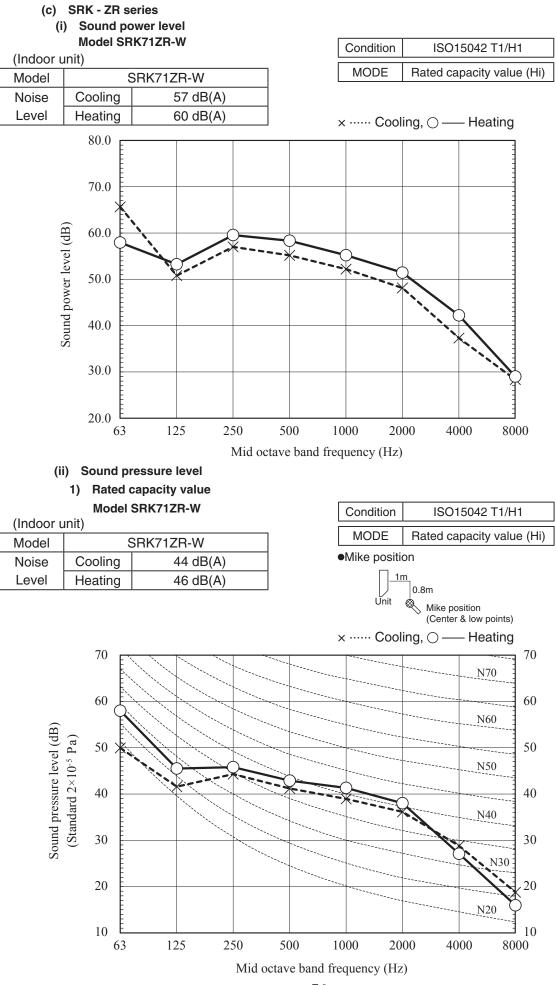




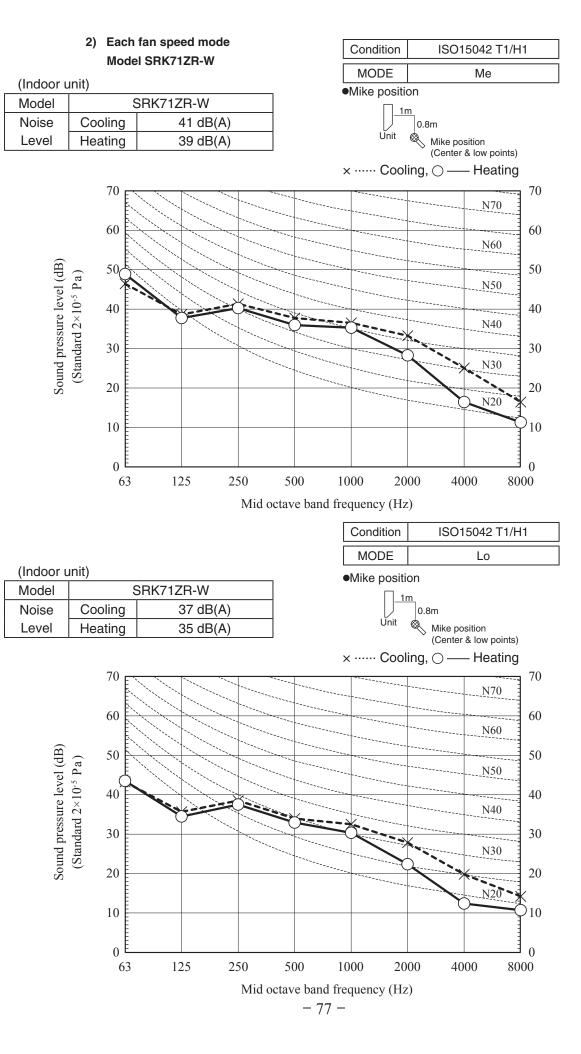


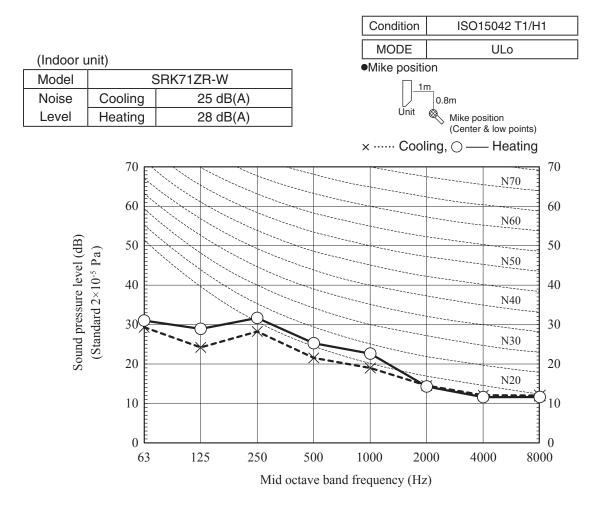






- 76 -



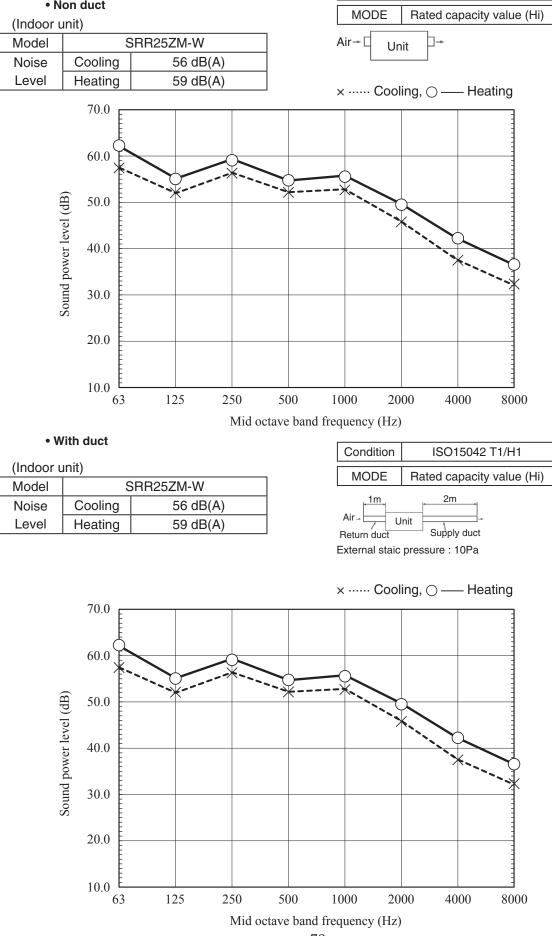




## (a) Sound power level

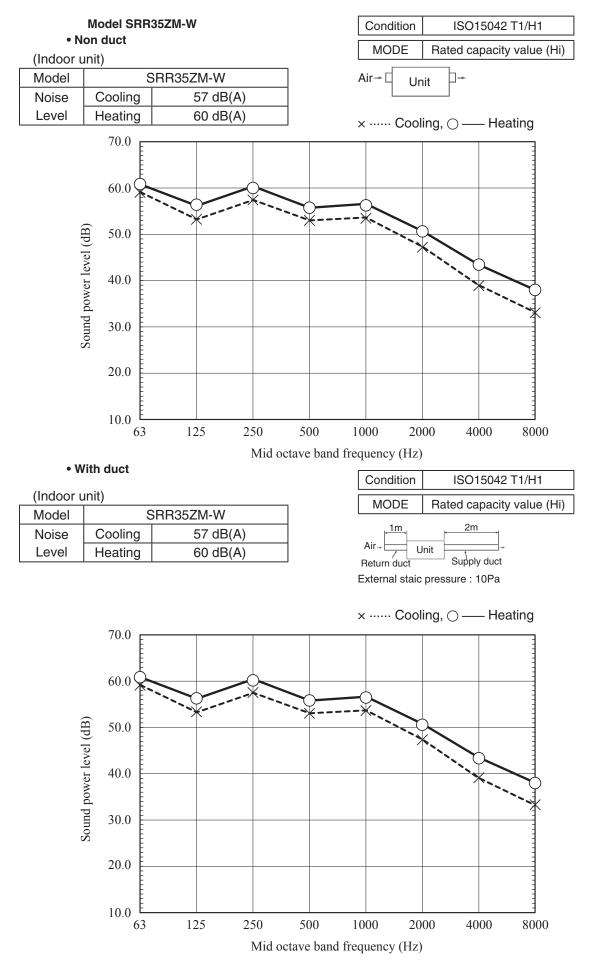
Model SRR25ZM-W

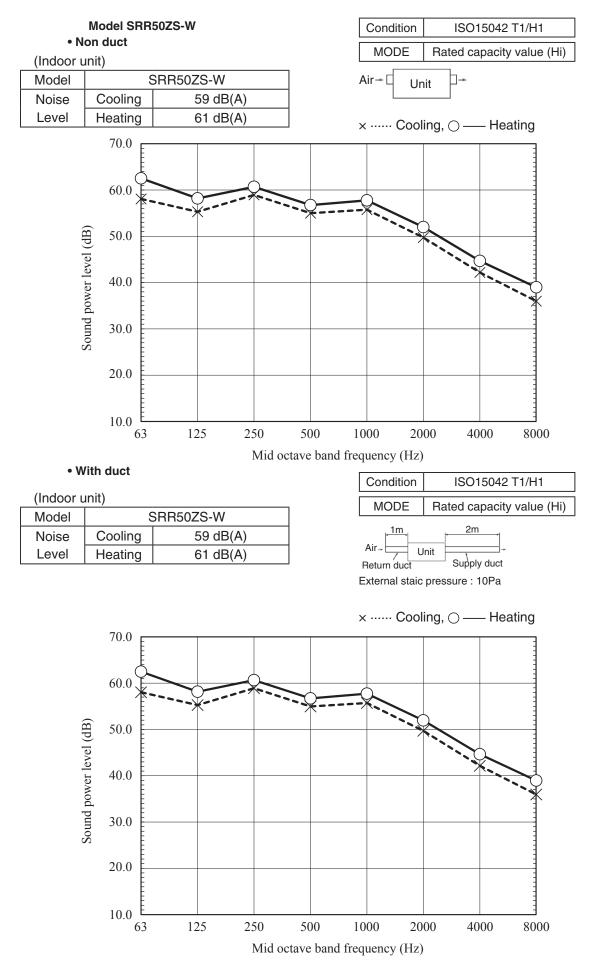
Non duct

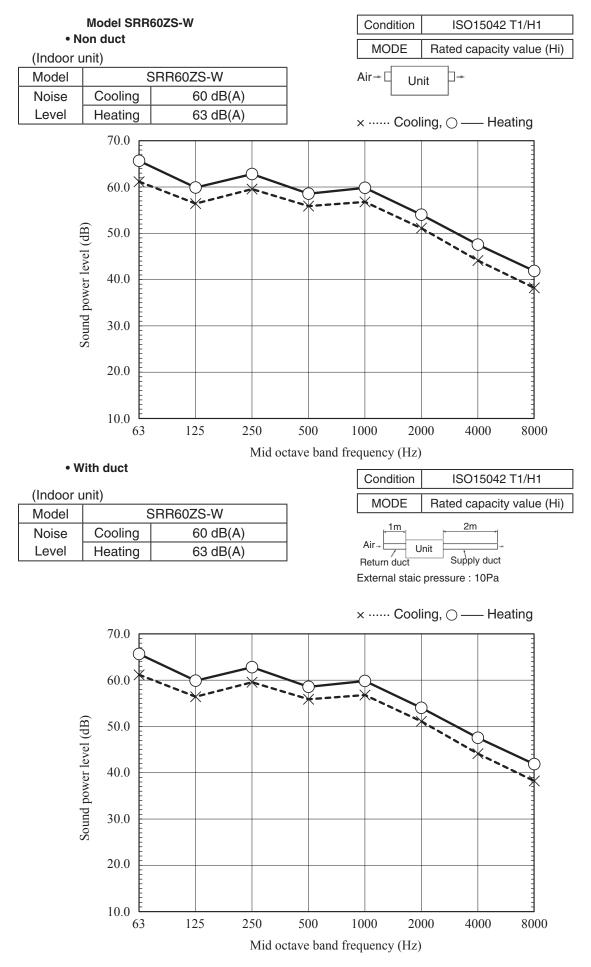


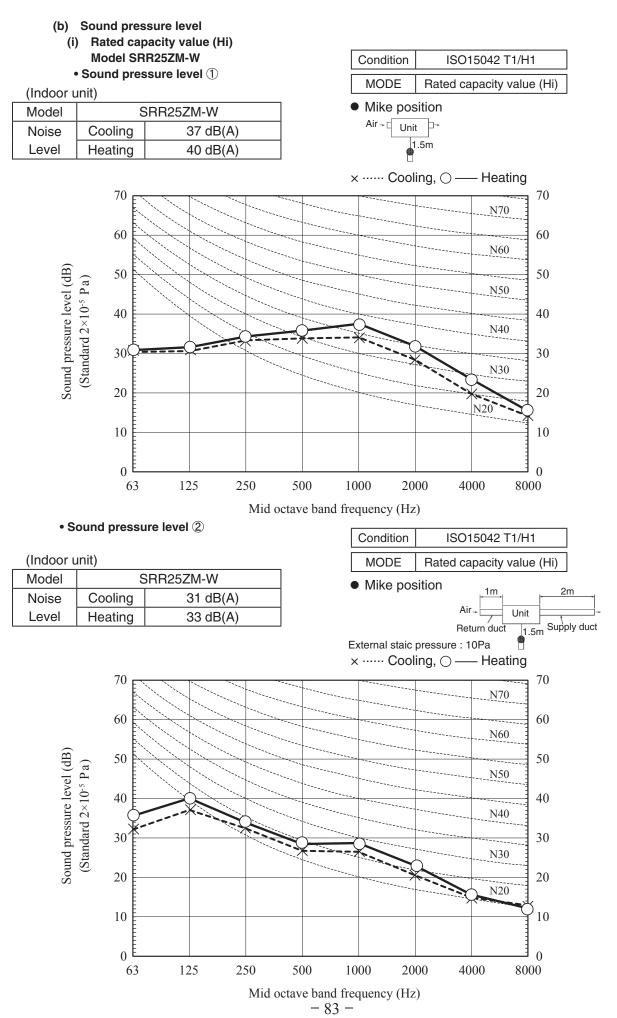
Condition

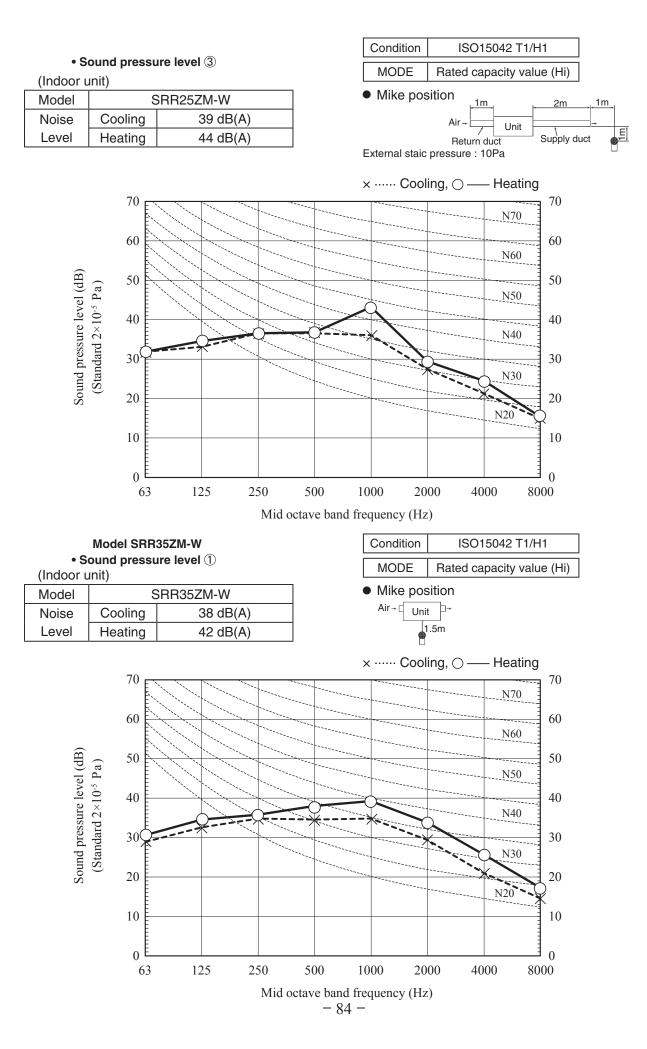
ISO15042 T1/H1

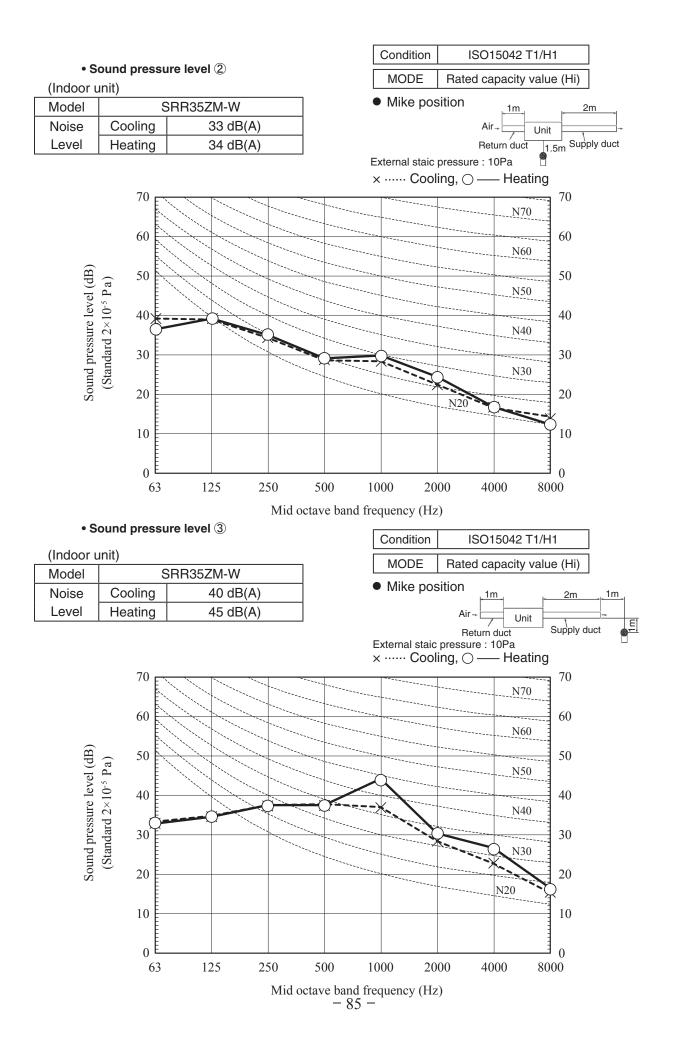


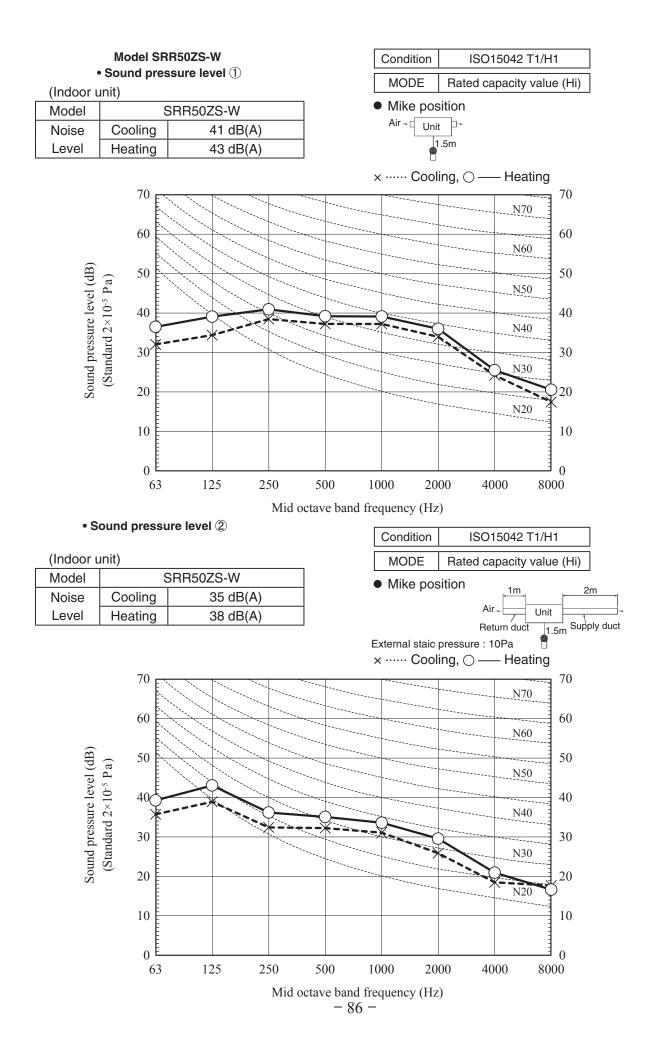


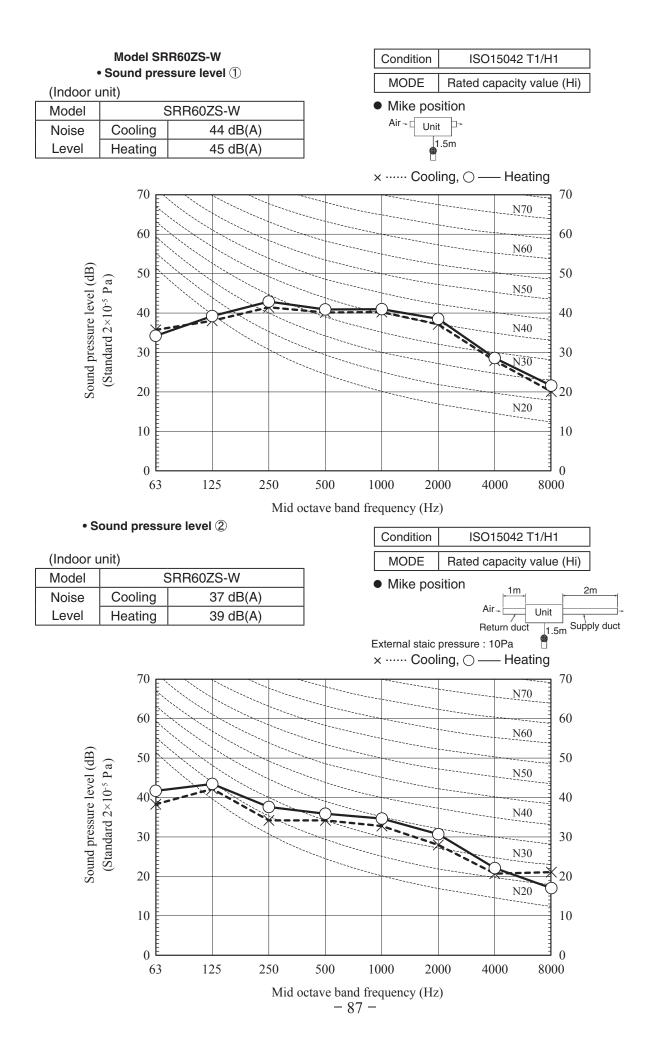


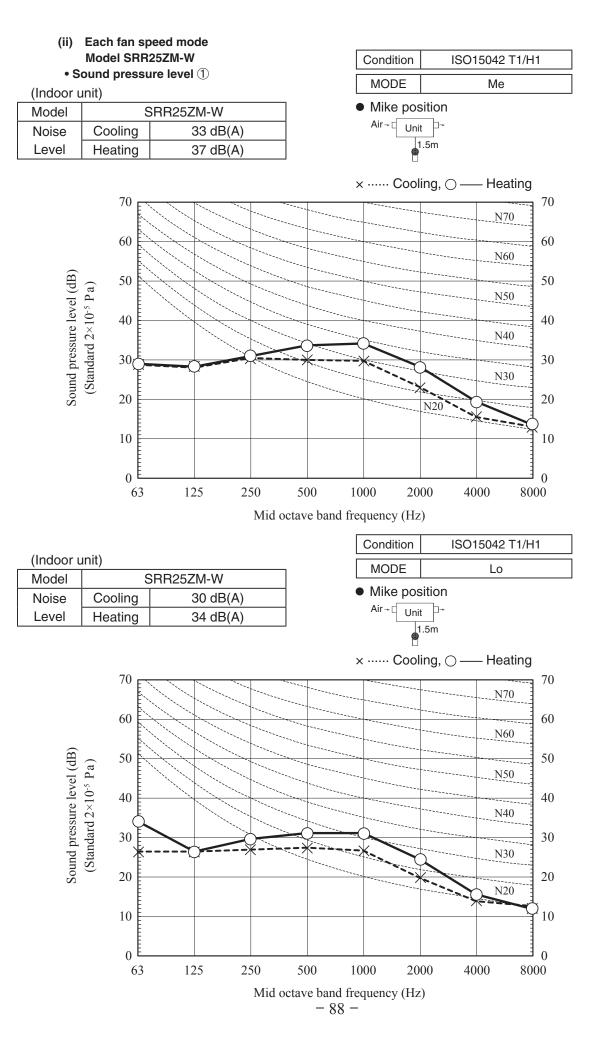


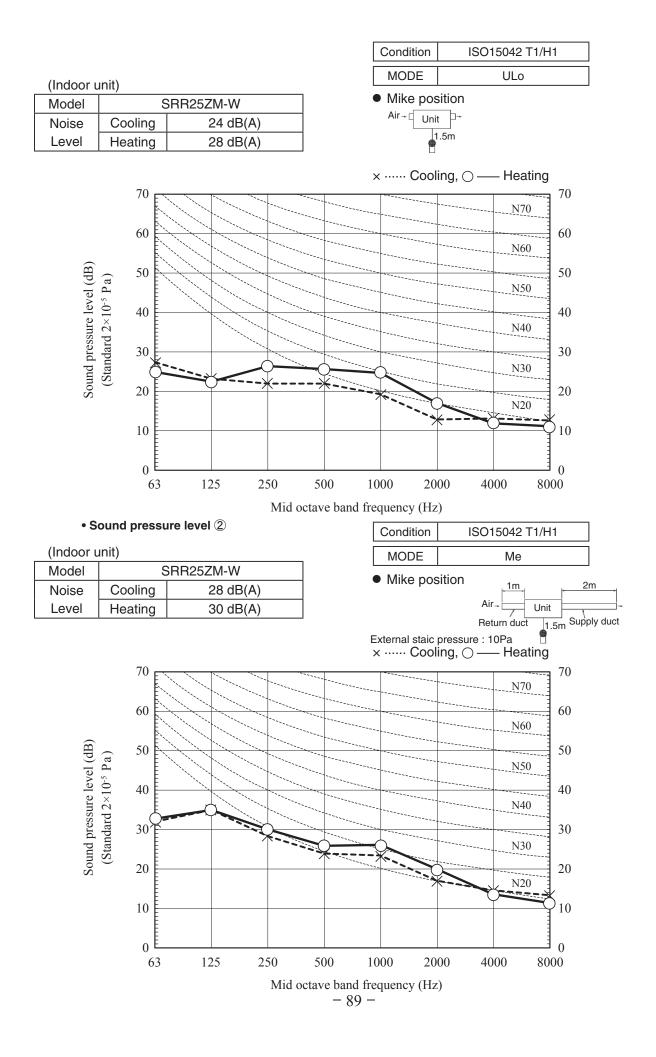


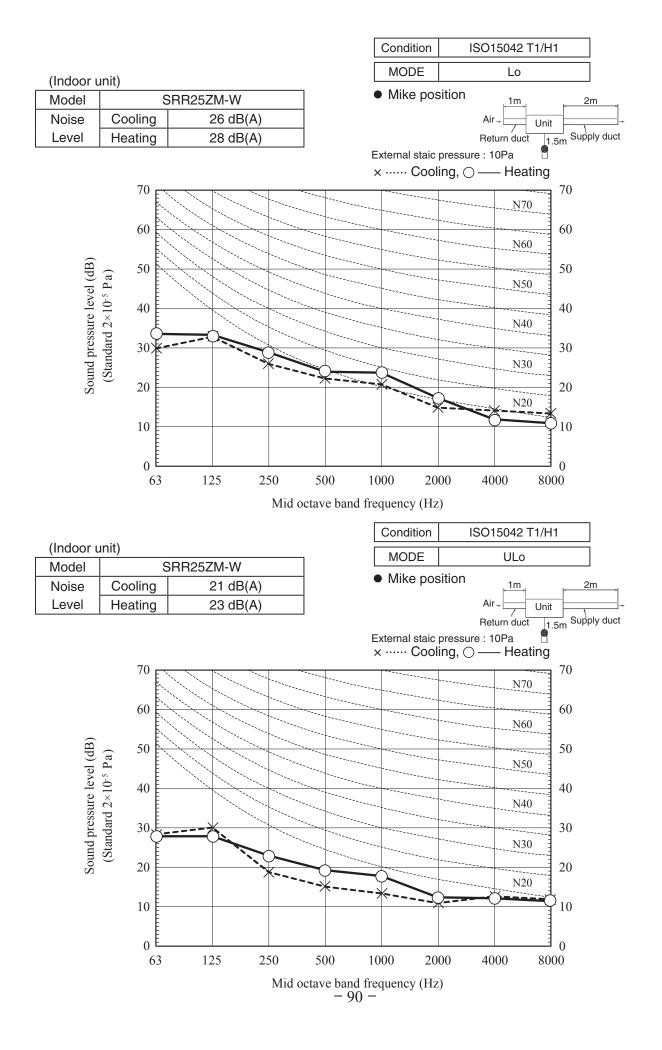


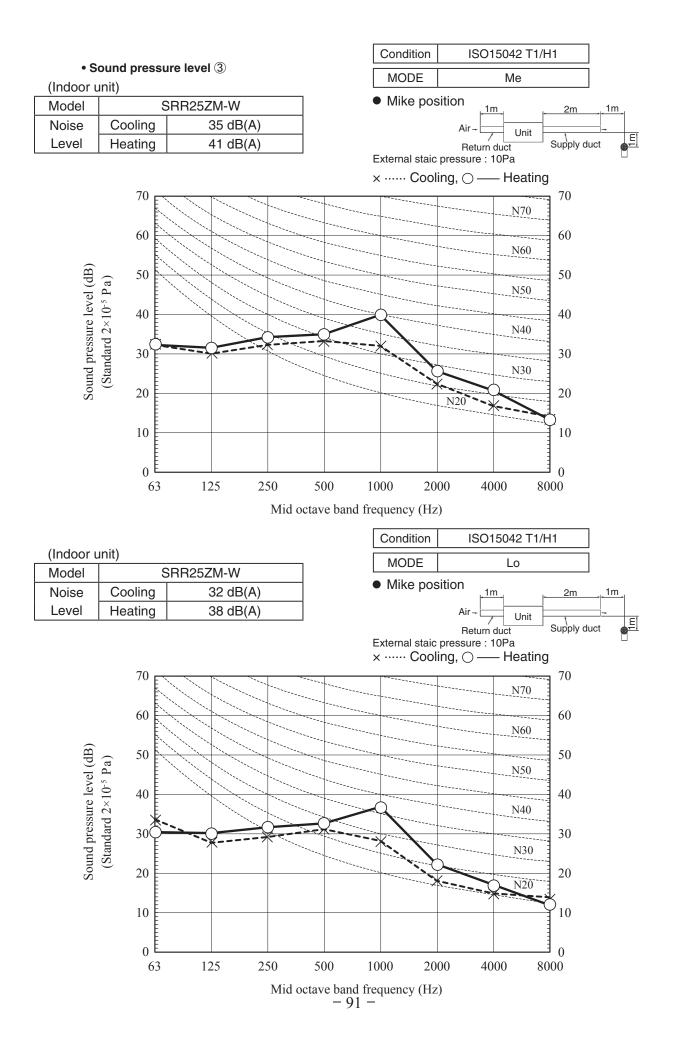


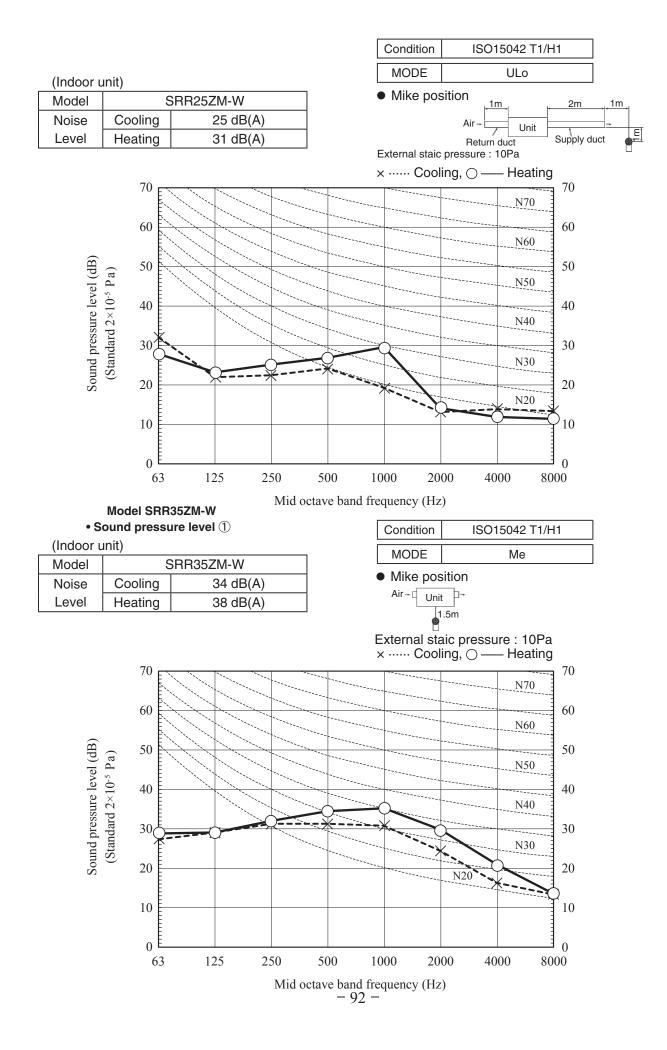


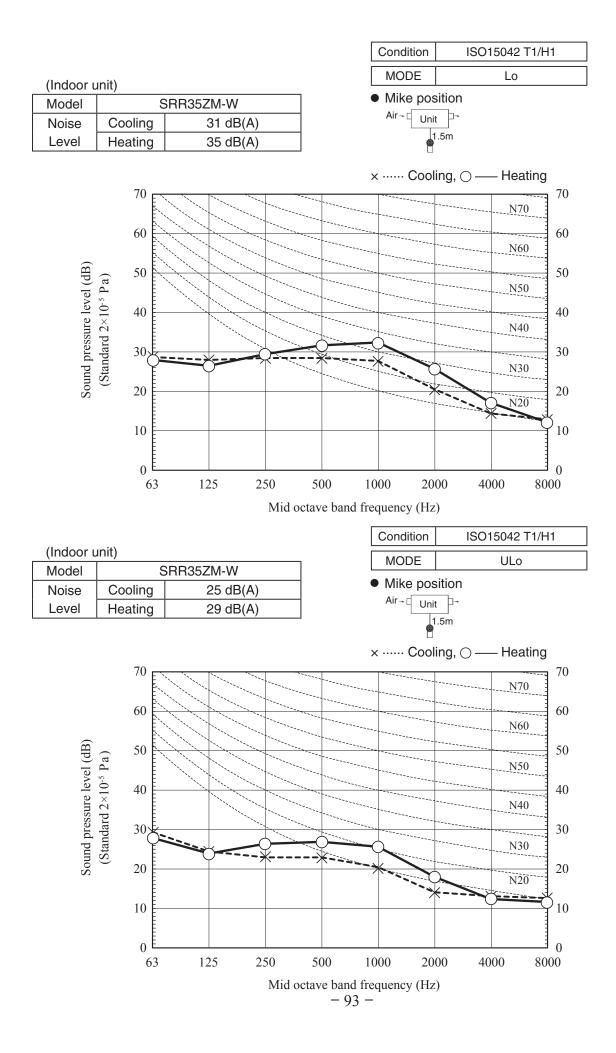


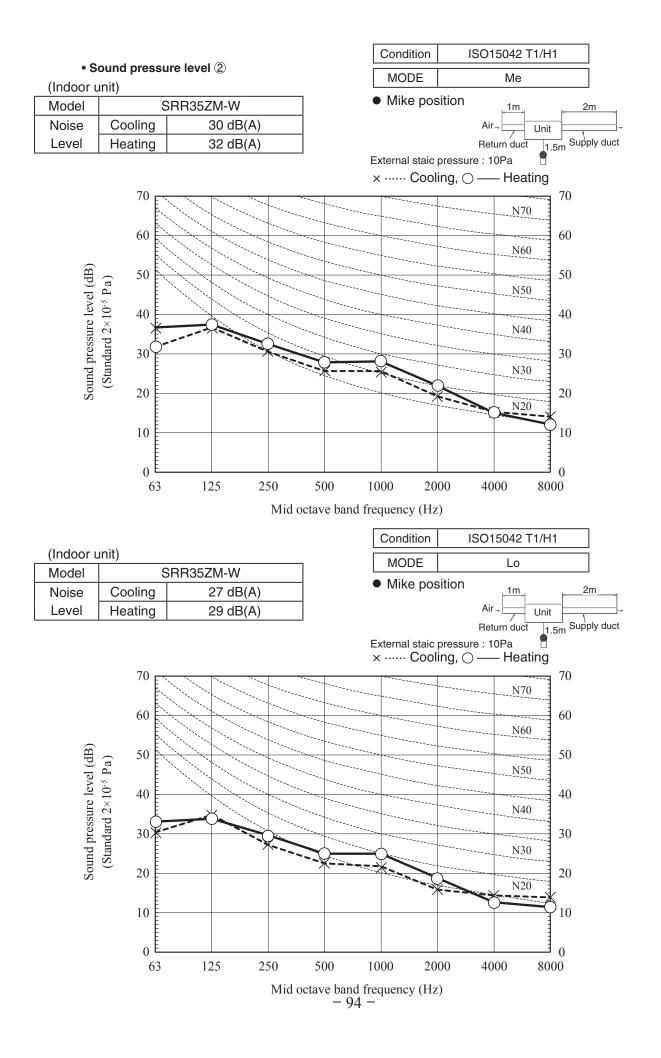


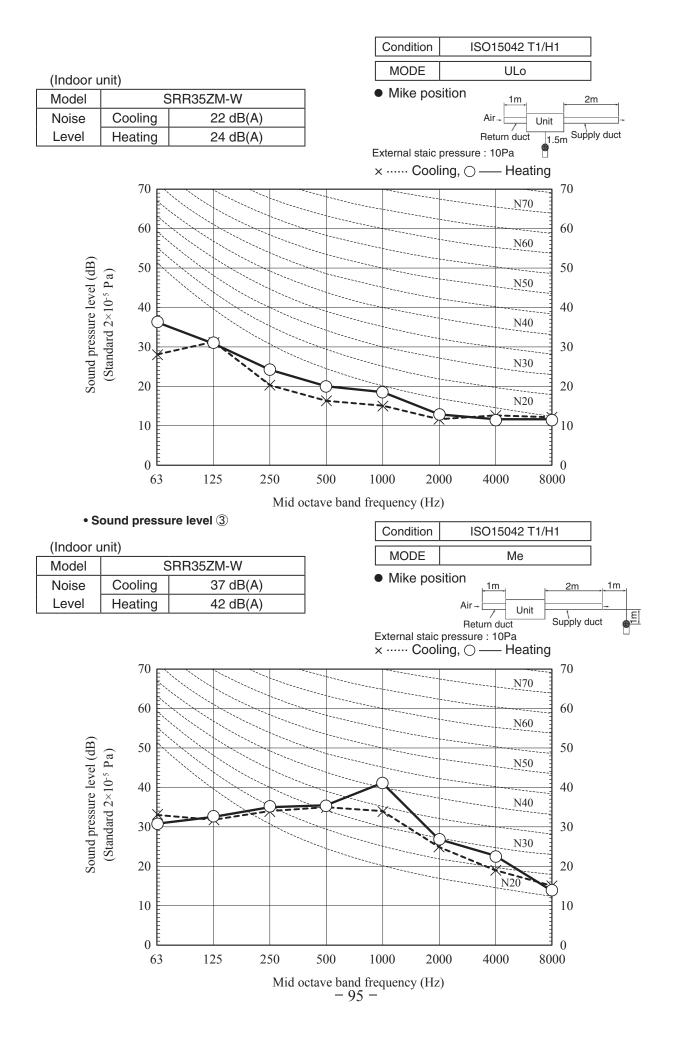


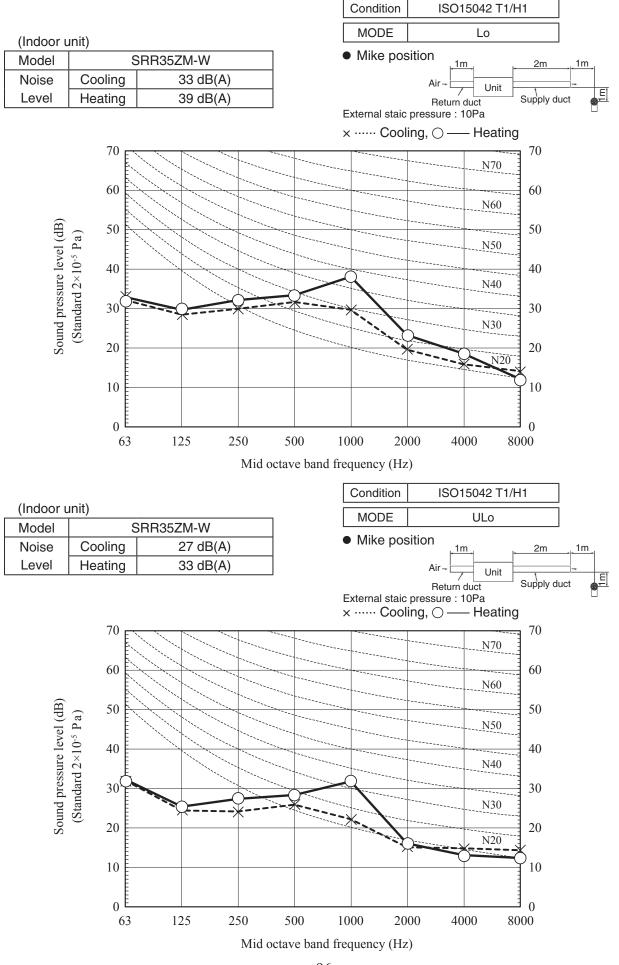


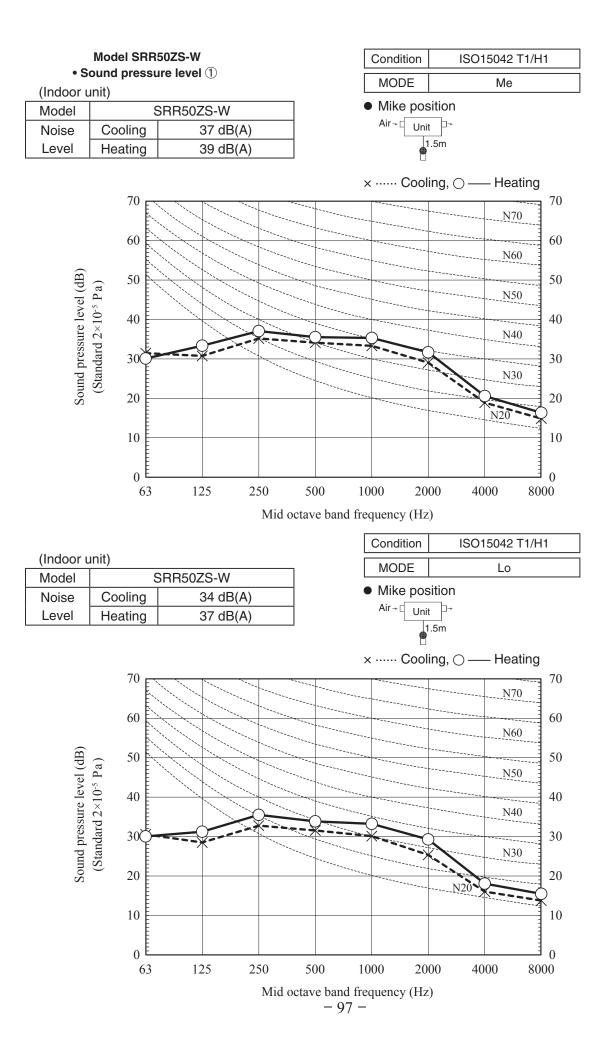


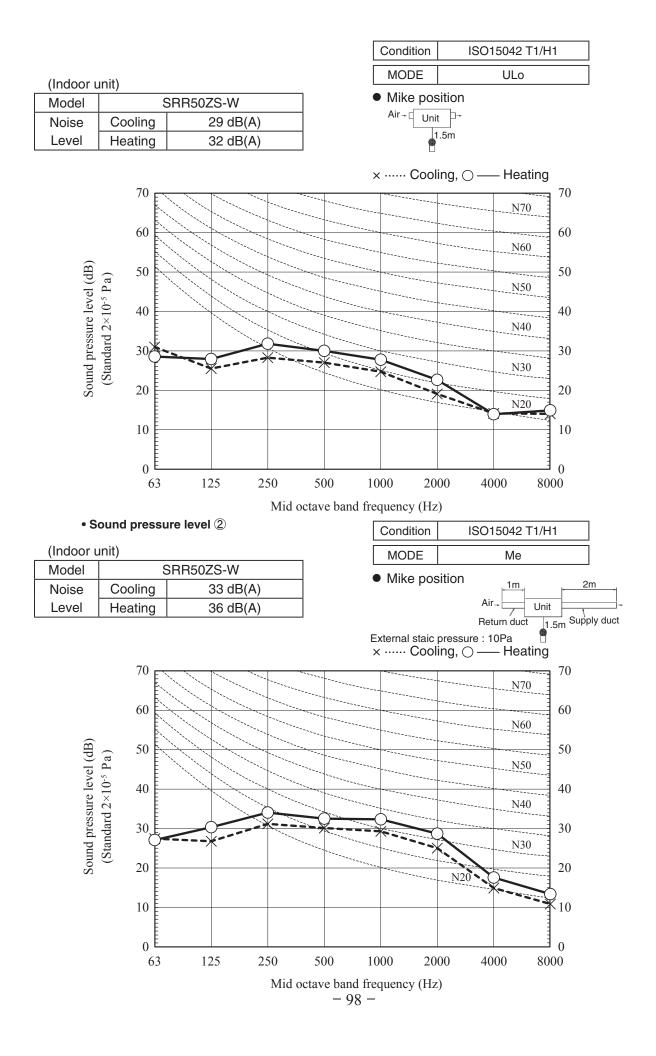


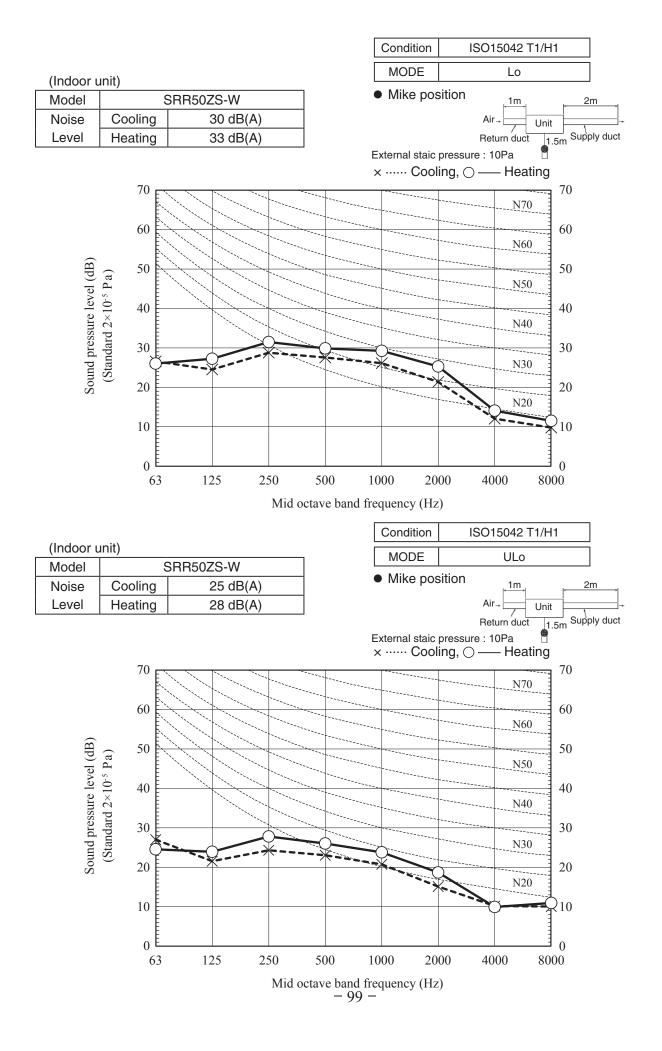


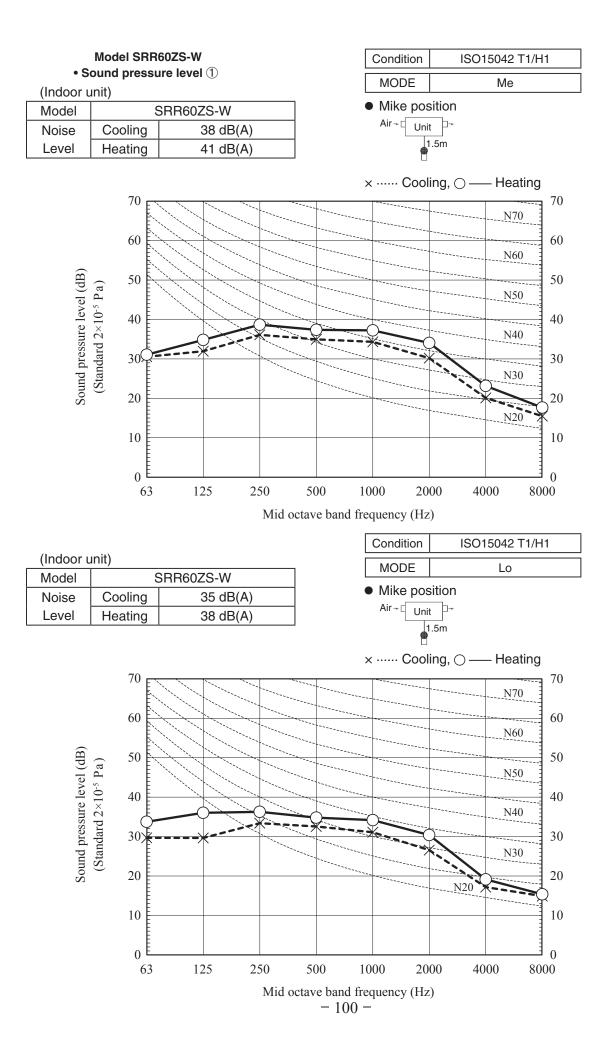


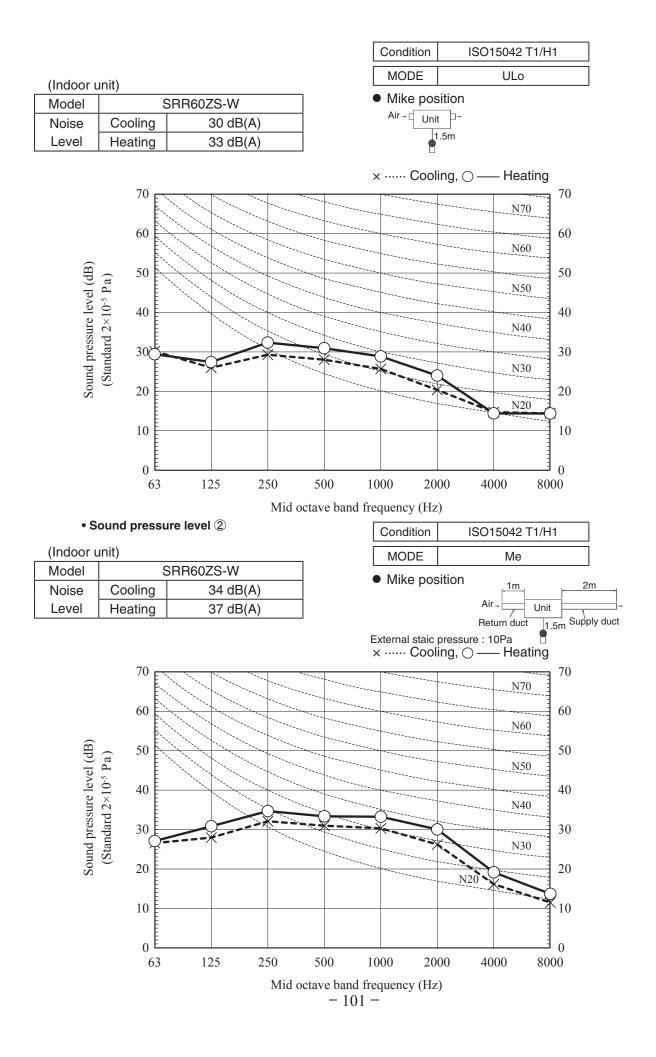


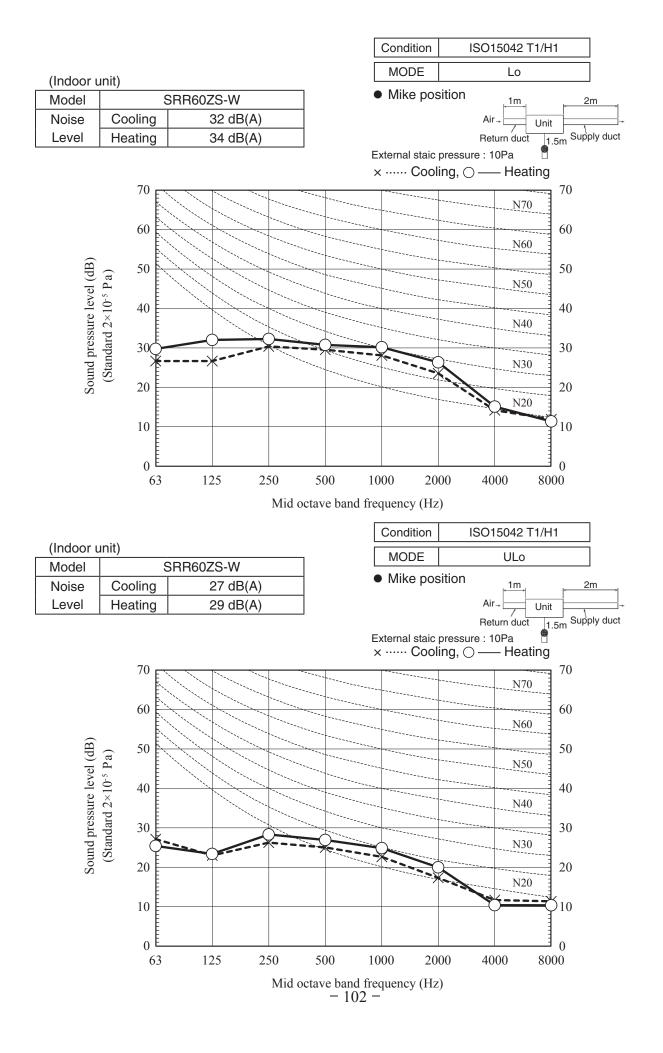












## (3) 4-way ceiling cassette type (FDTC)(a) Sound power level

## Model FDTC25VH

(Indoor unit)

(	- /	
Model		FDTC25VH
Noise	Cooling	51 dB(A)
Level	Heating	53 dB(A)

Condition	ISO15042 T1/H1
MODE	Rated capacity value (P-Hi)

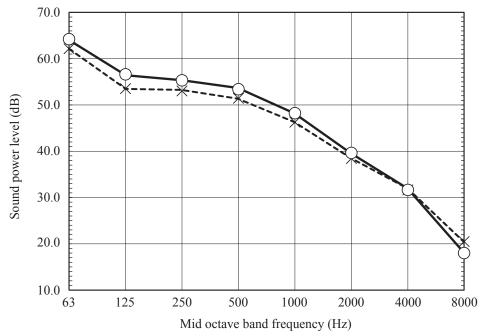
	70.0				×	····· Cool	ing, () ——	Heating
	/0.0							
	60.0							
el (dB)	50.0		)( <>	<		2		
wer lev	40.0	-				*. <u>.</u>		
Sound power level (dB)	30.0	- - - - - - - - -					* MA	<b>N</b> .
	20.0							
	10.0							
	6	3 12	25 25					0 8000
		TOOLY	-	Mid octave	band frequ	uency (Hz)		
M	odel FL	TC35VH				Condition	ISO15	5042 T1/H1

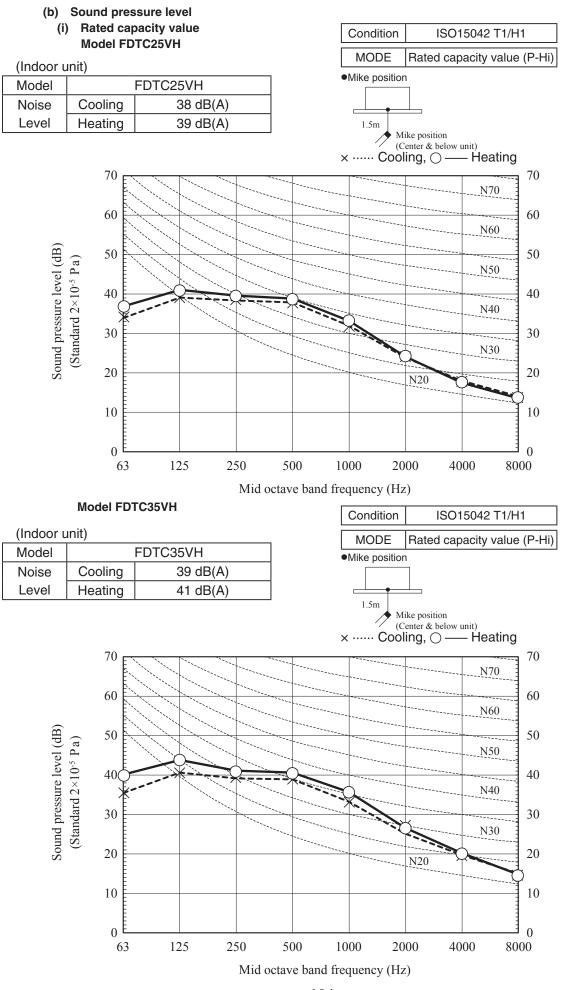
(Indoor unit)

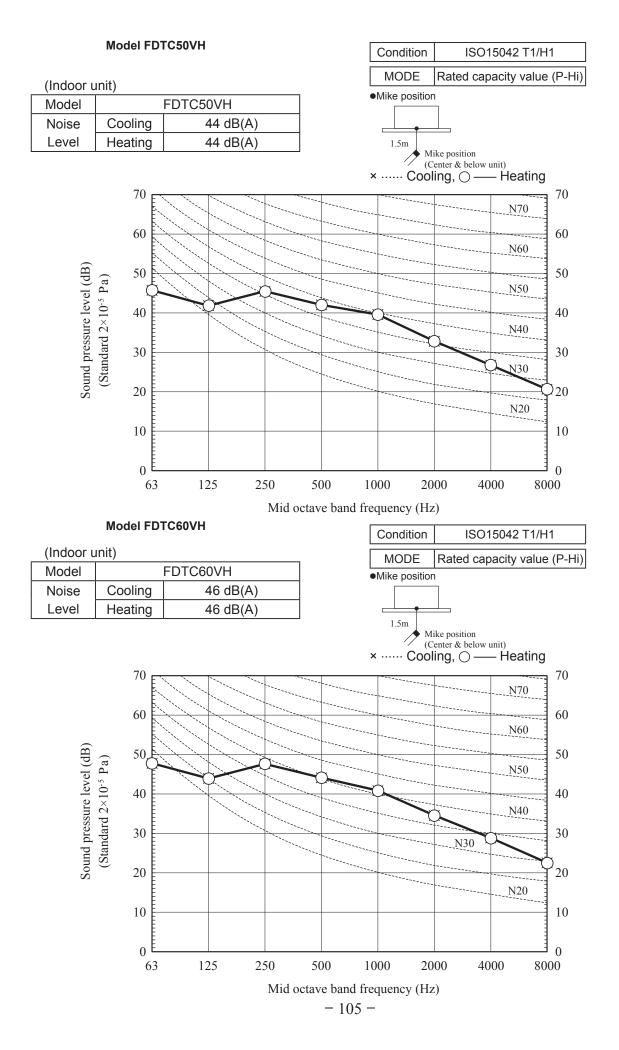
<u> </u>	/	
Model		FDTC35VH
Noise	Cooling	52 dB(A)
Level	Heating	54 dB(A)

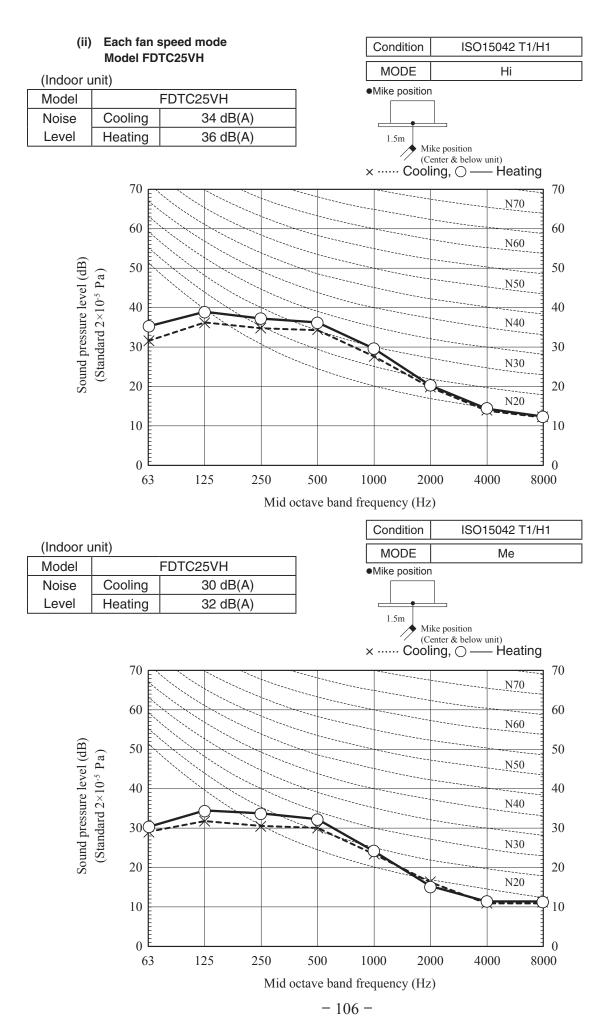
	tion	Condition
P-Hi	DE	MODE
>.	DE	MODE

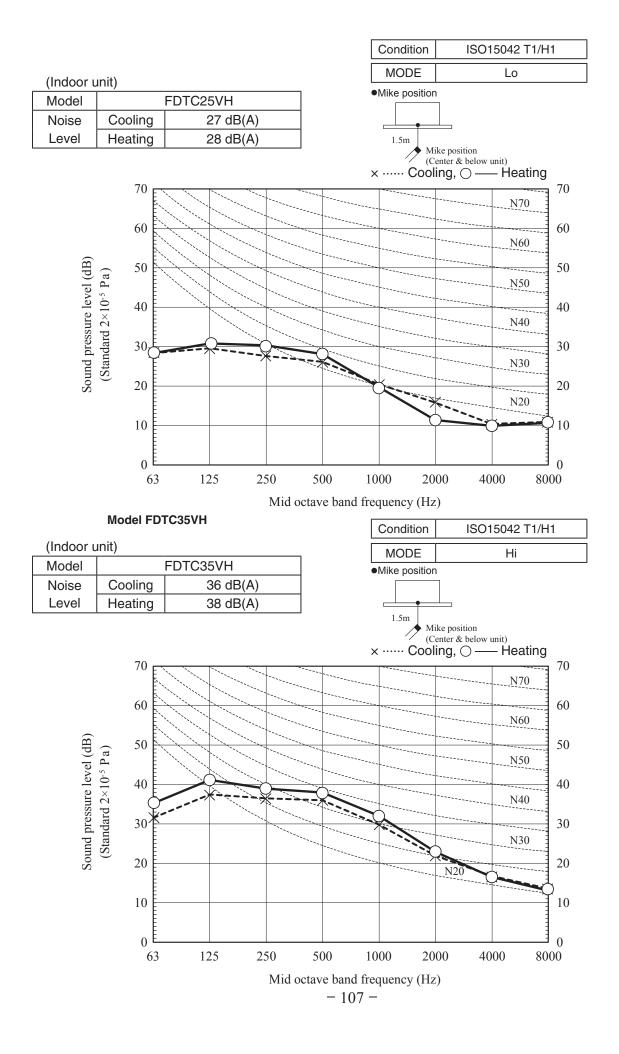
 $\times$  ..... Cooling,  $\bigcirc$  — Heating

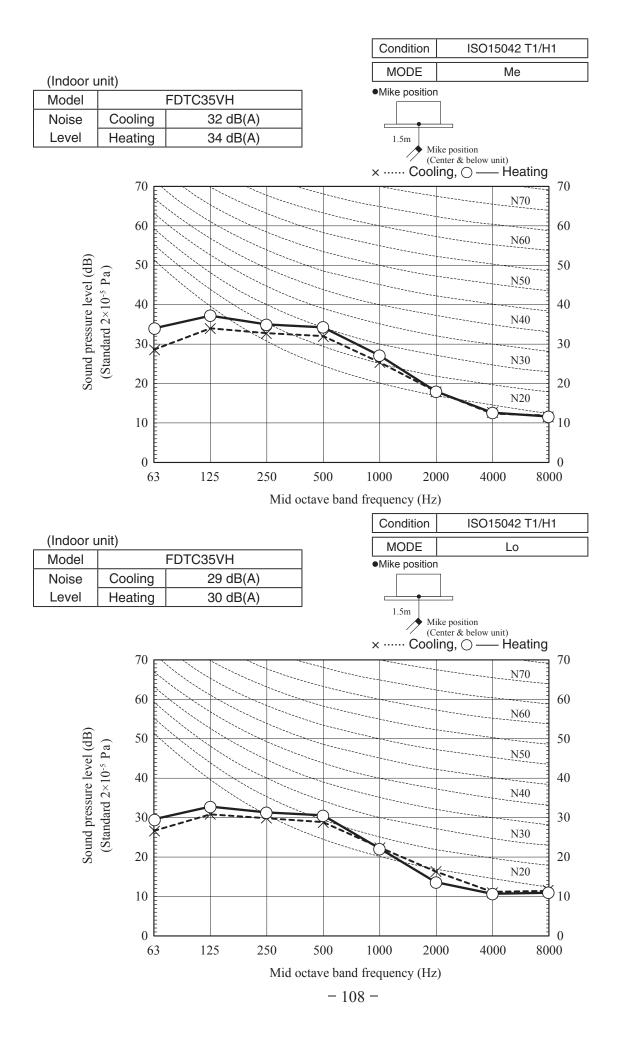


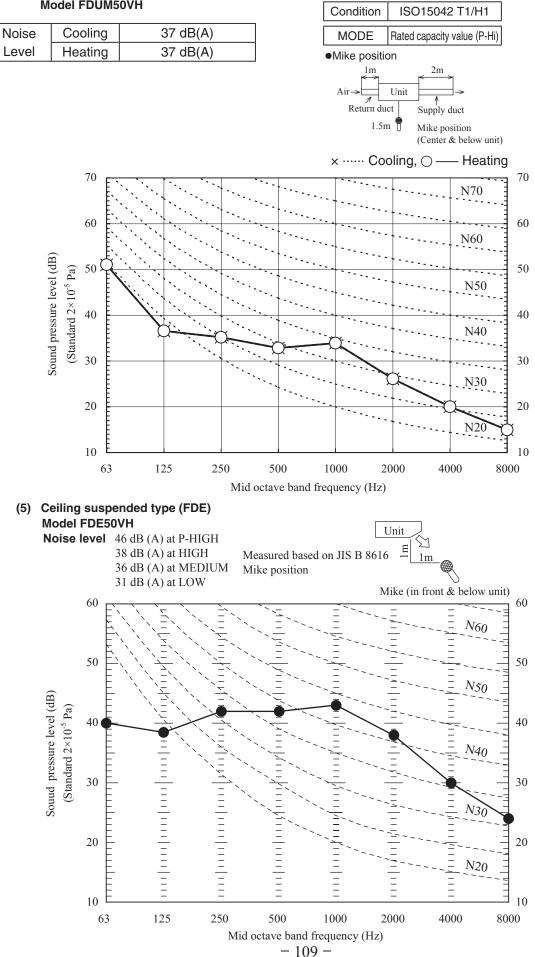










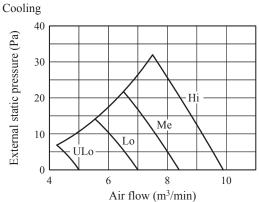


(4) Duct connected-Low/Middle static pressure type (FDUM) Model FDUM50VH

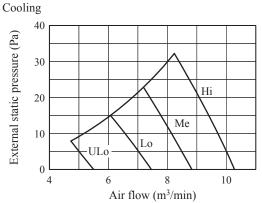
## 2.5 Characteristics of fan

(1) Ceiling concealed type (SRR)

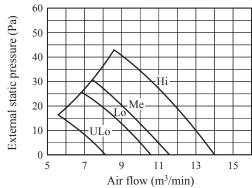






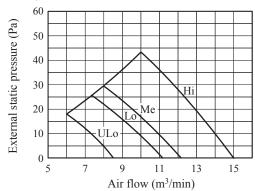


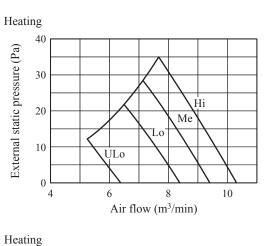


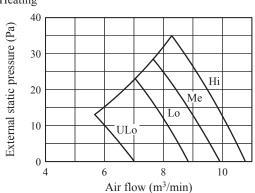




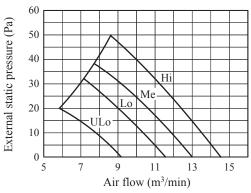
Cooling



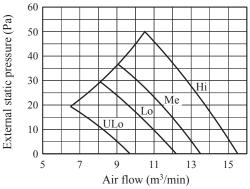








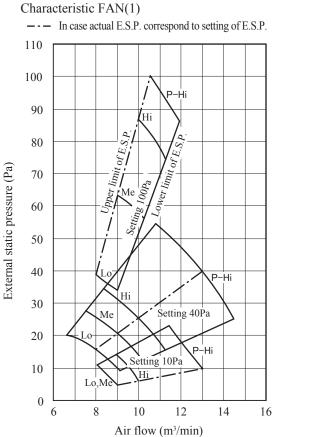


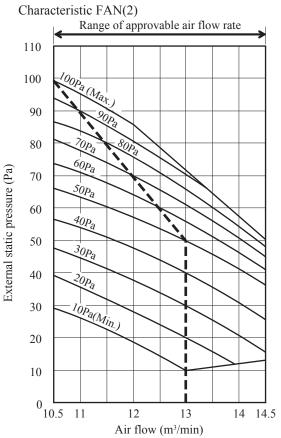


## (2) Duct connected-Low/Middle static pressure type (FDUM)

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

### Model FDUM50VH





## 2.6 Application data

## (1) Wall mounted type (SRK)

### (a) Models SRK20ZSX, 25ZSX, 35ZSX, 50ZSX, 60ZSX

This installation manual deals with an indoor unit installation only. For an outdoor unit installation, refer to page 11.
This unit is designed for R32 or R410A. See a label on the outdoor unit to check refrigerant information.

### SAFETY PRECAUTIONS

Before installation, read the "SAFETY PRECAUTIONS" carefully and strictly follow it during the installation. If unusual tion work in order to protect yourself.
 The precautionary items mentioned below are distinguished into two levels, WARNING and CAUTION.
 Be sure to explain the operating methods as well as the maintenance methods of this equipment to the

Warning Indicates a potentially hazardous situation which, if not avoided, can result in serious con sequences such as death or severe injury.
 A CAUTION
 Indicates a potentially hazardous situation which, if not avoided, can result in personal in gradient methods of the user's manual.
 Be sure to keep the installation manual together with user's manual at a place where it is easily accessible to the user any time. Moreover, ask the user to hand the manuals to a new user, whenever required.
 Jury or property damage.
 Both mention the important items to protect your health and safety. Therefore, strictly follow them by any means.

## During pump down work, be sure to stop the compressor before closing ser-vice valves and removing connecting pipes. If the connecting pipes are removed when the compressor is in operation and service valves are open air can be sucked into the refrigerant circuit which can cause anomalous high pressure result-Be sure to use only for residential purpose. If this unit is installed in inferior environment such as machine shop, vehicle (like ship), warehouse, etc., it can malfunction. Installation must be carried out by the qualified installer completely in accor-dance with the installation manual. Installation by non qualified person or incorrect installation can cause serious troubles such as water leak, electric shock, fire and personal injury. Be sure to wear protective goggles and gloves while performing installation work. ing in burst or personal injury. In the event of refrigerant leakage during installation, be sure to ventilate the working area properly. If the refrigerant comes into contact with naked flames, poisonous gases will be produced be state to weak protective goggles and groves while performing installation work. Improper safety measures can result in personal injury. Use the original accessories and the specified components for the installation. Using parts other than those prescribed may cause water leak, electric shock, fire and personal injury. Do not install the unit near the location where leakage of flammable gases can occur. If leaked gases accumulate around the unit, it can cause fire resulting in property damage and per-conditioned. The terring clant contract, with index mailes, possible systems with the products. Electrical work must be carried out by the qualified electrician, strictly in ac-cordance with national or regional electricity regulations. Incorrect installation can cause electric shock, fire or personal injury. Make sure that earth leakage breaker and circuit breaker of appropriate ca-sisticizers installed. Practities are installed. Circuit breaker should be able to disconnect all poles under over current. Absence of appropriate breakers can cause electric shock, personal injury or property damage. Be sure to switch off the power source in the event of installation, mainte-When installing the unit in small rooms, make sure that refrigerant density does not exceed the limit (Reference: ISO5149) in the event of leakage. If refrigerant density exceeds the limit, consult the dealer and install the ventilation system. Otherwise lack of oxygen can occur resulting in serious accident. Install the unit in a location where unit will remain stable, horizontal and free foremains the termination of the serious accident. Be sure to switch of the power source in the event of instantation, manne-nance or service. If the power source is not switched off, there is a risk of electric shock, unit failure or personal injury. Be sure to tighten the cables securely in terminal block and relieve the ca-bles properly to prevent overloading the terminal blocks. Loose connections or cable mountings can cause anomalous heat production or fire. Do not process, splice or modify the power cable, or share the socket with other power pluge of any vibration transmission. Unsuitable installation location can cause the unit to fall resulting in material damage and personal injury. Do not run the unit with removed panels or protections. Touching rotating equipments, hot surfaces or high voltage parts can cause personal injury due to entrapment, burn or electric shock. other power plugs. Improper power cable or power plug can cause fire or electric shock due to poor connection, insuf-ficient insulation or over-current. entrapment, burn or electric shock. This unit is designed specifically for R32 or R410A. Using any other refrigerant can cause unit failure and personal injury. Do not vent R32 or R410A into atmosphere. R32 is a fluorinated greenhouse gas with a Global Warming Potential(GWP)=675. R410A is a fluorinated greenhouse gas with a Global Warming Potential(GWP)=2088. Make sure that no air enters the refrigerant circuit when the unit is installed and removed. If air enters the refrigerant circuit, the pressure in the refrigerant circuit will become too high, which can cause hurst and personal injury. Do not perform any change in protective device or its setup condition yourself. Changing protective device specifications can cause electric shock, fire or burst. Be sure to clamp the cables properly so that they do not touch any internal component of the unit. If cables touch any internal component, it can cause overheating and fire. Be sure to install service cover properly. Improper installation can cause electric shock or fire due to intrusion of dust or water. can cause burst and personal injury Improper installation can cause electric shock or fire due to intrusion or outs of water. Be sure to use the prescribed power and connecting cables for electrical work. Using improper cables can cause electric leak or fire. This appliance must be connected to main power source by means of a cir-cuit breaker or switch with a contact separation of at least 3mm. Improper electrical work can cause unit failure or personal injury. When plugging this unit, a plug conforming to the standard IEC60884-1 must be used Be sure to use the prescribed pipes, flare nuts and tools for R32 or R410A. Using existing parts (for R22 or R407C) can cause refrigerant circuit burst resulting in unit failure and personal injury. Be sure to connect both liquid and gas connecting pipes properly before opbe start to compressor. Do not open the liquid and gas service valves before completing piping work, and evacuation. If the compressor is operated when connecting pipes are not connected and service valves are open, air can be sucked into the refrigerant circuit which can cause anomalous high pressure resulting in used. Using improper plug can cause electric shock or fire. Be sure to connect the power source cable with power source properly. Improper connection can cause intrusion of dust or water resulting in electric shock or fire. Be sure to tighten the flare nuts to specified torque using the torque wrench. Tightening flare nuts with excess torque can cause burst and refrigerant leakage after a long period. Take care when carrying the unit by hand. If the unit weight is more than 20kg, it must be carried by two or more persons. Do not carry the unit by the plastic straps. Always use the carry handle. Do not install the outdoor unit in a location where insects and small animals Do not install the unit in the locations where: There are heat sources nearby. Unit is directly exposed to rain or sunlight. There is any obstacle which can prevent smooth air circulation from inlet and outlet side of the unit. Unit is directly exposed to oil mist and steam such as kitchen. Chemical substances like ammonia (organic fertilizer), calcium chloride (snow melting agent) and can inhabit. can innabit. Insects and small animals can enter the electrical parts and cause damage resulting in fire or per-sonal injury. Instruct the user to keep the surroundings clean. If the outdoor unit is installed at height, make sure that there is enough space for installation, maintenance and service. Insufficient space can result in personal injury due to falling from the height. Crientical substances like animonia (organic reruitzer), calcium chioride (show meuning agent) and acid (suffurous acid etc.), which can harm the unit, will generate or accumulate. Drain water can not be discharged property. TV set or radio receiver is placed within 1m. Height above sea level is more than 1000m. It can cause performance degradation, corrosion and damage of components, unit malfunction and fire. Insufficient space can result in personal injury due to falling from the height. Do not install the unit near the location where neighbours are bothered by noise or air generating from the unit. It can affect surrounding environment and cause a claim. Do not install in the locations where unit is directly exposed to corrosive gases (like sulphide gas, chloride gas), sea breeze or salty atmosphere. It can cause corrosion of heat exchanger and damage to plastic parts. Do not install the unit close to the equipments that generate electromagnetic • waves and/or high-harmonic waves Dispose of all packing materials properly. Packing materials contain nails and wood which can cause personal injury. Keep the polybag away from children to avoid the risk of suffocation. Do not put anything on the outdoor unit. Object may fall causing property damage or personal injury. Do not touch the aluminum fin of the outdoor unit. Aluminium fin temperature is high during heating operation. Touching fin can cause burn waves and/or high-harmonic waves. Administration in temperature is non-united outing heating operation. Todaming initial cause outin. During operation the refrigerant pipes become extremely hot or extremely cold depending on the op-erating condition. Touching pipes can cause personal injury like burn (hot/cold). Install isolator or disconnect switch on the power source wiring in accor-dance with the local codes and regulations. The isolator should be locked in OFF state in accordance with EN60204-1. Equipment such as inverters, standby generators, medical high frequency equipments and telecom-munication equipments can affect the system, and cause malfunctions and breakdowns. The system can also affect medical equipment and telecommunication equipment, and obstruct its function or cause jamming

### **1. ACCESSORIES AND TOOLS** ndard accessories (Supplied with indoor unit) (i (t) () Wood screws (for remote control holder Ф3.5 X 16mm) (1) Installation board 2pcs NEC (6) Batteries [R03 (AAA, Micro) 1.5V] (0 (0 (2) Wireless remote contro 1pc 2pc (A) (3 Remote control holde 1pc (7) Air-cleaning filters 2pcs (9 (4) Tapping screws (for installation board Φ4 X 25mm) 5pcs (8) Insulation (#486 50 X 100 t3) 0 1pc

	Locally procured parts	Tools for installation work				
(a)	Sleeve (1pc)		Plus headed driver	Pipe cutter		
(b)	Sealing plate (1pc)		Knife	Hole core drill (65mm in diameter)		
(c)	Inclination plate (1pc)		Saw	Wrench key (Hexagon) [4mm]		
(d)	Putty		Tape measure	Flaring tool set*		
(e)	Connecting cable		Torque wrench	Gas leak detector*		
(f)	Drain hose (extension hose)		(14.0-62.0N·m (1.4-6.2kgf·m))	Pipe bender		
(a)	Piping cover (for insulation of connection piping)		Plier	Flare adjustment gauge		
(9)	(for insulation of connection piping)		* Desig	ned specifically for R32 or R410A		
(h)	Clamp and screw (for finishing work)		-			
(i)	Electrical tape					

RLF012A202B

Model SRK20,25,35,50,60ZSX R32/R410A REFRIGERANT USED





### 1. Indoor unit

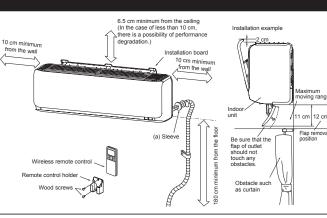
- Where there is no obstruction to the airflow and where the cooled and heated air can be evenly distributed.
- A solid place where the unit or the wall will not vibrate

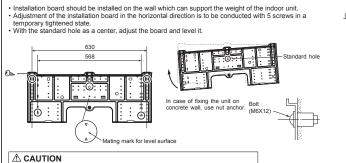
- A solid place where the unit or the wall will not vibrate.
  A place where there will be enough space for servicing. (Where space mentioned on the right side can be secured.)
  Where it is easy to conduct wining and piping work.
  A place where unit is not directly exposed to sunlight or street light.
  A place where it can be easily drained.
  A place where it can be easily drained.
  A place where this unit is not affected by the television or the radio. (To prevent interference to images and sounds.)
  A place where this unit is not affected by the high frequency equipment or electric equipment.
  A void installing this unit in place where there is much oil mist.
  A place where there is no electric equipment or household.
  Install the indoor unit on the wall where the height from the floor to the bottom of the unit is more than 180 cm.

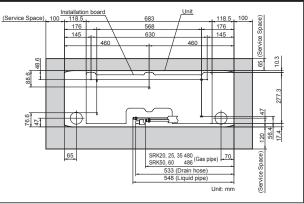
### 2. Wireless remote control A place where the air-conditioner can receive the signal surely during operating the wireless remote control.

- A place where it is not affected by the TV, radio etc.
  Do not place where it is exposed to direct sunlight or near heat devices such as a stove.

### 3. INSTALLING INSTALLATION BOARD





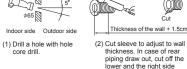


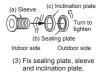
## 4. DRILLING HOLE AND FIXTURE OF SLEEVE

Improper adjustment of the installation board can cause water leakage.

When drilling the wall that contains a metal lath, wire lath or metal plate, be sure to use sealing plate, sleeve and inclination plate (Locally procured parts).

### \ 5° φ65 or side Outdoor side





Installed state



3. Connecting cable Remove the terminal cover

NOTE

### side (4) After piping work, seal the hole in the wall with putty.

(2) Remove the cable clamp.
 (3) Connect the connecting wires to the terminal block.
 (4) Fix the connecting cable by cable clamp.
 (5) Fix the terminal cover.

Take care not to confuse the terminal numbers for indoor and outdoor connections

# 

Completely seal the hole in the wall with putty If not sealed properly, dust, insects, small animals, and highly humid air may enter the room from out-side, which could result in fire or other hazards.

### A CAUTION

Completely seal the hole in the wall with putty. If not sealed properly, furniture and other fixtures may be damaged by water leakage or condensation.

### **5. ELECTRICAL WIRING WORK**

Before installation, make sure that the power source complies with the air-conditioner's power specification.
 Carry out electrical wiring work according to following guidelines.

portions of the sleeve collar

(**)** 

Cut

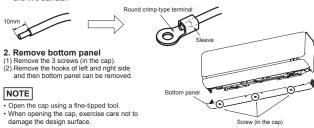
## 1. Preparing cable

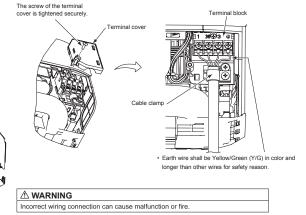
- (1) Selecting cable
   Select the connecting cable in accordance with the specifications mentioned below.
   4-core\* 1.5mm<sup>2</sup> conformed with 60245 IEC57
   \* 1 Earth wire is included (Yellow/Green).
- (2) Arrange each wire length as shown below. Make sure that each wire is stripped 10mm from the end.
  - <Connecting cable> <Wire end>

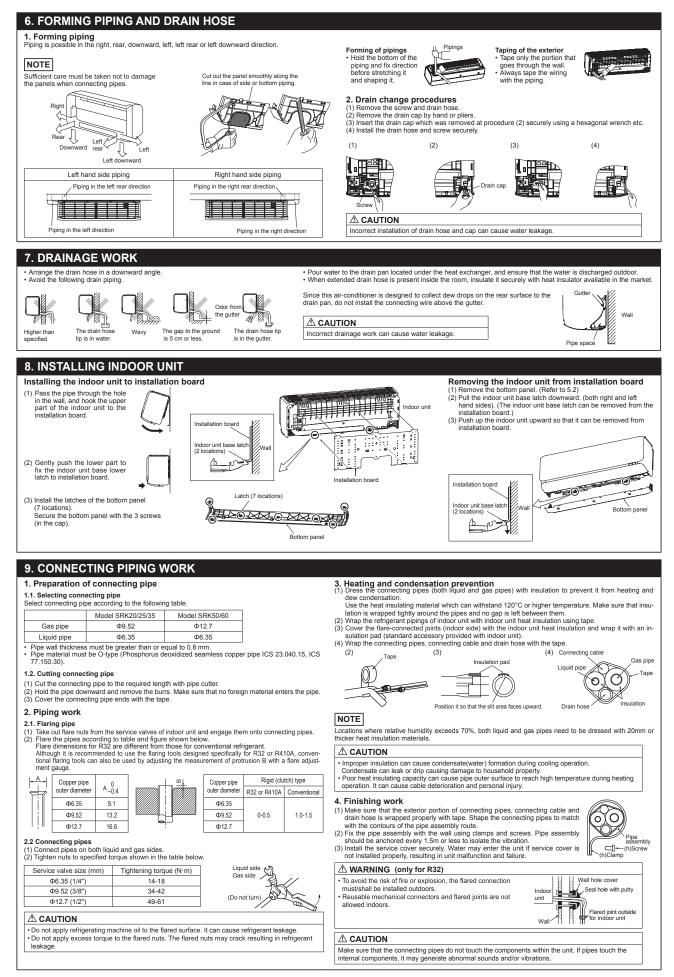
```
30mm or more
```

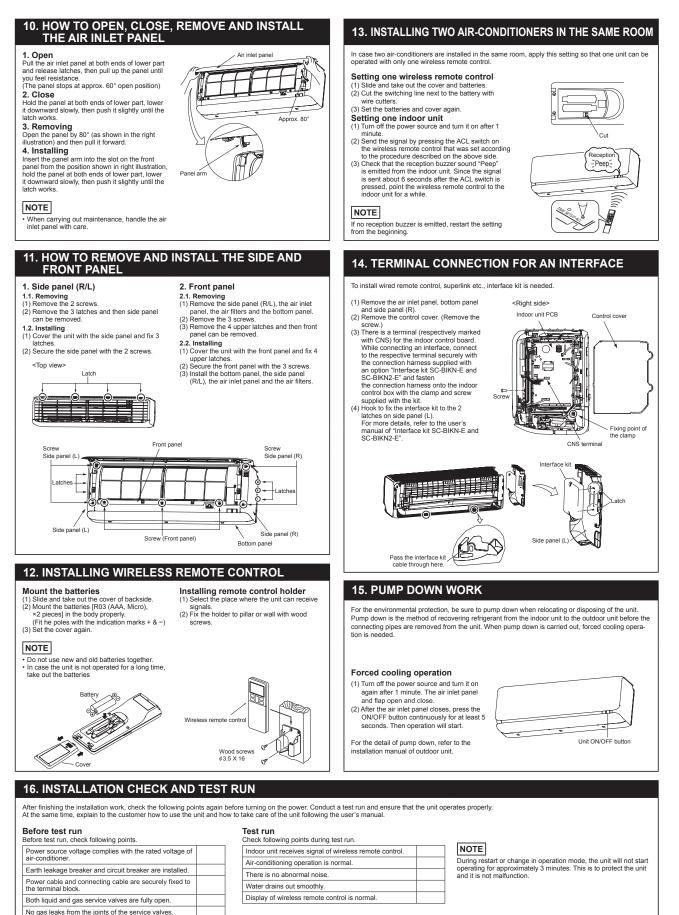


(3) Attach round crimp-type terminal to each wire as shown in the below. Select the size of round crimp-type terminal after considering the specifications of terminal block and wire diameter.









### After test run

Indoor and outdoor side pipe joints have been insulated. Hole on the wall is completely sealed with putty. Drain hose and cap are installed properly. Screw of the terminal cover is tightened securely.

Explain the operating and maintenance methods to the user according to the user's manual.	
Keep this installation manual together with user's manual.	

### (b) Models SRK20ZS, 25ZS, 35ZS, 50ZS

## RLF012A105

Model SRK20,25,35,50ZS R32/R410A REFRIGERANT USED

• This installation manual deals with an indoor unit installation only. For an outdoor unit installation, refer to page 11. • This unit is designed for R32 or R410A. See a label on the outdoor unit to check refrigerant information

## SAFETY PRECAUTIONS

Before installation, read the "SAFETY PRECAUTIONS" carefully and strictly follow it during the installation. If unusual to confirm no operation problem on the equipment after completing the installation. If unusual noise can be heard during the test run, consult the dealer.
 The precautionary items mentioned below are distinguished into two levels, WARNING and CAUTION.
 Indicates a potentially hazardous situation which, if not avoided, can result in personal investing methods as well as the maintenance methods of this equipment to the user according to the user's manual together with user's manual at a place where it is easily accessible to the user any time. Moreover, ask the user to hand the manuals to a new user, whenever required.

jury or property damage. Both mention the important items to protect your health and safety. Therefore, strictly follow them by any means

# 

- During pump down work, be sure to stop the compressor before closing op-eration valves and removing connecting pipes. If the connecting pipes are removed when the compressor is in operation and operation valves are open, air can be sucked into the refrigerant circuit which can cause anomalous high pressure result- Be sure to use only for residential purpose.
   If this unit is installed in inferior environment such as machine shop, vehicle (like ship), warehouse, etc., it can malfunction. In this unit is installed in micro environment such as machine sticp, venicle (inte sinp), walendose, etc., it can malfunction.
  Installation must be carried out by the qualified installer completely in accordance with the installation manual.
  Installation by non qualified person or incorrect installation can cause serious troubles such as water leak, electric shock, fire and personal injury.
  Be sure to wear protective gogles and gloves while performing installation work. Improper safety measures can result in personal injury.
  Use the original accessories and the specified components for the installation. Using parts other than those prescribed may cause water leak, electric shock, fire and personal injury.
  Do not install the unit near the location where leakage of fiammable gases can oncur. If leakad gases accumulate around the unit, it can cause fire resulting in property damage and personal injury.
  When installing the unit in small rooms, make sure that refrigerant density does not exceed the limit (Reference: ISO5149) in the event of leakage. If refrigerant density exceeds the limit, consult the dealer and install the ventilation system. Otherwise lack of oxygen can occur resulting in serious accident.
  Install the unit in a location where unit will remain stable, horizontal and free of any vibration transmission.
  Unsuitable installation location can cause the unit to fall resulting in material damage and personal injury. in burst or personal injury. In the event of refrigerant leakage during installation, be sure to ventilate the In the working area properly. If the refrigerant comes into contact with naked flames, poisonous gases will be produced. If the refrigerant comes into contact with naked names, postonous gases will be produced. Electrical work must be carried out by the qualified electrician, strictly in ac-cordance with national or regional electricity regulations. Incorrect installation can cause electric shock, fire or personal injury. Make sure that earth leakage breaker and circuit breaker of appropriate ca-nacities are installed Directiles are installed. Circuit breaker should be able to disconnect all poles under over current. Absence of appropriate breakers can cause electric shock, personal injury or property damage. Be sure to switch off the power source in the event of installation, mainte-Be sure to switch of the power source in the event of installation, mainte-nance or service. If the power source is not switched off, there is a risk of electric shock, unit failure or personal injury. Be sure to tighten the cables securely in terminal block and relieve the ca-bles properly to prevent overloading the terminal blocks. Loose connections or cable mountings can cause anomalous heat production or fire. Do not process, splice or modify the power cable, or share the socket with other power plurg Do not run the unit with removed panels or protections. Touching rotating equipments, hot surfaces or high voltage parts can cause personal injury due to • entrapment, burn or electric shock. The prover plugs. Improper power cable or power plug can cause fire or electric shock due to poor connection, insufficient insulation or over-current. Do not perform any change in protective device or its setup condition yourself. entrapment, burn or electric shock. • This unit is designed specifically for R32 or R410A. Using any other refrigerant can cause unit failure and personal injury. • Do not vent R32 or R410A into atmosphere. R32 is a fluorinated greenhouse gas with a Global Warming Potential(GWP)=675. R410A is a fluorinated greenhouse gas with a Global Warming Potential(GWP)=2088. • Make sure that no air enters the refrigerant circuit when the unit is installed and removed Do not perform any change in protective device or its setup condition yourself. Changing protective device specifications can cause electric shock, fire or burst.
   Be sure to clamp the cables properly so that they do not touch any internal component of the unit.
   If cables touch any internal component, it can cause overheating and fire.
   Be sure to install service cover properly.
   Improper installation can cause electric shock or fire due to intrusion of dust or water.
   Be sure to use the prescribed power and connecting cables for electrical work.
   Using improper cables can cause electric leak or fire.
   This appliance must be connected to main power source by means of a circuit breaker or switch with a contact separation of at least 3mm.
   Improper electrical work can cause unit failure or personal injury.
   When plugging this unit, a plug conforming to the standard IEC60884-1 must be used. and removed. If air enters the refrigerant circuit, the pressure in the refrigerant circuit will become too high, which Be sure to use the prescribed pipes, flare nuts and tools for R32 or R410A.
   Using existing parts (for R22 or R407C) can cause refrigerant circuit burst resulting in unit failure and personal injury. Be sure to connect both liquid and gas connecting pipes properly before op-Be sure to connect both liquid and gas connecting pipes properly before op-erating the compressor. Do not open the liquid and gas operation valves before completing piping work, and evacuation. If the compressor is operated when connecting pipes are not connected and operation valves are open, air can be sucked into the refrigerant circuit which can cause anomalous high pressure result-ing in burst or personal injury. Be sure to tighten the flare nuts to specified torque using the torque wrench. Tightening flare nuts with excess torque can cause burst and refrigerant leakage after a long period. used. Using improper plug can cause electric shock or fire. Be sure to connect the power source cable with power source properly. Improper connection can cause intrusion of dust or water resulting in electric shock or fire. • Take care when carrying the unit by hand. If the unit weight is more than 20kg, it must be carried by two or more persons. Do not carry the unit by the plastic straps. Always use the carry handle. Do not install the unit in the locations where: Do not install the unit in the locations where: • There are heat sources nearby. • Unit is directly exposed to rain or sunlight. • There is any obstacle which can prevent smooth air circulation from inlet and outlet side of the unit. • Unit is directly exposed to oil mist and steam such as kitchen. • Chemical substances like ammonia (organic fertilizer), calcium chloride (snow melting agent) and acid (sulfurous acid etc.), which can harm the unit, will generate or accumulate. • Drain water can not be discharged properly. • TV set or radio receiver is placed within 1m. • Viset or radio receiver is placed within 1m. Do not install the outdoor unit in a location where insects and small animals can inhabit. Insects and small animals can enter the electrical parts and cause damage resulting in fire or personal injury. Instruct the user to keep the surroundings clean. If the outdoor unit is installed at height, make sure that there is enough space for installation, maintenance and service. Insufficient space can result in personal injury due to falling from the height. Do not install the unit near the location where neighbours are bothered by Height above sea level is more than 1000m.
  It can cause performance degradation, corrosion and damage of components, unit malfunction and fire. Dispose of all packing materials properly. Packing materials contain nails and wood which can cause personal injury. Keep the polybag away from children to avoid the risk of suffocation. noise or air generating from the unit. It can affect surrounding environment and cause a claim. Do not install in the locations where unit is directly exposed to corrosive gases (like sulphide gas, chloride gas), sea breeze or salty atmosphere. • It can cause corrosion of heat exchanger and damage to plastic parts. Do not install the unit close to the equipments that generate electromagnetic • Do not put anything on the outdoor unit. Object may fall causing property damage or personal injury. Do not touch the aluminum fin of the outdoor unit. waves and/or high-harmonic waves. Equipment such as inverters, standby generators, medical high frequency equipments and telecom- • munication equipments can affect the system, and cause malfunctions and breakdowns. Aluminium fin temperature is high during heating operation. Touching fin can cause burn. Do not touch any refrigerant pipe with your hands when the system is in operation. During operation the refrigerant pipe with your hands when the system is in operation. During operation the refrigerant pipes become extremely tool or extremely cold depending on the op-erating condition. Touching pipes can cause personal injury like burn (hot/cold). Install isolator or disconnect switch on the power source wiring in accor-dance with the local codes and regulations. The isolator should be locked in OFF state in accordance with EN60204-1. The system can also affect medical equipment and telecommunication equipment, and obstruct its function or cause jamming.

## **1. ACCESSORIES AND TOOLS**

Γ		Standard accessories (supplied with indoor unit)						Locally procured parts	[	installation Work	
ŀ						(a)	Sleeve (1pc)		Plus headed driver	Hole core drill (65mm in diameter)	
(	(1)	Installation board		1pc	(6)	Batteries [R03 (AAA, Micro) 1.5V] 2pcs		Sealing plate (1pc)		Knife	Wrench key (Hexagon) [4mm]
H	-						(c)	Inclination plate (1pc)	ļ	-	, (
(	(2)	Wireless remote control		1pc	(7)	Air-cleaning filters 2pcs	(d)	Putty		Saw	Flaring tool set*
ſ			60				(e)	Connecting cable		Tape measure	Gas leak detector*
(	(3)	Remote control holder	Űr]	1pc	(8)	Filter holders 2pcs		Drain hose (extension hose)		Torque wrench (14.0-62.0N·m (1.4-6.2kgf·m))	Pipe bender
H	_		9		<u> </u>		(0)	Piping cover (for insulation of connection piping)	-		
(	(4)	Tapping screws (for installation board Φ4 X 25mm)	()	5pcs	(9)	Insulation (#486 50 X 100 t3) / 1pc				Plier	Gauge for projection adjustment (Used when flare is made by using
- H	-				-		(h)	Clamp and screw (for finishing work)	Ì	Pipe cutter	conventional flare tool)
(	(5)	(for remote control holder Ф3.5 X 16mm)	Sector .	2pcs				Electrical tape	ı		ned specifically for R32 or R410A

## 2. SELECTING INSTALLATION LOCATION

After getting customer's approval, select installation location according to following guidelines

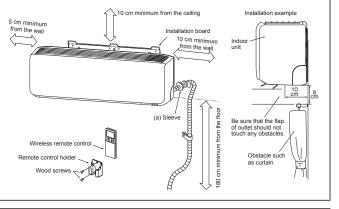
### 1. Indoor unit

- Where there is no obstruction to the airflow and where the cooled and heated air can be evenly distributed. A solid place where the unit or the wall will not vibrate
- · A place where there will be enough space for servicing. (Where space mentioned on the right side can be secured.)
- Where it is easy to conduct wiring and piping work.
  A place where unit is not directly exposed to sunlight or street light.
  A place where it can be easily drained.
- A place separated at least 1m away from the television or the radio. (To prevent interference to imes and sounds.)

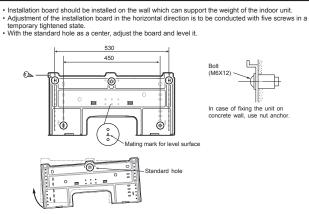
- A place where this unit is not affected by the high frequency equipment or electric equipment. A void installing this unit in place where there is much oil mist. A valce where there is no electric equipment or household. I nstall the indoor unit on the wall where the height from the floor to the bottom of the unit is more than 100-min. 180 cm

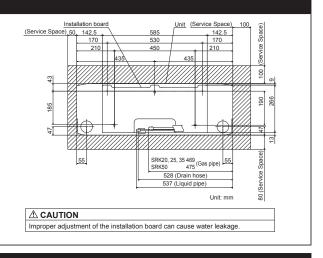
### 2. Remote control

- A place where the air-conditioner can receive the signal surely during operating the remote control.
  A place where it is not affected by the TV, radio etc.
  Do not place where it is exposed to direct sunlight or near heat devices such as a stove.



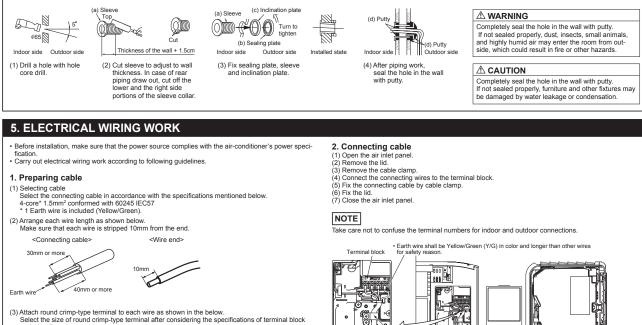
## **3. INSTALLING INSTALLATION BOARD**





### 4. DRILLING HOLE AND FIXTURE OF SLEEVE

When drilling the wall that contains a metal lath, wire lath or metal plate, be sure to use sealing plate, sleeve and inclination plate (Locally procured parts).



(3) Attach round crimp-type terminal to each wire as shown in the below. Select the size of round crimp-type terminal after considering the specifications of terminal block and wire diameter.



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0 E

Cable

Incorrect wiring connection can cause malfunction or fire

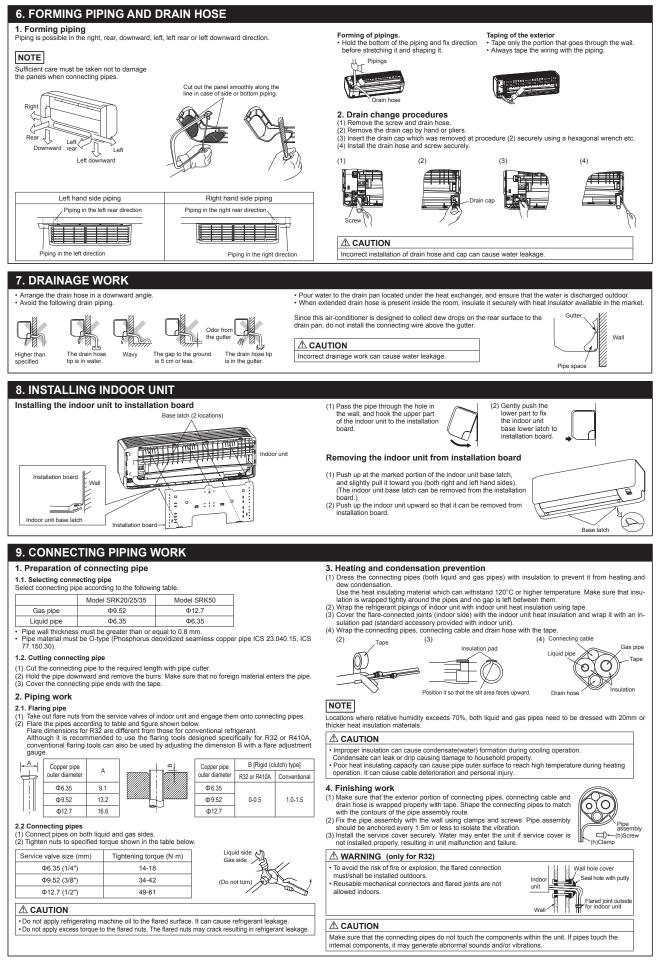
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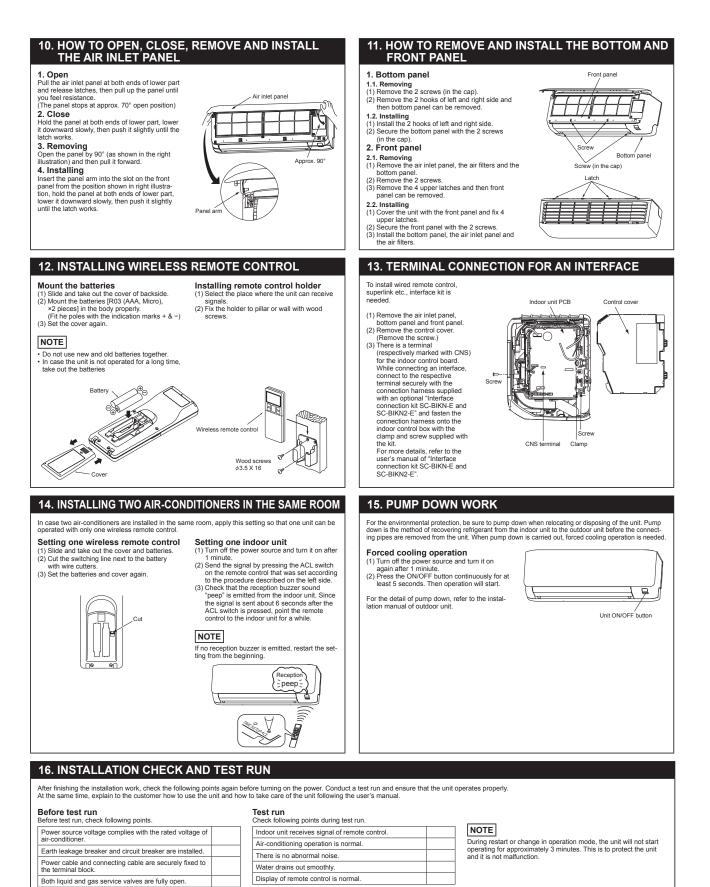
The screw of the lid is tightened securely.

Lic

1-21

(e) Connecting cable





Explain the operating and maintenance methods to the

Keep this installation manual together with user's

user according to the user's manual.

After test run

manual

No gas leaks from the joints of the service valves

Hole on the wall is completely sealed with putty.

Drain hose and cap are installed properly.

Screw of the lid is tightened securely

Indoor and outdoor side pipe joints have been insulated

### (c) Model SRK71ZR-W

### RLD012A018

Model SRK71ZR R32/R410A REFRIGERANT USED

This installation manual deals with an indoor unit installation only. For an outdoor unit installation, refer to page 11.

This unit is designed for R32 or R410A. See a label on the outdoor unit to check refrigerant information

### SAFETY PRECAUTIONS

- Before installation, read the "SAFETY PRECAUTIONS" carefully and strictly follow it during the installation. If unusual noise can be heard during the test run, consult the dealer.
   The precautionary items mentioned below are distinguished into two levels, WARNING and CAUTION.
   The precautionary items mentioned below are distinguished into two levels, WARNING and CAUTION.
   WaRNING Indicates a potentially hazardous situation which, if not avoided, can result in personal in proster to keep the installation manual together with user's manual.
   Be sure to keep the installation manual together with user's manual at a place where it is easily accessible to the user any time. Moreover, ask the user to hand the manuals to a new user, whenever required. Jury or property damage.
   Both mention the important items to protect your health and safety. Therefore, strictly follow them by any means.

- MARNING During pump down work, be sure to stop the compressor before closing op-eration valves and removing connecting pipes. If the connecting pipes are removed when the compressor is in operation and operation valves are open, air can be sucked into the refrigerant circuit which can cause anomalous high pressure result- Be sure to use only for residential purpose.
   If this unit is installed in inferior environment such as machine shop, vehicle (like ship), warehouse, etc., it can malfunction. Installation must be carried out by the qualified installer completely in accordance with the installation manual. Installation by non qualified person or incorrect installation can cause serious troubles such as water leak, electric shock, fire and personal injury. ing in burst or personal injury. In the event of refrigerant leakage during installation, be sure to ventilate the working area properly. If the refrigerant comes into contact with naked flames, poisonous gases will be produced. Be sure to wear protective goggles and gloves while performing installation work. Improper safety measures can result in personal injury.
   Use the original accessories and the specified components for the installation. If the reingerant comes into contact with naked names, poisonous gases will be produced. Electrical work must be carried out by the qualified electrician, strictly in ac-cordance with national or regional electricity regulations. Incorrect installation can cause electric shock, fire or personal injury. Make sure that earth leakage breaker and circuit breaker of appropriate ca-Using parts other than those prescribed may cause water leak, electric shock, fire and personal injury. • Do not install the unit near the location where leakage of flammable gases can occur. If leaked gases accumulate around the unit, it can cause fire resulting in property damage and per-Make sure that earth leakage breaker and circuit breaker of appropriate ca-pacities are installed. Circuit breaker should be able to disconnect all poles under over current. Absence of appropriate breakers can cause electric shock, personal injury or property damage. Be sure to switch off the power source in the event of installation, mainte-nance or service. If the power source is not switched off, there is a risk of electric shock, unit failure or personal injury. Be sure to tighten the cables securely in terminal block and relieve the ca-bles properly to prevent overloading the terminal blocks. Loose connections or cable mountings can cause anomalous heat production or fire. Do not process, splice or modify the power cable, or share the socket with other power blues. When installing the unit in small rooms, make sure that refrigerant density does not exceed the limit (Reference: ISO5149) in the event of leakage. If refrigerant density exceeds the limit, consult the dealer and install the ventilation system. Otherwise lack of oxygen can occur resulting in serious accident. Install the unit in a location where unit will remain stable, horizontal and free of any vibration transmission. Unsuitable installation location can cause the unit to fall resulting in material damage and personal injury. Do not run the unit with removed panels or protections. Touching rotating equipments, hot surfaces or high voltage parts can cause personal injury due to entrapment, burn or electric shock. other power plugs. Improper power cable or power plug can cause fire or electric shock due to poor connection, insuf-ficient insulation or over-ourrent. Do not perform any change in protective device or its setup condition yourself. entragment, burn or electric shock. This unit is designed specifically for R32 or R410A. Using any other refrigerant can cause unit failure and personal injury. Do not vent R32 or R410A into atmosphere. R32 is a fluorinated greenhouse gas with a Global Warming Potential(GWP)=675. R410A is a fluorinated greenhouse gas with a Global Warming Potential(GWP)=2088. Make sure that no air enters the refrigerant circuit when the unit is installed and compared. Changing protective device specifications can cause electric shock, fire or burst. Be sure to clamp the cables properly so that they do not touch any internal component of the unit. component of the unit. If cables touch any internal component, it can cause overheating and fire. Be sure to install service cover properly. Improper installation can cause electric shock or fre due to intrusion of dust or water. Be sure to use the prescribed power and connecting cables for electrical work. Using improper cables can cause electric leak or fire. This appliance must be connected to main power source by means of a cir-cuit breaker or switch with a contact separation of at least 3mm. Improper electrical work can cause unit failure or personal injury. When plugging this unit, a plug conforming to the standard IEC60884-1 must be used. and removed. If air enters the refrigerant circuit, the pressure in the refrigerant circuit will become too high, which Be sure to use the personal injury.
   Be sure to use the prescribed pipes, flare nuts and tools for R32 or R410A.
   Using existing parts (for R22 or R407C) can cause refrigerant circuit burst resulting in unit failure and personal injury Be sure to connect both liquid and gas connecting pipes properly before op-Parating the compressor. Do not open the liquid and gas operation valves before completing piping used. work, and evacuation. If the compressor is operated when connecting pipes are not connected and operation valves are open, air can be sucked into the refrigerant circuit which can cause anomalous high pressure result-ing in burst or personal injury. • Be sure to tighten the flare nuts to specified torque using the torque wrench. Using improper plug can cause electric shock or fre. Be sure to connect the power source cable with power source properly. Improper connection can cause intrusion of dust or water resulting in electric shock or fire. Tightening flare nuts with excess torque can cause burst and refrigerant leakage after a long per Take care when carrying the unit by hand.
   If the unit weight is more than 20kg, it must be carried by two or more persons.
   Do not carry the unit by the plastic straps. Always use the carry handle.
   Do not install the outdoor unit in a location where insects and small animals Do not install the unit in the locations where:
   There are heat sources nearby.
   Unit is directly exposed to rain or sunlight. Unit is directly exposed to rain or sunlight.
   There is any obstacle which can prevent smooth air circulation from inlet and outlet side of the unit.
   Unit is directly exposed to oil mist and steam such as kitchen.
   Chemical substances like ammonia (organic fertilizer), calcium chloride (snow melting agent) and
   acid (suffurous acid etc.), which can harm the unit, will generate or accumulate.
   Drain water can not be discharged property.
   TV set or radio receiver is placed within 1m.
   Height above sea level is more than 1000m.
   It can cause performance degradation, corrosion and damage of components, unit malfunction and fire. can inhabit. Insects and small animals can enter the electrical parts and cause damage resulting in fire or per-If the outdoor unit is installed at height, make sure that there is enough space for installation, maintenance and service. Insufficient space can result in personal injury due to falling from the height. Install the unit near the location where neighbours are bothered by noise or air generating from the location where neighbours are bothered by noise or air generating from the unit.
  It can affect surrounding environment and cause a claim.
  Do not install in the locations where unit is directly exposed to corrosive gases (like sulphide gas, chloride gas), sea breeze or salty atmosphere.
  It can cause corrosion of heat exchanger and damage to plastic parts.
  De not install in the locations the construction environment and cause the construction environment. Dispose of all packing materials properly.
   Packing materials contain nails and wood which can cause personal injury. Keep the polybag away from children to avoid the risk of suffocation. • Do not put anything on the outdoor unit. Object may fall causing property damage or personal injury Do not install the unit close to the equipments that generate electromagnetic waves and/or high-harmonic waves.
   Equipment such as inverters, standby generators, medical high frequency equipments and telecom-munication equipments can affect the system, and cause malfunctions and breakdowns.
   The system can also affect medical equipment and telecommunication equipment, and obstruct its function equipment such as inverters. Do not touch the aluminum fin of the outdoor unit. Aluminium fin temperature is high during heating operation. Touching fin can cause burn. Pointinuar in constraints of the second seco function or cause iamming.

### **1. ACCESSORIES AND TOOLS**

	Standard accessories (supplied with indoor unit)											installation Work
								(a	(a) Sleeve (1pc)		Plus headed driver	Hole core drill (65mm in diameter)
(1)	Installation board		1pc	(6)	Batteries [R03 (AAA, Micro) 1.5V]	680	2pcs	(b	) Sealing plate (1pc)		Knife	Wrench key (Hexagon) [4mm]
						- 1/	-	(C	Inclination plate (1pc)		Saw	Flaring tool set*
(2)	Remote control		1pc	(7)	Air-cleaning filters		2pcs	(d	) Putty		Tape measure	Gas leak detector*
				(0)					) Connecting cable		Torque wrench	Pipe bender
(3)	Remote control holder	(Jrg)	1pc	(8)	Filter holders	e p	2pcs	(f	Drain hose (extension hose)		(14.0-82.0N·m (1.4-8.2kgf·m))	
		- U						10	) Piping cover (for insulation of connection piping)		Plier	Gauge for projection adjustment (Used when flare is made by us-
(4)	Tapping screws (for installation board ø4 X 25mm)	© <b>n</b>	10pcs	(9)	Insulation (#486 50 X 100 t3)		1pc				Pipe cutter	ing conventional flare tool)
	· · · · · · · · · · · · · · · · · · ·							(h	Clamp and screw (for finishing work)		* Desigr	ned specifically for R32 or R410A
(5)	Wood screws (for remote control holder ø3.5 X 16mm)	Sector -	2pcs						Electrical tape			

## 2. SELECTING INSTALLATION LOCATION

After getting customer's approval, select installation location according to following guidelines.

- Indoor unit
   Where there is no obstruction to the airflow and where the cooled and heated air can be evenly distributed.
   A colid alege where the unit or the well will get withrete.
- distributed. A solid place where the unit or the wall will not vibrate. A place where there will be enough space for servicing. (Where space mentioned on the right side can be secured.) Where it is easy to conduct wiring and piping work. A place where unit is not directly exposed to sunlight or street light. A place where it can be easily drained. A place separated at least 1m away from the television or the radio. (To prevent interference to im-are and sounds.)

- A place where this unit is not affected by the high frequency equipment or electric equipment.
  Avoid installing this unit is not affected by the high frequency equipment or electric equipment.
  A place where there is no electric equipment or household.
  Install the indoor unit on the wall where the height from the floor to the bottom of the unit is more than the place t

- 180 cm

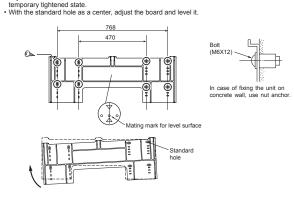
### 2. Remote control

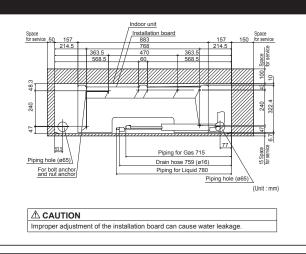
- A place where the air-conditioner can receive the signal surely during operating the remote control.
  A place where it is not affected by the TV, radio etc.
  Do not place where it is exposed to direct sunlight or near heat devices such as a stove.

10 cm minimum from the ceiling Installation example 5 cm minimum from the wall Installation board 15 cm minimum Indo TA MARIE -ANT 13 cm loor (a) SI Be sure that the flap of outlet should not touch any obstacles. the Ż Remote control Ohstacle Remote control holder as curta Ĥ Wood screws

## **3. INSTALLING INSTALLATION BOARD**

Installation board should be installed on the wall which can support the weight of the indoor unit.
 Adjustment of the installation board in the horizontal direction is to be conducted with 8 screws in a



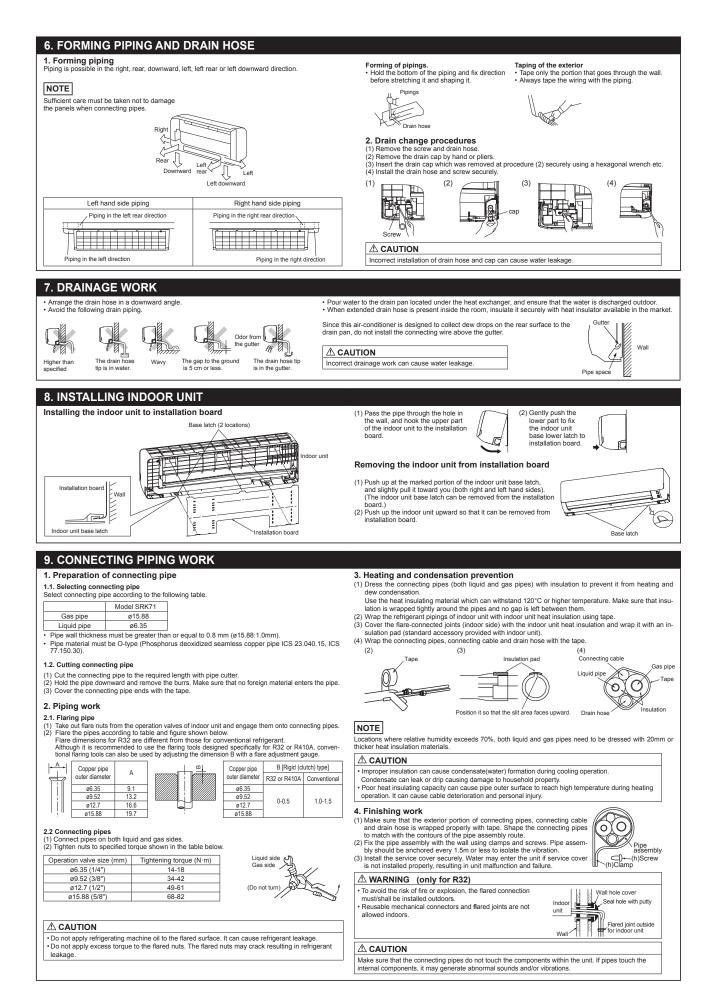


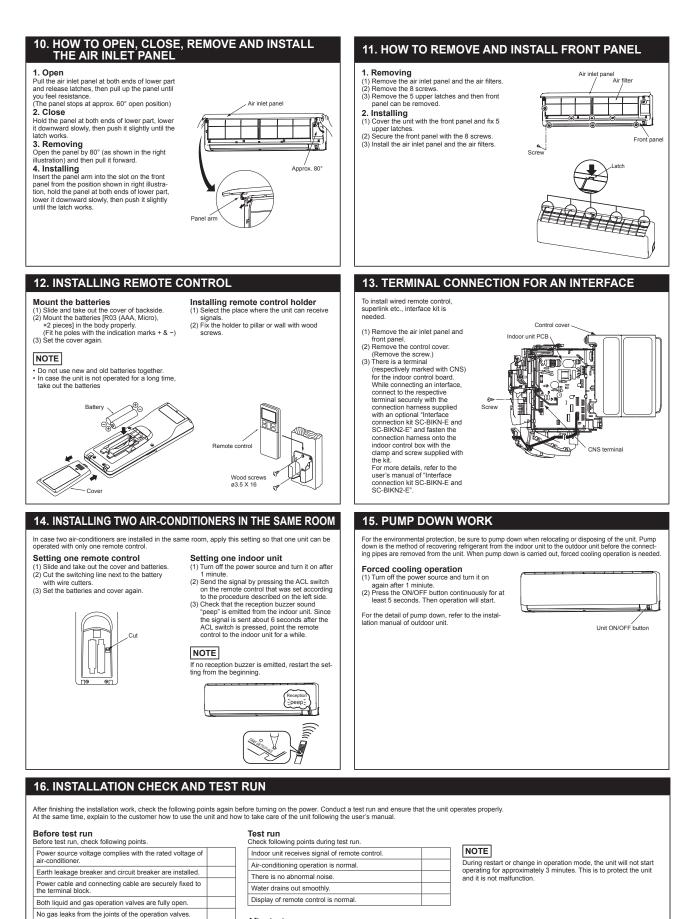
### 4. DRILLING HOLE AND FIXTURE OF SLEEVE

When drilling the wall that contains a metal lath, wire lath or metal plate, be sure to use sealing plate, sleeve and inclination plate (Locally procured parts) (c) Inclination plate (a) Sleeve

### Тор (a) Sieeve (d) Putty ())))) Ľ 5° Completely seal the hole in the wall with putty. If not sealed properly, dust, insects, small animals, and highly humid air may enter the room from out-side, which could result in fire or other hazards. the ø65 ER) Cut (b) Sealing plate Indoor side Outdoor side Thickness of the wall + 1.5cm Indoor side Outdoor side Indoor side Outdoor side Installed state (2) Cut sleeve to adjust to wall (3) Fix sealing plate, sleeve (4) After piping work (1) Drill a hole with hole **≜** CAUTION thickness. In case of rear piping draw out, cut off the lower and the right side portions of the sleeve collar. core drill and inclination plate seal the hole in the wall with putty. Completely seal the hole in the wall with putty. If not sealed properly, furniture and other fixtures may be damaged by water leakage or condensation. **5. ELECTRICAL WIRING WORK** Before installation, make sure that the power source complies with the air-conditioner's power speci-2. Connecting cable Connecting cable (1) Open the air inlet panel. (2) Remove the lid. (3) Remove the cable clamp. (4) Connect the connecting wires to the terminal block. (5) Fix the connecting cable by cable clamp. (6) Fix the lid. Carry out electrical wiring work according to following guidelines. 1. Preparing cable (1) Selecting cable Select the connecting cable in accordance with the specifications mentioned below. 4-core\* 1.5mm<sup>2</sup> conformed with 60245 IEC57 \* 1 Earth wire is included (Yellow/Green). (7) Close the air inlet panel (2) Arrange each wire length as shown below. Make sure that each wire is stripped 10mm from the end. NOTE Take care not to confuse the terminal numbers for indoor and outdoor connections. <Connecting cable> <Wire end> The screw of the lid is tightened securely 30mm or more Terminal block M ØŬ 40mm or more 1 Earth w (3) Attach round crimp-type terminal to each wire as shown in the below. Select the size of round crimp-type terminal after considering the specifications of terminal block A $\odot$ and wire diameter. ቨ Round crimp-type termina Cable clamp - Charles 10m / Connecting 5 6 · Earth wire shall be Yellow/Green (Y/G) in color and longer than other AC wires for safety reason

Incorrect wiring connection can cause malfunction or fire





Explain the operating and maintenance methods to the user according to the user's manual.

Keep this installation manual together with user's

After test run

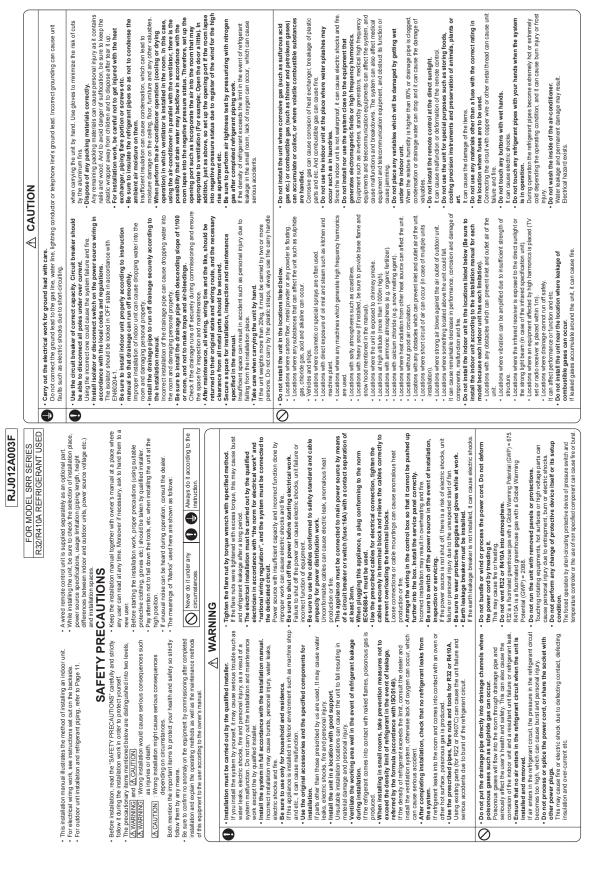
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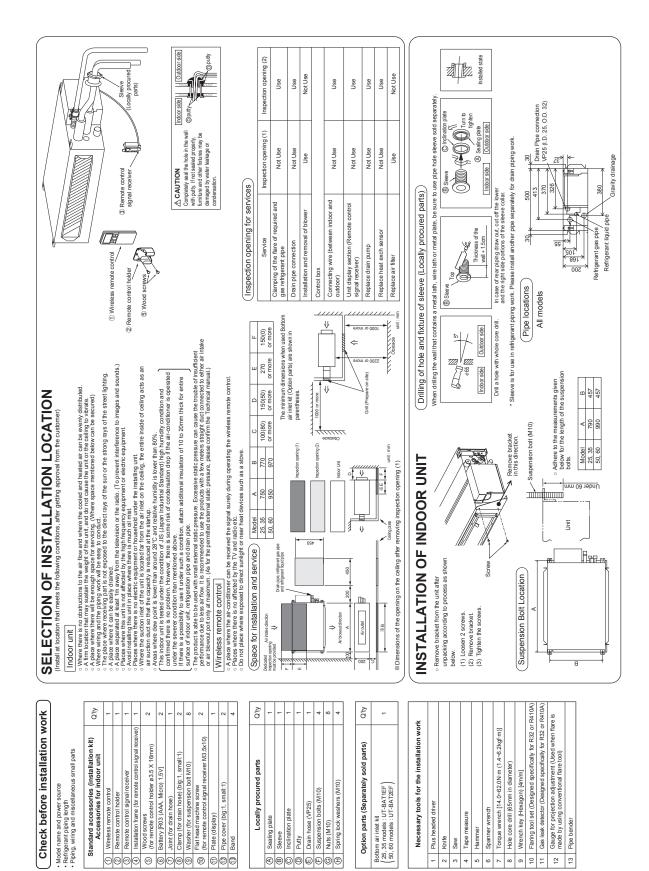
Indoor and outdoor side pipe joints have been insulated.

Hole on the wall is completely sealed with putty. Drain hose and cap are installed properly.

Screw of the lid is tightened securely.

(2) Ceiling concealed type (SRR) Models SRR25ZM-W, 35ZM-W, 50ZS-W, 60ZS-W





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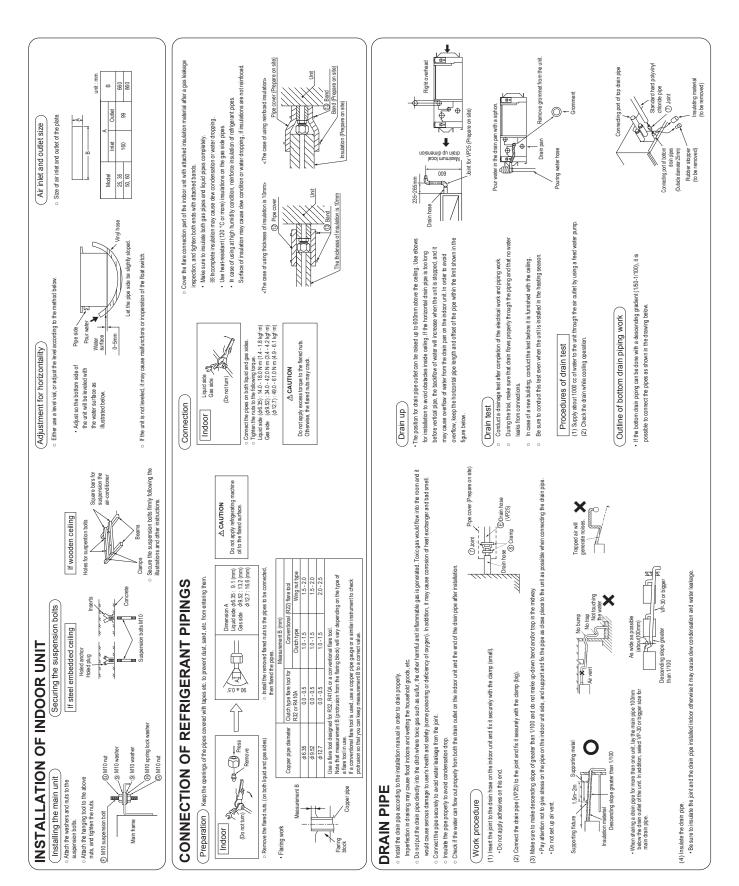
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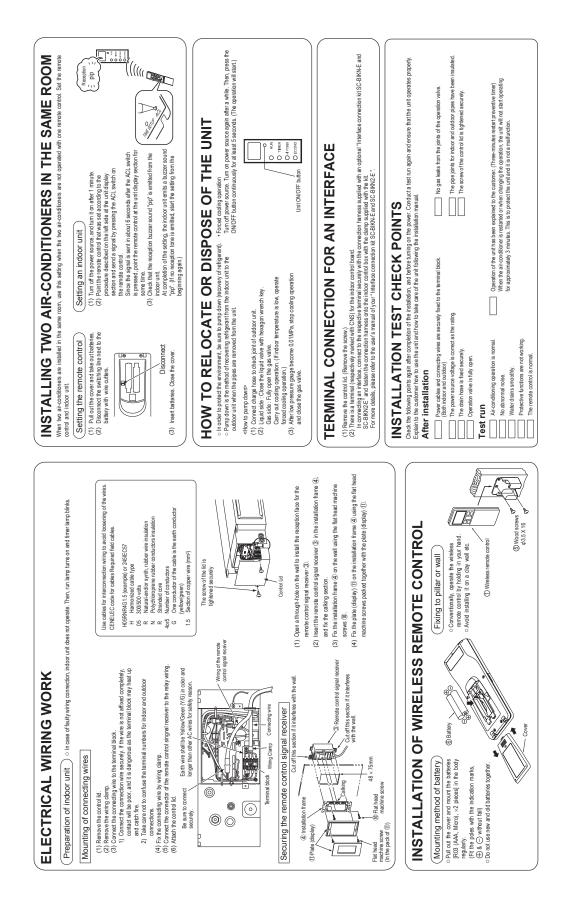
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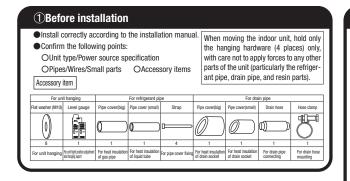
## (3) 4-way ceiling cassette type(FDTC) Models FDTC25VH, 35VH, 50VH, 60VH

This manual is for the installation of the indoor unit.

For wired remote control installation, refer to page 168. For wireless kit installation, refer to page 186. For electrical wiring work (Outdoor unit) and refrigerant pipe work installation for outdoor unit, refer to page 11. For motion sensor kit installation, refer to page 210. This unit must always be used with the panel.

### SAFETY PRECAUTIONS Read the "SAFETY PRECAUTIONS" carefully first of all and then strictly follow it during the installation work in order to protect yourself. The precautionary items mentioned below are distinguished into two levels, <u>AWARNING</u> and <u>ACAUTION</u>. <u>(AWARNING</u>): Wrong installation would cause serious consequences such as injuries or death. Aution : 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. O Always do it according to the instruction. After completing the installation, do commissioning to confirm there are no abnormalities, and explain to the customers about "SAFETY PRECAUTIONS", correct operation method and maintenance method (air filter cleaning, operation method and temperature setting method) with user's manual of this unit Ask your customers to keep this installation manual together with the user's manual. Also, ask them to hand over the user's manual to the new user when the owner is changed. **WARNING** Installation should be performed by the specialist. 0 If you install the unit by yourself, it may lead to serious trouble such as water leakage, electric shock, fire, and injury due to overturn of the unit Install the system correctly according to these installation manuals. 0 Improper installation may cause explosion, injury, water leakage, electric shock, and fire Check the density refered by the foumula (accordance with ISO5149). 0 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. 0 If parts unspecified by our company are used it could cause water leakage, electric shock, fire, and injury due to overturn of the unit. Ventilate the working area well in case the refrigerant leaks during installation. If the refrigerant contacts the fire, toxic gas is produced In case of R32, the refrigerant could be ignited because of its flammability. Install the unit in a location that can hold heavy weight Ø allation may cause the unit to fall leading to Install the unit properly in order to be able to withstand strong winds such as typhoons, and earthquakes 0 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. Ø 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 Ø 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 0 services panel property. Improper fitting may cause abnormal heat and fire. Check for refrigerant gas leakage after installation is completed. 0 If the refrigerant gas leaks into the house and comes in contact with a fan heater, a stove, or an oven, toxic gas is produced Use the specified pipe, flare nut, and tools for R32 or R410A. 0 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. 9 If the flare nut were tightened with excess torque, it could cause burst and refrigerant leakage after a long perio Do not put the drainage pipe directly into drainage channels where poisonous gases such as sulfide gas can Poisonous gases will flow into the room through drainage pipe and seriously affect the user's health and safety. This can also cause the corrosion of the indoor unit and a resultant unit failure or refrigerant leak. Connect the pipes for refrigeration circuit securely in installation work before compressor is operated. 0 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. 0 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. ()air may cause water leakage, electric shock or fire • Consult the dealer or a specialist about removal of the air-conditioner. 0 Improper installation may cause water leakage, electric shock or fire. • Turn off the power source during servicing or inspection work. 0 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. fouching the rotating equipment, hot surface, or high voltage section could cause an injury to be caught in the machine, to get $\land$ burned, or electric shock. Shut off the power before electrical wiring work. It could cause electric shock, unit failure and improper runni

### ▲ CAUTION • Perform earth wiring surely. Do not connect the earth wining but the gas pipe, water pipe, lightning rod and telephone earth wining. Improper earth could use 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. a Jsing 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. $\bigcirc$ Connecting the circuit by wire or copper wire could cause unit failure and fir • Do not install the indoor unit near the location where there is possibility of flammable gas leakage If the gas leaks and gathers around the unit, it could cause fire. Do not install and use the unit where corrosive gas (such as sulfurous acid gas etc.) or flammable gas (such as thinner, petroleum etc.) may be generated or accumulated, or volatile flammable substances are handled. It could cause the corrosion of heat exchanger, breakage of plastic parts etc. And inflammable gas could cause fire. Secure a space for installation, inspection and maintenance specified in the manual. 0 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. $\bigcirc$ 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 telecommunicati equipment might influence the air-conditioner and cause a malfunction and breakdown. Or the air-conditioner might nfluence medical equipments or telecommunication equipments, and obstruct their medical activity or cause jamming • Do not install the remote control at the direct sunlight. $\sim$ It could cause breakdown or deformation of the remote control • Do not install the indoor unit at the place listed below. Places where cosmetics or special sprays are Places where flammable gas could leak. Places where carbon fiber, metal powder or any powder is floated. Place where the substances which affect the air conditioner are generated such as suffice gas, chindie gas, acid alkaii or ammonic atmospheres. frequently used. Highly salted area such as beach. Heavy snow area Places where the system is affect Places exposed to oil mist or steam directly. On vehicles and ships smoke from a chimney. Places where machinery which generates high harmonics is used. Altitude over 1000m Do not install the indoor unit in the locations listed below (Be sure to install the indoor unit) ccording to the installation manual for each model becau Locations with any obstacles which can prevent inlet and Do not se each indoor unit has each limitation) Do not install the motion sensor mounting panel at following place outlet air of the unit It could cause detection error, incapacity of detection, or Locations where vibration can be amplified due to characteristic degradation. • Place where vibration is applied to it for a long period of time. Locations where the infrared receiver is exposed to the direct sunlight or the strong light beam. (in case of the Place where static electricity or electromagnetic wave generates Place where it is exposed to high temperature or humidity for a infrared specification unit) long period of time Locations where an equipment affected by high harmonics is • Dusty place or where the lens face could be fouled or damaged. placed. (TV set or radio receiver is placed within 5m) Locations where drainage cannot run off safely. t can affect performance or function and etc.. • Do not put any valuables which will break down by getting wet under the air-conditioner tion could drop when the relative humidity is higher than 80% or drain pipe is clogged, and it darr • 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. a Improper connection of the drain pipe may cause dropping water into room and damaging user's belonging Be sure to perform air tightness test by pressurizing with nitrogen gas after completed refrigerant piping work 0 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 0 and not to make air-bleeding. Check if the drainage is correctly done during commissioning and ensure the space for inspection and maintenanc Ensure the insulation on the pipes for refrigeration circuit so as not to condense water. 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. ects and small animals could come into the electronic components and cause breakdown and fire. Instruct the user to 🔿 keep the surroundings clean. Pay extra attention, carrying the unit by hand. Carry the unit with 2 people if it is heavier than 20kg to 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. a eaving the materials may cause injury as metals like nail and ds are used in the packao • Do not operate the system without the air filter. It may cause the breakdown of the system due to clogging of the heat exchange Do not touch any button with wet hands. It could cause electric shock • Do not touch the refrigerant piping with bare hands when in operation. The pipe during operation would become very hot or cold according to the operating condition, and it could cause a burn or 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 breakdow • Do not control the operation with the circuit breaker. It could cause fire or water leakage. In addition, the fan may start operation unexpectedly and it may cause injury



### 2 Selection of installation location for the indoor unit

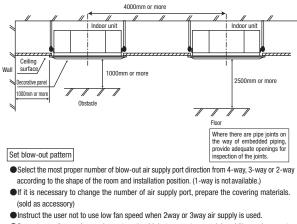
(1) Select the suitable areas to install the unit under approval of the user.

- Areas where the indoor unit can deliver hot and cold wind sufficiently. Suggest to the user to use a circulator if the ceiling height is over 3m to avoid warm air being accumulated on the ceiling.
- In case of the panel having the motion sensor, the installation height must be no higher than 4 m. It could reduce the sensitivity of motion sensor, disabling the detection.
   Areas where there is enough space to install and service.
- Areas where it can be drained properly. Areas where drain pipe descending slope can be taken.
- Areas where there is no obstruction of air flow on both air return grille and air supply port.
   Areas where fire alarm will not be accidentally activated by the air-conditioner.
- Areas where the supply air does not short-circuit.
- Areas where it is not influenced by draft air.
- Areas not exposed to direct sunlight.
- Areas where dew point is lower than around 28°C and relative humidity is lower than 80%.
   This indoor unit is tested under the condition of JIS (Japan Industrial Standard) high humidity
   condition and confirmed there is no problem. However, there is some risk of condensation
   drop if the air-conditioner is operated under the severer condition than mentioned above.
   If there is a possibility to use it under such a condition, attach additional insulation of 10 to
   20mm thick for entire surface of indoor unit, refrigeration pipe and drain pipe.
- Areas where TV and radio stays away more than 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.)
- ②Check if the place where the air-conditioner is installed can hold the weight of the unit. If it is not able to hold, reinforce the structure with boards and beams strong enough to hold it. If the strength is not enough, it could cause injury due to unit falling.
- ③If there are 2 units of wireless type, keep them away for more than 6m to avoid malfunction due to cross communication.
- (4) When plural indoor units are installed nearby, keep them away for more than 4m.

### Space for installation and service

When it is not possible to keep enough space between indoor unit and wall or between indoor units, close the air supply port where it is not possible to keep space and confirm there is no short-circuit of air flow.



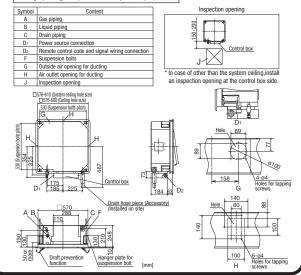


- Do not use 2way air supply port under high temperature and humidity environment. (Otherwise it could cause condensation and leakage of water.)
- It is possible to set the air flow direction port by port independently. Refer to the user's manual for details.

### **③Preparation before installation**

- If suspension bolt becomes longer, do reinforcement of earthquake resistant.
   OFor grid ceiling
  - When suspension bolt length is over 500mm, or the gap between the ceiling and roof is over 700mm, apply earthquake resistant brace to the bolt.
- Oln case the unit is hanged directly from the slab and is installed on the ceiling plane which has enough strength.
- When suspension bolt length is over 1000mm, apply the earthquake resistant brace to the bolt. • Prepare four (4) sets of suspension bolt, nut and spring washer (M10 or M8) on site.

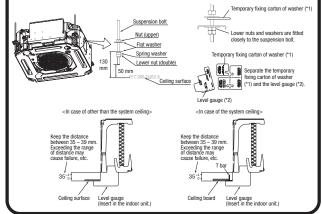
### Ceiling opening, Suspension bolts pitch, Pipe position

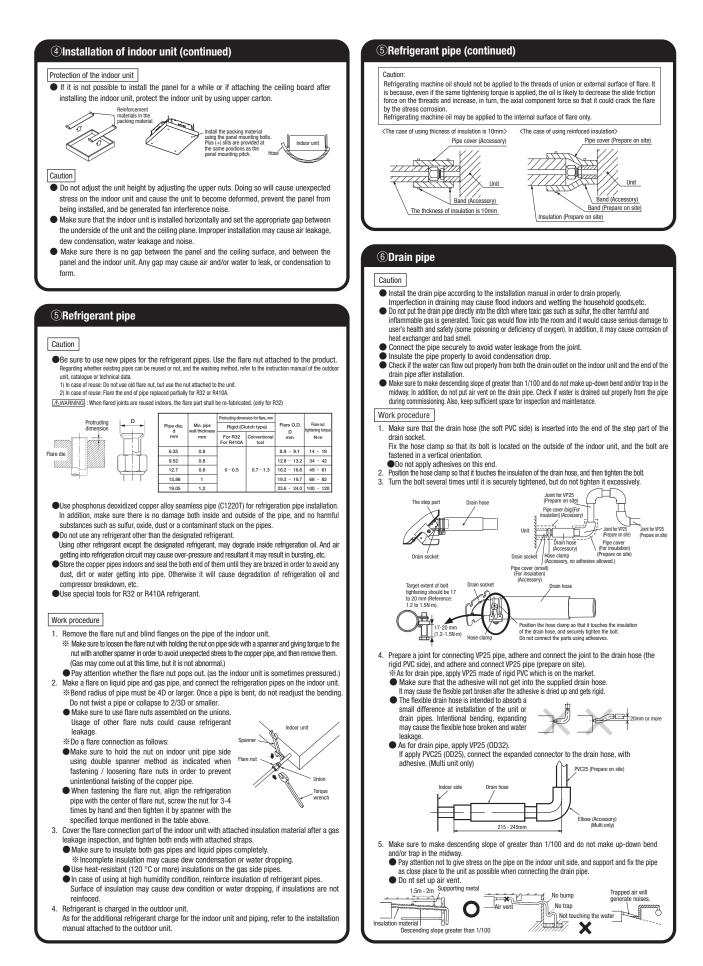


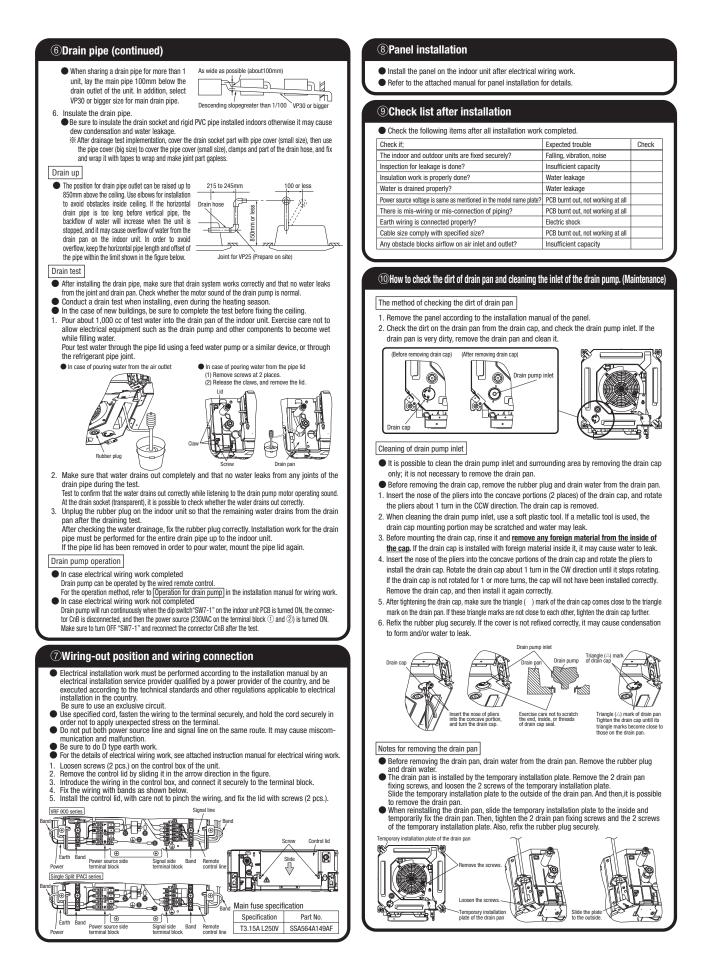
### **(4)**Installation of indoor unit

Work procedure

- 1. This unit is designed to install on a system ceiling.
- If necessary, remove T bars temporarily before installing the unit.
- When it is installed on a ceiling other than the system ceiling, install an inspection port at the control box side.
- 2. Determine the position of suspension bolts (530 mm  $\times$  530 mm).
- 3. Use 4 suspension bolts, and fix them such that each bolt can withstand a pull-out load of 500 N.
- Set the suspension bolt length to about 50 mm from the ceiling.
   Temporarily locate the lower nuts of the suspension bolts (4 places) at a position approxi-
- mately 130 mm from the ceiling. 6. Temporarily locate the upper nuts of the suspension bolts (4 places) at positions sufficiently
- b. Temporarily locate the upper nuts of the suspension borts (4 praces) at positions sumcentry distance from the lower nuts so that they do not interfere with the suspension of the indoor unit and with its height adjustment.
- Set the upper nuts of the suspension bolts and upper washers (4 places) at positions sufficiently distance from the lower nuts. Then, push and insert the temporary fixing carton of washers (\*1) onto suspension bolts. Make sure that the upper washers do not slide down.
   Suspend the indoor unit.
- o. Suspend the indoor un
- 9. After suspending the indoor unit, mount the level gauge (\*2) to the air outlet of the indoor unit, and adjust the suspension height of the indoor unit. Loosen the upper nuts (4 places), and adjust the suspension height using the lower nuts (4 places). Confirm there is no slack between the lower nuts and flat washers of the indoor unit hanger plate (4 places).
- 10. Remove the temporary fixing carton of washers (from all 4 places).
- 11. Make sure that the indoor unit is installed horizontally. Confirm the levelness of the indoor unit using a level gauge or transparent hose filled with water. (Keep the height difference at both ends of the indoor unit within 3 mm.)
- 12. Tighten the upper nuts of the suspension bolts (4 places).

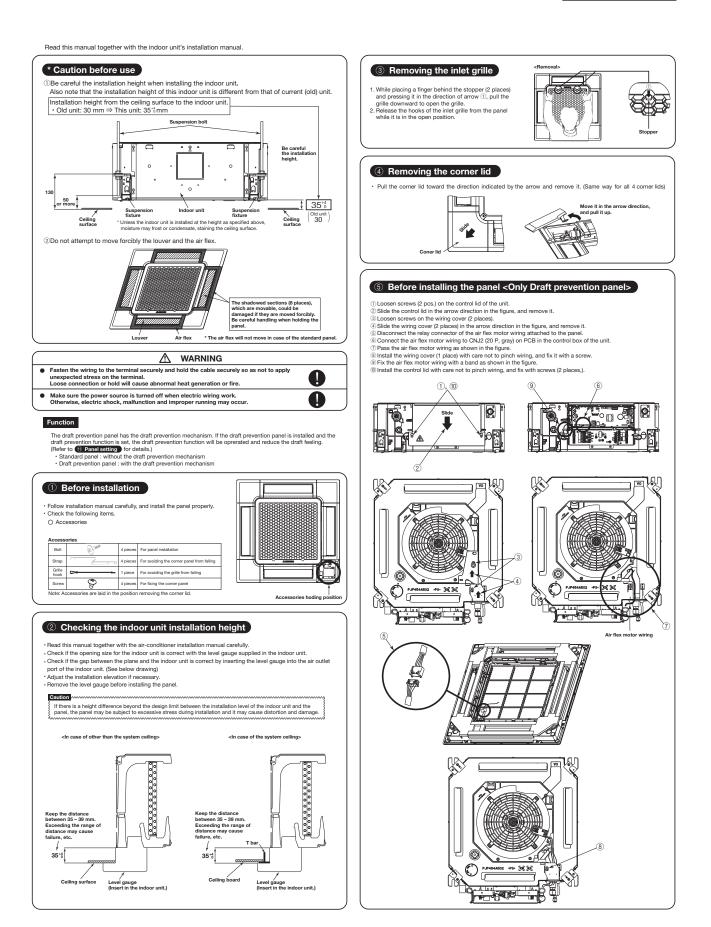


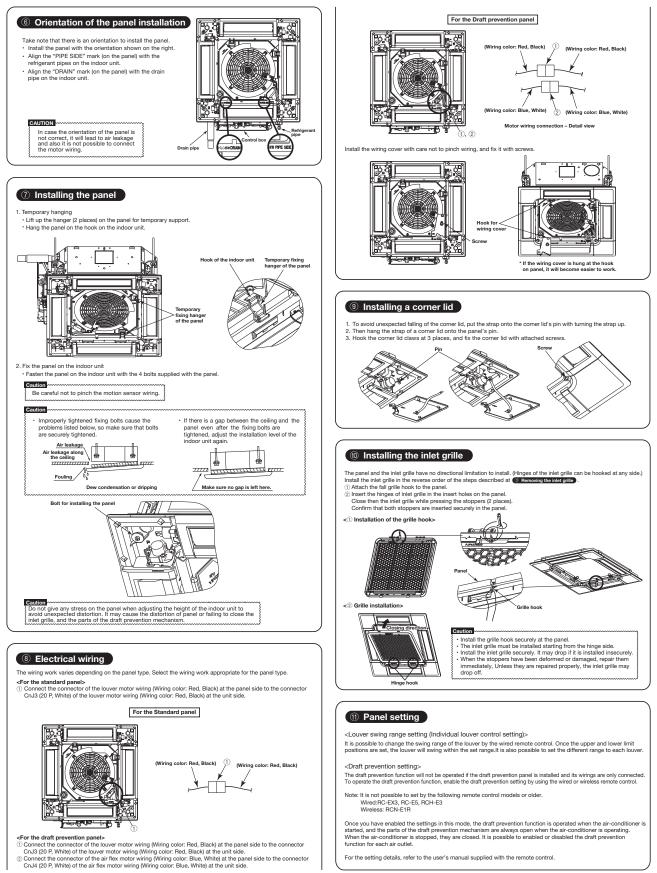




## Panel installation

## PJF012D503





# FRESH AIR INTAKE (Location for installation) FOR FDTC

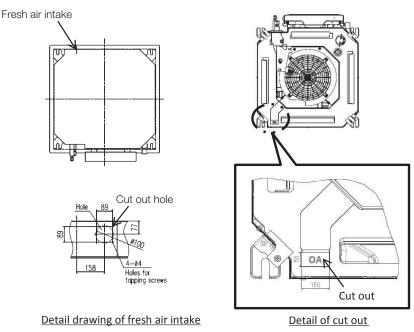
At the time of installation use the duct hole (cut out) located at the positions shown in follwing diagram, as and when required.

## (1) Temperature conditions for OA spacer<sup>(1)</sup>

- Adjust the temperature conditions of mixed air with outdoor air and indoor air within the usage range of suction air temperature for the air-conditioner.
- The usage temperature conditions of intake outdoor air and indoor air around the ducts are shown in the following table.
- If the temperature conditions of intake outdoor air do not meet, process the outdoor air before intaking.

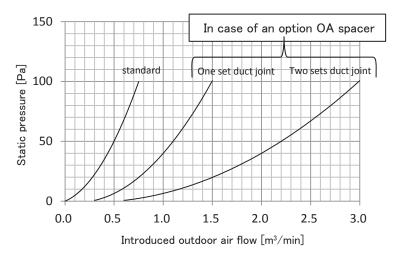
Ou susting mode	Usage temperature conditions						
Operation mode	Intake outdoor air	Indoor air around the ducts					
In heating	5°C DB or higher	18.5°C WB or lower and 60% RH or lower					
In cooling	29°C DB or lower and 80% RH or lower	20°C DB or higher					

Note(1) : For the OA spacer, refer to page 235.

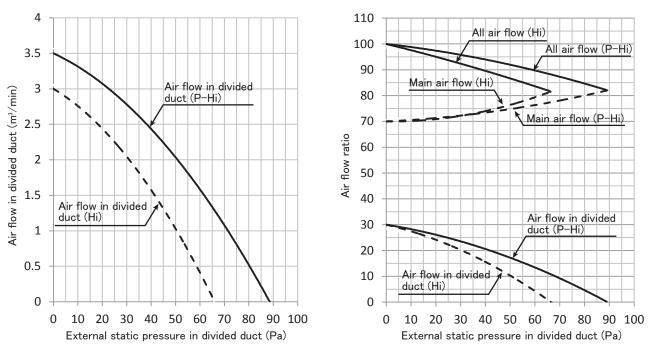


# Fresh air intake amount & static pressure characteristics

FDTC50, 60VH



# **CHARACTERISTICS OF AIR FLOW IN DIVIDED DUCT FOR FDTC**



## Models FDTC50, 60VH

## Divided duct connection method

1. Open some one during 4 knock out holes, and please connect a divided duct.

It isn't possible to use more than one hole at the same time.

- 2. Please make the wind shielding a blowout vent or the side where a divided duct was connected.
- 3. The shotage of the external static pressure by pressure loss for a connected divided duct and blowout unit is made up by a booster fan.

example : When 2.5m<sup>3</sup>/min of ventilation by divided duct is needed in model FDTC60VH (In case of connection duct  $\phi$  125 x 5m)

①Duct resistance : Pressure loss by a flexible duct =35Pa (7Pa/m x 5m)

2Blowout unit : Pressure loss by a blowout unit =10Pa

③External static pressure when being 2.5m³/min =17Pa (See upper table.)

 $\Rightarrow$ Correspondence by a booster fan =(1+(2)-(3)=28Pa

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

## (a) Indoor unit

PJG012D021

This manual is for the installation of an indoor unit. For electrical wiring work (Indoor), refer to page 146. For remote control installation, refer to page 168. For wireless kit installation, refer to page 194. For electrical wiring work (Outdoor) and refrigerant pipe work installation for outdoor unit, refer to page 11.

SAFETY PRECAUTIONS • Read the "SAFETY PRECAUTIONS" carefully first of all and then strictly follow it during the installation work in order to protect yourself. The precautionary items mentioned below are distinguished into two levels, <u>AWARNING</u> and <u>ACAUTION</u>. [AWARNING]: Wrong installation would cause serious consequences such as injuries or death. ACAUTION : Wrong installation might cause serious consequences depending on circumstances Both mentions the important items to protect your health and safety so strictly follow them by any means. • The meanings of "Marks" used here are as shown on the right: Never do it under any circumstances. After completing the installation, do commissioning to confirm there are no abnormalities, and explain to the customers about "SAFETY PRECAUTIONS", correct operation method and maintenance method (air filter cleaning, operation method and temperature setting method) with user's manual of this unit. Ask your customers to keep this installation manual together with the user's manual. Also, ask them to hand over the user's manual to the new user when the owner is changed 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. Ø Improper installation may cause explosion, injury, water leakage, electric shock, and fire Check the density refered by the foumula (accordance with IS05149). 0 If the density exceeds the limit density please consult the dealer and installate the ventilation system Ouse the genuine accessories and the specified parts for installation. If parts unspecified by our company are used it could cause water leakage, electric shock, fire, and injury due to overturn of the unit. Ventilate the working area well in case the refrigerant leaks during installation. If the refrigerant contacts the fire, toxic gas is produced. In case of R32, the refrigerant could be ignited because of its flamma Install the unit in a location that can hold heavy weight. 0 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 injurie Be sure to have the electrical wiring work done by qualified electrical installer, and use exclusive circuit. 0 Power source with insufficient capacity and improper work can cause electric shock and fire. Ouse specified wire for electrical wiring, fasten the wiring to the terminal securely, and hold the cable securely in Ø order not to apply unexpected stress on the terminal. as or hold could result in abnormal heat generation or fire. .oose connei Arrange the electrical wires in the control box properly to prevent them from rising. Fit the lid of the services A panel property. Improper fitting may cause abnormal heat and fire. Check for refrigerant gas leakage after installation is completed. 0 If the refrigerant gas leaks into the house and comes in contact with a fan heater, a stove, or an oven, toxic gas is produced ●Use the specified pipe, flare nut, and tools for R32 or R410A. Ø 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. 0 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.  $\bigcirc$ 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. Ð If the compres or is operated when the service valve is open without connecting the pipe, it could cause explosion and injuries due to abnormal high pressure in the system. Stop the compressor before removing the pipe after shutting the service valve on pump down work. If the pipe is removed when the compressor is in operation with the service valve open, air would be mixed in the refrigeration circuit and it could cause explosion and injuries due to abnormal high pressure in the cooling cycle.

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

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

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

If you install the system by yourself, it can cause serious trouble such as water leaks, electric shocks, fire

 $\blacksquare \ensuremath{\mathsf{Do}}$  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.

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•Shut off the power before electrical wiring work.

It could cause electric shock, unit failure and improper running.

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

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

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•	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.	6
•	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 lens.	Ć
•	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.	C
•	Do not install the remote control at the direct sunlight. It could cause breakdown or deformation of the remote control.	(
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	Locations where drainage cannot run off safely.     Los 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 relate 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.	6
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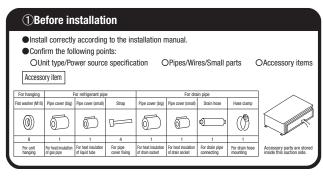
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Adhere to the measurements

below for the length of the suspension bolts.

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



### 2 Selection of installation location for the indoor unit

(1) Select the suitable areas to install the unit under approval of the user.

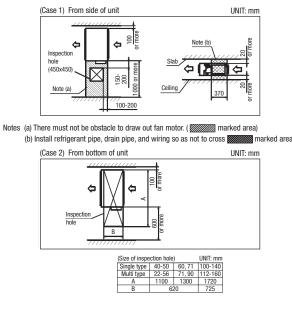
- · Areas where the indoor unit can deliver hot and cold wind sufficiently. Suggest to the user to use
- a circulator if the ceiling height is over 3m to avoid warm air being accumulated on the ceiling. · Areas where there is enough space to install and service.
- · Areas where it can be drained properly. Areas where drain pipe descending slope can be taken.
- · Areas where there is no obstruction of air flow on both air return grille and air supply port.
- · Areas where fire alarm will not be accidentally activated by the air-conditioner.
- · Areas where the supply air does not short-circuit.
- · Areas where it is not influenced by draft air.
- · Areas not exposed to direct sunlight.
- Areas where dew point is lower than around 28°C and relative humidity is lower than 80%. This indoor unit is tested under the condition of JIS (Japan Industrial Standard) high humidity condition and confirmed there is no problem. However, there is some risk of condensation drop if the air-conditioner is operated under the severer condition than mentioned above If there is a possibility to use it under such a condition, attach additional insulation of 10 to 20mm thick for entire surface of indoor unit, refrigeration pipe and drain pipe.
- · Areas where TV and radio 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)

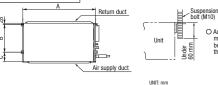
Select either of two cases to keep space for installation and services.



## **③Preparation before installation**

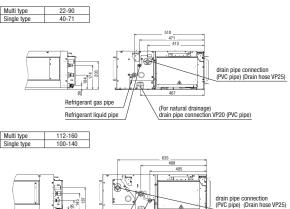
- If suspension bolt becomes longer, do reinforcement of earthquake resistant. OFor grid ceiling
  - When the suspension bolt length is over 500mm, or the gap between the ceiling and roof is over 700mm, apply earthquake resistant brace to the bolt.
  - Oln case the unit is hanged directly from the slab and is installed on the ceiling plane which has enough strength.
- When suspension bolt length is over 1000mm, apply the earthquake resistant brace to the bolt. Prepare four (4) sets of suspension bolt, nut and spring washer (M10) on site.





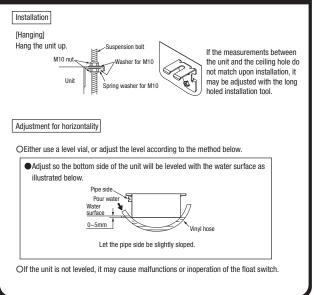
Multi type	22-56	71,90	112-160
Single type	40-50	60, 71	100-140
A	786	986	1404
B	472	472	530
C	135	135	180

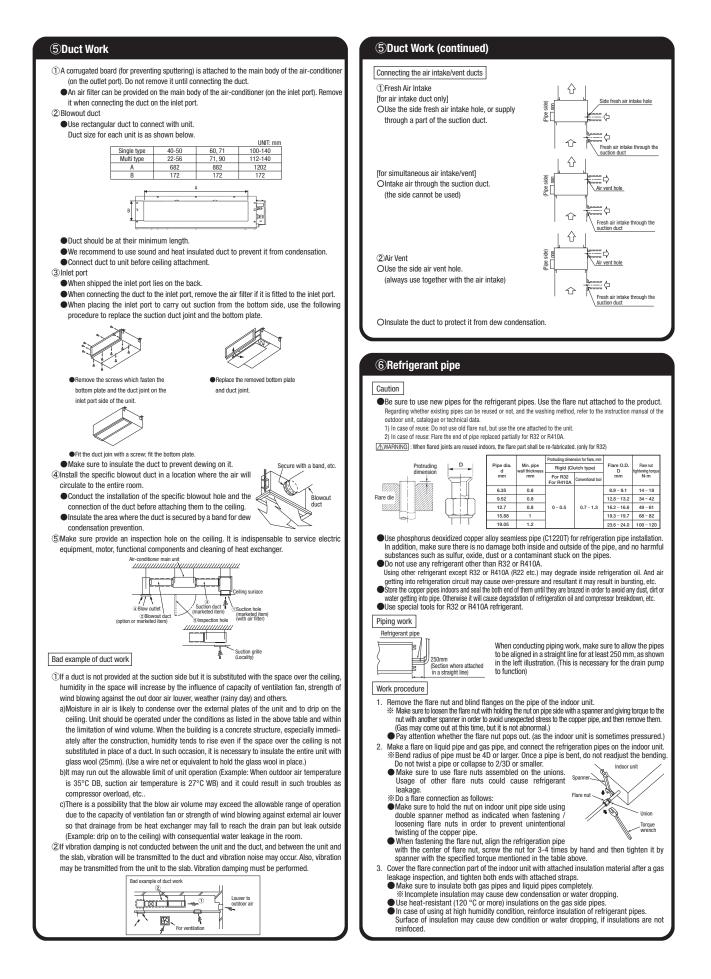






### (4)Installation of indoor unit





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[mm]

Pour water into a convex joint

Connecting port of top drain pipe

Standard hard polyvinyl chloride pipes

Transparent soft tube (Prepare on site)

Insulating materia

P.C. board

0

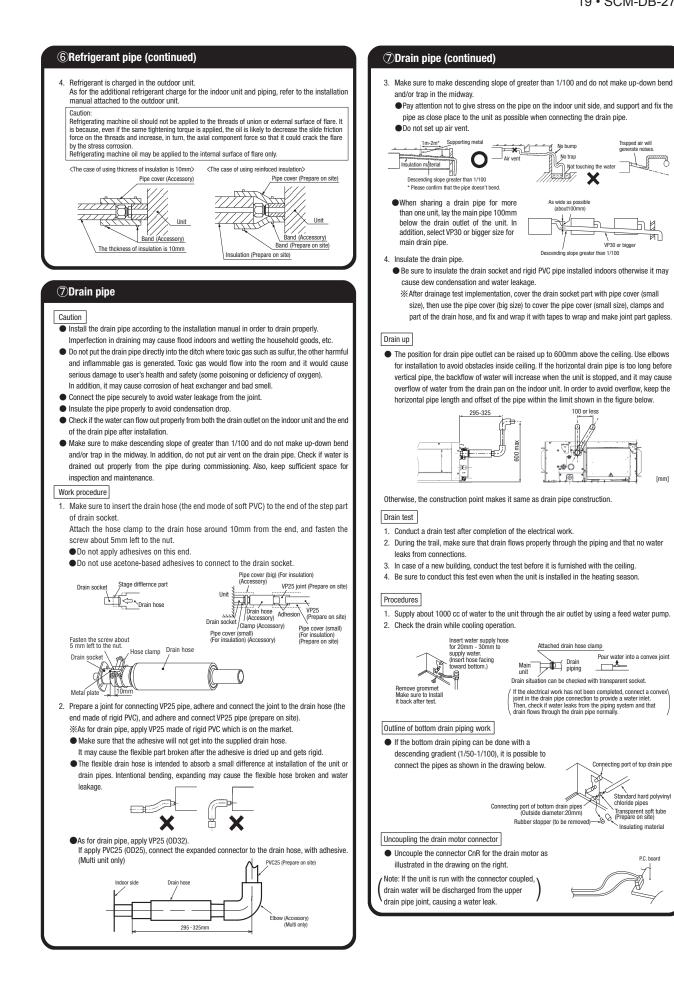
VP30 or hinne

an 1/100

X

100 or less

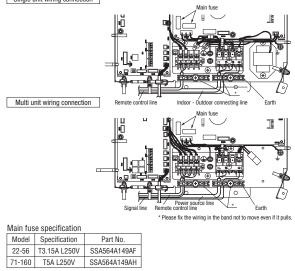
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### **8**Wiring-out position and wiring connection

- 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 earth work.
- For the details of electrical wiring work, see attached instruction manual for electrical wiring work.
- 1. Remove a lid of the control box (2 screws).
- 2. Hold each wiring inside the unit and fasten them to terminal block securely.
- 3. Fix the wiring with clamps.
- 4. Install the removed parts back to original place.

### Single unit wiring connection



### 9 External static pressure setting

You can set External Static Pressure (E.S.P.) by either method of MANUAL SETTING or AUTO-MATIC SETTING by remote control.

Indoor unit will control fan-speed to keep rated air flow volume at each fan speed setting (Lo-Uhi)

1. MANUAL SETTING

You can set required E.S.P. by wired remote control that calculated with the set air flow rate and pressure loss of the duct connected.

Select No.1-10 (10Pa-100Pa) from following table according to calculation result. Refer to technical manual for details of air flow characteristic.

Setting No.	1	2	3	4	5	6	7	8	9	10
External Static Pressure (Pa)	10	20	30	40	50	60	70	80	90	100

When you set No.11-19 by remote control, unit will control fan-speed with setting of No.10 Factory default is at No.5.

• How to set E.S.P by wired remote control

① Push " I marked button(E.S.P button).

② Select indoor unit No. by using 🗢 button.

You can not set E.S.P. by wireless remote control.

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



Caution

Notice

Be sure to set E.S.P. according to actual duct connected. Wrong settings causes excessive air flow volume or water drop blown out.

### 2. AUTOMATIC SETTING

Indoor unit will recognize E.S.P. by itself automatically and select appropriate fan speed No.1-10.

### 9 External static pressure setting (continued)

### How to start automatic setting

- (1), ② Same setting as MANUAL SETTING.
- 3 Select [AUT] by using  $\clubsuit$  button and press  $\bigcirc$  button .
- 0 After setting E.S.P. at "AUT", operate unit in FAN mode with certain fan speed (Lo-Uhi).

Indoor unit fan will run automatically and recognize E.S.P. by itself.

The operation for automatic E.S.P. recognition will last about 6 minutes, and it will be stopped after recognition is completed.

### Caution

- Be sure to execute AUTOMATIC SETTING by remote control AFTER ducting work is completed. When duct specification is changed after AUTOMATIC SETTING, be sure to execute AUTOMATIC SETTING again after power resetting and turning on again.
- · Be sure to execute AUTOMATIC SETTING before trial cooling operation.
- (See ELECTRICAL WIRING WORK INSTRUCTION about trial cooling operation) • Before AUTOMATIC SETTING, be sure to check that return air filter in duct is installed and damper is opened.
- Wrong procedure causes excessive air flow or water drop blown out.

### Notice

- During operation for automatic recognition (the Auto Operation), fan rotates with certain speeds regardless of set fan speed by remote control.
- When duct is set with low static pressure (around 10-50Pa), even if indoor unit operate with higher air flow volume than rated one, but it is not abnormal.
- When you changed operation mode or stop operation with ON/OFF button during Auto Operation, the Auto operation will be canceled.
- In such case, be sure to execute AUTOMATIC SETTING again according to above procedure.

### **(1)** Check list after installation

Check the following items after all installation work completed.

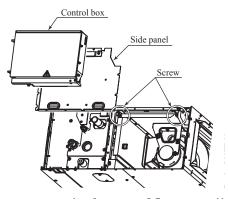
Check if	Expected trouble	Check
The indoor and outdoor units are fixed securely?	Falling, vibration, noise	
Inspection for leakage is done?	Insufficient capacity	
Insulation work is properly done?	Water leakage	
Water is drained properly?	Water leakage	
Power source voltage is same as mentioned in the model name plate?	PCB burnt out, not working at all	
No mis-wiring or mis-connection of piping?	PCB burnt out, not working at all	
Earth wiring is connected properly?	Electric shock	
Cable size comply with specified size?	PCB burnt out, not working at all	
Any obstacle blocks air flow on air inlet and outlet?	Insufficient capacity	
Is setting of E.S.P finished?	Excessive air flow, water drop blow out	

### (b) Replacement procedure of the fan unit

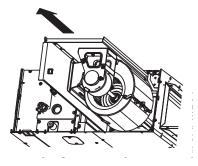
Notes(1) The unit is a heavy item. It must be supported securely and handled with care not to drop when it is necessary to replace. (2) For the maintenance space, refer to page 137.

## Model FDUM50VH

1) Remove the control box and the side panel, and remove the screws marked in the circles (2 places) in the figure.



2) Take out the fan unit in the arrow direction.



## PFA012D636

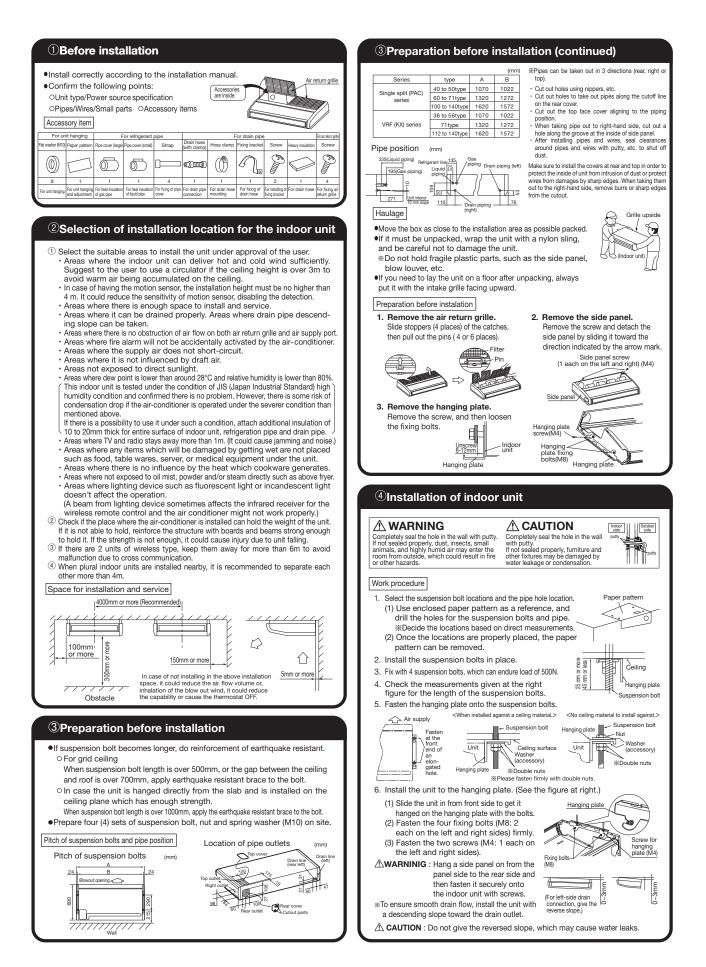
## (5) Ceiling suspended type (FDE)

This manual is for the installation of an indoor unit. For electrical wiring work (Indoor), refer to page 146. For remote control installation, refer to page 168. For wireless kit installation, refer to page 202. For electrical wiring work (Outdoor) and refrigerant pipe work installation for outdoor unit, refer to page 11.

## SAFETY PRECAUTIONS

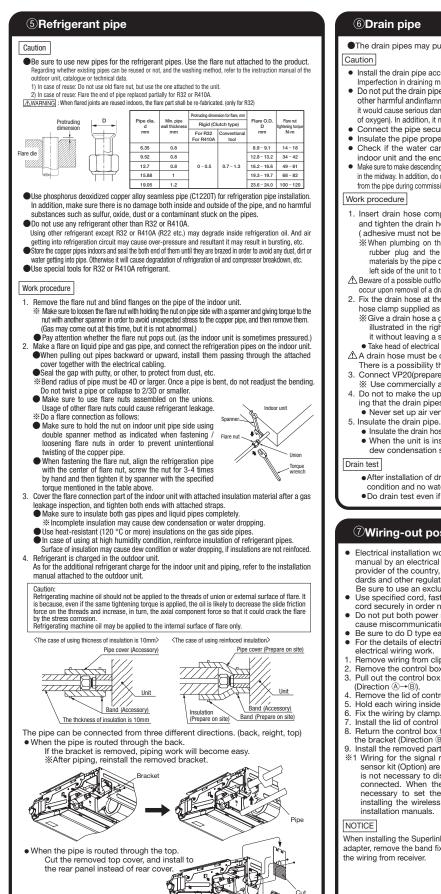
<ul> <li>Read the "SAFETY PRECAUTIONS" carefully first of all and then strictly follow it during the installa in order to protect yourself.</li> </ul>	tion work
<ul> <li>The precautionary items mentioned below are distinguished into two levels, <u>AWARNING</u> and <u>Marking</u></li> </ul>	AUTION .
AWARNING: 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 • The meanings of "Marks" used here are as shown as follows:	means.
<ul> <li>Never do it under any circumstances.</li> <li>Always do it according to the instruction.</li> </ul>	
After completing the installation, do commissioning to confirm there are no abnormalities, and expl	ain 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 over the user's manual to the new user when the owner is changed.	to nand
Installation should be performed by the specialist.	0
If you install the unit by yourself, it may lead to serious trouble such as water leakage, electric shock, fire, and injury due to overturn of the un	it.
Install the system correctly according to these installation manuals.	
Improper installation may cause explosion, injury, water leakage, electric shock, and fire.	
• When installing in small rooms, take prevention measures not to exceed the density limit of refrigerant in the	10
event of leakage, referred by the formula (accordance with ISO5149). If the density of refrigerant exceeds the limit, please consult the dealer and install the ventilation system, otherwise lack of	
oxygen can occur, which can cause serious accidents.	•
Use the genuine accessories and the specified parts for installation.	
If parts unspecified by our company are used it could cause water leakage, electric shock, fire, and injury due to overturn of the u	ıt U
• Ventilate the working area well in case the refrigerant leaks during installation.	-
If the refrigerant contacts the fire, toxic gas is produced.	
In case of R32, the refrigerant could be ignited because of its flammability.	
Install the unit in a location that can hold heavy weight.	0
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.	0
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.	$\bigcirc$
If air is mixed in, the pressure in the cooling cycle will rise abnormally and may cause explosion and injuries.	9
• Be sure to have the electrical wiring work done by qualified electrical installer, and use exclusive circuit.	0
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 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 proper	tv 🔴
Improper fitting may cause abnormal heat and fire.	<sup>ty.</sup> 🖸
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.	0
●Use the specified pipe, flare nut, and tools for R32 or R410A.	
Using existing parts (R22) could cause the unit failure and serious accident due to explosion of the cooling cycle.	Ð
• Tighten the flare nut according to the specified method by with torque wrench.	0
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 occ	II. O
Poisonous gases will flow into the room through drainage pipe and seriously affect the user's health and safety. This can also	$\bigcirc$
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 on to abnormal high pressure in the system.	
<ul> <li>Stop the compressor before removing the pipe after shutting the service valve on pump down work.</li> </ul>	_
If the pipe is removed when the compressor is in operation with the service valve open, air would be mixed in the refrigeration cirr	uit
and it could cause explosion and injuries due to abnormal high pressure in the cooling cycle.	
Only use prescribed option parts. The installation must be carried out by the qualified installer.	0
If you install the system by yourself, it can cause serious trouble such as water leaks, electric shocks, fire.	9
Do not repair by yourself. And consult with the dealer about repair.	$\bigcirc$
Improper repair may cause water leakage, electric shock or fire.	$\mathbf{\nabla}$
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.	Ð
• Do not run the unit when the panel or protection guard are taken off.	~
	$\otimes$
Touching the rotating equipment, hot surface, or high voltage section could cause an injury to be caught in the machine, to get	
	<u> </u>
Touching the rotating equipment, hot surface, or high voltage section could cause an injury to be caught in the machine, to get	

▲ CAUTION		
Perform earth wiring surely. Do not connect the earth wiring to the gas pipe, water pipe, lightning rod and te cause unit failure, electric shock and fire due to a short circuit.	elephone earth wiring. Improper earth could	0
<ul> <li>Earth leakage breaker must be installed.</li> <li>If the earth leakage breaker is not installed, it can cause fire and electric shot</li> </ul>	cks.	0
Use the circuit breaker of correct capacity. Circuit breaker should poles under over current. Using the incorrect one could cause the system failure and fire.		0
Do not use any materials other than a fuse of correct capacity will Connecting the circuit by wire or copper wire could cause unit failure and fire		$\bigcirc$
Do not install the indoor unit near the location where there is pos if the gas leaks and gathers around the unit, it could cause fire.		ŏ
Do not install and use the unit where corrosive gas (such as sulfurous as thinner, petroleum etc.) may be generated or accumulated, or volat it could cause the corrosion of heat exchanger, breakage of plastic parts etc	tile flammable substances are handled.	
<ul> <li>Secure a space for installation, inspection and maintenance spec Insufficient space can result in accident such as personal injury due to falling</li> </ul>		0
Do not use the indoor unit at the place where water splashes suc Indoor unit is not waterproof. It could cause electric shock and fire.	ch as laundry.	$\bigcirc$
Do not use the indoor unit for a special purpose such as food sto instrument, preservation of animals, plants, and a work of art. It could cause the damage of the items.	rage, cooling for precision	$\bigcirc$
Do not install nor use the system near equipments which generate elec Equipments like inverter equipment, private power generator, high-frequency equipment might influence the air-conditioner and cause a malfunction and to influence medical equipments or telecommunication equipments, and obstrut	medical equipment, or telecommunication breakdown. Or the air-conditioner might	$\bigcirc$
Do not install the remote control at the direct sunlight. It could cause breakdown or deformation of the remote control.		$\bigcirc$
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.     Places where the substances which after the air-conditioner are generated     such as sulfide gas, chloride gas, acid, alkali or ammonic atmospheres.     Places exposed to oil mist or steam directly.     On whiches and shines	acts where cosmetics or special sprays are squently used. ghly saited area such as beach. awy snow area aces where the system is affected by noke from a chinney. titude over 1000m	$\odot$
Locations where with radio volume target when the and obtain	ot install the motion sensor at following est. I could cause detection error; incapacity etection, or characteristic degradation. ce where withration is applied to it for a long iod of time. ce where static electricity or electromag- ic wave generates. ce where it is exposed to high temperature humidity for a long period of time. sty place or where the lens face could be led or damaged.	$\bigcirc$
<ul> <li>Do not put any valuables which will break down by getting wet un Condensation could drop when the relative humidity is higher than 80% or drain pipe</li> </ul>		$\overline{\bigcirc}$
<ul> <li>Do not use the base frame for the outdoor unit which is corroded on It could cause the unit falling down and injury.</li> </ul>		ŏ
Pay attention not to damage the drain pan by weld sputter when If sputter entered into the unit during brazing work, it could cause damage (pi To avoid damaging, keep the indoor unit packed or cover the indoor unit.		0
<ul> <li>Install the drain pipe to drain the water surely according to the ir Improper connection of the drain pipe may cause dropping water into room and</li> </ul>		0
<ul> <li>Do not share the drain pipe for indoor unit and GHP (Gas Heat Pu Toxic exhaust gas would flow into room and it might cause serious damage (s user's health and safety.</li> </ul>		$\bigcirc$
Be sure to perform air tightness test by pressurizing with nitrogen gas a lf the density of refrigerant exceeds the limit in the event of refrigerant leakag occur, which can cause serious accidents.		0
<ul> <li>For drain pipe installation, be sure to make descending slope of greater than 1/100, no Check if the drainage is correctly done during commissioning and ensure the</li> </ul>		$\bigcirc$
<ul> <li>Ensure the insulation on the pipes for refrigeration circuit so as r Incomplete insulation could cause condensation and it would wet ceiling, floo</li> </ul>		0
Do not install the outdoor unit where is likely to be a nest for insulate likely and an and a set for insulate sets and small animals could come into the electronic components and cause breakdown and it		$\bigcirc$
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 str. by hand. Use protective gloves in order to avoid injury by the aluminum fin.	raps but the grabbing place, moving the unit	0
Make sure to dispose of the packaging material. Leaving the materials may cause injury as metals like nail and woods are use	ed in the package.	0
• Do not operate the system without the air filter. It may cause the breakdown of the system due to clogging of the heat exchar	nger.	$\bigcirc$
Do not touch any button with wet hands.     It could cause electric shock.		$\bigcirc$
Do not touch the refrigerant piping with bare hands when in open The pipe during operation would become very hot or cold according to the operating of the pipe during operation would become very hot or cold according to the operating operation.		$\bigcirc$
Do not clean up the air-conditioner with water. It could cause electric shock.		Ó
Do not turn off the power source immediately after stopping the operati Be sure to wait for more than 5 minutes. Otherwise it could cause water leak		Ŏ
Do not control the operation with the circuit breaker.  It could cause fire or water leakage. In addition, the fan may start operation u	•	Ŏ.



1

Not to b



#### 6 Drain pipe

The drain pipes may pull out either from back, right or left side.

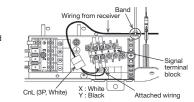
- Install the drain pipe according to the installation manual in order to drain properly. Imperfection in draining may cause flood indoors and wetting the household goods, etc.
- Do not put the drain pipe directly into the ditch where toxic gas such as sulfur, the other harmful andinflammable gas is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

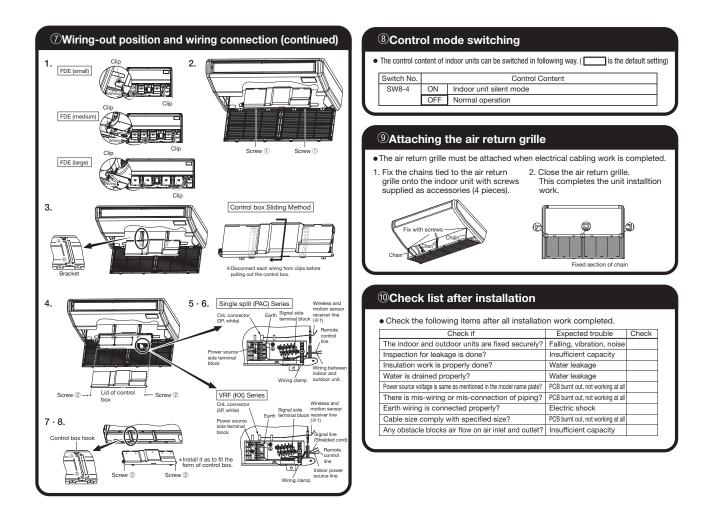
- 1. Insert drain hose completely to the base, and tighten the drain hose clamp securely. (adhesive must not be used.) When plumbing on the left side, move the
- rubber plug and the cylindrical insulating materials by the pipe connecting hole on the left side of the unit to the right side A Beware of a possible outflow of water that may
- occur upon removal of a drain plug. 2. Fix the drain hose at the lowest point with a hose clamp supplied as an accessory.
  - % Give a drain hose a gradient of 10mm as illustrated in the right drawing by laying it without leaving a slack.
- Take head of electrical cables so that they may not run beneath the drain hose. A drain hose must be clamped down with a hose clamp.
- There is a possibility that drain water overflows. Connect VP20(prepare on site) to drain hose. (Adhesive must not be used.) ※ Use commercially available rigid PVC general pipe VP20 for drain pipe.
- Do not to make the up-down bending and trap in the mid-way while assuming that the drain pipes is downhill. (more than 1/100) • Never set up air vent.
- Insulate the drain hose clamp with the heat insulation supplied as accessories. When the unit is installed in a humid place, consider precautions against dew condensation such as heat insulation for the drain pipe.
- After installation of drain pipe, make sure that drain system work in good condition and no water leakage from joint and drain pan.
- Do drain test even if installation of heating season.

#### **Wiring-out position and wiring connection**

- Electrical installation work must be performed according to the installation manual by an electrical installation service provider qualified by a power provider of the country, and be executed according to the technical stan-dards and other regulations applicable to electrical installation in the country. Be sure to use an exclusive circuit.
- Use specified cord, fasten the wiring to the terminal securely, and hold the cord securely in order not to apply unexpected stress on the terminal.
- Do not put both power source line and signal line on the same route. It may cause miscommunication and malfunction. Be sure to do D type earth work.
- For the details of electrical wiring work, see attached instruction manual for electrical wiring work.
- Remove wiring from clips.
- Remove the control box (Screw ①, 2pcs). Pull out the control box by sliding along the groove on the bracket
- (Direction  $(\mathbb{A} \rightarrow \mathbb{B})$ ). Remove the lid of control box (Screw  $(\mathbb{Q})$ , 2pcs)
- Hold each wiring inside the unit and connect to the terminal block surely.
- Fix the wiring by clamp. Install the lid of control box (Screw 2), 2pcs).
- Return the control box to the original place by sliding along the groove on the bracket (Direction  $\mathbb{B} \to \mathbb{A}$ ). Install the removed parts at their original places.
- \*1 Wiring for the signal receiving section of wireless kit (Option) and motion sensor kit (Option) are connected at the time of shipping from the factory. It is not necessary to disconnect these wiring when wired remote control is connected. When the wired/wireless kits are used together, it becomes necessary to set the slaves and remote control. For the methods of installing the wireless kit and the motion sensor kit, refer to the attached installation manuals.

When installing the Superlink adapter, remove the band fixed the wiring from receiver.





### Effective range of cool/hot wind (Reference) FDE series

Model	Effective range
FDE50VH	7.5m

[Conditions] 1. Height of unit: 2.4 - 3.0 (m) above floor level

2. Fan speed : Hi

- 3. Location: Free space without obstacles
- 4. The effective range means the horizontal distance for wind to reach the floor.
- 5. Wind speed at the effective range: 0.5 m/s

PSC012D117

#### (6) Electric wiring work installation

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, <u>AWARNING</u> and <u>ACAUTION</u>.

<u>(WARNING</u>: Wrong installation would cause serious consequences such as injuries or death. <u>(ACAUTION</u>): 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.

#### ^ .....

$\left( \right)$	⚠WARNING	
	Be sure to have the electric wiring work done by qualified electrical installer, and use exclusive circuit. Power source with insufficient capacity and improper work can cause electric shock and fire.	0
	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.	0
	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.	0
	Use the genuine option parts. And installation should be performed by a specialist. If you install the unit by yourself, it could cause water leakage, electric shock and fire.	
	Do not repair by yourself. And consult with the dealer about repair. Improper repair may cause water leakage, electric shock or fire.	$\bigcirc$
	Consult the dealer or a specialist about removal of the air-conditioner. Improper installation may cause water leakage, electric shock or fire.	0
	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.	0
U	Shut off the power before electrical wiring work. It could cause electric shock, unit failure and improper running.	0
$\left( \right)$	<b>≜</b> 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.	0
	Make sure to install earth leakage breaker on power source line. (countermeasure thing to high harmonics.) Absence of breaker could cause electric shock.	0
	• 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.	0
	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.	$\bigcirc$
	Use power source line of correct capacity. Using incorrect capacity one could cause electric leak, abnormal heat generation and fire	0
	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.	$\Diamond$
	• 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.	$\bigcirc$
	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.	$\bigcirc$

#### ontrol mode switching

•	The control content of	indoor uni	ts can be switched in following way. ( is the default setting)
	Switch No.	Contro	I Content
	SW2	Indoor	unit address (0-Fh)
	SW5-1	Maste	/Slave Switching (plural /Slave unit Setting)
	SW5-2		, on the official state and obtaining)
	SW6-1~4	Model	capacity setting
	SW7 — 1	ON	Operation check, Drain motor test run
	3007-1	0FF	Normal operation

#### ①Electrical wiring connection Electrical wiring work must be performed by an electlician an qualified by a local power provider. These wiring specifications are determined on the assumption that the following instructions are observed: Instructions are observed: () Do not use cards other than cooper ones. Do not use any source 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 nubber sheathed cord (code designation 60245 IEC 53); - flat twn tinsel cord (code designation 60227 IEC 41); - ordinary optiving (chorde sheathed cord (code designation 60227 IEC 53); (2) Connect the power source to the outdoor unit. 3) Pre yetra attentions os as not to contuse signal line and power source line connection, because an error in their connection can be burn all the boards at once. I Connect for unit of the sheat of the context of the source line connection, because an error in their connection can be burn all the boards at once. buin all the bards at once. Connect ground wires before connecting wires between the indoor and outdoor units and between indoor units. The ground wires need to be longer than the wires between the indoor and outdoor units, and protected from undue stress. Do not turn on the power source before completing the work. Reund crimp terminat The ground wires must be connected by the Class D grounding connection. Use the round crimp terminals for connections to the terminal block. Use dedicated branch circuits, avoiding combination with other devices. Otherwise, it could trip the power source breaker, resulting in secondary accidents. Install the overcurrent and earth leakage breakers (sensitivity current: 30 mA) specified to respective models. Do not connect indoor and outdoor signal cables to extension cables on the way. If the joint is wetted with intruding water, it could cause a ground insulation failure or poor connection, resulting in communication errors. (If it is inevitable to connect cables on the way, make sure to prevent the water intrusion completely.) When running wires (wires for power source, remote controller, connecting between indoor and outdoor units, or other) behind the ceiling, protect them using copper or other pipes and outdoor units, or other, before the control of the provided and the control of the provided and prover source cables are connected to instakently, it could burn down all PCBs. It is up to 3.5 mm<sup>2</sup> or larger, provide a dedicated pull box for branching connection to indoor units. If signal and power source cables are connected mistakently, it could burn down all PCBs. D Even if the power source of 220/240/380/415 V is connected mistakently to A-B signal cable, it is protected at initial occasion only. We find the remote control fails to detect the unit No. (address) at 15 minutes after turning the power on, check and repair all signal cables for misconnection. (2) If the Ferflue control rates to better the winner to generate the ferflue context of the c control and power source cables. In no event connect the power source of 220/240/380/415 V to the remote control terminal block. It could cause failures. Oconections of wiring between units, ground wire and remote control cable When connecting wires between units, ground wire or remote control wire, comect them according to the number of terminals on the power source terminal block or signal terminal block in the control bloc. Consect the ground wire to the ground terminal on the power source terminal block or signal terminal block in the control box. Connect the ground wire to the ground terminal on the power source terminal block. (2) Make sure to install an earth leakage breaker for the power source. Select a breaker for inverter circuit. (3) When the earth leakage breaker is exclusive for the earth leakage protection, it is necessary to connect also an isolating switch (Switch + Class 6 fuse) or wiring circuit breaker in series to the earth leakage breaker. (4) Install the loading switch close to the unit. (5) Install the loading switch close to the unit. (5) Connect wires securing by tightening screws firmly. Confirm also no connector or wire (from terminal) to in concentration in the control how. terminal) is disconnected in the control box. When installing an auxiliary electric heater, consult the electric heater manual or technical data. Cable connection for single unit installation ①As for connecting method of power source, select from following connecting patterns. In principle, do not directly connect power souce line to inside unit. \*\* As for exceptional connecting method of power source, discuss with the power provider of the country with referring to technical documents, and follow its instruction. (2)For cable size and circuit breaker selection, refer to the outdoor unit installation manual. Power source Single-phase model Three-phase model Doner source Uoner source 1230 oor-Outdoor Connecting line Remote control line Remote control line Cable connection for a V multi configuration installation () Connect the same pairs number of terminal block "(1), (2), and (3)" and "(X) and ( $\overline{Y}$ " between 200 the same address setting of all inside units belong to same refrigerant system by rotary (2) Do the same address setting or an inside units belong to same reingerant system by rotary switch SW2 on indoor unit's PCB (Printed circuit board). (3) Set slave indoor unit as "slave 1" through "slave 3" by address switch SW5-1, 5-2 on PCB. (4) When the <u>AIR CON NO.</u> button on the remote control unit is pressed after turning on the power, an indoor unit's address number will be displayed. Do not fail to confirm that the connected indoor unit's address number will be displayed. Do not fail to confirm that the connected indoor unit's address number will be displayed. Do not fail to confirm that the connected indoor unit's address number will be displayed. Do not fail to confirm that the connected indoor unit's address number will be displayed. Do not fail to confirm that the connected indoor unit's address number will be displayed. Do not fail to confirm that the connected indoor unit's address number will be displayed. Do not fail to confirm that the connected indoor unit's address number will be displayed. Do not fail to confirm that the connected indoor unit's address number will be displayed. Do not fail to confirm that the connected indoor unit's address number will be displayed. Do not fail to confirm that the connected indoor unit's address number will be displayed. Do not fail to confirm that the connected indoor unit's address number will be displayed. Do not fail to confirm that the connected indoor unit's address number will be displayed. Do not fail to confirm that the connected indoor unit's address number will be displayed. Do not fail to confirm that the connected indoor unit's address number will be displayed. Do not fail to confirm that the connected indoor unit's address number will be displayed. Do not fail to confirm that the connected indoor unit's address number will be displayed. Do not fail to confirm that the connected indoor unit's address number will be displayed. unit's numbers are displayed on the remote control unit by pressing the $|\mathbf{A}|$ or $|\mathbf{\nabla}|$ button. Power source Method of setting Master/Slave of indoor unit Earth leakage breaker (Factory setting: "Master") ΓT Indoor Unit Master Slave 1 Slave 2 Slave 3 Circuit breaker SW5-1 0FF 0FF Earth ON ON PCB SW SW5-2 ON OFF ON 0FF Outdoor Unit Twin type Triple type Double twin type 1230

Indoor Unit Slave 2

XY

1230

1-1

Indoor Unit Slave 3

XY

Earth

1230

Indoor Unit Master

Remote control

1230

Indoor Unit Slave 1

Remote control line (no pola rity)

Remote control, wiring and functions		3) Operation and c	onfirmation from remote contro	
Do not install it on the following places	No.	Item	Operation from the eco touch remote	
①Places exposed to direct sunlight			control (RC-EX series)	control ( RC-E series)
②Places near heat devices	1	Check the number of units connected	$ [Menu] \Rightarrow [Service setting] \Rightarrow \\ [Service & Maintenance] \Rightarrow $	<ol> <li>Press the AIR CON NO button to dis the IU address.</li> </ol>
③High humidity places		in the multi remote	$[Service a sword] \Rightarrow [IU address]$	(2) Press the  or  button and chec
(4)Hot surface or cold surface enough to generate condensation		control system.		addresses of connected indoor unit by one.
(5)Places exposed to oil mist or steam directly.		0	[14] -> [0]	
© riaces exposed to on mist of steam directly. ©Uneven surface	2	Check if each unit is connected properly	$[Menu] \Rightarrow [Service setting] \Rightarrow \\[Service & Maintenance] \Rightarrow$	1 Press the AIR CON NO button to dis the IU address.
O ollevell suitace		in the remote	[Service password] ⇒ [IU address] ⇒ [Check run mode]	2 Press the  or  button and select
		control system.	[IO address] -> [Grieck run mode]	<ul> <li>of IU addresses.</li> <li>③ Press the </li> <li>④ (MODE) button. The</li> </ul>
				starts to blow air.
and the first and a side of a second s	3	Setting main/sub remote controls	$\begin{array}{c} [Menu] \Rightarrow [Service setting] \Rightarrow \\ [R/C function settings] \Rightarrow \end{array}$	Set SW1 to "Sub" for the sub remote o unit.
stallation and wiring of remote control		Terriole controis	[Service password] ⇒	unit.
			[Main/Sub of R/C]	
Install remote control referring to the attached installation manual.	4	Checking operation data	$[Menu] \Rightarrow [Service setting] \Rightarrow \\[Service & Maintenance] \Rightarrow$	Press the CHECK button. $\Rightarrow$ "OPER DATA is displayed. $\Rightarrow$ Press the $\bigcirc$ (SET) b
Wiring of remote control should use 0.3mm <sup>2</sup> ×2 core wires or cables.			[Service password] ⇒	$\Rightarrow$ "DATA LOADING" is displayed. $\Rightarrow$ Selec
The insulation thickness is 1mm or more. (on-site configuration)			[Operation data]	of addresses for connected indoor unit by pressing the $\blacktriangle$ or $\bigtriangledown$ button. $\Rightarrow$ Pr
Maximum prolongation of remote control wiring is 600 m.				the $\bigcirc$ (SET) button. $\Rightarrow$ "DATALOADING" displayed. $\Rightarrow$ Select data by pressing
If the prolongation is over 100m, change to the size below.				or ▼ button.
But, wiring in the remote control case should be under 0.5mm <sup>2</sup> . Change the wire size	5	Checking inspection	[Menu] ⇒ [Service settino] ⇒	Press the [CHECK] button, $\Rightarrow$ "OPEN DATA
outside of the case according to wire connecting. Waterproof treatment is necessary at the	ľ	display	[Service & Maintenance] ⇒	displayed. $\Rightarrow$ Press the $\bigtriangledown$ button.
wire connecting section. Be careful about contact failure.			[Service password] ⇒ [Error display]	$\Rightarrow$ "EFFOR DATA $\blacktriangle$ " is displayed. $\Rightarrow$ Pre the $\bigcirc$ (SET) button. $\Rightarrow$ "DATA LOADING"
100 - 200m				displayed. $\Rightarrow$ Data is displayed.
Under 300m 0.75mm <sup>2</sup> × 2 cores	6	Cooling test run	$[Menu] \Rightarrow [Service setting] \Rightarrow$	① Start the system by pressing the
Under 400m 1.25mm <sup>2</sup> × 2 cores		from remote control	[Installation settings] ⇒ [Service password] ⇒ [Test run] ⇒	OON/OFF button.
Under 600m $2.0$ mm <sup>2</sup> × 2 cores		oona oo	[Cooling test run] ⇒ [Start]	button.
Avoid using multi-core cables to prevent malfunction.				③ Press the TEST button for 3 second longer. The screen display will swit
Keep remote control line away from earth (frame or any metal of building).				"IN TEST RUN ▼". ④ Pressing the
Vake sure to connect remote control line to the remote control and terminal block of indoor				"& TEST RUN ▼" is displayed, starts
unit. (No polarity)				cooling test run. The screen display switch to "\$ TEST RUN".
	7	Trial operation of	[Menu] ⇒ [Service setting] ⇒	
		drain pump from	[Installation settings] ⇒	Start the system by pressing the     OON/OFF button. The display will of
		remote control	[Service password] ⇒ [Test run] ⇒ [Drain pump test run] ⇒ [Run]	<ul> <li>to "* TEST RUN ▼".</li> <li>② Press the ▼ button once to display</li> </ul>
ontrol plural indoor units by a single remote control			Levan barnh roor rani -> [uani	"DRAIN FLMP ≑".
ontroi piùrai muoor unito by a single remote control				③ Pressing the on (SET) button start drain pump operation. The display
				show "& I TO STOP".
A remote control can control plural indoor units (Up to 16).	Tł	ne menu configuration	n may vary depending on models of t	the remote control. If the model of your
In above setting, all plural indoor units will operate under same mode and temperature setting.	( re	mote control is differ	ent, refer to the installation manual a	ittached to the remote control.
Connect all indoor units with 2 core remote control line.	LLE	mote control is differ	ent, refer to the installation manual a	ttached to the remote control.
Connect all indoor units with 2 core remote control line. Set unique remote control communication address from "0" to "F" to each inside unit by the	Ге	mote control is differ	ent, refer to the installation manual a	attached to the remote control.
· · · · · ·	Ге	mote control is differ	ent, refer to the installation manual a IT connector of indoor printe	attached to the remote control.
Connect all indoor units with 2 core remote control line. Set unique remote control communication address from "0" to "F" to each inside unit by the	Ге	mote control is differ	ent, refer to the installation manual a	d circuit board
Connect all indoor units with 2 core remote control line.           Set unique remote control communication address from "0" to "F" to each inside unit by the rotary switch SW2 on the indoor unit's PCB.           Indoor Unit (1)         Indoor Unit (2)	Ге	Image: Control is differ         Image: Co	IT connector of indoor printee	d circuit board
DConnect all indoor units with 2 core remote control line.         USet unique remote control communication address from "0" to "F" to each inside unit by the rotary switch SW2 on the indoor unit's PCB.         Indoor Unit (1)       Indoor Unit (2)         Address *0"       Address *1"	Ге	Function of CN Indoor PCB     +12     1     1     2     2	IT connector of indoor printer	d circuit board 0.75mm <sup>2</sup> × 0.2 m (http://white
Connect all indoor units with 2 core remote control line. Set unique remote control communication address from "0" to "F" to each inside unit by the rotary switch SW2 on the indoor unit's PCB. Indoor Unit (1) Indoor Unit (2) Indoor Unit (16)	Ге	P Function of CN Index PCB +12 CNT	IT connector of indoor printer	d circuit board 0.75mm <sup>2</sup> × 0.2 m <sub>Buft</sub> -connecting contactor (Poplication range: 0.75-1.25 (Replication range: 0.75-1.25
Connect all indoor units with 2 core remote control line.         Set unique remote control communication address from "0" to "F" to each inside unit by the rotary switch SW2 on the indoor unit's PCB.         Indoor Unit (1)       Indoor Unit (2)         Address "0"       Address "T"	Ге	Function of CN     Indoor PCB     +12     1     1     2     2     1     3     3	IT connector of indoor printe Note (1) 0.3 mm <sup>2</sup> × 2 m Red Red Red (10.3 mm <sup>2</sup> × 2 m Red (10.0 mm <sup>2</sup> × 2 m) Red (10.0 m) Red (1	d circuit board           0.75mm² × 0.2 m (Poplicate range: 0.75 - 1.25 m (Poplicate range: 0.75 - 1.25 m (Poplicate range: 0.75 - 1.25 m) (Poplicate range: 0.75 m) (Poplicate
Connect all indoor units with 2 core remote control line.         Set unique remote control communication address from "0" to "F" to each inside unit by the rotary switch SW2 on the indoor unit's PCB.         Indoor Unit (1)       Indoor Unit (2)         Address "0"       Address "T"	Ге		IT connector of indoor printer	0.75mm² × 0.2 m Wale         0.75mm² × 0.2 m Uropicable range: 0.75 - 1.25 (Common           0.15mm² × 0.2 m Wale         0.00000000000000000000000000000000000
Connect all indoor units with 2 core remote control line. Set unique remote control communication address from "0" to "F" to each inside unit by the rotary switch SW2 on the indoor unit's PCB.	Ге	Index PCB         1         1         1         1         1         2         3	IT connector of indoor printer Note (1) 0.3 mm <sup>2</sup> x 2 m Rec (1) 0.3 mm <sup>2</sup> x 2 m Rec (04-0F7/monitor kit Black Velow Blue Brown Crange Xas	0.75mm² × 0.2 m Bult-connecting contactor           0.75mn² × 0.2 m Bult-connecting contactor
Connect all indoor units with 2 core remote control line. Set unique remote control communication address from "0" to "F" to each inside unit by the rotary switch SW2 on the indoor unit's PCB.	Ге	Index PCB           +12         1           (Blue/GP)         3           (Blue/GP)         4           5         6           0         1	IT connector of indoor printer	d circuit board 0.75mm² + 0.2 m But-connecting contactor (Poplicator may contactor (Poplicator (Poplicator may contactor (Poplicator (Popl
Connect all indoor units with 2 core remote control line. Set unique remote control communication address from "0" to "F" to each inside unit by the rotary switch SW2 on the indoor unit's PCB.	Ге	Punction of CN     Indoor PCB     +12     (Blue/GP)	IT connector of indoor printe Note (1) 0.3 mm <sup>2</sup> × 2 m Red Rende Dit-OFF/monitor kit, Black, Velow Crange Note (1) 0.3 mm <sup>2</sup> × 2 m Red Rende Dit-OFF/monitor kit, Red Rende Dit-OFF/mo	d circuit board 0.75mm <sup>2</sup> × 0.2 m But-connecting contactor (Peppleader maps 0.75 - 1.25 f White Common Common 102 Valew Common Common 103 Black Common Common 103 Black Common Common 104 Black Common 104 Black Common Common 104 Black Common Common 104 Black Common Common 104 Black Common Common 104 Black Com
Connect all indoor units with 2 core remote control line. Set unique remote control communication address from "0" to "F" to each inside unit by the rotary switch SW2 on the indoor unit's PCB.		Index PCB           +12         1           CNT         (Blue/6P)           (Blue/2P)         2           CNT         2           (Blue/2P)         2           Note (1) To be no longer th	IT connector of indoor printe Note (1) 0.3 mm <sup>2</sup> × 2 m Remote 004-0FF/monitor kit Bitack B	tttached to the remote control.
Connect all indoor units with 2 core remote control line. Set unique remote control communication address from "0" to "F" to each inside unit by the rotary switch SW2 on the indoor unit's PCB.		Index PCB         1         1         1         2         2         1         1         2         2         1         1         2         2         1         1         2         2         1         1         2         2         1         1         2         2         3         3         3         3         4         4         5         6         7         1         2         2         1         1         0         1         2         2         2         1         1         1         1         2         2         2         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1 <th1< th=""> <th1< th=""> <th1< t<="" td=""><td>IT connector of indoor printer Note (1) 0.3 mm<sup>2</sup> × 2 m. Red Rende ON-OFF/monitor kit Black Velow Valow Note (1) 0.3 mm<sup>2</sup> × 2 m. Red (1) 0.3 mm<sup>2</sup> × 2 m. Note (1) 0.3 mm<sup>2</sup> ×</td><td>tittached to the remote control.</td></th1<></th1<></th1<>	IT connector of indoor printer Note (1) 0.3 mm <sup>2</sup> × 2 m. Red Rende ON-OFF/monitor kit Black Velow Valow Note (1) 0.3 mm <sup>2</sup> × 2 m. Red (1) 0.3 mm <sup>2</sup> × 2 m. Note (1) 0.3 mm <sup>2</sup> ×	tittached to the remote control.
Connect all indoor units with 2 core remote control line. Set unique remote control communication address from "0" to "F" to each inside unit by the rotary switch SW2 on the indoor unit's PCB. Indoor Unit (1) Address "0" Address "0" Remote control line (no polarity) Remote control line (no polarity)		Indeor PCB           +12         1         1         2         2           CNT (Blue/GP)         3         3         3         3         3         4         4         5         6         7 <td>IT connector of indoor printer Note (1) 0.3 mm<sup>2</sup> × 2 m Red Rende Oli-OFF/monitor kit. Black Velow Crange Note (1) 0.3 mm<sup>2</sup> × 2 m Red Chi-OFF/monitor kit. Black Velow Crange Xas Note (1) 0.3 mm<sup>2</sup> × 2 m (Re) Note (1) 0.3 mm<sup>2</sup> × 2 m (Re)</td> <td>tittached to the remote control.</td>	IT connector of indoor printer Note (1) 0.3 mm <sup>2</sup> × 2 m Red Rende Oli-OFF/monitor kit. Black Velow Crange Note (1) 0.3 mm <sup>2</sup> × 2 m Red Chi-OFF/monitor kit. Black Velow Crange Xas Note (1) 0.3 mm <sup>2</sup> × 2 m (Re) Note (1) 0.3 mm <sup>2</sup> × 2 m (Re)	tittached to the remote control.
Connect all indoor units with 2 core remote control line. Set unique remote control communication address from "0" to "F" to each inside unit by the rotary switch SW2 on the indoor unit's PCB. Indoor Unit (1) Address "0" Address "0" Remote control line (no polarity) Remote control line (no polarity) Iaster/ slave setting when more than one remote control unit are used		Index PCB           +12         1           CNT         3           (Blue/SP)         4           (Blue/2P)         2           Note (1) To be no longer th         1           NAT-4 are DC 12 V 1         2           VAR is a DC 12 V 2         2	IT connector of indoor printe Note (1) 0.3 mm <sup>2</sup> × 2 m Red (1) 0.3 mm <sup>2</sup> × 2 m (300) Red (1) 0.3 mm <sup>2</sup> × 2 m (300) (3	tittached to the remote control.
connect all indoor units with 2 core remote control line.         Set unique remote control communication address from "0" to "F" to each inside unit by the otary switch SW2 on the indoor unit's PCB.         indoor Unit (1)       indoor Unit (2)         Address "0"       Address "1"         Address "0"       Address "1"         Address "0"       Address "1"         Remote control       Indoor Unit (16)         Remote control       Remote control line (no polarity)         Remote control       Remote control line (no polarity)         Address of two remote control units can be connected to one indoor unit (or one group of		Indeor PCB           +12         1         1         2         2           CNT (Blue/GP)         3         3         3         3         3         4         4         5         6         7 <td>IT connector of indoor printe Note (1) 0.3 mm<sup>2</sup> × 2 m. Read Re</td> <td>tittached to the remote control.</td>	IT connector of indoor printe Note (1) 0.3 mm <sup>2</sup> × 2 m. Read Re	tittached to the remote control.
connect all indoor units with 2 core remote control line.         iet unique remote control communication address from "0" to "F" to each inside unit by the otary switch SW2 on the indoor unit's PCB.         indoor Unit (1)       indoor Unit (2)         indoor Unit (1)       indoor Unit (16)         indoor Unit (1)       indoor Unit (16)         indoor Unit (10)       indoor Unit (16)         indoor Unit (10)       indoor unit (10)         indoor Unit (10)		Index PCB           +12         1         1         2         2           CNT (Blue/6P)         3         3         3           0         F12         1         1         2         2           0         T         3         3         3         3         3         3         3         3         3         3         4         4         5         6         6         6         6         6         6         6         6         6         6         6         6         6         1         2         2         1         1         1         2         2         1         1         2         2         1         1         2         2         1         1         2         2         1         1         1         2         2         1 <td>IT connector of indoor printer Note (1) 0.3 mm<sup>2</sup> × 2 m Red Rende Oth-OFF/monitor kit Black Velow Note (1) 0.3 mm<sup>2</sup> × 2 m Red (1) 0.3 mm<sup>2</sup> × 2 m (1) 0.3 mm<sup>2</sup> × 2 m (2) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td> <td>tittached to the remote control.</td>	IT connector of indoor printer Note (1) 0.3 mm <sup>2</sup> × 2 m Red Rende Oth-OFF/monitor kit Black Velow Note (1) 0.3 mm <sup>2</sup> × 2 m Red (1) 0.3 mm <sup>2</sup> × 2 m (1) 0.3 mm <sup>2</sup> × 2 m (2) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	tittached to the remote control.
onnect all indoor units with 2 core remote control line. et unique remote control communication address from "0" to "F" to each inside unit by the stary switch SW2 on the indoor unit's PCB. Indoor Unit (1) Address "0" Address "0" Indoor Unit (16) Address "F" () Remote control line (no polarity) Remote control line (no polarity) Remote control units can be connected to one indoor unit (or one group of or units.) air-conditioner operation follows the last operation of the remote control regardless of the		Punction of CN     Indoor PCB     +12     CNT     (Blue/GP)     (Blue/GP)     (Blue/2P)     (Blue/2P)     (Blue/2P)     (Blue/2P)     (Ntra 2 1 1     (Blue/2P)     (Blue/2P)     (Ntra 4 are DC 12 V, 2     Maker and model     Connector : Molex     Terminal : Molex     CnTA connector is     and model	IT connector of indoor printer Note (1) 0.3 mm <sup>2</sup> × 2 m Record Web OFF/monitor kit. Pathon Web (1) 0.3 mm <sup>2</sup> × 2 m Record Web OFF/monitor kit. Pathon Web (1) 0.3 mm <sup>2</sup> × 2 m Note (1) 0.3 mm <sup>2</sup> × 2 m Xa6 Note (1) 0.3 mm <sup>2</sup> × 2 m (Xa8) Note (1) 0.3 mm <sup>2</sup> × 2 m (Xa8) Note (1) 0.3 mm <sup>2</sup> × 2 m (Xa8) Drauge Note (1) 0.3 mm <sup>2</sup> × 2 m (Xa8) Note (1) 0.3 mm <sup>2</sup> × 2 m (Xa8) Drauge (Xa8) (X	tittached to the remote control.
onnect all indoor units with 2 core remote control line.         et unique remote control communication address from "0" to "F" to each inside unit by the stary switch SW2 on the indoor unit's PCB.         Indoor Unit (1)       Indoor Unit (2)         Address "0"       Indoor Unit (16)         Address "0"       Indoor Unit (17)         Remote control       Inemote control line (no polarity)         Remote control       Remote control units can be connected to one indoor unit (or one group of or units.)         air-conditioner operation follows the last operation of the remote control regardless of the ter/slave setting of it.		Mote control is differ Punction of CK Indoor PCB +12 CNT (Blue/GP) Note (1) To be nonger th CNT-4 are DC 12 V 1 XR1-4 are DC 12 V 2 Maker and model Connector : Molex 0 CnTA connector is and model Connector : J.S.T. I	IT connector of indoor printer Note (1) 0.3 mm <sup>2</sup> × 2 m Red Rende Oli-OFF/monitor kit Black Velow Velow Note (1) 0.3 mm <sup>2</sup> × 2 m Red Velow Note (1) 0.3 mm <sup>2</sup> × 2 m Note (1) 0.3 mm <sup>2</sup> × 2 m N	tittached to the remote control.
onnect all indoor units with 2 core remote control line.         et unique remote control communication address from "0" to "F" to each inside unit by the stary switch SW2 on the indoor unit's PCB.         indoor Unit (1)       indoor Unit (2)         Address "1"       Address "1"         Address "1"       indoor Unit (16)         Address "1"       Address "1"         Remote control       Remote control line (no polarity)         Remote control       Remote control units can be connected to one indoor unit (or one group of or units.)         air-conditioner operation follows the last operation of the remote control regardless of the ter/slave setting of it.         eptable combination is "two (2) wired remote controls", "one (1) wired remote control		Punction of CN     Indoor PCB     +12     1     1     1     2     2     CNT     (Blue/GP)     (Blue/2P)     Note (1) To be no tonger th     (NTA-4 are DC 122 V)     (XRs is a DC 12 V, 2     Maker and model     Connector : J.S.T. f     Terminal : J.S.T. f	IT connector of indoor printe Note (1) 0.3 mm <sup>2</sup> × 2 m Rec Rec Rec Rec Rec Rec Rec Rec Rec Rec	d circuit board         0.75mm² × 0.2 m But-connecting contactor         Verpleaker manse. 0.75 - 1.25 m         Verpleaker mass. 0.2 m But-connecting contactor         But-connecting contactor         Output 1         But-connecting contactor         Output 2         Get       Verlow         Output 2         But-connecting contactor         Output 2         But-connecting contactor         Output 3         But-connecting contactor         Output 4         But-connecting contactor         Output 4         But-connecting contactor         Output 4         But-connecting contactor         Output 4         But-connecting contactor         But-connecting contactor <td< td=""></td<>
onnect all indoor units with 2 core remote control line.         et unique remote control communication address from "0" to "F" to each inside unit by the stary switch SW2 on the indoor unit's PCB.         Indoor Unit (1)       Indoor Unit (2)         Address "0"       Address "1"         Address "0"       Address "1"         Indoor Unit (10)       Indoor Unit (2)         Address "1"       Address "1"         Address "1"       Address "1" <tr< td=""><td></td><td>Index PCB           +12         1           CNT         2           (Blue/GP)         3           (Blue/GP)         4           (Blue/GP)         4           (Blue/GP)         4           (Blue/CP)         4           (Blue/CP)         4           (Blue/CP)         4           (Blue/CP)         4           (Blue/CP)         4           (Blue/CP)         4           (Slue/CP)         5           (Slue/CP)         4           (Slue/CP)         5           (Slue/CP)         5           (Slue/CP)         5           (Slue/CP)         5     &lt;</td><td>IT connector of indoor printer Note (1) 0.3 mm<sup>2</sup> × 2 m Red Rende Oli-OFF/monitor kit Black Velow Velow Note (1) 0.3 mm<sup>2</sup> × 2 m Red Velow Note (1) 0.3 mm<sup>2</sup> × 2 m Note (1) 0.3 mm<sup>2</sup> × 2 m N</td><td>d circuit board         0.75mm² × 0.2 m But-connecting contactor         Verpleaker manse. 0.75 - 1.25 m         Verpleaker mass. 0.2 m But-connecting contactor         But-connecting contactor         Output 1         But-connecting contactor         Output 2         Get       Verlow         Output 2         But-connecting contactor         Output 2         But-connecting contactor         Output 3         But-connecting contactor         Output 4         But-connecting contactor         Output 4         But-connecting contactor         Output 4         But-connecting contactor         Output 4         But-connecting contactor         <td< td=""></td<></td></tr<>		Index PCB           +12         1           CNT         2           (Blue/GP)         3           (Blue/GP)         4           (Blue/GP)         4           (Blue/GP)         4           (Blue/CP)         4           (Blue/CP)         4           (Blue/CP)         4           (Blue/CP)         4           (Blue/CP)         4           (Blue/CP)         4           (Slue/CP)         5           (Slue/CP)         4           (Slue/CP)         5           (Slue/CP)         5           (Slue/CP)         5           (Slue/CP)         5     <	IT connector of indoor printer Note (1) 0.3 mm <sup>2</sup> × 2 m Red Rende Oli-OFF/monitor kit Black Velow Velow Note (1) 0.3 mm <sup>2</sup> × 2 m Red Velow Note (1) 0.3 mm <sup>2</sup> × 2 m Note (1) 0.3 mm <sup>2</sup> × 2 m N	d circuit board         0.75mm² × 0.2 m But-connecting contactor         Verpleaker manse. 0.75 - 1.25 m         Verpleaker mass. 0.2 m But-connecting contactor         But-connecting contactor         Output 1         But-connecting contactor         Output 2         Get       Verlow         Output 2         But-connecting contactor         Output 2         But-connecting contactor         Output 3         But-connecting contactor         Output 4         But-connecting contactor         Output 4         But-connecting contactor         Output 4         But-connecting contactor         Output 4         But-connecting contactor         But-connecting contactor <td< td=""></td<>
onnect all indoor units with 2 core remote control line.         et unique remote control communication address from "0" to "F" to each inside unit by the stary switch SW2 on the indoor unit's PCB.         Indoor Unit (1)       Indoor Unit (2)         Address "0"       Address "1"         Address "1"       Address "1"         Bemote control line (no polarity)       Address "1"         astimum of two remote control units can be connected to one indoor unit (or one group of or units.)       air-conditioner operation follows the last operation of the remote control regardless of the ter/slave setting of it.         ptable combination is "two (2) wired remote controls", "one (1) wired remote control one (1) wiredess kit" or "two (2) wireless kits".         one to "Master" and the other to "Slave".		Index PCB           +12         1           CNT         2           (Blue/GP)         3           (Blue/GP)         4           (Blue/GP)         4           (Blue/GP)         4           (Blue/CP)         4           (Blue/CP)         4           (Blue/CP)         4           (Blue/CP)         4           (Blue/CP)         4           (Blue/CP)         4           (Slue/CP)         5           (Slue/CP)         4           (Slue/CP)         5           (Slue/CP)         5           (Slue/CP)         5           (Slue/CP)         5     <	IT connector of indoor printe Note (1) 0.3 mm <sup>2</sup> × 2 m Red (1) 0.3 mm <sup>2</sup> × 2 m (3) m <sup>2</sup> × 2 m (4) m <sup>2</sup> × 2 m (4) m <sup>2</sup> × 2 m (5) m <sup>2</sup> × 2 m (5) m <sup>2</sup> × 2 m (6) m <sup>2</sup> × 2 m (6) m <sup>2</sup> × 2 m (6) m <sup>2</sup> × 2 m (7) m <sup>2</sup> × 2 m (7) m <sup>2</sup> × 2 m (8) m <sup>2</sup> ×	d circuit board         0.75mm² × 0.2 m But-connecting contactor         Verpleaker manse. 0.75 - 1.25 m         Verpleaker mass. 0.2 m But-connecting contactor         But-connecting contactor         Output 1         But-connecting contactor         Output 2         Get       Verlow         Output 2         But-connecting contactor         Output 2         But-connecting contactor         Output 3         But-connecting contactor         Output 4         But-connecting contactor         Output 4         But-connecting contactor         Output 4         But-connecting contactor         Output 4         But-connecting contactor         But-connecting contactor <td< td=""></td<>
onnect all indoor units with 2 core remote control line.         et unique remote control communication address from "0" to "F" to each inside unit by the stary switch SW2 on the indoor unit's PCB.         Indoor Unit (1)       Indoor Unit (2)         Address "0"       Address "1"         Address "1"       Address "1"         Aster / slave setting when more than one remote control unit are used         aximum of two remote control units can be connected to one indoor unit (or one group of or units.)         air-conditioner operation follows the last operation of the remote control regardless of the ter/slave setting of it.         sptable combination is "two (2) wired remote controls", "one (1) wired remote control one (1) wireless kit" or "two (2) wireless kits".         one (1) wireless kit"		Indeor PCB           +12         1           +12         1           CNT         3           (Blue/GP)         4           (Blue/GP)         4           (Blue/CP)         4           (Blue/CP)         4           (Blue/CP)         2           Note (1) To be no longer th         2           NAR4 are DC 12 V.         2           Maker and model (         Connector : Molex           Connector : Molex         Connector : Molex           Connector : J.S.T. I         Terminal : J.S.T. I           Output 1 - 4 and in         Factory default is s           Output 1 - 4 and ju         Factory default is s           Output 1 - 1         Soutput           (1) FRIN output         (1) RUN output	IT connector of indoor printe Note (1) 0.3 mm <sup>2</sup> × 2 m Rec Remote 00-OFF/monitor kit. Yellow Urange Note (1) 0.3 mm <sup>2</sup> × 2 m Rec View Velow Valow Valow Note (1) 0.3 mm <sup>2</sup> × 2 m (Kit) Valow Valow Note (1) 0.3 mm <sup>2</sup> × 2 m (Kit) Valow Valow Note (1) 0.3 mm <sup>2</sup> × 2 m (Kit) Valow	d circuit board         Offer and the connecting contactor         Visit       Visit
onnect all indoor units with 2 core remote control line.         et unique remote control communication address from "0" to "F" to each inside unit by the stary switch SW2 on the indoor unit's PCB.         Indoor Unit (1)       Indoor Unit (2)         Address "0"       Address "1"         Address "0"       Address "1"         Address "0"       Address "1"         Remote control       Indoor Unit (10)         Remote control       Remote control line (no polarity)         Remote control       Remote control units can be connected to one indoor unit (or one group of or units.)         air-conditioner operation follows the last operation of the remote control regardless of the ter/slave setting of it.         aptable combination is "two (2) wired remote controls", "one (1) wired remote control one (1) wireless kit" or "two (2) wireless kits".         one (1) wireless kit" or "two (2) wireless kits".         one (1) wireless kit" or "two (2) wireless kits".		Punction of CN     Indoor PCB     12     1	IT connector of indoor printer Note (1) 0.3 mm <sup>2</sup> × 2 m Red Red UN-OFF/monitor kit Black Velow Variable Red Variable Red	d circuit board         0.75mm² × 0.2 m (Popplaabe range 0.75 - 1.25 r (Popplaabe range 0.75 r (Popplaabe range 0.75 - 1.25 r (Popplaabe range 0.75 r (Poplaabe range 0.75
connect all indoor units with 2 core remote control line.         et unique remote control communication address from "0" to "F" to each inside unit by the indoor Unit (1)         address "0"         Address "1"         Remote control         Remote control         Remote control         Remote control         Indoor Unit (16)         Address "1"         Remote control         Remote control         Remote control         Remote control         Indoor Unit (16)         Address "1"         Remote control         Remote control         Indoor Unit (10)         Remote control units can be connected to one indoor unit (or one group of or units.)         air-conditioner operation follows the last operation of the remote control regardless of the ter/slave setting of it.         uptable combination is "two (2) wired rem		Mote control is differ     Indoor PCB     12     1	IT connector of indoor printer Note (1) 0.3 mm <sup>2</sup> × 2 m Read Re	d circuit board         0.75mm² × 0.2 m         0.75mn² × 0.5mm² × 0.5
onnect all indoor units with 2 core remote control line.         et unique remote control communication address from "0" to "F" to each inside unit by the stary switch SW2 on the indoor unit's PCB.         Indoor Unit (1)       Indoor Unit (2)         Address "0"       Address "1"         Address "1"       Address "1"         Aster / slave setting when more than one remote control unit are used         aximum of two remote control units can be connected to one indoor unit (or one group of or units.)         air-conditioner operation follows the last operation of the remote control regardless of the ter/slave setting of it.         sptable combination is "two (2) wired remote controls", "one (1) wired remote control one (1) wireless kit" or "two (2) wireless kits".         one (1) wireless kit"		Punction of CN     Indoor PCB     12     1     1     1     2     CNT     (Blue/GP)     (Blue/GP)     (Blue/GP)     (Blue/GP)     (Blue/GP)     (Blue/GP)     (NTA     (Blue/GP)     (NTA     (Blue/GP)     (NTA     (Blue/GP)     (NTA     (Blue/GP)     (NTA     (Blue/GP)     (State of the second secon	IT connector of indoor printer Note (1) 0.3 mm <sup>2</sup> × 2 m Red Rende Oli-OFF/monitor kit Black Velow Note (1) 0.3 mm <sup>2</sup> × 2 m Red Rende Oli-OFF/monitor kit Black Velow Note (1) 0.3 mm <sup>2</sup> × 2 m (Red Rende Oli-OFF/monitor kit Red Rende Oli-OFF/monitor kit Red Red Rende Oli-OFF/monitor kit Red Red Red Red Red Red Red Red	the specifications.> (Site side) M      guired from following items.     Fan ON output 3     Defrest/oil return output
onnect all indoor units with 2 core remote control line.         et unique remote control communication address from "0" to "F" to each inside unit by the bary switch SW2 on the indoor unit's PCB.         Indoor Unit (1)       Indoor Unit (2)         Address "0"       Indoor Unit (1)         Address "0"       Indoor Unit (10)         Benote control line (no polarity)       Indoor Unit (10)         Remote control units can be connected to one indoor unit (or one group of or units.)       Indoor Unit (or one group of or units.)         air-conditioner operation follows the last operation of the remote control regardless of the ter/slave setting of it.       Indoor Unit (0) wiredess kits".         one to "Master" and the other to "Slave".       Indoor Unit in the position where you want to check room temperature.         Indoor Unit       In the position where you want to check room temperature.   <		Mote control is differ     Indoor PCB     12     1	IT connector of indoor printe Note (1) 0.3 mm <sup>2</sup> × 2 m Rec Remote 00-OFF/monitor kit. Yellow Urange Xas Note (1) 0.3 mm <sup>2</sup> × 2 m Rec View Xas Note (1) 0.3 mm <sup>2</sup> × 2 m (Kas) Note (1) 0.3 mm <sup>2</sup> × 2 m (Kas) (Kas	d circuit board         0.75mm² × 0.2 m         0.75mn² × 0.5mm² × 0.5
onnect all indoor units with 2 core remote control line. et unique remote control communication address from "0" to "F" to each inside unit by the stary switch SW2 on the indoor unit's PCB.		Punction of CN     Indeor PCB     +12     1     1     2     CNT     (Blue/GP)     4     4     4     5     6     6     CNT     (Blue/CP)     2     Note (1) To be no longer th     VR1-4 are DC 12 V     VR1-4 are DC 12 V     VR5 is a DC 12 V, 2     Maker and model     Connector : Molex     CnTA connector is and model     Connector : Molex     CnTA connector is and model     Connector : J.S.T. I     Output 1 - 4 and in     Factory default is s     Output     (1) RIN output     (2) Heating output     (2) Compressor Ol     (3) Engeding output     (3) Compressor Ol     (4) Inspection (err     (5) Cooling output     (6) Fan ON output	IT connector of indoor printe Note (1) 0.3 mm <sup>2</sup> × 2 m Rec Remote 00-OFF/monitor kit. Yellow Urange Xas Note (1) 0.3 mm <sup>2</sup> × 2 m Rec View Xas Note (1) 0.3 mm <sup>2</sup> × 2 m (Kas) Note (1) 0.3 mm <sup>2</sup> × 2 m (Kas) (Kas	the specifications.> (Site side) M      guired from following items.     Fan ON output 3     Defrest/oil return output
aster/ slave setting when more than one remote control unit are used         aximum of two remote control units can be connected to one indoor unit (or one group of tor units.)         air-conditioner operation follows the last operation of the remote control regardless of the ter/slave setting of it.         eptade combination is "two (2) wired remote controls", "one (1) wired remote control one to "Slave".         endor Unit (1)         Indoor Unit (2)         Indoor Unit (3)         Address "0"         Indoor Unit (4)         Indoor Unit (5)         Remote control         Indoor Unit (6)         Address "1"         Indoor Unit (1)         Indoor Unit (2)         Indoor Unit (1)         Indoor Unit (2)         Remote control         Interview         Interview<		Punction of CN     Indoor PCB     12     1     1     1     2     2     CNT     (Blue/GP)     (Blue/GP)     (Blue/2P)     (Blue/2P)     (Blue/2P)     (Blue/2P)     (NTA     2     (Blue/2P)     (NTA are DC 12 V I     (Xrs is a DC 12 V 2     (Xrs is a DC 12 V 3     (Xrs is a DC 12 V 2     (Xrs is a DC 12 V 3     (Xrs is a DC 12 V 2     (Xrs is a DC 12 V 3     (X	IT connector of indoor printe Note (1) 0.3 mm <sup>2</sup> × 2 m Rec Rende Oli-OFF/monitor kit, Black, Velow Velow Note (1) 0.3 mm <sup>2</sup> × 2 m Rec Note (1) 0.3 mm <sup>2</sup> × 2 m Note (1) 0.3 mm <sup>2</sup> × 2 m (Rec Note (1) 0.3 mm <sup>2</sup> × 2 m (Rec Not	d circuit board         0.75mm² × 0.2 m (Poplicationerms 0.75 - 1.25 f) (Poplicationerms 0.75 f) (Poplicationerms 0.
onnect all indoor units with 2 core remote control line. et unique remote control communication address from "0" to "F" to each inside unit by the trary switch SW2 on the indoor unit's PCB.		Punction of CN     Indeer PCB     12     1	IT connector of indoor printer Note (1) 0.3 mm <sup>2</sup> × 2 m Red Red (1) 0.3 mm <sup>2</sup> × 2 m Red (1) 0.3 mm <sup>2</sup> × 2 m Red (1) 0.3 mm <sup>2</sup> × 2 m Red (1) 0.3 mm <sup>2</sup> × 2 m (1) 0.3 m <sup>2</sup> × 2 m (2) 0.3 m <sup>2</sup> × 2 m (3) 0.0 m <sup>2</sup> × 2 m (4) 0.0 m <sup>2</sup> × 2 m (5) 0.0 m <sup>2</sup> × 2 m (5) 0.0 m <sup>2</sup> × 2 m (6) 0.0 m <sup>2</sup> × 2 m (7) 0.0 m <sup>2</sup> × 2 m (7) 0.0 m <sup>2</sup> × 2 m (8) 0.0 m <sup>2</sup> × 2 m (7) 0.0 m <sup>2</sup> × 2 m (8) 0.0 m <sup>2</sup> × 2 m (7) 0.0 m <sup>2</sup> × 2 m (8) 0.0 m <sup>2</sup> × 2 m (7)	d circuit board         0.75mm² × 0.2 m         0.85mm² × 0.2 m         0.95mm² × 0.2 m         0.95m² × 0.0 motol
onnect all indoor units with 2 core remote control line. et unique remote control communication address from "0" to "F" to each inside unit by the stary switch SW2 on the indoor unit's PCB.		Punction of CN     Indoor PCB     12     1     1     1     2     2     CNT     (Blue/GP)     (Blue/GP)     (Blue/2P)     (Blue/2P)     (Blue/2P)     (Blue/2P)     (NTA     2     (Blue/2P)     (NTA are DC 12 V I     (Xrs is a DC 12 V 2     (Xrs is a DC 12 V 3     (Xrs is a DC 12 V 2     (Xrs is a DC 12 V 3     (Xrs is a DC 12 V 2     (Xrs is a DC 12 V 3     (X	IT connector of indoor printer         IT connector of indoor printer         Red       Rende Olt-OFF/monitor kit         Black       Kanda Olt-OFF/monitor kit         Velow       Kanda Olt-OFF/monitor kit         Black       Kanda Olt-OFF/monitor kit         Velow       Kanda Olt-OFF/monitor kit         Black       Kanda Olt-OFF/monitor kit         Note(1) 0.3 mm² × 2 m       Kanda Olt-OFF/monitor kit         Vanda Olt       Kanda Olt-OFF/monitor kit         Vanda Olt       Kanda Olt-OFF/monitor kit         Second of DT, or other.       Check wit         Mig. SAPO2V-1-E       Mig. SAPO2V-1-E         Mig. SAPO2V-1-E       Secon         Noutput<	d circuit board         0.75mm² × 0.2 m (Poplealermene, 0.75-1.25 f) (Poplealermene, 0.75 f) (Poplea
connect all indoor units with 2 core remote control line.         et unique remote control communication address from "0" to "F" to each inside unit by the tary switch SW2 on the indoor unit's PCB.         indoor Unit (1)       indoor Unit (2)         Address "0"       Address "1"         indoor Unit (16)       Address "1"         Address "0"       Address "1"         indoor Unit (16)       Remote control Units can be connected to one indoor unit (16)         iar-conditioner operation follows the last operation of the remote control regardless of the ter/slave setting of it.         uptable combination is "two (2) wireless kits".       In the other to "Slave".         into e Unit (16)       Remote control unit sensor enabled" is only selectable with the master remote cont		Punction of CN     Indeer PCB     +12     1     1     2     CNT     (Blue/GP)     4     4     5     6     6     CNT     (Blue/GP)     1     2     2     Note (1) To be no longer th     VXn-4 are DC 122 V     VXns is a DC 12 V, 2     Maker and model     Connector : Molex     CnTA connector is and model     Connector : Molex     CnTA connector is and model     Connector : J.S.T. I     Terminal : J.S.T. I     Output 1 – 4 and in     Factory default is s     Output     ① [RUN output     ① Fan ON output     ⑦ Fan ON output     ① Fan ON outpu	IT connector of indoor printe         IT connector of indoor printe         Red       Rendo UN-OFF/monitor kit.         Black       Rendo UN-OFF/monitor kit.         Yellow       X81         User       X85         Brown       X85         Orange       X85         A V or 100 V, 200 V relay. (Equivale of CnT connector (Site side) 52647         S2647 Ob       S2637         used on FDT, or other. <check td="" w<="">         Wifg. XAP02V-1-E         Mig. SXA-01T-P0.6         nput1/2 can be selected/set as receive as shown below.         Indication       Indication         Indication       <td< td=""><td>Ittached to the remote control.         d circuit board         0.75mm² + 0.2 m (Pepicable range 0.75 - 1.25 f) (Pepicable range 0.75 f) (Pepicable range 0</td></td<></check>	Ittached to the remote control.         d circuit board         0.75mm² + 0.2 m (Pepicable range 0.75 - 1.25 f) (Pepicable range 0.75 f) (Pepicable range 0
Index units with 2 core remote control line. t unique remote control communication address from "0" to "F" to each inside unit by the tary switch SW2 on the indoor unit "(?) Address "F" Memote control Remote control line (no polarity) Remote control line (no polarity) runits.) air-conditioner operation follows the last operation of the remote control regardless of the er/slave setting of it. Proble control on is "two (2) wired remote controls", "one (1) wired remote control unit estimation is "two (2) wired settise". 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.		Punction of CN     Indoor PCB     12     1     1     1     2     CNT     (Blue/GP)     (Blue/GP)     (Blue/GP)     (Blue/GP)     (Blue/GP)     (Blue/GP)     (State and model     Connector : Molex     Terminal : Molex     OnTA connector : Molex     Terminal : J.S.T. I     Terminal : J.S.T.	IT connector of indoor printer         IT connector of indoor printer         Red       Rende Oth-OFF/monitor kit         Black       Kit         Velow       Kit         Vito       Kit         Orange       Kit         Xito       Kit         Orange       Kito         Xito       Kito         Note (1) 0.3 mm <sup>2</sup> × 2 m       Kito         Note (1) 0.3 mm <sup>2</sup> × 2 m       Kito         Xito       Xito         Note (1) 0.3 mm <sup>2</sup> × 2 m       Kito         Xito       Xito         Valow       Kito         Vito       100 V, 200 V relay. (Equivale of CnT connector (Site side)         5264-06       5263T         used on FDT, or other. <check td="" w<="">         Wfg. XAP02V-1-E         Mig. XAP02V-1-E         Mig. XAP02V-1-E         Mig. XAP02V-1-E         Mig. SXA-01T-P0.6         mput1/2 can be selected/set as red         1       (3)         2       (3)         0       (6)         (7)       (7)         (8)       (7)         (9)       (7)         (10)       (7)         (10)</check>	tttached to the remote control.  d circuit board  0.75mm <sup>2</sup> × 0.2 m guppleade range 0.75-1.25 f guppleade range 0.75 g guppleade range 0.75
Indext all indoor units with 2 core remote control line. Indext all indoor units with 2 core remote control line. Indext all indoor units with 2 core remote control line. Indext Size indoor units of the indoor unit's PCB. Indext Unit (1) Indext Unit (1) Indext Unit (2) Indext Unit (16) Address"F" Indext Unit (16) Address"F" Indext Unit (16) Indext Unit (16) Indext Unit (16) Address"F" Indext Unit (16) Indext		Punction of CN     Indoor PCB     +12     1     1     1     2     2     CNT     (Blue/GP)     (Blue/GP)     (Blue/GP)     (Blue/2P)     (Diff a gradient of the second of the secon	IT connector of indoor printe         IT connector of indoor printe         Red       Red (10.3 mm² × 2 m)         Red       Rendo DN-OFF/monitor kit         Black       Status         Velow       Xas         Orange       Xas         Note (1) 0.3 mm² × 2 m       Crace         Xas       Crace         SC64-06       S2631         Used on FDT, or other.        Check w         Motput       Crace         I       Crace         I       Crace         I       Crace         I       Crace         I       Crace	ttached to the remote control.  d circuit board  0.75mm <sup>2</sup> × 0.2 m properation range 0.75 - 1.25 f  white
Definition of two remote control line (no polarity)  Definition of two remote control line (no polarity)  Definition of two remote control units can be connected to one indoor unit (or one group of or units.)  Definition of two remote control units can be connected to one indoor unit (or one group of or units.)  Definition of two remote control units can be connected to one indoor unit (or one group of or units.)  Definition of two remote control units can be connected to one indoor unit (or one group of or units.)  Definition of two remote control units can be connected to one indoor unit (or one group of or units.)  Definition of two remote control units can be connected to one indoor unit (or one group of or units.)  Definition of two remote control units can be connected to unit are used  Definition of two remote control units can be connected to unit are used  Definition of two remote control units can be connected to unit (or one group of or units.)  Definition of two remote control units can be connected to unit (or unit are used)  Definition of two remote control units can be connected to unit (or unit are used)  Definition of two remote control units can be connected to unit (or units are used)  Definition of two remote control units can be connected to unit (or units (or units.)  Definition of two (2) wireless kits".  Definition of two remote control units ensor enabled is only selectable with the master remote control unit in the position where you want to check room temperature.  Definition		Punction of CN     Indeor PCB     +12     1     1     1     2     2     CNT     (Blue/GP)     3     3     4     4     5     6     6     CNT     (Blue/GP)     1     2     2     CNT     (Blue/GP)     1     2     2     CNT     (Blue/CP)     3     3     3     4     4     5     6     6     CNT     (Blue/CP)     3     3     4     4     4     5     6     6     CNT     (Blue/CP)     3     3     3     4     4     5     6     6     CNT     (Blue/CP)     3     3     7     CNT     (Blue/CP)     CNTA connector : Nolex     Connector : J.S.T. f     Terminal : J.S.T. f     Output 1 - 4 and is     Connector : J.S.T. f     Terminal : J.S.T. f     Output 1 - 4 and is     Connector : ON output     ①     [RUN output     ①     [Au/STOP     @     Cooling output     ①     [Au/STOP     @     Cooling/Heatin     Factory default set     CnT-2     Output 1 E     CnT-2     Output 2 H     CnT-4     Output 2 H     CnT-4     Output 2 H     CnT-4     Output 3     CON     CONING     CONING     CN     CONING     CN	IT connector of indoor printe         IT connector of indoor printe         Red       Red (10.3 mm² × 2 m)         Red       Rendo DN-OFF/monitor kit         Black       Status         Velow       Xas         Orange       Xas         Note (1) 0.3 mm² × 2 m       Crace         Xas       Crace         SC64-06       S2631         Used on FDT, or other.        Check w         Motput       Crace         I       Crace         I       Crace         I       Crace         I       Crace         I       Crace	Ittached to the remote control.         d circuit board         0.75mm² × 0.2 m (Poplicate remote control.         0.85mm² × 0.2 m (Poplicate remote control.         0.95mm² × 0.0 m (Poplicate remote control.         0.95mm² × 0.0 m (Poplicate remote control.         0.95mm² × 0.0 m (Poplicate remote control.         1.95mm² × 0.0 m (Poplicate remote control.         1.95mm mode x         -5<

#### **(5)** Operation and setting from remote control

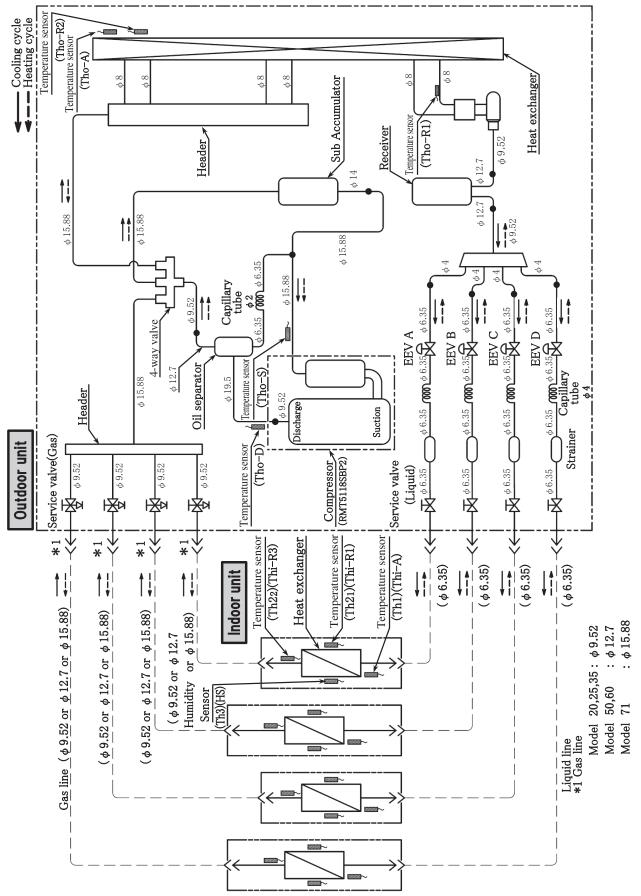
A : Refer to the instruction manual for RC-EX series B : Refer to the installation manual for RC-EX series C : Loading a utility software vie Internet C :

	Setting & d	lisplay item	Description	RC-EX3A	RC-E5			
	note Control network 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).		0			
21	Main/sub setting of remote con	trols	An address is set to each indoor unit. A pair of remote controls (including option wireless remote control) can be connected within the remote control network. Set one to "Main" and the other to "Sub".	В	0			
	P scrren, Switch manipulation		UCantrolli il Chatali en Il Dataile il engle a calente d' (0, 0)					
	Menu Operation mode		"Control", "State", or "Details" can be selected. (3-8) "Cooling", "Heating", "Fan", "Dry" or "Auto" can be set.	A	0			
3	Set temp.		"Set temperature" can be set by 0.5°C interval.	A	Ō			
4	Air flow direction		"Air flow direction" [Individual flap control] can be set. Select Enable or Disable for the "3D AUTO" (in case of FDK). *1	A				
	Fan speed		"Fan speed" can be set.	Α	0			
	Timer setting DN/OFF		"Timer operation" can be set. "On/Off operation of the system" can be done.	A	0			
	F1 SW	*1	The system operates and is controlled according to the function specified to the F1 switch.	A				
	F2 SW Select the language		The system operates and is controlled according to the function specified to the F2 switch. Select the language to display on the remote control.	A				
	eful functions		Select from English, German, French, Spanish, Italian, Dutch, Turkish, Portuguese, Russian, Polish, Japanese and Chinese.	A				
	Individual flap control		The moving range (the positions of upper limit and lower limit) of the flap for individual flap can be set. Set also the left and right limit positions for FDK. *1	A				
	Anti draft setting When the panel with the anti-d	*1 raft function is assembled.	DetailsYou can set Enable or Disable for anti draft motion performed at each blow outlet in each operation mode.     ON/OFF settingYou can set ON/OFF (operation/stop) of anti draft function for the enabled blow outlet set in Details. *2	A				
	Timer settings	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 range of Thour-12houres (1hr interval). • The operation mode, set temp-and fan speed at starting operation can be set.	A				
		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 range of Thour-12houres (1hr interval).	A				
		Set On timer by clock	The clock time to start operation can be set.					
			The set clock time can be set by 5-minutes intervals.     [Once (one time only)] or [Everyday] operation can be switched.     The operation mode, set temp. and fan speed at starting operation can be set.	A				
		Set Off timer by clock	The clock time to stop operation can be set. • The set clock time can be set by 5-minute intervals. • [Once (one time only]) or [Everyday] operation can be switched.	A				
ļ	Equarita catting	Confirmation of timer settings	Status of timer settings can be seen.	A				
	Favorite setting [Administrator password]	*1	Set the operation mode, setting temperature, air flow capacity and air flow direction for the choice setting operations. Set them for the Favorite set 1 and the Favorite set 2 respectively.	Α				
5	[Administrator password] Weekly timer		On timer and Off timer on weekly basis can be set. • 8-operation patterns per day can be set at a maximun. • The setting clock time can be set by 5-minute intervals. • Holiday setting is available. • The operation mode, set temp. and fan speed at starting operation can be set.					
	Home leave mode [Administrator password]		When leaving home for a long period like a vaction leave, the unit can be operated to maintain the room temperature not to be hotter in summer or not to be colder in winter. • The judgment to switch the operation mode (Cooring ⇔ Heating) is done by the both factors of the set temp, and outdoor air temp. • The set temp, and fan speed can be set.	A				
	External Ventilation When the ventilator is combine	d.	On/Off operation of the external ventilator can be done. It is necessary to set from [Menu] $\Rightarrow$ [Service setting] $\Rightarrow$ [R/C function settings] $\Rightarrow$ [Ventilation setting]. $\cdot$ If the "independent" is selected for the ventilation setting, the ventilator can be operated or stopped.	A	0			
8	Select the language		Select the language to display on the remote control. <ul> <li>Select from English, German, French, Spanish, Italian, Dutch, Turkish, Portuguese, Russian, Polish, Japanese and Chinese. *1</li> </ul>	A				
9	Silent mode control	*2	The period of time to operate the unit by prioritizing the quietness can be set. • Start and end can be set for the silent mode	А				
	ergy-saving setting		Administrator password					
1	Sleep timer		To prevent the timer from keeping 0N, set hours to stop operation automatically with this timer. • The selectable range of setting time is from 30 to 240 minutes. (10-minute intervals) • When setting is "Enable", this timer will activate whenever the 0N timer is set.	А				
2	Peak-cut timer		Power consumption can be reduced by restructing the maximum capacity. Set the [Start time], the [End time] and the capacity limit % (Peak-cut %). • 4-operation patterns per day can be set at maximum. • The setting time can be changed by 5-minute intervals. • The selectable range of capacity limit % (Peak-cut %) is from 0% to 40-80% (20% interval) • Holiday setting is available.	A				
3	Automatic temp set back		After the elapse of the set time period, the current set temp. will be set back to the [Set back time.] • The setting can be done in cooling and heating mode respectively. • Selectable range of the set time is from 20 min. to 120 min. (10 min. interval). • Set the [Set back temp.] by 1°C interval.	A				
	Motion sensor control When the panel with the motion s		When the motion sensor is used, it is necessary to set Enable or Disable for the "Power control" and the "Auto-off".	A				
_	Filter sign reset	Filter sign reset	The filter sign can be reset.	A				
	er setting	Setting next cleaning date	The next cleaning date can be set.	A				
- 6	nternal settings	Clock setting	The current date and time can be set or revised. • If a power failure continues no longer than 80 hours, the clock continues to tick by the built-in power source.	A				
		Date and time display Summer time	[Display] or [Hide] the date and/or time can be set, and [12H] or [24H] display can be set. When select [Enable], the +1hour adjustment of current time can be set. When select [Disable], the [Summer time] adjustment can be reset.	A A				
		Contrast	The contrast of LCD can be adjusted higher or lower.	A				
		Backlight Control sound	Switching on/off a light can be set and period of the lighting time can be set within the range of 5sec-90 sec (5sec interval). It can set with or without [Control sound (beep sound)] at touch panel.	A				
		Operation lamp luminance *1	This is used to adjust the luminance of operation lamp.	A				
	Administrator settings (Administrator password)	Permission/Prohibition setting	Permission/Prohibition setting of operation can be set. [On/Off] [Change set temp] [Change operation mode] [Change flap direction] [Change fan speed] [High power operation] [Energy-saving operation] [Timer] Request for administrator can be set. [Individual flap control] [Weekly timer] [Select the language] [Anti draft setting] *1	A				
		Outdoor unit silent mode timer	The period of time to operate the outdoor unit by prioritizing the quiteness can be set.  • The [Start time] and the [End time] for operating outdoor unit in silent mode can be set.  • The period of the operation time can be set once aday by 5-minute interals.	А				
					-			

#### **(5)** Operation and setting from remote control (continued) Setting & display item Description RC-EX3A RC-E5 The temp increment setting can be changed by 0.5°C or 1.0°C Administrator settings emp increment setting Set temp display Ways of displaying setting temperatures can be selected Α Administrator password] Register [Room name] [Name of I/U] R/C display setting Display [Indoor temp display] or not A Display [Error code display] or not. Display [Heating stand-by display] [Defrost operation display] [Auto cooling/heating display] [Display temp of R/C, Room, Outdoor] or not 'he administrator password can be changed. (Default setting is "0000") Change administrator password The administrator password can be reset. R F1/F2 function setting Functions can be set for F1 and F2. Selectable functions: [Anti draft ON/OFF] \*2 [High power operation], [Energy-saving operation], [Silent mode cont.], [Home leave mode], [Favorite set 1], A Favorite set 2] and [Filter sign reset]. Service setting 1 Installer settings The [Installation date] can be registed. • When registering the [Instaration date], the [Next service date] is displayed automatically (For changing the [Next service date], please refer the item of [Service & Maintenance] Installation date В [Service password] The [Company] information] can be registed and can be displayed on the R/C. The [Company] can be registered within 26 characters. The [Phone No.] can be registed within 13 digits. Company information В Test run On/Off operation of the test run can be done The [Cooling test run] can be done at 5°C of set temp. for 30 minutes В Cooling test run Drain pump test run Only drain pump can be operated. n case of combination with only the ducted indoor unit which has a function of static pressure adjustment, the static pressure is adjustable Staric pressure adjustment В It can be set for each indoor unit individually Change auto-address The set address of each indoor unit decided by auto-address setting method can be changed to any other address. (For R $\bigtriangleup$ multiple KX units only) Address setting of 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 shall follow. The Main indoor unit can domain 10 indoor units at a maximum. nain II I R $\bigtriangleup$ IU back-up function When a pair of indoor units (2 groups) is connected to one unit of remote control, it can be set Enable or Disable for the В [IU rotation], [IU capacity back-up] and [IU fault back-up] Motion sensor setting Set Enable or Disable for the infrared sensor detectors of indoor units connected to the remote control R When the panel with the motion sensor is assembled. If Disable is selected, it cannot be control the motion sensor control for the energy-saving setting 2 R/C function setting The R/C setting of [Main/Sub] can be changed. Main/Sub R/C When two or more indoor units are connected to one unit of remote control, suction sensors, which are used for the judgement by thermostat, can be selected. • It can be selected from [Individual], [Master IU] and [Average temp]. Return air temr [Service password] В R/C sensor It can be set the mode to switch to the remote control sensor. It can be selected from cooling and heating. R/C sensor adjustment The offset value of [R/C sensor] sensing temp. can be set respectively in heating and cooling В Enable or Disable can be set for each operation mode Operation mode °C / °F Set the unit for setting temperatures. В °C or °F can be selected Fan speed Fan speeds can be selected When two or more indoor units are connected to one unit of remote control, the range to apply CNT inputs can be set External input Upper/lower flap control Stop at fixed position] or [Stop at any position] can be selected for the upper and lower louvers Left/right flap control [Fixed position stop] or [Stop at any position] can be selected for the right and left louvers. Ventilation setting Combination control for ventilator can be set The operation control method after recovery of power failure happened during operation can be set. Auto-restart Auto temp setting Enable] or [Disable] of [Auto temp setting] can be selected Auto fan speed [Enable] or [Disable] of [Auto fan speed] can be selected. 3 IU settings Fan speed setting The fan speed for indoor units can be set The setting of filter sign display timer can be done from following patterns. ilter sign The connect of control by external input 1 can be changed The type of external input 1 signal can be changed. [Service password] External input 1 External input 1 signal External input 2 The connect of control by external input 2 can be changed External input 2 signal The type of external input 2 signal can be changed. Heating thermo-OFF temp adjustment The judgement temp, of heating themo-off can be adjusted within the range from 0 to +3°C (1°C interval) Return temperature adjustment The sensing temp. of return air temp. sensor built in the indoor unit can be adjusted within the range of ±2°C Fan control in cooling thermo-OFF Fan control, when the cooling thermostat is turned OFF, can be changed. Fan control in heating thermo-OFF Fan control, when the heating thermostat is turned OFF, can be changed Anti-frost temp Judgment temperature for the anti-frost control during cooling can be changed. Anti-frost control When the anti-frost control of indoor unit in cooling is activated, the fan speed can be changed In any operation mode in addition to cooling and dry mode, the setting of drain pump operation can be done Drain pump operation Keep fan operating after cooling is stopped The time period residual fan operation after stopping or thermo-off in cooling mode can be set. Keep fan operating after heating is stopped The time period residual fan operation after stopping or thermo-off in heating mode can be set. The fan operation rule following the residual fan operation after stopping or themo-off in heating mode can be set. In case that the fan is operated as the circulator, the fan control rule can be set. Intermittent fan operation in heating an circulator operation When only the OA processing units are operated, control pressure value can be changed. The [Auto rule selection] for switching the operation mode automatically can be selected from 3 patterns. Control pressure adjust Auto operation mode Thermo, rule setting When selecting [Outdoor air temp. control], the judgment temp can be offset by outdoor temp. Auto switching range for the auto fan speed control can be set. Auto fan speed contro If the difference between the setting temperature and the suction temperature becomes larger than the temperature difference set for the overload alarm, at 30 minutes after the start of operation, the overload alarm signal is transmitted from the external output (CMT-5) IU overload alarm В External output setting Functions assigned to the external outputs 1 to 4 can be changed. 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 4 Service & Maintenance III address В indoor fan. [Service password] Next service date The [Next service date] can be registered. AR The [Next service date] and [Company information] is displayed on the message screer The [Operation data] for indoor unit and outdoor unit can be displayed. Operation data Error display Error history The error history can be displayed. Display anomaly data Erase anomaly data The operation data just before the latest error stop can be displayed. Anomaly operation data can be erased. R Reset periodical check The timer for the periodical check can be reset. he I/U settings memorized in the indoor PCB connected to the remote control can be saved in the memory of the remote control Saving IU settings Special settings [Erase IU address] [CPU reset] [Restore of default setting] [Touch panel calibration] Indoor unit capacity display Address No. and capacities of indoor units connected to the remote control are displayed В 8.Contact company Shows registered [Contact company] and [Contact phone]. 9.Inspection Confirmation of Inspection This is displayed when any error occurs А 10.PC connection USB connection Weekly timer setting and etc., can be set from PC Listed items may not function depending on the specifications of indoor and outdoor units which are combined.

## **3. PIPING SYSTEM**

Models SCM71ZS-W, 80ZS-W

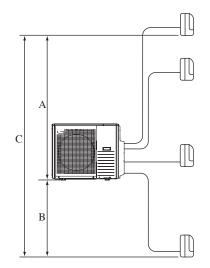


## 4. RANGE OF USAGE & LIMITATIONS

Models SCM71, 80

		Model	SCM71ZS-W	SCM80ZS-W							
Item			SCW17125-W	3C108023-W							
Indoor intake ai	ir temperature	Cooling	Approximate	ly 18 to 32°C							
(Upper, lower li	mits)	Heating	Approximate	ly 15 to 30°C							
Outdoor air tem	perature	Cooling	Approximate	ly -15 to 46°C							
(Upper, lower li	mits)	Heating	Approximately -15 to 24°C								
Indoor units that can be	Number of con	nected units	2 to 4	units							
used in combination	Total of indoor ur	nits (class kW)	7.0-12.5kW	8.0-13.5kW							
Total length for	all rooms		Max. 70m								
Length for one	indoor unit		Max.	25m							
Difference in height between	When indoor un outdoor unit (A)	iit is above	Max.	20m							
indoor and outdoor units	When indoor un outdoor unit (B)	it is below	Max.	20m							
Difference in he	ight between ind	oor units (C)	Max.	25m							
Compressor stop/start	1 cycle time		8 min or more (from stop to	o stop or from start to start)							
frequency	Stop time		3 min c	or more							
	Voltage fluctua	ation	Within ±10% c	of rated voltage							
Power source voltage	Voltage drop o	luring start	Within ±15% of	of rated voltage							
	Interval unbala	ance	Within ±3% of rated voltage								
Power cable ler	ngth		32	m <sup>(1)</sup>							

Note(1) The cable specifications are based on the assumption that a metal or plastic conduit is used with no more than three cables contained in a conduit and a voltage drop is 2%. For an installation falling outside of these conditions, please follow the internal cabling regulations. Adapt it to the regulation in effect in each country.



## **5. TABLE OF INDOOR UNIT COMBINATIONS**

- The combinations of the indoor units is indicated by numbers. They are read as follows. (Example) SRK20ZSX-W→20 SRK25ZSX-W→25
- The capacity of the indoor units is shown by rooms. If this exceeds the maximum capacity of the outdoor unit, the demand capacity will be proportionally distributed.
- If units are to be combined, use the table below to make the proper selection.

### Number of connectable indoor units

	SCM71ZS-W,80ZS-W
MIN	2
MAX	4

#### (1) Model SCM71ZS-W

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(a) Indoor unit SRK ** ZSX-W models only
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<Cooling>

				Coolin	ig capacit	ty (kW)			Power	consumpt	ion (W)	Stand	lard curre	ent (A)
Indoor combin		Ind	oor unit o	apacity (I	kW)	Tota	l capacity	(kW)	Min.	Standard	Max	220V	230V	240V
		Α	В	С	D	Min.	Standard	Max.	win.	Standard	Max.	2200	2300	240 V
	20	2.0	-	-	-	1.8	2.0	3.4	480	500	950	2.4	2.3	2.2
	25	2.5	-	-	-	1.8	2.5	3.8	480	680	1080	3.2	3.1	3.0
1 unit	35	3.5	-	-	-	1.8	3.5	4.5	480	1010	1240	4.7	4.5	4.3
	50	5.0	-	-	-	1.8	5.0	6.2	480	1530	2100	7.0	6.7	6.4
	60	6.0	-	-	-	1.8	6.0	6.9	480	1880	2700	8.6	8.3	7.9
	20 + 20	2.00	2.00	-	-	3.0	4.0	6.1	550	840	1910	4.0	3.8	3.6
	20 + 25	2.00	2.50	-	-	3.0	4.5	6.4	550	990	2060	4.6	4.4	4.3
	20 + 35	2.00	3.50	-	-	3.0	5.5	6.9	550	1320	2320	6.1	5.8	5.6
	20 + 50	1.94	4.86	-	-	3.0	7.1	7.7	550	1970	2750	9.0	8.7	8.3
	20 + 60	1.70	5.10	-	-	3.0	7.1	7.7	550	1970	2750	9.0	8.7	8.3
	25 + 25	2.50	2.50	-	-	3.0	5.0	6.8	550	1150	2270	5.4	5.1	4.9
2	25 + 35	2.46	3.44	-	-	3.0	5.9	7.2	550	1470	2470	6.8	6.5	6.2
units	25 + 50	2.27	4.53	-	-	3.0	7.1	7.7	550	1970	2750	9.0	8.7	8.3
	25 + 60	2.00	4.80	-	-	3.0	7.1	7.7	550	1970	2750	9.0	8.7	8.3
	35 + 35	3.40	3.40	-	-	3.0	7.1	7.7	550	1970	2750	9.0	8.7	8.3
	35 + 50	2.80	4.00	-	-	3.0	7.1	7.7	550	1970	2750	9.0	8.7	8.3
	35 + 60	2.51	4.29	-	-	3.0	7.1	7.7	550	1970	2750	9.0	8.7	8.3
	50 + 50	3.40	3.40	-	-	3.0	7.1	7.7	550	1970	2750	9.0	8.7	8.3
	50 + 60	3.09 3.40	3.71	-	-	3.0	7.1	7.7	550	1970	2750	9.0	8.7	8.3
	60 + 60	2.00	3.40 2.00	- 2.00	-	3.0 3.7	7.1	7.7 8.2	550	1970 1240	2750 2750	9.0 5.8	8.7	8.3 5.3
	20 + 20 + 20 20 + 20 + 25	2.00	2.00	2.00	-	3.7	6.0 6.5	8.2	670 670	1390	2750	5.8 6.4	5.5 6.1	5.9
	20 + 20 + 25 20 + 20 + 35	1.84	1.84	3.22	-	3.7	7.1	8.2	670	1520	2750	7.0	6.7	6.4
	20 + 20 + 33 20 + 20 + 50	1.54	1.53	3.83		3.7	7.1	8.2	670	1520	2750	7.0	6.7	6.4
	20 + 20 + 30 20 + 20 + 60	1.38	1.38	4.14	-	3.7	7.1	8.2	670	1520	2750	7.0	6.7	6.4
	20 + 25 + 25	1.94	2.43	2.43	-	3.7	7.1	8.2	670	1520	2750	7.0	6.7	6.4
	20 + 25 + 35	1.73	2.16	3.02	-	3.7	7.1	8.2	670	1520	2750	7.0	6.7	6.4
	20 + 25 + 50	1.45	1.82	3.63	-	3.7	7.1	8.2	670	1520	2750	7.0	6.7	6.4
	20 + 25 + 60	1.31	1.64	3.94	-	3.7	7.1	8.2	670	1520	2750	7.0	6.7	6.4
	20 + 35 + 35	1.53	2.68	2.68	-	3.7	7.1	8.2	670	1520	2750	7.0	6.7	6.4
	20 + 35 + 50	1.31	2.30	3.29	-	3.7	7.1	8.2	670	1520	2750	7.0	6.7	6.4
3	20 + 35 + 60	1.20	2.10	3.60	-	3.7	7.1	8.2	670	1520	2750	7.0	6.7	6.4
units	20 + 50 + 50	1.15	2.88	2.88	-	3.7	7.1	8.2	670	1520	2750	7.0	6.7	6.4
	25 + 25 + 25	2.30	2.30	2.30	-	3.7	7.1	8.2	670	1520	2750	7.0	6.7	6.4
	25 + 25 + 35	2.03	2.03	2.84	-	3.7	7.1	8.2	670	1520	2750	7.0	6.7	6.4
	25 + 25 + 50	1.73	1.73	3.45	-	3.7	7.1	8.2	670	1520	2750	7.0	6.7	6.4
	25 + 25 + 60	1.57	1.57	3.76	-	3.7	7.1	8.2	670	1520	2750	7.0	6.7	6.4
	25 + 35 + 35	1.82	2.54	2.54	-	3.7	7.1	8.2	670	1520	2750	7.0	6.7	6.4
	25 + 35 + 50	1.57	2.20	3.14	-	3.7	7.1	8.2	670	1520	2750	7.0	6.7	6.4
	25 + 35 + 60	1.44	2.01	3.45	-	3.7	7.1	8.2	670	1520	2750	7.0	6.7	6.4
	25 + 50 + 50	1.38	2.76	2.76	-	3.7	7.1	8.2	670	1520	2750	7.0	6.7	6.4
	35 + 35 + 35	2.30	2.30	2.30	-	3.7	7.1	8.2	670	1520	2750	7.0	6.7	6.4
	35 + 35 + 50	2.01	2.01	2.88	-	3.7	7.1	8.2	670	1520	2750	7.0	6.7	6.4

<Cooling>

				Coolin	g capacit	ty (kW)			Power	consumpt	tion (W)	Standard current (A)			
Indoor combir		Ind	oor unit c	apacity (	kW)	Tota	I capacity	(kW)	Min.	Standard	Max.	220V	230V	240V	
		Α	В	С	D	Min.	Standard	Max.	IVIII.	Stanuaru	Max.	2200	2300	240 V	
	20 + 20 + 20 + 20	1.73	1.73	1.73	1.73	4.4	7.1	8.8	890	1420	2750	6.5	6.2	6.0	
	20 + 20 + 20 + 25	1.62	1.62	1.62	2.03	4.4	7.1	8.8	890	1420	2750	6.5	6.2	6.0	
	20 + 20 + 20 + 35	1.49	1.49	1.49	2.62	4.4	7.1	8.8	890	1420	2750	6.5	6.2	6.0	
	20 + 20 + 20 + 50	1.29	1.29	1.29	3.23	4.4	7.1	8.8	890	1420	2750	6.5	6.2	6.0	
	20 + 20 + 20 + 60	1.18	1.18	1.18	3.55	4.4	7.1	8.8	890	1420	2750	6.5	6.2	6.0	
	20 + 20 + 25 + 25	1.53	1.53	1.92	1.92	4.4	7.1	8.8	890	1420	2750	6.5	6.2	6.0	
	20 + 20 + 25 + 35	1.42	1.42	1.78	2.49	4.4	7.1	8.8	890	1420	2750	6.5	6.2	6.0	
	20 + 20 + 25 + 50	1.23	1.23	1.54	3.09	4.4	7.1	8.8	890	1420	2750	6.5	6.2	6.0	
	20 + 20 + 25 + 60	1.14	1.14	1.42	3.41	4.4	7.1	8.8	890	1420	2750	6.5	6.2	6.0	
4	20 + 20 + 35 + 35	1.29	1.29	2.26	2.26	4.4	7.1	8.8	890	1420	2750	6.5	6.2	6.0	
units	20 + 20 + 35 + 50	1.14	1.14	1.99	2.84	4.4	7.1	8.8	890	1420	2750	6.5	6.2	6.0	
	20 + 25+ 25 + 25	1.49	1.87	1.87	1.87	4.4	7.1	8.8	890	1420	2750	6.5	6.2	6.0	
	20 + 25 + 25 + 35	1.35	1.69	1.69	2.37	4.4	7.1	8.8	890	1420	2750	6.5	6.2	6.0	
	20 + 25 + 25 + 50	1.18	1.48	1.48	2.96	4.4	7.1	8.8	890	1420	2750	6.5	6.2	6.0	
	20 + 25 + 35 + 35	1.23	1.54	2.16	2.16	4.4	7.1	8.8	890	1420	2750	6.5	6.2	6.0	
	20 + 35 + 35 + 35	1.14	1.99	1.99	1.99	4.4	7.1	8.8	890	1420	2750	6.5	6.2	6.0	
	25 + 25 + 25 + 25	1.78	1.78	1.78	1.78	4.4	7.1	8.8	890	1420	2750	6.5	6.2	6.0	
	25 + 25 + 25 + 35	1.61	1.61	1.61	2.26	4.4	7.1	8.8	890	1420	2750	6.5	6.2	6.0	
	25 + 25 + 25 + 50	1.42	1.42	1.42	2.84	4.4	7.1	8.8	890	1420	2750	6.5	6.2	6.0	
	25 + 25 + 35 + 35	1.48	1.48	2.07	2.07	4.4	7.1	8.8	890	1420	2750	6.5	6.2	6.0	

	_			Heatin	g capacit	y (kW)			Power	consumpt	ion (W)	Stand	lard curre	nt (A)
Indoor unit combination 20 25 35 50 60 20 + 20 20 + 20 20 + 25 20 + 35	Ind	oor unit c	apacity (I	kW)	Tota	I capacity	(kW)	Min.	Standard	Max.	220V	230V	240V	
		Α	В	С	D	Min.	Standard	Max.	10111.	Stanuaru	wax.	2200	2300	240 V
	20	3.0	-	-	-	1.1	3.0	3.7	390	840	1330	4.0	3.8	3.6
	25	3.4	-	-	-	1.1	3.4	4.2	390	1000	1510	4.7	4.5	4.3
1 unit	35	4.5	-	-	-	1.1	4.5	5.0	390	1330	1790	6.2	5.9	5.7
	50	5.8	-	-	-	1.1	5.8	6.5	390	1780	2310	8.3	7.9	7.6
	60	6.8	-	-	-	1.1	6.8	7.5	390	2100	2660	9.7	9.3	8.9
	20 + 20	2.70	2.70	-	-	1.5	5.4	7.4	350	1280	1870	6.0	5.7	5.5
	20 + 25	2.62	3.28	-	-	1.5	5.9	7.7	350	1410	2130	6.6	6.3	6.0
	20 + 35	2.51	4.39	-	-	1.5	6.9	8.3	350	1680	2650	7.8	7.5	7.1
	20 + 50	2.34	5.86	-	-	1.5	8.6	8.9	350	2100	3000	9.7	9.3	8.9
	20 + 60	2.05	6.15	-	-	1.5	8.6	8.9	350	2100	3000	9.7	9.3	8.9
	25 + 25	3.20	3.20	-	-	1.5	6.4	8.1	350	1540	2480	7.1	6.8	6.5
_	25 + 35	3.08	4.32	-	-	1.5	7.4	8.6	350	1810	2910	8.4	8.0	7.7
2 units	25 + 50	2.73	5.47	-	-	1.5	8.6	8.9	350	2100	3000	9.7	9.3	8.9
unito	25 + 60	2.41	5.79	-	-	1.5	8.6	8.9	350	2100	3000	9.7	9.3	8.9
	35 + 35	4.10	4.10	-	-	1.5	8.6	8.9	350	2100	3000	9.7	9.3	8.9
	35 + 50	3.38	4.82	-	-	1.5	8.6	8.9	350	2100	3000	9.7	9.3	8.9
	35 + 60	3.02	5.18	-	-	1.5	8.6	8.9	350	2100	3000	9.7	9.3	8.9
	50 + 50	4.10	4.10	-	-	1.5	8.6	8.9	350	2100	3000	9.7	9.3	8.9
	50 + 60	3.73	4.47	-	-	1.5	8.6	8.9	350	2100	3000	9.7	9.3	8.9
	60 + 60	4.10	4.10	-	-	1.5	8.6	8.9	350	2100	3000	9.7	9.3	8.9

				Heatin	g capacit	ty (kW)			Power	consumpt	ion (W)	Standard current (A)		
Indoor combin		Ind	oor unit c	apacity (	kW)	Tota	l capacity	(kW)	Min.	Standard	Max.	220V	230V	240V
		Α	В	С	D	Min.	Standard	Max.	- WIII.	Stanuaru	wax.	2200	2300	2401
	20 + 20 + 20	2.57	2.57	2.57	-	1.6	7.7	9.1	370	1830	3000	8.5	8.1	7.8
	20 + 20 + 25	2.46	2.46	3.08	-	1.6	8.0	9.1	370	1930	3000	9.0	8.6	8.2
	20 + 20 + 35	2.24	2.24	3.92	-	1.6	8.6	9.1	370	2060	3000	9.6	9.1	8.8
	20 + 20 + 50	1.87	1.87	4.67	-	1.6	8.6	9.1	370	2060	3000	9.6	9.1	8.8
	20 + 20 + 60	1.68	1.68	5.04	-	1.6	8.6	9.1	370	2060	3000	9.6	9.1	8.8
	20 + 25 + 25	2.34	2.93	2.93	-	1.6	8.6	9.1	370	2060	3000	9.6	9.1	8.8
	20 + 25 + 35	2.10	2.63	3.68	-	1.6	8.6	9.1	370	2060	3000	9.6	9.1	8.8
	20 + 25 + 50	1.77	2.21	4.42	-	1.6	8.6	9.1	370	2060	3000	9.6	9.1	8.8
	20 + 25 + 60	1.60	2.00	4.80	-	1.6	8.6	9.1	370	2060	3000	9.6	9.1	8.8
	20 + 35 + 35	1.87	3.27	3.27	-	1.6	8.6	9.1	370	2060	3000	9.6	9.1	8.8
	20 + 35 + 50	1.60	2.80	4.00	-	1.6	8.6	9.1	370	2060	3000	9.6	9.1	8.8
3 unito	20 + 35 + 60	1.46	2.56	4.38	-	1.6	8.6	9.1	370	2060	3000	9.6	9.1	8.8
units	20 + 50 + 50	1.40	3.50	3.50	-	1.6	8.6	9.1	370	2060	3000	9.6	9.1	8.8
	25 + 25 + 25	2.80	2.80	2.80	-	1.6	8.6	9.1	370	2060	3000	9.6	9.1	8.8
	25 + 25 + 35	2.47	2.47	3.46	-	1.6	8.6	9.1	370	2060	3000	9.6	9.1	8.8
	25 + 25 + 50	2.10	2.10	4.20	-	1.6	8.6	9.1	370	2060	3000	9.6	9.1	8.8
	25 + 25 + 60	1.91	1.91	4.58	-	1.6	8.6	9.1	370	2060	3000	9.6	9.1	8.8
	25 + 35 + 35	2.21	3.09	3.09	-	1.6	8.6	9.1	370	2060	3000	9.6	9.1	8.8
	25 + 35 + 50	1.91	2.67	3.82	-	1.6	8.6	9.1	370	2060	3000	9.6	9.1	8.8
	25 + 35 + 60	1.75	2.45	4.20	-	1.6	8.6	9.1	370	2060	3000	9.6	9.1	8.8
	25 + 50 + 50	1.68	3.36	3.36	-	1.6	8.6	9.1	370	2060	3000	9.6	9.1	8.8
	35 + 35 + 35	2.80	2.80	2.80	-	1.6	8.6	9.1	370	2060	3000	9.6	9.1	8.8
	35 + 35 + 50	2.45	2.45	3.50	-	1.6	8.6	9.1	370	2060	3000	9.6	9.1	8.8
	20 + 20 + 20 + 20	2.15	2.15	2.15	2.15	1.7	8.6	9.4	350	1750	3000	8.1	7.8	7.4
	20 + 20 + 20 + 25	2.02	2.02	2.02	2.53	1.7	8.6	9.4	350	1750	3000	8.1	7.8	7.4
	20 + 20 + 20 + 35	1.81	1.81	1.81	3.17	1.7	8.6	9.4	350	1750	3000	8.1	7.8	7.4
	20 + 20 + 20 + 50	1.56	1.56	1.56	3.91	1.7	8.6	9.4	350	1750	3000	8.1	7.8	7.4
	20 + 20 + 20 + 60	1.43	1.43	1.43	4.30	1.7	8.6	9.4	350	1750	3000	8.1	7.8	7.4
	20 + 20 + 25 + 25	1.91	1.91	2.39	2.39	1.7	8.6	9.4	350	1750	3000	8.1	7.8	7.4
	20 + 20 + 25 + 35	1.72	1.72	2.15	3.01	1.7	8.6	9.4	350	1750	3000	8.1	7.8	7.4
	20 + 20 + 25 + 50	1.50	1.50	1.87	3.74	1.7	8.6	9.4	350	1750	3000	8.1	7.8	7.4
	20 + 20 + 25 + 60	1.38	1.38	1.72	4.13	1.7	8.6	9.4	350	1750	3000	8.1	7.8	7.4
4	20 + 20 + 35 + 35	1.56	1.56	2.74	2.74	1.7	8.6	9.4	350	1750	3000	8.1	7.8	7.4
units	20 + 20 + 35 + 50	1.38	1.38	2.41	3.44	1.7	8.6	9.4	350	1750	3000	8.1	7.8	7.4
	20 + 25+ 25 + 25	1.81	2.26	2.26	2.26	1.7	8.6	9.4	350	1750	3000	8.1	7.8	7.4
	20 + 25 + 25 + 35	1.64	2.05	2.05	2.87	1.7	8.6	9.4	350	1750	3000	8.1	7.8	7.4
	20 + 25 + 25 + 50	1.43	1.79	1.79	3.58	1.7	8.6	9.4	350	1750	3000	8.1	7.8	7.4
	20 + 25 + 35 + 35	1.50	1.87	2.62	2.62	1.7	8.6	9.4	350	1750	3000	8.1	7.8	7.4
	20 + 35 + 35 + 35	1.38	2.41	2.41	2.41	1.7	8.6	9.4	350	1750	3000	8.1	7.8	7.4
	25 + 25 + 25 + 25	2.15	2.15	2.15	2.15	1.7	8.6	9.4	350	1750	3000	8.1	7.8	7.4
	25 + 25 + 25 + 35	1.95	1.95	1.95	2.74	1.7	8.6	9.4	350	1750	3000	8.1	7.8	7.4
	25 + 25 + 25 + 50	1.72	1.72	1.72	3.44	1.7	8.6	9.4	350	1750	3000	8.1	7.8	7.4
	25 + 25 + 35 + 35	1.79	1.79	2.51	2.51	1.7	8.6	9.4	350	1750	3000	8.1	7.8	7.4

## (b) Indoor unit except SRK\*\*ZSX-W models only

### <Cooling>

Indoor unit combination				Coolin	g capacit	ty (kW)			Power	consumpt	ion (W)	Standard current (A)		
		Ind	oor unit c	capacity (	kW)	Tota	l capacity	(kW)	Min.	Standard	Max	220V	230V	240V
		Α	В	С	D	Min.	Standard	Max.	iviin.	Standard	Max.	2200	2300	2400
	20	2.0	-	-	-	1.8	2.0	2.7	480	530	950	2.5	2.4	2.3
	25	2.5	-	-	-	1.8	2.5	3.2	480	730	1080	3.5	3.3	3.2
1	35	3.5	-	-	-	1.8	3.5	3.7	480	1120	1240	5.2	5.0	4.8
unit	50	5.0	-	-	-	1.8	5.0	5.8	480	1710	2100	7.9	7.5	7.2
	60	6.0	-	-	-	1.8	6.0	6.7	480	2140	2700	9.8	9.4	9.0
	71	7.1	-	-	-	1.8	7.1	7.2	480	2430	2830	11.2	10.7	10.2
	20 + 20	2.00	2.00	-	-	3.0	4.0	5.8	550	930	1910	4.4	4.2	4.0
	20 + 25	2.00	2.50	-	-	3.0	4.5	6.1	550	1170	2060	5.5	5.2	5.0
	20 + 35	2.00	3.50	-	-	3.0	5.5	6.6	550	1590	2320	7.3	7.0	6.7
	20 + 50	1.94	4.86	-	-	3.0	7.1	7.3	550	2340	2750	10.7	10.3	9.8
	20 + 60	1.70	5.10	-	-	3.0	7.1	7.3	550	2340	2750	10.7	10.3	9.8
	20 + 71	1.60	5.50	-	-	3.0	7.1	7.3	550	2340	2750	10.7	10.3	9.8
	25 + 25	2.50	2.50	-	-	3.0	5.0	6.5	550	1360	2270	6.3	6.0	5.8
	25 + 35	2.46	3.44	-	-	3.0	5.9	6.8	550	1780	2470	8.2	7.8	7.5
2	25 + 50	2.27	4.53	-	-	3.0	7.1	7.3	550	2340	2750	10.7	10.3	9.8
2 units	25 + 60	2.00	4.80	-	-	3.0	7.1	7.3	550	2340	2750	10.7	10.3	9.8
	25 + 71	1.80	5.30	-	-	3.0	7.1	7.3	550	2340	2750	10.7	10.3	9.8
	35 + 35	3.40	3.40	-	-	3.0	7.1	7.3	550	2340	2750	10.7	10.3	9.8
	35 + 50	2.80	4.00	-	-	3.0	7.1	7.3	550	2340	2750	10.7	10.3	9.8
	35 + 60	2.51	4.29	-	-	3.0	7.1	7.3	550	2340	2750	10.7	10.3	9.8
-	35 + 71	2.30	4.80	-	-	3.0	7.1	7.3	550	2340	2750	10.7	10.3	9.8
	50 + 50	3.40	3.40	-	-	3.0	7.1	7.3	550	2340	2750	10.7	10.3	9.8
	50 + 60	3.09	3.71	-	-	3.0	7.1	7.3	550	2340	2750	10.7	10.3	9.8
	50 + 71	2.90	4.20	-	-	3.0	7.1	7.3	550	2340	2750	10.7	10.3	9.8
	60 + 60	3.40	3.40	-	-	3.0	7.1	7.3	550	2340	2750	10.7	10.3	9.8
	20 + 20 + 20	2.00	2.00	2.00	-	3.7	6.0	7.8	670	1440	2750	6.6	6.4	6.1
	20 + 20 + 25	2.00	2.00	2.50	-	3.7	6.5	7.8	670	1630	2750	7.5	7.2	6.9
	20 + 20 + 35	1.84	1.84	3.22	-	3.7	7.1	7.8	670	1870	2750	8.6	8.2	7.9
	20 + 20 + 50	1.53	1.53	3.83	-	3.7	7.1	7.8	670	1870	2750	8.6	8.2	7.9
	20 + 20 + 60	1.38	1.38	4.14	-	3.7	7.1	7.8	670	1870	2750	8.6	8.2	7.9
	20 + 20 + 71	1.30	1.30	4.50	-	3.7	7.1	7.8	670	1870	2750	8.6	8.2	7.9
	20 + 25 + 25	1.94	2.43	2.43	-	3.7	7.1	7.8	670	1870	2750	8.6	8.2	7.9
	20 + 25 + 35	1.73	2.16	3.02	-	3.7	7.1	7.8	670	1870	2750	8.6	8.2	7.9
	20 + 25 + 50	1.45	1.82	3.63	-	3.7	7.1	7.8	670	1870	2750	8.6	8.2	7.9
	20 + 25 + 60	1.31	1.64	3.94	-	3.7	7.1	7.8	670	1870	2750	8.6	8.2	7.9
	20 + 25 + 71	1.20	1.50	4.30	-	3.7	7.1	7.8	670	1870	2750	8.6	8.2	7.9
	20 + 35 + 35	1.53	2.68	2.68	-	3.7	7.1	7.8	670	1870	2750	8.6	8.2	7.9
0	20 + 35 + 50	1.31	2.30	3.29	-	3.7	7.1	7.8	670	1870	2750	8.6	8.2	7.9
3 units	20 + 35 + 60	1.20	2.10	3.60	-	3.7	7.1	7.8	670	1870	2750	8.6	8.2	7.9
unito	20 + 35 + 71	1.10	2.00	4.00	-	3.7	7.1	7.8	670	1870	2750	8.6	8.2	7.9
	20 + 50 + 50	1.15	2.88	2.88	-	3.7	7.1	7.8	670	1870	2750	8.6	8.2	7.9
	25 + 25 + 25	2.30	2.30	2.30	-	3.7	7.1	7.8	670	1870	2750	8.6	8.2	7.9
	25 + 25 + 35	2.03	2.03	2.84	-	3.7	7.1	7.8	670	1870	2750	8.6	8.2	7.9
	25 + 25 + 50	1.73	1.73	3.45	-	3.7	7.1	7.8	670	1870	2750	8.6	8.2	7.9
	25 + 25 + 60	1.57	1.57	3.76	-	3.7	7.1	7.8	670	1870	2750	8.6	8.2	7.9
	25 + 25 + 71	1.50	1.50	4.20	-	3.7	7.1	7.8	670	1870	2750	8.6	8.2	7.9
	25 + 35 + 35	1.82	2.54	2.54	-	3.7	7.1	7.8	670	1870	2750	8.6	8.2	7.9
	25 + 35 + 50	1.57	2.20	3.14	-	3.7	7.1	7.8	670	1870	2750	8.6	8.2	7.9
	25 + 35 + 60	1.44	2.01	3.45	-	3.7	7.1	7.8	670	1870	2750	8.6	8.2	7.9
	25 + 50 + 50	1.38	2.76	2.76	-	3.7	7.1	7.8	670	1870	2750	8.6	8.2	7.9
	35 + 35 + 35	2.30	2.30	2.30	-	3.7	7.1	7.8	670	1870	2750	8.6	8.2	7.9
	35 + 35 + 50	2.01	2.01	2.88	-	3.7	7.1	7.8	670	1870	2750	8.6	8.2	7.9

<Cooling>

				Coolin	g capacit	ty (kW)			Power	consumpt	tion (W)	Stand	lard curre	ent (A)
Indoor combir		Ind	oor unit c	apacity (	kW)	Tota	I capacity	(kW)	Min.	Standard	Max.	220V	230V	240V
		Α	В	С	D	Min.	Standard	Max.	IVIII.	Stanuaru	wax.	2200	230 V	2400
	20 + 20 + 20 + 20	1.73	1.73	1.73	1.73	4.4	7.1	8.3	890	1780	2750	8.2	7.8	7.5
	20 + 20 + 20 + 25	1.62	1.62	1.62	2.03	4.4	7.1	8.3	890	1780	2750	8.2	7.8	7.5
	20 + 20 + 20 + 35	1.49	1.49	1.49	2.62	4.4	7.1	8.3	890	1780	2750	8.2	7.8	7.5
	20 + 20 + 20 + 50	1.29	1.29	1.29	3.23	4.4	7.1	8.3	890	1780	2750	8.2	7.8	7.5
	20 + 20 + 20 + 60	1.18	1.18	1.18	3.55	4.4	7.1	8.3	890	1780	2750	8.2	7.8	7.5
	20 + 20 + 25 + 25	1.53	1.53	1.92	1.92	4.4	7.1	8.3	890	1780	2750	8.2	7.8	7.5
	20 + 20 + 25 + 35	1.42	1.42	1.78	2.49	4.4	7.1	8.3	890	1780	2750	8.2	7.8	7.5
	20 + 20 + 25 + 50	1.23	1.23	1.54	3.09	4.4	7.1	8.3	890	1780	2750	8.2	7.8	7.5
	20 + 20 + 25 + 60	1.14	1.14	1.42	3.41	4.4	7.1	8.3	890	1780	2750	8.2	7.8	7.5
4	20 + 20 + 35 + 35	1.29	1.29	2.26	2.26	4.4	7.1	8.3	890	1780	2750	8.2	7.8	7.5
units	20 + 20 + 35 + 50	1.14	1.14	1.99	2.84	4.4	7.1	8.3	890	1780	2750	8.2	7.8	7.5
	20 + 25 + 25 + 25	1.49	1.87	1.87	1.87	4.4	7.1	8.3	890	1780	2750	8.2	7.8	7.5
	20 + 25 + 25 + 35	1.35	1.69	1.69	2.37	4.4	7.1	8.3	890	1780	2750	8.2	7.8	7.5
	20 + 25 + 25 + 50	1.18	1.48	1.48	2.96	4.4	7.1	8.3	890	1780	2750	8.2	7.8	7.5
	20 + 25 + 35 + 35	1.23	1.54	2.16	2.16	4.4	7.1	8.3	890	1780	2750	8.2	7.8	7.5
	20 + 35 + 35 + 35	1.14	1.99	1.99	1.99	4.4	7.1	8.3	890	1780	2750	8.2	7.8	7.5
	25 + 25 + 25 + 25	1.78	1.78	1.78	1.78	4.4	7.1	8.3	890	1780	2750	8.2	7.8	7.5
	25 + 25 + 25 + 35	1.61	1.61	1.61	2.26	4.4	7.1	8.3	890	1780	2750	8.2	7.8	7.5
	25 + 25 + 25 + 50	1.42	1.42	1.42	2.84	4.4	7.1	8.3	890	1780	2750	8.2	7.8	7.5
	25 + 25 + 35 + 35	1.48	1.48	2.07	2.07	4.4	7.1	8.3	890	1780	2750	8.2	7.8	7.5

	_			Heatin	ig capacit	y (kW)			Power	consumpt	ion (W)	Stand	lard curre	nt (A)
Indoor combir		Ind	oor unit c	apacity (	kW)	Tota	I capacity	(kW)	Min.	Standard	Max.	220V	230V	240V
		Α	В	С	D	Min.	Standard	Max.	wiin.	Stanuaru	wax.	2200	2300	240 V
	20	3.0	-	-	-	1.1	3.0	3.5	390	1060	1330	5.0	4.8	4.6
	25	3.4	-	-	-	1.1	3.4	4.0	390	1220	1510	5.7	5.5	5.2
1	35	4.5	-	-	-	1.1	4.5	4.8	390	1510	1790	7.0	6.7	6.4
unit	50	5.8	-	-	-	1.1	5.8	6.2	390	1950	2310	9.0	8.7	8.3
	60	6.8	-	-	-	1.1	6.8	7.1	390	2240	2660	10.4	9.9	9.5
	71	8.0	-	-	-	1.1	8.0	8.1	390	2740	3000	12.7	12.2	11.6
	20 + 20	2.70	2.70	-	-	1.5	5.4	7.0	350	1370	1870	6.4	6.1	5.9
	20 + 25	2.62	3.28	-	-	1.5	5.9	7.3	350	1560	2130	7.3	6.9	6.7
	20 + 35	2.51	4.39	-	-	1.5	6.9	7.9	350	1950	2650	9.0	8.7	8.3
	20 + 50	2.34	5.86	-	-	1.5	8.6	8.7	350	2460	3000	11.4	10.9	10.5
	20 + 60	2.05	6.15	-	-	1.5	8.6	8.7	350	2460	3000	11.4	10.9	10.5
	20 + 71	1.90	6.70	-	-	1.5	8.6	8.7	350	2460	3000	11.4	10.9	10.5
	25 + 25	3.20	3.20	-	-	1.5	6.4	7.7	350	1740	2480	8.1	7.7	7.4
	25 + 35	3.08	4.32	-	-	1.5	7.4	8.2	350	2130	2910	9.9	9.4	9.1
	25 + 50	2.73	5.47	-	-	1.5	8.6	8.7	350	2460	3000	11.4	10.9	10.5
2 units	25 + 60	2.41	5.79	-	-	1.5	8.6	8.7	350	2460	3000	11.4	10.9	10.5
unito	25 + 71	1.90	6.70	-	-	1.5	8.6	8.7	350	2460	3000	11.4	10.9	10.5
	35 + 35	4.10	4.10	-	-	1.5	8.6	8.7	350	2460	3000	11.4	10.9	10.5
	35 + 50	3.38	4.82	-	-	1.5	8.6	8.7	350	2460	3000	11.4	10.9	10.5
	35 + 60	3.02	5.18	-	-	1.5	8.6	8.7	350	2460	3000	11.4	10.9	10.5
	35 + 71	1.90	6.70	-	-	1.5	8.6	8.7	350	2460	3000	11.4	10.9	10.5
	50 + 50	4.10	4.10	-	-	1.5	8.6	8.7	350	2460	3000	11.4	10.9	10.5
	50 + 60	3.73	4.47	-	-	1.5	8.6	8.7	350	2460	3000	11.4	10.9	10.5
	50 + 71	1.90	6.70	-	-	1.5	8.6	8.7	350	2460	3000	11.4	10.9	10.5
	60 + 60	4.10	4.10	-	-	1.5	8.6	8.7	350	2460	3000	11.4	10.9	10.5

Indoor	unit			Heatin	g capaci	ty (kW)			Power	consumpt	tion (W)	Stanc	lard curre	nt (A)
combin		Ind	oor unit c	apacity (	kW)	Tota	I capacity	(kW)	Min.	Standard	Max.	220V	230V	240V
		Α	В	С	D	Min.	Standard	Max.		Standard	Max.	2200	230 V	2401
	20 + 20 + 20	2.57	2.57	2.57	-	1.6	7.7	8.9	370	1870	3000	8.7	8.3	8.0
	20 + 20 + 25	2.46	2.46	3.08	-	1.6	8.0	8.9	370	1970	3000	9.1	8.7	8.4
	20 + 20 + 35	2.24	2.24	3.92	-	1.6	8.6	8.9	370	2410	3000	11.2	10.7	10.2
	20 + 20 + 50	1.87	1.87	4.67	-	1.6	8.6	8.9	370	2410	3000	11.2	10.7	10.2
	20 + 20 + 60	1.68	1.68	5.04	-	1.6	8.6	8.9	370	2410	3000	11.2	10.7	10.2
	20 + 20 + 71	1.50	1.50	5.50	-	1.6	8.6	8.9	370	2410	3000	11.2	10.7	10.2
	20 + 25 + 25	2.34	2.93	2.93	-	1.6	8.6	8.9	370	2410	3000	11.2	10.7	10.2
	20 + 25 + 35	2.10	2.63	3.68	-	1.6	8.6	8.9	370	2410	3000	11.2	10.7	10.2
	20 + 25 + 50	1.77	2.21	4.42	-	1.6	8.6	8.9	370	2410	3000	11.2	10.7	10.2
	20 + 25 + 60	1.60	2.00	4.80	-	1.6	8.6	8.9	370	2410	3000	11.2	10.7	10.2
	20 + 25 + 71	1.50	1.90	5.30	-	1.6	8.6	8.9	370	2410	3000	11.2	10.7	10.2
	20 + 35 + 35	1.87	3.27	3.27	-	1.6	8.6	8.9	370	2410	3000	11.2	10.7	10.2
3	20 + 35 + 50	1.60	2.80	4.00	-	1.6	8.6	8.9	370	2410	3000	11.2	10.7	10.2
units	20 + 35 + 60	1.46	2.56	4.38	-	1.6	8.6	8.9	370	2410	3000	11.2	10.7	10.2
	20 + 35 + 71	1.40	2.40	4.80	-	1.6	8.6	8.9	370	2410	3000	11.2	10.7	10.2
	20 + 50 + 50	1.40	3.50	3.50	-	1.6	8.6	8.9	370	2410	3000	11.2	10.7	10.2
	25 + 25 + 25	2.80	2.80	2.80	-	1.6	8.6	8.9	370	2410	3000	11.2	10.7	10.2
	25 + 25 + 35	2.47	2.47	3.46	-	1.6	8.6	8.9	370	2410	3000	11.2	10.7	10.2
	25 + 25 + 50	2.10	2.10	4.20	-	1.6	8.6	8.9	370	2410	3000	11.2	10.7	10.2
	25 + 25 + 60	1.91	1.91	4.58	-	1.6	8.6	8.9	370	2410	3000	11.2	10.7	10.2
	25 + 25 + 71	1.80	1.80	5.00	-	1.6	8.6	8.9	370	2410	3000	11.2	10.7	10.2
	25 + 35 + 35	2.21	3.09	3.09	-	1.6	8.6	8.9	370	2410	3000	11.2	10.7	10.2
	25 + 35 + 50	1.91	2.67	3.82	-	1.6	8.6	8.9	370	2410	3000	11.2	10.7	10.2
	25 + 35 + 60	1.75	2.45	4.20	-	1.6	8.6	8.9	370	2410	3000	11.2	10.7	10.2
	25 + 50 + 50	1.68	3.36	3.36	-	1.6	8.6	8.9	370	2410	3000	11.2	10.7	10.2
	35 + 35 + 35	2.80	2.80	2.80	-	1.6	8.6	8.9	370	2410	3000	11.2	10.7	10.2
	35 + 35 + 50	2.45	2.45	3.50	-	1.6	8.6	8.9	370	2410	3000	11.2	10.7	10.2
	20 + 20 + 20 + 20	2.10	2.10	2.10	2.10	1.7	8.6	9.1	350	1990	3000	9.2	8.8	8.5
	20 + 20 + 20 + 25	1.98	1.98	1.98	2.47	1.7	8.6	9.1	350	1990	3000	9.2	8.8	8.5
	20 + 20 + 20 + 35	1.79	1.79	1.79	3.13	1.7	8.6	9.1	350	1990	3000	9.2	8.8	8.5
	20 + 20 + 20 + 50	1.56	1.56	1.56	3.91	1.7	8.6	9.1	350	1990	3000	9.2	8.8	8.5
	20 + 20 + 20 + 60	1.43	1.43	1.43	4.30	1.7	8.6	9.1	350	1990	3000	9.2	8.8	8.5
	20 + 20 + 25 + 25	1.89	1.89	2.36	2.36	1.7	8.6	9.1	350	1990	3000	9.2	8.8	8.5
	20 + 20 + 25 + 35 20 + 20 + 25 + 50	1.70 1.50	1.70 1.50	2.13 1.87	2.98 3.74	1.7 1.7	8.6 8.6	9.1 9.1	350 350	1990 1990	3000 3000	9.2 9.2	8.8 8.8	8.5 8.5
	20 + 20 + 25 + 50 20 + 20 + 25 + 60											9.2		
4	20 + 20 + 25 + 60 20 + 20 + 35 + 35	1.38	1.38 1.56	1.72 2.74	4.13 2.74	1.7	8.6 8.6	9.1	350 350	1990 1990	3000 3000	9.2	8.8 8.8	8.5 8.5
4 units	20 + 20 + 35 + 35 20 + 20 + 35 + 50	1.38	1.38	2.74	3.44	1.7	8.6	9.1	350	1990	3000	9.2	8.8	8.5
20	20 + 20 + 35 + 50 20 + 25 + 25 + 25	1.38	2.24	2.41	2.24	1.7	8.6	9.1	350	1990	3000	9.2	8.8	8.5
	20 + 25 + 25 + 25 20 + 25 + 25 + 35	1.64	2.24	2.24	2.24	1.7	8.6	9.1	350	1990	3000	9.2	8.8	8.5
	20 + 25 + 25 + 35 20 + 25 + 25 + 50	1.43	1.79	1.79	3.58	1.7	8.6	9.1	350	1990	3000	9.2	8.8	8.5
	20 + 25 + 25 + 35 20 + 25 + 35 + 35	1.43	1.87	2.62	2.62	1.7	8.6	9.1	350	1990	3000	9.2	8.8	8.5
	20 + 25 + 35 + 35 20 + 35 + 35 + 35	1.38	2.41	2.02	2.02	1.7	8.6	9.1	350	1990	3000	9.2	8.8	8.5
	20 + 35 + 35 + 35 25 + 25 + 25 + 25	2.13	2.13	2.13	2.41	1.7	8.6	9.1	350	1990	3000	9.2	8.8	8.5
	25 + 25 + 25 + 25 + 25 25 + 25 + 25 + 35	1.95	1.95	1.95	2.73	1.7	8.6	9.1	350	1990	3000	9.2	8.8	8.5
	25 + 25 + 25 + 35 25 + 25 + 25 + 50	1.72	1.72	1.72	3.44	1.7	8.6	9.1	350	1990	3000	9.2	8.8	8.5
	25 + 25 + 25 + 35 25 + 25 + 35 + 35	1.72	1.72	2.51	2.51	1.7	8.6	9.1	350	1990	3000	9.2	8.8	8.5

## (2) Model SCM80ZS-W

### (a) Indoor unit SRK\*\*ZSX-W models only

<Cooling>

امبدا				Coolin	ig capaci	ty (kW)			Power	consumpt	ion (W)	Stand	lard curre	nt (A)
Indoor combir		Ind	oor unit o	apacity (	kW)	Tota	I capacity	(kW)	D.C.	Chan david		0001/	0001/	0.4014
		Α	В	С	D	Min.	Standard	Max.	Min.	Standard	Max.	220V	230V	240V
	20	2.0	-	-	-	1.8	2.0	2.8	480	500	950	2.4	2.3	2.2
	25	2.5	-	-	-	1.8	2.5	3.4	480	680	1080	3.2	3.1	3.0
1 unit	35	3.5	-	-	-	1.8	3.5	3.9	480	1010	1240	4.7	4.5	4.3
unit	50	5.0	-	-	-	1.8	5.0	6.1	480	1530	2100	7.0	6.7	6.4
	60	6.0	-	-	-	1.8	6.0	7.0	480	1880	2700	8.6	8.3	7.9
	20 + 20	2.00	2.00	-	-	3.0	4.0	6.1	550	840	1910	4.0	3.8	3.6
	20 + 25	2.00	2.50	-	-	3.0	4.5	6.4	550	990	2060	4.6	4.4	4.3
	20 + 35	2.00	3.50	-	-	3.0	5.5	6.9	550	1320	2320	6.1	5.8	5.6
	20 + 50	1.97	4.93	-	-	3.0	7.1	8.5	550	1970	2830	9.0	8.7	8.3
	20 + 60	1.85	5.55	-	-	3.0	8.0	8.5	550	2420	2830	11.1	10.6	10.2
	25 + 25	2.50	2.50	-	-	3.0	5.0	6.8	550	1150	2270	5.4	5.1	4.9
	25 + 35	2.46	3.44	-	-	3.0	5.9	7.2	550	1560	2470	7.2	6.9	6.6
2 units	25 + 50	2.47	4.93	-	-	3.0	7.4	8.5	550	2090	2830	9.6	9.2	8.8
unito	25 + 60	2.18	5.22	-	-	3.0	8.0	8.5	550	2420	2830	11.1	10.6	10.2
	35 + 35	3.45	3.45	-	-	3.0	7.1	8.5	550	1970	2830	9.0	8.7	8.3
	35 + 50	3.05	4.35	-	-	3.0	8.0	8.5	550	2420	2830	11.1	10.6	10.2
	35 + 60	2.73	4.67	-	-	3.0	8.0	8.5	550	2420	2830	11.1	10.6	10.2
	50 + 50	3.70	3.70	-	-	3.0	8.0	8.5	550	2420	2830	11.1	10.6	10.2
	50 + 60	3.36	4.04	-	-	3.0	8.0	8.5	550	2420	2830	11.1	10.6	10.2
	60 + 60	3.70	3.70	-	-	3.0	8.0	8.5	550	2420	2830	11.1	10.6	10.2
	20 + 20 + 20	2.00	2.00	2.00	-	3.7	6.0	8.8	670	1240	2830	5.8	5.5	5.3
	20 + 20 + 25	2.00	2.00	2.50	-	3.7	6.5	8.8	670	1390	2830	6.4	6.1	5.9
	20 + 20 + 35	1.89	1.89	3.31	-	3.7	7.1	8.8	670	1520	2830	7.0	6.7	6.4
	20 + 20 + 50	1.73	1.73	4.33	-	3.7	8.0	8.8	670	1910	2830	8.8	8.4	8.0
	20 + 20 + 60	1.56	1.56	4.68	-	3.7	8.0	8.8	670	1910	2830	8.8	8.4	8.0
	20 + 25 + 25	1.94	2.43	2.43	-	3.7	7.1	8.8	670	1520	2830	7.0	6.7	6.4
	20 + 25 + 35	1.88	2.34	3.28	-	3.7	8.0	8.8	670	1910	2830	8.8	8.4	8.0
	20 + 25 + 50	1.64	2.05	4.11	-	3.7	8.0	8.8	670	1910	2830	8.8	8.4	8.0
	20 + 25 + 60	1.49	1.86	4.46	-	3.7	8.0	8.8	670	1910	2830	8.8	8.4	8.0
	20 + 35 + 35	1.73	3.03	3.03	-	3.7	8.0	8.8	670	1910	2830	8.8	8.4	8.0
	20 + 35 + 50	1.49	2.60	3.71	-	3.7	8.0	8.8	670	1910	2830	8.8	8.4	8.0
	20 + 35 + 60	1.36	2.37	4.07	-	3.7	8.0	8.8	670	1910	2830	8.8	8.4	8.0
	20 + 50 + 50	1.30	3.25	3.25	-	3.7	8.0	8.8	670	1910	2830	8.8	8.4	8.0
3 units	20 + 50 + 60	1.20	3.00	3.60	-	3.7	8.0	8.8	670	1910	2830	8.8	8.4	8.0
units	25 + 25 + 25	2.37	2.37	2.37	-	3.7	7.1	8.8	670	1520	2830	7.0	6.7	6.4
	25 + 25 + 35	2.29	2.29	3.21	-	3.7	8.0	8.8	670	1910	2830	8.8	8.4	8.0
	25 + 25 + 50	1.95	1.95	3.90	-	3.7	8.0	8.8	670	1910	2830	8.8	8.4	8.0
	25 + 25 + 60	1.77	1.77	4.25	-	3.7	8.0	8.8	670	1910	2830	8.8	8.4	8.0
	25 + 35 + 35	2.05	2.87	2.87	-	3.7	8.0	8.8	670	1910	2830	8.8	8.4	8.0
	25 + 35 + 50	1.77	2.48	3.55	-	3.7	8.0	8.8	670	1910	2830	8.8	8.4	8.0
	25 + 35 + 60	1.63	2.28	3.90	-	3.7	8.0	8.8	670	1910	2830	8.8	8.4	8.0
	25 + 50 + 50	1.56	3.12	3.12	-	3.7	8.0	8.8	670	1910	2830	8.8	8.4	8.0
	25 + 50 + 60	1.44	2.89	3.47	-	3.7	8.0	8.8	670	1910	2830	8.8	8.4	8.0
	35 + 35 + 35	2.60	2.60	2.60	-	3.7	8.0	8.8	670	1910	2830	8.8	8.4	8.0
	35 + 35 + 50	2.28	2.28	3.25	-	3.7	8.0	8.8	670	1910	2830	8.8	8.4	8.0
	35 + 35 + 60	2.10	2.10	3.60	-	3.7	8.0	8.8	670	1910	2830	8.8	8.4	8.0
	35 + 50 + 50	2.02	2.89	2.89	-	3.7	8.0	8.8	670	1910	2830	8.8	8.4	8.0

<Cooling>

				Coolin	ig capacit	ty (kW)			Power	consumpt	ion (W)	Stand	lard curre	nt (A)
Indoor combir		Ind	oor unit c	apacity (	kW)	Tota	I capacity	(kW)	Min	Chandard	Maria	0001/	230V	04014
		Α	В	С	D	Min.	Standard	Max.	Min.	Standard	Max.	220V	2300	240V
	20 + 20 + 20 + 20	1.95	1.95	1.95	1.95	4.4	8.0	9.2	890	1700	2830	7.8	7.5	7.2
	20 + 20 + 20 + 25	1.84	1.84	1.84	2.29	4.4	8.0	9.2	890	1700	2830	7.8	7.5	7.2
	20 + 20 + 20 + 35	1.66	1.66	1.66	2.91	4.4	8.0	9.2	890	1700	2830	7.8	7.5	7.2
	20 + 20 + 20 + 50	1.44	1.44	1.44	3.59	4.4	8.0	9.2	890	1700	2830	7.8	7.5	7.2
	20 + 20 + 20 + 60	1.33	1.33	1.33	4.00	4.4	8.0	9.2	890	1700	2830	7.8	7.5	7.2
	20 + 20 + 25 + 25	1.76	1.76	2.19	2.19	4.4	8.0	9.2	890	1700	2830	7.8	7.5	7.2
	20 + 20 + 25 + 35	1.58	1.58	1.98	2.77	4.4	8.0	9.2	890	1700	2830	7.8	7.5	7.2
	20 + 20 + 25 + 50	1.37	1.37	1.72	3.43	4.4	8.0	9.2	890	1700	2830	7.8	7.5	7.2
	20 + 20 + 25 + 60	1.28	1.28	1.60	3.84	4.4	8.0	9.2	890	1700	2830	7.8	7.5	7.2
	20 + 20 + 35 + 35	1.44	1.44	2.51	2.51	4.4	8.0	9.2	890	1700	2830	7.8	7.5	7.2
	20 + 20 + 35 + 50	1.28	1.28	2.24	3.20	4.4	8.0	9.2	890	1700	2830	7.8	7.5	7.2
	20 + 20 + 35 + 60	1.19	1.19	2.07	3.56	4.4	8.0	9.2	890	1700	2830	7.8	7.5	7.2
4	20 + 25 + 25 + 25	1.66	2.08	2.08	2.08	4.4	8.0	9.2	890	1700	2830	7.8	7.5	7.2
units	20 + 25 + 25 + 35	1.50	1.88	1.88	2.63	4.4	8.0	9.2	890	1700	2830	7.8	7.5	7.2
	20 + 25 + 25 + 50	1.33	1.67	1.67	3.33	4.4	8.0	9.2	890	1700	2830	7.8	7.5	7.2
	20 + 25 + 25 + 60	1.23	1.54	1.54	3.69	4.4	8.0	9.2	890	1700	2830	7.8	7.5	7.2
	20 + 25 + 35 + 35	1.37	1.72	2.40	2.40	4.4	8.0	9.2	890	1700	2830	7.8	7.5	7.2
	20 + 25 + 35 + 50	1.23	1.54	2.15	3.08	4.4	8.0	9.2	890	1700	2830	7.8	7.5	7.2
	20 + 35 + 35 + 35	1.28	2.24	2.24	2.24	4.4	8.0	9.2	890	1700	2830	7.8	7.5	7.2
	25 + 25 + 25 + 25	1.98	1.98	1.98	1.98	4.4	8.0	9.2	890	1700	2830	7.8	7.5	7.2
	25 + 25 + 25 + 35	1.80	1.80	1.80	2.51	4.4	8.0	9.2	890	1700	2830	7.8	7.5	7.2
	25 + 25 + 25 + 50	1.60	1.60	1.60	3.20	4.4	8.0	9.2	890	1700	2830	7.8	7.5	7.2
	25 + 25 + 25 + 60	1.48	1.48	1.48	3.56	4.4	8.0	9.2	890	1700	2830	7.8	7.5	7.2
	25 + 25 + 35 + 35	1.67	1.67	2.33	2.33	4.4	8.0	9.2	890	1700	2830	7.8	7.5	7.2
	25 + 25 + 35 + 50	1.48	1.48	2.07	2.96	4.4	8.0	9.2	890	1700	2830	7.8	7.5	7.2
	25 + 35 + 35 + 35	1.54	2.15	2.15	2.15	4.4	8.0	9.2	890	1700	2830	7.8	7.5	7.2

Indee	unit			Heatin	ig capacit	y (kW)			Power	consumpt	ion (W)	Stand	lard curre	nt (A)
Indoor combir		Ind	oor unit o	apacity (	kW)	Tota	I capacity	(kW)	Min.	Standard	Max.	220V	230V	240V
		Α	В	С	D	Min.	Standard	Max.	win.	Standard	wax.	2200	2300	240 V
	20	3.0	-	-	-	1.1	3.0	3.7	390	840	1330	4.0	3.8	3.6
	25	3.4	-	-	-	1.1	3.4	4.2	390	1000	1510	4.7	4.5	4.3
1 unit	35	4.5	-	-	-	1.1	4.5	5.0	390	1330	1790	6.2	5.9	5.7
unit	50	5.8	-	-	-	1.1	5.8	6.5	390	1780	2310	8.3	7.9	7.6
	60	6.8	-	-	-	1.1	6.8	7.5	390	2100	2660	9.7	9.3	8.9
	20 + 20	2.70	2.70	-	-	1.5	5.4	7.4	350	1280	1870	6.0	5.7	5.5
	20 + 25	2.62	3.28	-	-	1.5	5.9	7.7	350	1410	2130	6.6	6.3	6.0
	20 + 35	2.51	4.39	-	-	1.5	6.9	8.3	350	1680	2650	7.8	7.5	7.1
	20 + 50	2.37	5.93	-	-	1.5	8.6	9.5	350	2100	3120	9.7	9.3	8.9
	20 + 60	2.08	6.23	-	-	1.5	9.3	9.5	350	2300	3120	10.7	10.2	9.8
	25 + 25	3.20	3.20	-	-	1.5	6.4	8.1	350	1540	2480	7.1	6.8	6.5
0	25 + 35	3.08	4.32	-	-	1.5	7.4	8.6	350	1810	2910	8.4	8.0	7.7
2 units	25 + 50	2.77	5.53	-	-	1.5	8.6	9.5	350	2100	3120	9.7	9.3	8.9
	25 + 60	2.44	5.86	-	-	1.5	9.3	9.5	350	2300	3120	10.7	10.2	9.8
	35 + 35	4.15	4.15	-	-	1.5	8.6	9.5	350	2100	3120	9.7	9.3	8.9
	35 + 50	3.42	4.88	-	-	1.5	9.3	9.5	350	2300	3120	10.7	10.2	9.8
	35 + 60	3.06	5.24	-	-	1.5	9.3	9.5	350	2300	3120	10.7	10.2	9.8
	50 + 50	4.15	4.15	-	-	1.5	9.3	9.5	350	2300	3120	10.7	10.2	9.8
	50 + 60	3.77	4.53	-	-	1.5	9.3	9.5	350	2300	3120	10.7	10.2	9.8
	60 + 60	4.15	4.15	-	-	1.5	9.3	9.5	350	2300	3120	10.7	10.2	9.8
	20 + 20 + 20	2.57	2.57	2.57	-	1.6	7.7	9.6	370	1830	3120	8.5	8.1	7.8
	20 + 20 + 25	2.46	2.46	3.08	-	1.6	8.0	9.6	370	1930	3120	9.0	8.6	8.2
	20 + 20 + 35	2.27	2.27	3.97	-	1.6	8.6	9.6	370	2060	3120	9.6	9.1	8.8
	20 + 20 + 50	2.00	2.00	5.00	-	1.6	9.3	9.6	370	2250	3120	10.4	10.0	9.6
	20 + 20 + 60	1.80	1.80	5.40	-	1.6	9.3	9.6	370	2250	3120	10.4	10.0	9.6
	20 + 25 + 25	2.34	2.93	2.93	-	1.6	8.6	9.6	370	2060	3120	9.6	9.1	8.8
	20 + 25 + 35	2.20	2.75	3.85	-	1.6	9.3	9.6	370	2250	3120	10.4	10.0	9.6
	20 + 25 + 50	1.89	2.37	4.74	-	1.6	9.3	9.6	370	2250	3120	10.4	10.0	9.6
	20 + 25 + 60	1.71	2.14	5.14	-	1.6	9.3	9.6	370	2250	3120	10.4	10.0	9.6
	20 + 35 + 35	2.00	3.50	3.50	-	1.6	9.3	9.6	370	2250	3120	10.4	10.0	9.6
	20 + 35 + 50	1.71	3.00	4.29	-	1.6	9.3	9.6	370	2250	3120	10.4	10.0	9.6
	20 + 35 + 60	1.57	2.74	4.70	-	1.6	9.3	9.6	370	2250	3120	10.4	10.0	9.6
3	20 + 50 + 50	1.50	3.75	3.75	-	1.6	9.3	9.6	370	2250	3120	10.4	10.0	9.6
units	20 + 50 + 60	1.38	3.46	4.15	-	1.6	9.3	9.6	370	2250	3120	10.4	10.0	9.6
	25 + 25 + 25	2.83	2.83	2.83	-	1.6	8.6	9.6	370	2060	3120	9.6	9.1	8.8
	25 + 25 + 35	2.65	2.65	3.71	-	1.6	9.3	9.6	370	2250	3120	10.4	10.0	9.6
	25 + 25 + 50	2.25	2.25	4.50	-	1.6	9.3	9.6	370	2250	3120	10.4	10.0	9.6
	25 + 25 + 60	2.05	2.05	4.91	-	1.6	9.3	9.6	370	2250	3120	10.4	10.0	9.6
	25 + 35 + 35	2.37	3.32	3.32	-	1.6	9.3	9.6	370	2250	3120	10.4	10.0	9.6
	25 + 35 + 50	2.05	2.86	4.09	-	1.6	9.3	9.6	370	2250	3120	10.4	10.0	9.6
	25 + 35 + 60	1.88	2.63	4.50	-	1.6	9.3	9.6	370	2250	3120	10.4	10.0	9.6
	25 + 50 + 50	1.80	3.60	3.60	-	1.6	9.3	9.6	370	2250	3120	10.4	10.0	9.6
	25 + 50 + 60	1.67	3.33	4.00	-	1.6	9.3	9.6	370	2250	3120	10.4	10.0	9.6
	35 + 35 + 35	3.00	3.00	3.00	-	1.6	9.3	9.6	370	2250	3120	10.4	10.0	9.6
	35 + 35 + 50	2.63	2.63	3.75	-	1.6	9.3	9.6	370	2250	3120	10.4	10.0	9.6
	35 + 35 + 60	2.42	2.42	4.15	-	1.6	9.3	9.6	370	2250	3120	10.4	10.0	9.6
	35 + 50 + 50	2.33	3.33	3.33	-	1.6	9.3	9.6	370	2250	3120	10.4	10.0	9.6

				Heatin	g capacit	y (kW)			Power	consumpt	ion (W)	Stand	lard curre	nt (A)
Indoor combir		Ind	oor unit c	apacity (	kW)	Tota	I capacity	(kW)	Min	Chandard	Maria	0001/	0001/	0401
		Α	В	С	D	Min.	Standard	max.	Min.	Standard	Max.	220V	230V	240V
	20 + 20 + 20 + 20	2.28	2.28	2.28	2.28	1.7	9.3	9.8	350	1950	3120	9.0	8.6	8.2
	20 + 20 + 20 + 25	2.14	2.14	2.14	2.68	1.7	9.3	9.8	350	1950	3120	9.0	8.6	8.2
	20 + 20 + 20 + 35	1.94	1.94	1.94	3.39	1.7	9.3	9.8	350	1950	3120	9.0	8.6	8.2
	20 + 20 + 20 + 50	1.67	1.67	1.67	4.18	1.7	9.3	9.8	350	1950	3120	9.0	8.6	8.2
	20 + 20 + 20 + 60	1.55	1.55	1.55	4.65	1.7	9.3	9.8	350	1950	3120	9.0	8.6	8.2
	20 + 20 + 25 + 25	2.04	2.04	2.56	2.56	1.7	9.3	9.8	350	1950	3120	9.0	8.6	8.2
	20 + 20 + 25 + 35	1.84	1.84	2.30	3.22	1.7	9.3	9.8	350	1950	3120	9.0	8.6	8.2
	20 + 20 + 25 + 50	1.62	1.62	2.02	4.04	1.7	9.3	9.8	350	1950	3120	9.0	8.6	8.2
	20 + 20 + 25 + 60	1.49	1.49	1.86	4.46	1.7	9.3	9.8	350	1950	3120	9.0	8.6	8.2
	20 + 20 + 35 + 35	1.67	1.67	2.93	2.93	1.7	9.3	9.8	350	1950	3120	9.0	8.6	8.2
	20 + 20 + 35 + 50	1.49	1.49	2.60	3.72	1.7	9.3	9.8	350	1950	3120	9.0	8.6	8.2
	20 + 20 + 35 + 60	1.38	1.38	2.41	4.13	1.7	9.3	9.8	350	1950	3120	9.0	8.6	8.2
4	20 + 25 + 25 + 25	1.94	2.42	2.42	2.42	1.7	9.3	9.8	350	1950	3120	9.0	8.6	8.2
units	20 + 25 + 25 + 35	1.75	2.19	2.19	3.07	1.7	9.3	9.8	350	1950	3120	9.0	8.6	8.2
	20 + 25 + 25 + 50	1.55	1.94	1.94	3.88	1.7	9.3	9.8	350	1950	3120	9.0	8.6	8.2
	20 + 25 + 25 + 60	1.43	1.79	1.79	4.29	1.7	9.3	9.8	350	1950	3120	9.0	8.6	8.2
	20 + 25 + 35 + 35	1.62	2.02	2.83	2.83	1.7	9.3	9.8	350	1950	3120	9.0	8.6	8.2
	20 + 25 + 35 + 50	1.43	1.79	2.50	3.58	1.7	9.3	9.8	350	1950	3120	9.0	8.6	8.2
	20 + 35 + 35 + 35	1.49	2.60	2.60	2.60	1.7	9.3	9.8	350	1950	3120	9.0	8.6	8.2
	25 + 25 + 25 + 25	2.30	2.30	2.30	2.30	1.7	9.3	9.8	350	1950	3120	9.0	8.6	8.2
	25 + 25 + 25 + 35	2.09	2.09	2.09	2.93	1.7	9.3	9.8	350	1950	3120	9.0	8.6	8.2
	25 + 25 + 25 + 50	1.86	1.86	1.86	3.72	1.7	9.3	9.8	350	1950	3120	9.0	8.6	8.2
	25 + 25 + 25 + 60	1.72	1.72	1.72	4.13	1.7	9.3	9.8	350	1950	3120	9.0	8.6	8.2
	25 + 25 + 35 + 35	1.94	1.94	2.71	2.71	1.7	9.3	9.8	350	1950	3120	9.0	8.6	8.2
	25 + 25 + 35 + 50	1.72	1.72	2.41	3.44	1.7	9.3	9.8	350	1950	3120	9.0	8.6	8.2
	25 + 35 + 35 + 35	1.79	2.50	2.50	2.50	1.7	9.3	9.8	350	1950	3120	9.0	8.6	8.2

### (b) Indoor unit except SRK\*\*ZSX-W models only

### <Cooling>

				Coolin	g capacit	ty (kW)			Power	consumpt	ion (W)	Stand	lard curre	nt (A)
Indoor combir		Ind	oor unit c	apacity (	kW)	Tota	al capacity	(kW)		Channelsand	Maria	0001/	0001/	0.401
combi	lation	Α	В	С	D	Min.	Standard	Max.	Min.	Standard	Max.	220V	230V	240\
	20	2.0	-	-	-	1.8	2.0	2.7	480	530	950	2.5	2.4	2.3
	25	2.5	-	-	-	1.8	2.5	3.2	480	730	1080	3.5	3.3	3.2
1	35	3.5	-	-	-	1.8	3.5	3.7	480	1120	1240	5.2	5.0	4.8
unit	50	5.0	-	-	-	1.8	5.0	5.8	480	1710	2100	7.9	7.5	7.2
	60	6.0	-	-	-	1.8	6.0	6.7	480	2140	2700	9.8	9.4	9.0
	71	7.1	-	-	-	1.8	7.1	7.2	480	2430	2830	11.2	10.7	10.2
	20 + 20	2.00	2.00	-	-	3.0	4.0	5.8	550	930	1910	4.4	4.2	4.0
	20 + 25	2.00	2.50	-	-	3.0	4.5	6.1	550	1170	2060	5.5	5.2	5.0
	20 + 35	2.00	3.50	-	-	3.0	5.5	6.6	550	1590	2320	7.3	7.0	6.7
	20 + 50	1.97	4.93	-	-	3.0	7.1	8.3	550	2340	2830	10.7	10.3	9.8
	20 + 60	1.85	5.55	-	-	3.0	8.0	8.3	550	2720	2830	12.5	11.9	11.4
	20 + 71	1.80	6.20	-	-	3.0	8.0	8.3	550	2720	2830	12.5	11.9	11.4
	25 + 25	2.50	2.50	-	-	3.0	5.0	6.5	550	1360	2270	6.3	6.0	5.8
	25 + 35	2.46	3.44	-	-	3.0	5.9	6.8	550	1780	2470	8.2	7.8	7.5
	25 + 50	2.47	4.93	-	-	3.0	7.4	8.3	550	2430	2830	11.2	10.7	10.2
2	25 + 60	2.18	5.22	-	-	3.0	8.0	8.3	550	2720	2830	12.5	11.9	11.4
units	25 + 71	2.10	5.90	-	-	3.0	8.0	8.3	550	2720	2830	12.5	11.9	11.4
	35 + 35	3.45	3.45	-	-	3.0	7.1	8.3	550	2340	2830	10.7	10.3	9.8
	35 + 50	3.05	4.35	-	-	3.0	8.0	8.3	550	2720	2830	12.5	11.9	11.4
	35 + 60	2.73	4.67	-	-	3.0	8.0	8.3	550	2720	2830	12.5	11.9	11.4
	35 + 71	2.60	5.40	-	-	3.0	8.0	8.3	550	2720	2830	12.5	11.9	11.4
	50 + 50	3.70	3.70	-	-	3.0	8.0	8.3	550	2720	2830	12.5	11.9	11.4
	50 + 60	3.36	4.04	-	-	3.0	8.0	8.3	550	2720	2830	12.5	11.9	11.4
	50 + 71	3.30	4.70	-	-	3.0	8.0	8.3	550	2720	2830	12.5	11.9	11.4
	60 + 60	3.70	3.70	-	-	3.0	8.0	8.3	550	2720	2830	12.5	11.9	11.4
	60 + 71	3.70	4.30	-	-	3.0	8.0	8.3	550	2720	2830	12.5	11.9	11.4
	20 + 20 + 20	2.00	2.00	2.00	-	3.7	6.0	8.5	670	1440	2830	6.6	6.4	6.1
	20 + 20 + 25	2.00	2.00	2.50	-	3.7	6.5	8.5	670	1630	2830	7.5	7.2	6.9
	20 + 20 + 35	1.89	1.89	3.31	-	3.7	7.1	8.5	670	1870	2830	8.6	8.2	7.9
	20 + 20 + 50	1.73	1.73	4.33	-	3.7	8.0	8.5	670	2290	2830	10.5	10.1	9.6
	20 + 20 + 60	1.56	1.56	4.68	-	3.7	8.0	8.5	670	2290	2830	10.5	10.1	9.6
	20 + 20 + 71	1.40	1.40	5.10	-	3.7	8.0	8.5	670	2290	2830	10.5	10.1	9.6
	20 + 25 + 25	1.94	2.43	2.43	-	3.7	7.1	8.5	670	1870	2830	8.6	8.2	7.9
	20 + 25 + 35	1.88	2.34	3.28	-	3.7	8.0	8.5	670	2290	2830	10.5	10.1	9.6
	20 + 25 + 50	1.64	2.05	4.11	-	3.7	8.0	8.5	670	2290	2830	10.5	10.1	9.6
	20 + 25 + 60	1.49	1.86	4.46	-	3.7	8.0	8.5	670	2290	2830	10.5	10.1	9.6
	20 + 25 + 71	1.40	1.70	4.90	-	3.7	8.0	8.5	670	2290	2830	10.5	10.1	9.6
	20 + 35 + 35	1.73	3.03	3.03	-	3.7	8.0	8.5	670	2290	2830	10.5	10.1	9.6
	20 + 35 + 50	1.49	2.60	3.71	-	3.7	8.0	8.5	670	2290	2830	10.5	10.1	9.6
3	20 + 35 + 60	1.36	2.37	4.07	-	3.7	8.0	8.5	670	2290	2830	10.5	10.1	9.6
units	20 + 35 + 71	1.30	2.20	4.50	-	3.7	8.0	8.5	670	2290	2830	10.5	10.1	9.6
	20 + 50 + 50	1.30	3.25	3.25	-	3.7	8.0	8.5	670	2290	2830	10.5	10.1	9.6
	20 + 50 + 60	1.20	3.00	3.60	-	3.7	8.0	8.5	670	2290	2830	10.5	10.1	9.6
	25 + 25 + 25	2.37	2.37	2.37	-	3.7	7.1	8.5	670	1870	2830	8.6	8.2	7.9
	25 + 25 + 35	2.29	2.29	3.21	-	3.7	8.0	8.5	670	2290	2830	10.5	10.1	9.6
	25 + 25 + 50	1.95	1.95	3.90	-	3.7	8.0	8.5	670	2290	2830	10.5	10.1	9.6
	25 + 25 + 60	1.77	1.77	4.25	-	3.7	8.0	8.5	670	2290	2830	10.5	10.1	9.6
	25 + 25 + 71	1.70	1.70	4.70	-	3.7	8.0	8.5	670	2290	2830	10.5	10.1	9.6
	25 + 35 + 35	2.05	2.87	2.87	-	3.7	8.0	8.5	670	2290	2830	10.5	10.1	9.6
	25 + 35 + 50	1.77	2.48	3.55	-	3.7	8.0	8.5	670	2290	2830	10.5	10.1	9.6
	25 + 35 + 60	1.63	2.28	3.90	-	3.7	8.0	8.5	670	2290	2830	10.5	10.1	9.6
	25 + 35 + 71	1.50	2.20	4.30	-	3.7	8.0	8.5	670	2290	2830	10.5	10.1	9.6
	25 + 50 + 71 25 + 50 + 50	1.56	3.12	3.12	-	3.7	8.0	8.5	670	2290	2830	10.5	10.1	9.6
	25 + 50 + 50 25 + 50 + 60	1.44	2.89	3.47	-	3.7	8.0	8.5	670	2290	2830	10.5	10.1	9.6

<Cooling>

				Coolin	ig capaci	ty (kW)			Power	consumpt	ion (W)	Stand	lard curre	ent (A)
Indoor combin		Ind	oor unit c	apacity (	kW)	Tota	I capacity	(kW)		Ohan dand	Man	220V	230V	240V
		Α	В	С	D	Min.	Standard	Max.	Min.	Standard	Max.	2200	2300	2400
	35 + 35 + 35	2.60	2.60	2.60	-	3.7	8.0	8.5	670	2290	2830	10.5	10.1	9.6
3	35 + 35 + 50	2.28	2.28	3.25	-	3.7	8.0	8.5	670	2290	2830	10.5	10.1	9.6
units	35 + 35 + 60	2.10	2.10	3.60	-	3.7	8.0	8.5	670	2290	2830	10.5	10.1	9.6
	35 + 50 + 50	2.02	2.89	2.89	-	3.7	8.0	8.5	670	2290	2830	10.5	10.1	9.6
	20 + 20 + 20 + 20	1.95	1.95	1.95	1.95	4.4	8.0	8.7	890	2170	2830	10.0	9.5	9.1
	20 + 20 + 20 + 25	1.84	1.84	1.84	2.29	4.4	8.0	8.7	890	2170	2830	10.0	9.5	9.1
	20 + 20 + 20 + 35	1.66	1.66	1.66	2.91	4.4	8.0	8.7	890	2170	2830	10.0	9.5	9.1
	20 + 20 + 20 + 50	1.44	1.44	1.44	3.59	4.4	8.0	8.7	890	2170	2830	10.0	9.5	9.1
	20 + 20 + 20 + 60	1.33	1.33	1.33	4.00	4.4	8.0	8.7	890	2170	2830	10.0	9.5	9.1
	20 + 20 + 25 + 25	1.76	1.76	2.19	2.19	4.4	8.0	8.7	890	2170	2830	10.0	9.5	9.1
	20 + 20 + 25 + 35	1.58	1.58	1.98	2.77	4.4	8.0	8.7	890	2170	2830	10.0	9.5	9.1
	20 + 20 + 25 + 50	1.37	1.37	1.72	3.43	4.4	8.0	8.7	890	2170	2830	10.0	9.5	9.1
	20 + 20 + 25 + 60	1.28	1.28	1.60	3.84	4.4	8.0	8.7	890	2170	2830	10.0	9.5	9.1
	20 + 20 + 35 + 35	1.44	1.44	2.51	2.51	4.4	8.0	8.7	890	2170	2830	10.0	9.5	9.1
	20 + 20 + 35 + 50	1.28	1.28	2.24	3.20	4.4	8.0	8.7	890	2170	2830	10.0	9.5	9.1
	20 + 20 + 35 + 60	1.19	1.19	2.07	3.56	4.4	8.0	8.7	890	2170	2830	10.0	9.5	9.1
4	20 + 25 + 25 + 25	1.66	2.08	2.08	2.08	4.4	8.0	8.7	890	2170	2830	10.0	9.5	9.1
units	20 + 25 + 25 + 35	1.50	1.88	1.88	2.63	4.4	8.0	8.7	890	2170	2830	10.0	9.5	9.1
	20 + 25 + 25 + 50	1.33	1.67	1.67	3.33	4.4	8.0	8.7	890	2170	2830	10.0	9.5	9.1
	20 + 25 + 25 + 60	1.23	1.54	1.54	3.69	4.4	8.0	8.7	890	2170	2830	10.0	9.5	9.1
	20 + 25 + 35 + 35	1.37	1.72	2.40	2.40	4.4	8.0	8.7	890	2170	2830	10.0	9.5	9.1
	20 + 25 + 35 + 50	1.23	1.54	2.15	3.08	4.4	8.0	8.7	890	2170	2830	10.0	9.5	9.1
	20 + 35 + 35 + 35	1.28	2.24	2.24	2.24	4.4	8.0	8.7	890	2170	2830	10.0	9.5	9.1
	25 + 25 + 25 + 25	1.98	1.98	1.98	1.98	4.4	8.0	8.7	890	2170	2830	10.0	9.5	9.1
	25 + 25 + 25 + 35	1.80	1.80	1.80	2.51	4.4	8.0	8.7	890	2170	2830	10.0	9.5	9.1
	25 + 25 + 25 + 50	1.60	1.60	1.60	3.20	4.4	8.0	8.7	890	2170	2830	10.0	9.5	9.1
	25 + 25 + 25 + 60	1.48	1.48	1.48	3.56	4.4	8.0	8.7	890	2170	2830	10.0	9.5	9.1
	25 + 25 + 35 + 35	1.67	1.67	2.33	2.33	4.4	8.0	8.7	890	2170	2830	10.0	9.5	9.1
	25 + 25 + 35 + 50	1.48	1.48	2.07	2.96	4.4	8.0	8.7	890	2170	2830	10.0	9.5	9.1
	25 + 35 + 35 + 35	1.54	2.15	2.15	2.15	4.4	8.0	8.7	890	2170	2830	10.0	9.5	9.1

ام سا				Heatin	ig capacit	ty (kW)			Power	consumpt	ion (W)	Stand	lard curre	ent (A)
Indoor combir		Ind	oor unit o	apacity (	kW)	Tota	l capacity	(kW)	Min.	Standard	Max.	220V	230V	240
		Α	В	С	D	Min.	Standard	Max.	]	otanuaru	max.	2201	2001	2401
	20	3.0	-	-	-	1.1	3.0	3.5	390	1060	1330	5.0	4.8	4.6
	25	3.4	-	-	-	1.1	3.4	4.0	390	1220	1510	5.7	5.5	5.2
1	35	4.5	-	-	-	1.1	4.5	4.8	390	1510	1790	7.0	6.7	6.4
unit	50	5.8	-	-	-	1.1	5.8	6.2	390	1950	2310	9.0	8.7	8.3
	60	6.8	-	-	-	1.1	6.8	7.1	390	2240	2660	10.4	9.9	9.5
	71	8.0	-	-	-	1.1	8.0	8.1	390	2740	3120	12.7	12.2	11.6
	20 + 20	2.70	2.70	-	-	1.5	5.4	7.0	350	1370	1870	6.4	6.1	5.9
	20 + 25	2.62	3.28	-	-	1.5	5.9	7.3	350	1560	2130	7.3	6.9	6.7
	20 + 35	2.51	4.39	-	-	1.5	6.9	7.9	350	1930	2650	9.0	8.6	8.2
	20 + 50	2.37	5.93	-	-	1.5	8.6	9.4	350	2460	3120	11.4	10.9	10.5
	20 + 60	2.08	6.23	-	-	1.5	9.3	9.4	350	2650	3120	12.3	11.8	11.3
	20 + 71	2.00	7.30	-	-	1.5	9.3	9.4	350	2650	3120	12.3	11.8	11.3
	25 + 25	3.20	3.20	-	-	1.5	6.4	7.7	350	1740	2480	8.1	7.7	7.4
	25 + 35	3.08	4.32	-	-	1.5	7.4	8.2	350	2130	2910	9.9	9.4	9.1
	25 + 50	2.77 2.44	5.53	-	-	1.5	8.6	9.4 9.4	350	2460	3120 3120	11.4	10.9	10.5
2 units	25 + 60 25 + 71		5.86			1.5	9.3		350	2650		12.3	11.8	11.3
unito		2.40	6.90	-	-	1.5	9.3	9.4	350	2650	3120	12.3	11.8	11.3
	35 + 35	4.15	4.15	-	-	1.5	8.6	9.4	350	2460	3120	11.4	10.9	10.5
	35 + 50	3.42	4.88	-	-	1.5	9.3	9.4	350	2650	3120	12.3	11.8	11.3
	35 + 60	3.06	5.24	-	-	1.5	9.3	9.4	350	2650 2650	3120 3120	12.3	11.8	11.3
	35 + 71	3.10	6.20		-	1.5	9.3	9.4	350			12.3	11.8	
	50 + 50	4.15	4.15	-	-	1.5	9.3	9.4	350	2650	3120	12.3	11.8	11.3
	50 + 60	3.77	4.53	-	-	1.5	9.3	9.4	350	2650	3120	12.3	11.8	11.3
	50 + 71 60 + 60	3.80 4.15	5.50 4.15	-	-	1.5 1.5	9.3 9.3	9.4	350 350	2650 2650	3120 3120	12.3 12.3	11.8 11.8	11.3
	60 + 71	4.15	5.00	-	-	1.5	9.3	9.4	350	2650	3120	12.3	11.8	11.3
	20 + 20 + 20	2.57	2.57	2.57	-	1.6	7.7	9.5	370	1870	3120	8.7	8.3	8.0
	20 + 20 + 20 20 + 20 + 25	2.46	2.37	3.08	-	1.6	8.0	9.5	370	1970	3120	9.1	8.7	8.4
	20 + 20 + 35	2.27	2.27	3.97		1.6	8.6	9.5	370	2410	3120	11.2	10.7	10.2
	20 + 20 + 50	2.00	2.00	5.00	-	1.6	9.3	9.5	370	2600	3120	12.1	11.5	11.1
	20 + 20 + 60	1.80	1.80	5.40	_	1.6	9.3	9.5	370	2600	3120	12.1	11.5	11.1
	20 + 20 + 71	1.70	1.70	5.90	-	1.6	9.3	9.5	370	2600	3120	12.1	11.5	11.1
	20 + 25 + 25	2.34	2.93	2.93	-	1.6	8.6	9.5	370	2410	3120	11.2	10.7	10.2
	20 + 25 + 35	2.20	2.75	3.85	-	1.6	9.3	9.5	370	2600	3120	12.1	11.5	11.1
	20 + 25 + 50	1.89	2.37	4.74	-	1.6	9.3	9.5	370	2600	3120	12.1	11.5	11.1
	20 + 25 + 60	1.71	2.14	5.14	-	1.6	9.3	9.5	370	2600	3120	12.1	11.5	11.1
	20 + 25 + 71	1.60	2.00	5.70	-	1.6	9.3	9.5	370	2600	3120	12.1	11.5	11.1
	20 + 35 + 35	2.00	3.50	3.50	-	1.6	9.3	9.5	370	2600	3120	12.1	11.5	11.1
	20 + 35 + 50	1.71	3.00	4.29	-	1.6	9.3	9.5	370	2600	3120	12.1	11.5	11.1
3	20 + 35 + 60	1.57	2.74	4.70	-	1.6	9.3	9.5	370	2600	3120	12.1	11.5	11.1
units	20 + 35 + 71	1.50	2.60	5.20	-	1.6	9.3	9.5	370	2600	3120	12.1	11.5	11.1
	20 + 50 + 50	1.50	3.75	3.75	-	1.6	9.3	9.5	370	2600	3120	12.1	11.5	11.1
	20 + 50 + 60	1.38	3.46	4.15	-	1.6	9.3	9.5	370	2600	3120	12.1	11.5	11.1
	25 + 25 + 25	2.83	2.83	2.83	-	1.6	8.6	9.5	370	2410	3120	11.2	10.7	10.2
	25 + 25 + 35	2.65	2.65	3.71	-	1.6	9.3	9.5	370	2600	3120	12.1	11.5	11.1
	25 + 25 + 50	2.25	2.25	4.50	-	1.6	9.3	9.5	370	2600	3120	12.1	11.5	11.1
	25 + 25 + 60	2.05	2.05	4.91	-	1.6	9.3	9.5	370	2600	3120	12.1	11.5	11.1
	25 + 25 + 71	1.90	1.90	5.50	-	1.6	9.3	9.5	370	2600	3120	12.1	11.5	11.1
	25 + 35 + 35	2.37	3.32	3.32	-	1.6	9.3	9.5	370	2600	3120	12.1	11.5	11.1
	25 + 35 + 50	2.05	2.86	4.09	-	1.6	9.3	9.5	370	2600	3120	12.1	11.5	11.1
	25 + 35 + 60	1.88	2.63	4.50	-	1.6	9.3	9.5	370	2600	3120	12.1	11.5	11.1
	25 + 35 + 71	1.80	2.50	5.00	-	1.6	9.3	9.5	370	2600	3120	12.1	11.5	11.1
	25 + 50 + 50	1.80	3.60	3.60	-	1.6	9.3	9.5	370	2600	3120	12.1	11.5	11.1
	25 + 50 + 60	1.67	3.33	4.00	-	1.6	9.3	9.5	370	2600	3120	12.1	11.5	11.1

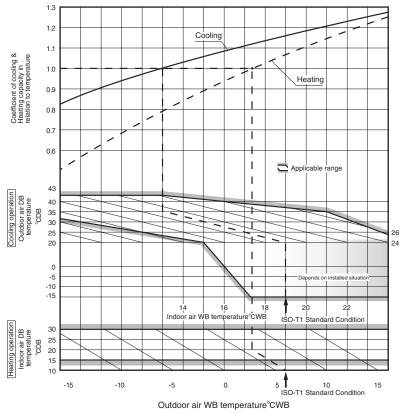
				Heatin	ig capacit	ty (kW)			Power	consumpt	ion (W)	Stand	lard curre	ent (A)
Indoor combin		Ind	oor unit c	apacity (	kW)	Tota	I capacity	(kW)	Min	Ctondord	Max	220V	230V	240V
		Α	В	С	D	Min.	Standard	Max.	Min.	Standard	Max.	2200	2300	2400
	35 + 35 + 35	3.00	3.00	3.00	-	1.6	9.3	9.5	370	2600	3120	12.1	11.5	11.1
3	35 + 35 + 50	2.63	2.63	3.75	-	1.6	9.3	9.5	370	2600	3120	12.1	11.5	11.1
units	35 + 35 + 60	2.42	2.42	4.15	-	1.6	9.3	9.5	370	2600	3120	12.1	11.5	11.1
	35 + 50 + 50	2.33	3.33	3.33	-	1.6	9.3	9.5	370	2600	3120	12.1	11.5	11.1
	20 + 20 + 20 + 20	2.28	2.28	2.28	2.28	1.7	9.3	9.6	350	2170	3120	10.1	9.6	9.2
	20 + 20 + 20 + 25	2.14	2.14	2.14	2.68	1.7	9.3	9.6	350	2170	3120	10.1	9.6	9.2
	20 + 20 + 20 + 35	1.94	1.94	1.94	3.39	1.7	9.3	9.6	350	2170	3120	10.1	9.6	9.2
	20 + 20 + 20 + 50	1.67	1.67	1.67	4.18	1.7	9.3	9.6	350	2170	3120	10.1	9.6	9.2
	20 + 20 + 20 + 60	1.55	1.55	1.55	4.65	1.7	9.3	9.6	350	2170	3120	10.1	9.6	9.2
	20 + 20 + 25 + 25	2.04	2.04	2.56	2.56	1.7	9.3	9.6	350	2170	3120	10.1	9.6	9.2
	20 + 20 + 25 + 35	1.84	1.84	2.30	3.22	1.7	9.3	9.6	350	2170	3120	10.1	9.6	9.2
	20 + 20 + 25 + 50	1.62	1.62	2.02	4.04	1.7	9.3	9.6	350	2170	3120	10.1	9.6	9.2
	20 + 20 + 25 + 60	1.49	1.49	1.86	4.46	1.7	9.3	9.6	350	2170	3120	10.1	9.6	9.2
	20 + 20 + 35 + 35	1.67	1.67	2.93	2.93	1.7	9.3	9.6	350	2170	3120	10.1	9.6	9.2
	20 + 20 + 35 + 50	1.49	1.49	2.60	3.72	1.7	9.3	9.6	350	2170	3120	10.1	9.6	9.2
	20 + 20 + 35 + 60	1.38	1.38	2.41	4.13	1.7	9.3	9.6	350	2170	3120	10.1	9.6	9.2
4	20 + 25 + 25 + 25	1.94	2.42	2.42	2.42	1.7	9.3	9.6	350	2170	3120	10.1	9.6	9.2
units	20 + 25 + 25 + 35	1.75	2.19	2.19	3.07	1.7	9.3	9.6	350	2170	3120	10.1	9.6	9.2
	20 + 25 + 25 + 50	1.55	1.94	1.94	3.88	1.7	9.3	9.6	350	2170	3120	10.1	9.6	9.2
	20 + 25 + 25 + 60	1.43	1.79	1.79	4.29	1.7	9.3	9.6	350	2170	3120	10.1	9.6	9.2
	20 + 25 + 35 + 35	1.62	2.02	2.83	2.83	1.7	9.3	9.6	350	2170	3120	10.1	9.6	9.2
	20 + 25 + 35 + 50	1.43	1.79	2.50	3.58	1.7	9.3	9.6	350	2170	3120	10.1	9.6	9.2
	20 + 35 + 35 + 35	1.49	2.60	2.60	2.60	1.7	9.3	9.6	350	2170	3120	10.1	9.6	9.2
	25 + 25 + 25 + 25	2.30	2.30	2.30	2.30	1.7	9.3	9.6	350	2170	3120	10.1	9.6	9.2
	25 + 25 + 25 + 35	2.09	2.09	2.09	2.93	1.7	9.3	9.6	350	2170	3120	10.1	9.6	9.2
	25 + 25 + 25 + 50	1.86	1.86	1.86	3.72	1.7	9.3	9.6	350	2170	3120	10.1	9.6	9.2
	25 + 25 + 25 + 60	1.72	1.72	1.72	4.13	1.7	9.3	9.6	350	2170	3120	10.1	9.6	9.2
	25 + 25 + 35 + 35	1.94	1.94	2.71	2.71	1.7	9.3	9.6	350	2170	3120	10.1	9.6	9.2
	25 + 25 + 35 + 50	1.72	1.72	2.41	3.44	1.7	9.3	9.6	350	2170	3120	10.1	9.6	9.2
	25 + 35 + 35 + 35	1.79	2.50	2.50	2.50	1.7	9.3	9.6	350	2170	3120	10.1	9.6	9.2

## **6. SELECTION CHARTS**

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

Net capacity = Capacity shown on specification × Correction factors as follows.

(1) Coefficient of cooling and heating capacity in relation to temperatures



(2) Correction of cooling and heating capacity in relation to one way length of refrigerant piping It is necessary to correct the cooling and heating capacity in relation to the one way piping length between the indoor and outdoor units.

Piping length [m]	7	10	15	20	25
Cooling	1.0	0.99	0.975	0.965	0.95
Heating	1.0	1.0	1.0	1.0	1.0

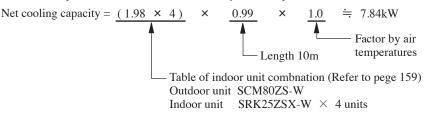
#### (3) Correction relative to frosting on outdoor heat exchanger during heating

In additions to the foregoing corrections (1), (2) the heating capacity needs to be adjusted also with respect to the frosting on the outdoor heat exchanger.

Air inlet temperature of outdoor unit in °CWB	-15	-10	-9	-7	-5	-3	-1	1	3	5 or more
Adjustment coefficient	0.95	0.95	0.94	0.93	0.91	0.88	0.86	0.87	0.92	1.00

#### How to obtain the cooling and heating capacity

Example : The net cooling capacity of the model SCM80ZS-W (SRK25ZSX-W : 4 units) with the piping length of 10m, indoor wet-bulb temperature at  $19.0^{\circ}$ C and outdoor dry-bulb temperature  $35^{\circ}$ C is



# 7. TABLE OF FUNCTIONS CONNECTED WIRED REMOTE CONTROL (RC-E5)

If wired remote control (option part) is connected to the following indoor units, some of the functions cannot be used. Please see following table for details.

• Wall mounted type : SRK \* \* ZSX-W, ZS-W

- Ceiling concealed type : SRR \* \*ZM-W

No.	Functions	SRK	SRR	Outline of function	$\Delta$ : Conditionally OK, $\times$ : N/2 Remarks
<u>NO.</u>	Several remote controls for 1unit	O SKK	O	Indoor unit can be connected max. 2 remote controls.	Kemarks
1	Several remote controls for funit	0	0		
2	Control of several indoor units	0	0	One remote control can be connected to max. of 16 indoor units.	
3	Central control	0	0	Signal of center mode from central control can be restricted to operation of remote control.	
4	Run/Stop	0	0		
5	Change operation mode	0	0	Display of operation mode range is automatically decided from the indoor unit's imformation.	
6	Adjust fan speed	0	0	Display of airflow range is automatically decided from the indoor unit's imformation.	
7	Auto swing of flap	0	×	Display of air flow direction ON/OFF is automatically decided from the indoor unit's imformation.	Flap control only. Louver cannot be controlled
8	Setting of air flow direction	×	×	Setting of air flow direction for indoor unit that can be changed air flow direction.	
9	Setting of temperture	Δ	Δ		Temperture range can be set from 18 degree to 30 degree. Carving $0.5^{\circ}$ C is rounded up.
10	Timer operation	0	0	Sleep timer mode, Off timer mode, On timer mode, Weekly timer mode.	Warm up timer and sleep control of on timer mode is impossible.
11	Ventilation control	×	×	Air infiltration can be controlled by the indoor unit that has this function.	RAC unit does not have this function.
12	Display of unit number	0	0	Display address number of remote control.	Address setted by SC-BIKN2-E for RAC
13	Service switch-1: Display of error data	Δ	Δ	Display and memorize the error code data that are checked finally.	Only error code is used in the RAC unit.
14	Service switch -2 display of operation data	Δ	Δ	Display operation data.	RAC unit can be displayed some data.
15	Trial run	0	0	Cooling operation signal is sent to the indoor unit.	
16	Forced operation of drain pump	×	×	Forced operation of drain pump is sent to the indoor unit.	
17	Setting of compressor frequency	0	0	Fixing compressor frequency.	
18	Quiet mode	×	×	On timer in order to start quiet mode.	RAC unit does not have this function.
19	Auto address change from remote control	×	×	Auto address can be changed from remote control.	RAC unit does not have this function.
20	Indoor unit's address set of master	×	×	Adapt control for 3 pipe system.	RAC unit does not have this function.
21	Filter reset	×	×	Turning off signal display of filter sign and sending reset signal of operating time.	RAC unit does not have this function.
22	Clear memory of error code in remote control	0	0	Reset memory that remote control has the error code.	
23	Clear memory of error code in the indoor unit	0	0	Reset memory of error for the indoor unit.	
24	Clear address in indoor unit	×	×	Reset memory of address for the indoor unit.	RAC unit does not have this function.
25	Reset CPU	0	0	Reset outdoor or indoor CPU.	
26	Function setting	Δ	Δ	It is possible to set the function of remote control and indoor unit.	RAC unit can be set a part of function.
27	Setting of temperature range	Δ	Δ	Set Max and Min temperature.	For RAC models, only the range from $18^{\circ}$ C to $30^{\circ}$ C is available.
28	External input	0	0	External input from CnT terminal can be switched between all unit operation and individual operation.	
29	Auto adjustment of static pressure	×	×	Change auto adjustment of static pressure.	RAC unit does not have this function.
30	Setting of static pressure	×	×	Displayed part blinks on and off when it recives a signal about auto adjustment of static pressure mode.	RAC unit does not have this function.
	Filter sign	×	×	Displays filter sign via signal from indoor unit when	RAC unit does not have this function.

## $\bigcirc : \bigcirc K \land : \bigcirc \bigcirc K \land X : \bigcirc M/A$

## 8. OPTION PARTS

8.1 Wired remote control

(1) Model RC-EX3A

## 1. Safety precautions

Please read this manual carefully before starting installation work to install the unit properly. Every one of the followings is important information to be observed strictly.

<b>MARNING</b>	Failure to follow these instructions properly may result in serious consequences such as death, severe injury, etc.
	Failure to follow these instructions properly may cause injury or property damage.

It could have serious consequences depending on the circumstances.

The following pictograms are used in the text.



Never do.



Always follow the instructions given.

Keep this manual at a safe place where you can consult with whenever necessary. Show this manual to installers when moving or repairing the unit. When the ownership of the unit is transferred, this manual should be given to a new owner.

	<u> </u> ∕∕.₩ARNING
0	Consult your dealer or a professional contractor to install the unit. Improper installation made on your own may cause electric shocks, fire or dropping of the unit.
	Installation work should be performed properly according to this installation manual. Improper installation work may result in electric shocks, fire or break-down.
	Be sure to use accessories and specified parts for installation work. Use of unspecified parts may result in drop, fire or electric shocks.
0	Install the unit properly to a place with sufficient strength to hold the weight. If the place is not strong enough, the unit may drop and cause injury.
0	Be sure to have the electrical wiring work done by qualified electrical installer, and use exclusive circuit. Power source with insufficient and improper work can cause electric shock and fire.
0	Shut OFF the main power source before starting electrical work. Otherwise, it could result in electric shocks, break-down or malfunction.
$\bigcirc$	<b>Do not modify the unit.</b> It could cause electric shocks, fire, or break-down.
0	Be sure to turn OFF the power circuit breaker before repairing/ inspecting the unit. Repairing/inspecting the unit with the power circuit breaker turned ON could cause electric shocks or injury.

	<u>∧</u> WARNING
$\bigcirc$	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.
$\bigcirc$	Do not install the unit where water vapor is generated excessively or condensation occurs. It could cause electric shocks, fire, or break-down.
$\bigcirc$	Do not use the unit in a place where it gets wet, such as laundry room. It could cause electric shocks, fire, or break-down.
$\bigcirc$	Do not operate the unit with wet hands. It could cause electric shocks.
$\bigcirc$	<b>Do not wash the unit with water.</b> It could cause electric shocks, fire, or break-down.
0	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.
0	Seal the inlet hole for remote control cable with putty. If dew, water, insect, etc. enters through the hole, it could cause electric shocks, fire or break-down. If dew or water enters the unit, it may cause screen display anomalies.
0	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.
0	<b>Do not leave the remote control with its upper case removed.</b> If dew, water, insect, etc. enters through the hole, it could cause electric shocks, fire or break-down.

<b>∆</b> CAUTION
<ul> <li>Do not install the remote control at following places.</li> <li>(1) It could cause break-down or deformation of remote control. <ul> <li>Where it is exposed to direct sunlight</li> <li>Where the ambient temperature becomes 0 °C or below, or 40 °C or above</li> <li>Where the surface is not flat</li> <li>Where the strength of installation area is insufficient</li> </ul> </li> <li>(2) Moisture may be attached to internal parts of the remote control, resulting in a display failure. <ul> <li>Place with high humidity where condensation occurs on the remote control</li> <li>Where the remote control gets wet</li> </ul> </li> <li>(3) Accurate room temperature may not be detected using the temperature sensor of the remote control. <ul> <li>Where the average room temperature cannot be detected</li> <li>Place near the equipment to generate heat</li> <li>Place affected by outside air in opening/closing the door</li> <li>Place exposed to direct sunlight or wind from air-conditioner</li> <li>Where the difference between wall and room temperature is large</li> </ul> </li> </ul>
To connect to a personal computer via USB, use the dedicated software. Do not connect other USB devices and the remote control at the same time. It could cause malfunction or break-down of the remote control/personal computer.

## 2. Accessories & Prepare on site

#### Following parts are provided.

Accessories R/C main unit, wood screw (Φ3.5 x 16) 2 pcs, Quick reference

Following parts are arranged at site. Prepare them according to the respective installation procedures.

Item name	Q'ty	Remark
Switch box For 1 piece or 2 pieces (JIS C 8340 or equivalent)	1	
Thin wall steel pipe for electric appliance directly on a wall. (JIS C 8305 or equivalent)	As required	These are not required when installing directly on a wall.
Lock nut, bushing (JIS C 8330 or equivalent)	As required	
Lacing (JIS C 8425 or equivalent)	As required	Necessary to run R/C cable on the wall.
Putty	Suitably	For sealing gaps
Molly anchor	As required	
R/C cable (0.3 mm <sup>2</sup> 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  $0.5 \text{ mm}^2$ . 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 <sup>2</sup> x 2 cores
≦ 300m	0.75 mm <sup>2</sup> x 2 cores
≦ 400m	1.25 mm <sup>2</sup> x 2 cores
≦ 600m	2.0 mm <sup>2</sup> x 2 cores

# 3. Installation place

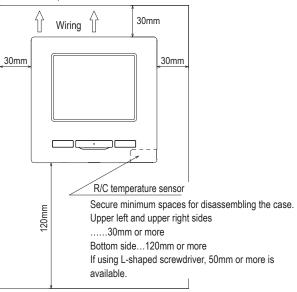
Secure the installation space shown in the figure.

For the installation method, "embedding wiring" or "exposing wiring" can be selected.

For the wiring direction, "Backward", "Upper center" or "Upper left" can be selected.

Determine the installation place in consideration of the installation method and wiring direction.

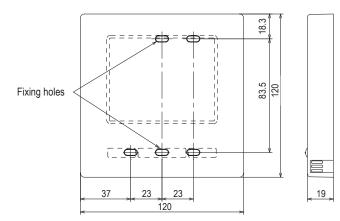
#### Installation space



# 4. Installation procedure

Perform installation and wiring work for the remote control according to the following procedure.

Dimensions (Viewed from front)



To disassemble the R/C case into the upper and lower pieces after assembling them once

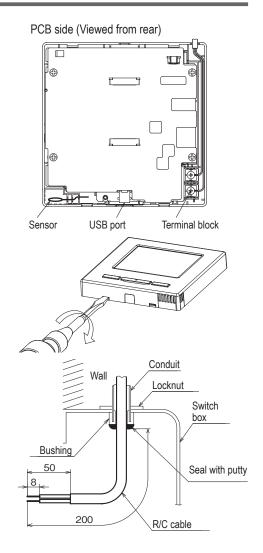
 Insert the tip of flat head screwdriver or the like in the recess at the lower part of R/C and twist it lightly to remove. It is recommended that the tip of the screwdriver be wrapped with tape to avoid damaging the case.

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

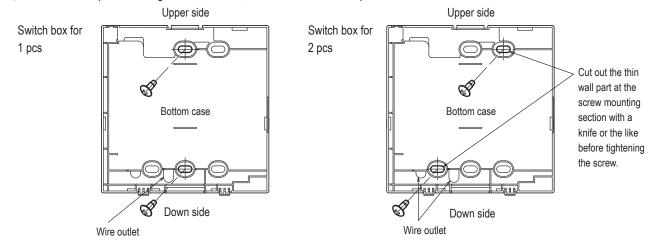
In case of embedding wiring

(When the wiring is retrieved "Backward")

① Embed the switch box and the R/C wires beforehand. Seal the inlet hole for the R/C wiring with putty

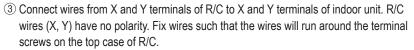


② When wires are passed through the bottom case, fix the bottom case at 2 places on the switch box.



Wiring hole on

bottom case



④ Install the upper case with care not to pinch wires of R/C.

### Cautions for wire connection

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

Tighten by hand  $(0.7 \text{ N} \cdot \text{m or less})$  the wire connection. If the wire is connected using an electric driver, it may cause failure or deformation.

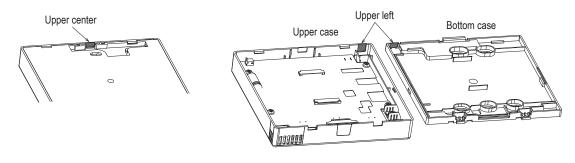
In case of exposing wiring

(When the wiring is taken out from the "upper center" or "upper left" of R/C)

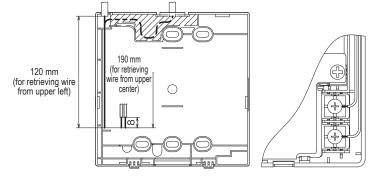
① Cut out the thin wall sections on the cases for the size of wire.

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

When taking the wiring out from the upper left, take care not to damage the PCB and not to leave any chips of cut thin wall inside.



- ② Fix the bottom R/C case on a flat surface with two wood screws.
- ③ In case of the upper center, pass the wiring behind the bottom case. (Hatched section)
- ④ Connect wires from X and Y terminals of R/C to X and Y terminals of indoor unit. R/C wires (X, Y) have no polarity. Fix wires such that the wires will run around the terminal screws on the top case of R/C.
- (5) Install the top case with care not to pinch wires of R/C.
- 6 Seal the area cut in 1 with putty.

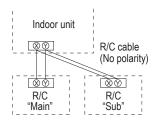


## 5. Main/Sub setting when more than one remote control are used

Up to two units of R/C can be used at the maximum for 1 indoor unit or 1 group.

One is main R/C and the other is sub R/C.

Operating range is different depending on the main or sub R/C.

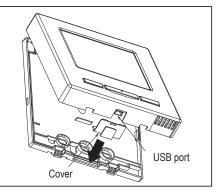


R/C operation			Main	Sub
Run/Stop, Ch Change flap speed operat	0	0		
		ergy-saving operation	0	0
Silent mode of	control		0	х
Useful	Individual f	ap control	0	х
functions	Anti draft se	etting	0	x
	Timer		0	0
	Favorite se	tting	0	0
	Weekly tim	er	0	x
	Home leave	0	x	
	External ve	0	0	
	Select the I	0	0	
	Silent mode control			x
Energy-savin	g setting		0	×
Filter	Filter sign r	eset	0	0
User setting	Initial settin	gs	0	0
	Administrator settings	Permission/ Prohibition setting	0	×
		Outdoor unit silent mode timer	0	×
		Setting temp. range	0	×
		Temp increment setting	0	×
		Set temp. display	0	0
		R/C display setting	0	0
		Change administrator password	0	0
		F1/F2 function setting	0	0

			o: operable ×: n	ot ope	erable
R/C operation	Main	Sub			
Service	Installation	Installation date		0	x
setting	settings	Company information		0	0
		Test run			x
		Static pr	essure adjustment	0	x
		Change	auto-address	0	х
		Address	setting of main IU	0	x
		IU back-	up function	0	х
		Motion s	ensor setting	0	×
	R/C function	Main/Su	b of R/C	0	0
	settings	Return a	iir temp.	0	×
		R/C sen	sor	0	×
		R/C sen	sor adjustment	0	×
		Operatio	on mode	0	×
		°C / °F			x
		Fan spe	0	×	
		External input		0	×
		Upper/lc	0	×	
		Left/right flap control			х
			Ventilation setting		
		Auto-res	0	×	
		Auto ten	0	×	
		Auto fan	0	×	
	IU settings Service &		0	x	
		IU address		0	0
	Maintenance	Next service date		0	x
		Operatio		0	x
		Error	Error history	0	0
		display	Display/erase anomaly data	0	×
			Reset periodical check	0	0
		Saving I	U settings	0	×
		Special	Erase IU address	0	х
		sėttings	CPU reset	0	0
			Restore of default setting	0	х
			Touch panel calibration	0	0
		Indoor u	nit capacity display	0	x

### Advice: Connection to personal computer

It can be set from a personal computer via the USB port (mini-B). Connect after removing the cover for USB port of upper case. Replace the cover after use. Special software is necessary for the connection. For details, view the web site.



### Advice: Initializing of password

Administrator password (for daily setting items) and

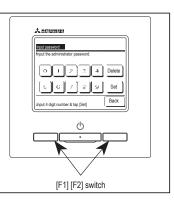
service password (for installation, test run and maintenance) are used.

• The administrator password at factory default is "0000". This setting can be changed (Refer to User's Manual).

If the administrator password is forgotten, it can be initialized by holding down the [F1] and [F2] switches together for five seconds on the administrator password input screen.

• Service password is "9999", which cannot be changed.

When the administrator password is input, the service password is also accepted.



#### Advice

When connecting two or more FDT/FDTC to one R/C, unify the panel type either to a panel with anti draft function or a standard panel.

### (2) Model RC-E5

## PJA012D730

Read together with indoor unit's installation manual.

	<b>∆WARNING</b>						
Fasten the wiring to the terminal.	e terminal securely and hold the cable securely so as not to apply unexpected stress	on the					
Loose connection or hold will cause abnormal heat generation or fire.							
Make sure the power source is turned off when electric wiring work.							
Otherwise, electric shock, malfunction and improper running may occur.							
Do not install the remote control at the following places in order to avoid malfunction.							
(1) Places exposed to direct sunlight (4) Hot surface or cold surface enough to generate condense							
(2) Places near heat devices (5) Places exposed to oil mist or steam directly							
(3) High humidity places (6) Uneven surface							
Do not leave the remo	te control without the upper case.	~					
In case the upper cac order to keep it away	e needs to be detached, protect the remote control with a packaging box or bag in rom water and dust.	$\bigcirc$					
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)						

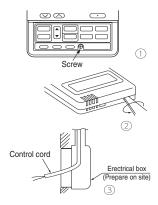
#### Installation procedure

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

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

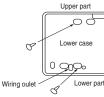
#### [In case of embedding cord]

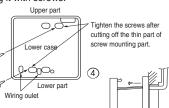
③ Embed the erectrical box and remote control cord beforehand.



Prepare two M4 screws (recommended length is 12-16mm) on site, and install the lower case to erectrical box. Choose either of the following two positions in fixing it with screws.

3

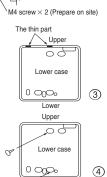




- S Connect the remote control cord to the terminal block. Connect the terminal of remote control (X,Y) with the terminal of indoor unit (X,Y). (X and Y are no polarity)
- Install the upper case as before so as not to catch up the remote control cord, and tighten with the screws.

#### [In case of exposing cord]

- ③ You can pull out the remote control cord from left upper part or center upper part. Cut off the upper thin part of remote control lower case with a nipper or knife, and grind burrs with a file etc.
- ④ Install the lower case to the flat wall with attached two wooden screws.

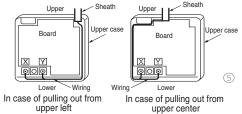


Lower

(4)

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

Wiring route is as shown in the right diagram depending on the pulling out direction.



The wiring inside the remote control case should be within 0.3mm<sup>2</sup> (recommended) to 0.5mm<sup>2</sup>. 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		<u>\</u>
	X wiring : 215mm Y wiring : 195mm	X wiring : 170mm Y wiring : 190mm	(c	The peeling-off len of sheath
ļ	i wining. Iooninin	T winnig . Toonnin		4

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

### Installation and wiring of remote control

- Wiring of remote control should use 0.3mm<sup>2</sup> × 2 cores wires or cables. (on-site configuration)
- 2 Maximum prolongation of remote control wiring is 600 m.
  - If the prolongation is over 100m, change to the size below.

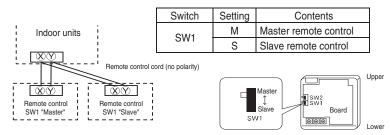
But, wiring in the remote control case should be under 0.5mm<sup>2</sup>. Change the wire size outside of the case according to wire connecting. Waterproof treatment is necessary at the wire connecting section. Be careful about contact failure.

100 - 200m······0.5mm<sup>2</sup> × 2 cores

Under 300m ......0.75mm<sup>2</sup> × 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.)



Set SW1 to "Slave" for the slave remote control. It was factory set to "Master" for shipment. Note: The setting "Remote control sensor enabled" is only selectable with the master remote

control in the position where you want to check room temperature.

The air-conditioner operation follows the last operation of the remote control regardless of the master/ slave setting of it.

#### The indication when power source is supplied

When power source is turned on, the following is displayed on the remote control until the communication between the remote control and indoor unit settled.

Master remote control : "	Μ"
Slave remote control : " @#AIT@	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.

ΠЬ RE \* The left mark is only an example. Other marks may ®₩AIT® М 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)

#### Oupper limit and lower limit of set temperature can be changed with remote control.

Upper limit setting: valid during heating operation. Possible to set in the range of 20 to 30°C (68 to 86°F). Lower limit setting: valid except heating (automatic, cooling, fan, dry) Possible to set in the range of 18 to 26°C (62 to 79°F).

When you set upper and lower limit by this function, control as below.

1. When (2) TEMP RANGE SET, remote control function of function setting mode is "INDN CHANGE" (factory setting), [If upper limit value is set ]

During heating, you cannot set the value exceeding the upper limit.

[ If lower limit value is set ]

During operation mode except heating, you cannot set the value below the lower limit.

- 2. When 2 TEMP RANGE SET, remote control function of function setting mode is "NO INDN CHANGE"
  - [ If upper limit value is set ]

During heating, even if the value exceeding the upper limit is set, upper limit value will be sent to the indoor unit. But, the indication is the same as the temperature set.

[ If lower limit value is set ]

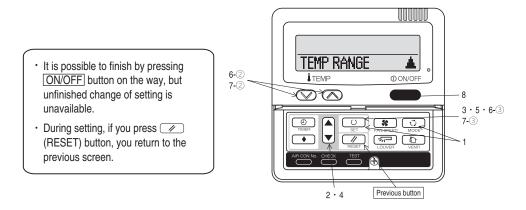
During except heating, even if the value lower than the lower limit is set, lower limit value will be sent to the indoor unit. But, the indication is the same as the temperature set.

#### How to set upper and lower limit value

1. Stop the air-conditioner, and press O (SET) and C. (MODE) button at the same time for over three seconds .

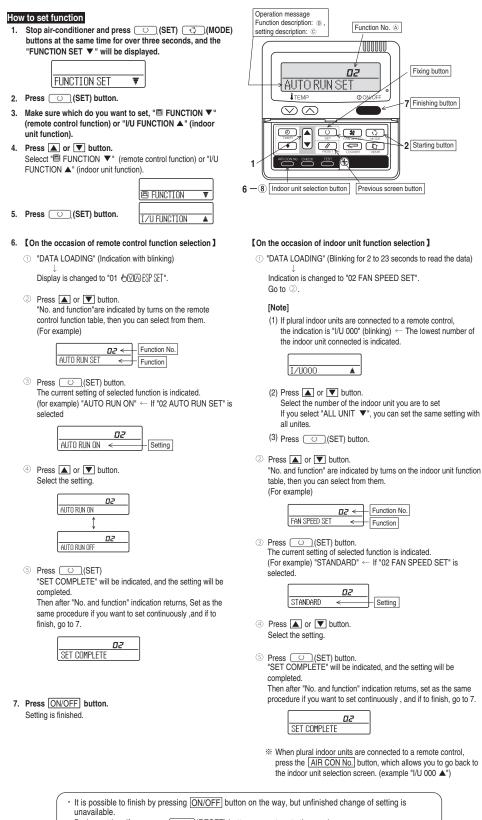
The indication changes to "FUNCTION SET ▼".

- 2. Press 👿 button once, and change to the "TEMP RANGE 🛦 " indication.
- 3. Press O (SET) button, and enter the temperature range setting mode.
- 4. Select "UPPER LIMIT ▼" or "LOWER LIMIT ▲" by using ▲ ▼ button.
- 5. Press <u>(SET)</u> button to fix.
- 6. When "UPPER LIMIT ▼ " is selected (valid during heating)
  - ① Indication: "  $\bigcirc \lor \land$  SET UP"  $\rightarrow$  "UPPER 30°C  $\lor$ "
  - (2) Select the upper limit value with temperature setting button  $\bigtriangledown$  . Indication example: "UPPER 26°C  $\lor \land$ " (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: " $^{\bullet}$   $\lor$   $\land$  SET UP"  $\rightarrow$  "LOWER 18°C  $\land$ "
  - ② Select the lower limit value with temperature setting button √ △. Indication example: "LOWER 24°C ∨ ∧" (blinking)
  - ③ Press <u>○</u>(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.



ne functional setting														
The initial function setting for typical using is performed automatically by the indoor unit connected, when remote					ote 1: The initial setting marked " 💥 " is decided by connected indoor and outdoor unit, and is automatically defined as followi								ng table.	
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.			Function No. Remote control	Item AUTO RUN S		Default AUTO RUN ON		Model "Auto-RUN" mode selectable indoor unit.						
If you would like to change the initial setting marked " ()", set your desired setting as for the selected item.			function02	HUTU KUN 3		AUTO RUN OFF		"Auto-RUN" mode selectable indoor unit. Indoor unit without "Auto-RUN" mode						
The procedure of functional setting is shown as the following diagram.				Remote control	SEFAN SPI		ල 📧 VALII		Indoor unit with two or three step of air flow setting					
low of function setting]	function06 Remote control	EE LOUVE	D CHI	5 🗷 INVAL 5 🖾 VALID	ID	Indoor unit with only one of air flow setting Indoor unit with automatically swing louver								
art : Stop air-conditioner and pre	function07	223 20072	승도코 INVALII			Indoor unit without automatically swing louver								
"(MODE) buttons at the same time for over three		three	seconds. setting	Remote control function13	I/U FAN		HI-MID-LO HI-LO		Indoor unit with three step of air flow setting Indoor unit with two step of air flow setting					
nalize : Press "O" (SET) butto iset : Press "Ø" (RESET) b	utton.			Iuncion i s			HI-LU HI-MID		indoor un	iit with two step of	T air tiow :	setting		
elect : Press ( ) v button. nd : Press (ON/OFF) button.			Consult the technical data etc. for each control details		1 FAN SPEED									
nd : Press ON/OFF button.				Remote control function15	MODEL TYPE		HEAT PUMP		Heat pump unit Exclusive cooling unit					
d unfinished change of setting is un	available.	S	lop air-conditioner and press	Note 3: As for plural in	ndoor unit			n each maste						
<ul> <li>* Initial settings</li> <li>* Automatic criterion</li> </ul>			-(SET) + CD-(MODE) buttons ame time for over three seconds.		ter indoor u					nit function "05 EX	XTERNA	L INPUT" an	d "06 PER	MISSION /
			FUNCTION SET V											
FUNCTION V (Remote control fur	No. are indicated only v r units are connected	when				Note2: Fan setting of "HIGH SPEED"								
	icuon)		(Indoor unit function) I/UFUNCTION A plural indoo	Function				Fan	tap	· 568 · 168 · 168				8m8 - 8m3
Function 01 문제조단 SET	setting		1/000 ▲ 1/000 ≠	02 FAN SPEED SET	STANDA		×	FAN	STANDARD	UH - Hi - Me - Li	.0 Hi	i - Me - Lo	Hi - Lo	Hi - Me
	LAMATES WILD	0	Validate setting of ESP:External Static Pressure 1/0002 +		HIGH S	SPEED 1	*	SPEED SET	HIGH	UH - UH - Hi - N	Ve U	H - Hi - Me	UH - Me	UH - Hi
02 AUTO RUN SET			Invalidate setting of ESP 1/0003 ¢ 1/0004 ¢	03 FILTER SIGN SET	HIGH S	01 660 G		Initial function	SPEED1, 2 n setting of s	some indoor unit is "H				
	AUTO RUN ON AUTO RUN OFF	*	Automatical operation is impossible		TYPE 1	ATION OFF		The filter sign is	indicated af	fter running for 180 ho	ours.			
03 DIA TEMP SW		0	To set other indoor unit, press		TYPE 2 TYPE 3			The filter sign is	indicated af	ter running for 600 ho ter running for 1000 h	ours.			
OA LEEL MODE ON	500 INVALID	Ľ	Temperature setting button is not working AIR CON No. button, which		TYPE 4	ļ			indicated af	Iter running for 1000 f		n the indoor uni	t will be stop	oed by
04 EE MODE SW	6년 VALID 6년 INVALID	0	allows you to go back to the indoor unit selection screen	04 🖘 POSITION	L					iction "04 🖘 🖵 POSI 1	TION".			
05 O ON/OFF SW	SE INVALID		Mode button is not working (for example: I/U 000 ▲).		4POST	TION STO	P IO	you must chang	the remote	e control function "14 position in the four	i ≈r≕ Posi Ir.	TION * accordin	gly.	
	පර VALID පර INVALID	0	On/Off button is not working	05 EXTERNAL INPUT	FREE S	TOP		The louver can	stop at any p	position.				
06 ESTFAN SPEED SW			On on button is not working	00 fondate ne or	LEVEL	INPUT	0							
	8년 VALID 8년 INVALID	*	Fan speed button is not working	06 OFFICE OFFICE OF CONTRACTOR	PULSE									
07 EE LOUVER SW	Correction of the second secon	*			INVALI	ID	0	Permission/nrok	abition contr	ol of operation will be	hilev a			
08 @ TIMER SM	8년 VALID 8년 INVALID	*	Louver button is not working	07 EMERGENCY STOP	INVALI	10		r crimonorepror	incluon conta	or or operation will be	a valid.			
US LEE LINCK OF	୫୦୦ VALID ୫୦୦ INVALID	0			VALID	10		With the VRF se	eries, it is us	ed to stop all indoor u	units conne	acted with the s	ame outdoor	unit immediately.
09 SENSOR SET	കത INVALID		Timer button is not working					When stop sign	al is inputed	from remote on-off te	erminal "CN	NT-6", all indoc	r units are st	opped immediately.
	SENSOR OFF	0	Remote thermistor is not working. Remote thermistor is working.		OFFSET	12.0%		T. b		3.0°C increase in tem				
	SENSOR +3.0%		Remote thermistor is working, and to be set for producing +3.0°C increase in temperature.		OFFSET	+2.05		To be reset for p	producing +2	2.0°C increase in temp	perature di	uring heating.		
	SENSOR +2.05		Remote thermistor is working, and to be set for producing +2.0°C increase in temperature. Remote thermistor is working, and to be set for producing +1.0°C increase in temperature.	08 🔅 SP OFFSET	OFFSET NO OFFS		0	To be reset for p	producing +1	1.0°C increase in temp	iperature di	uring heating.		
	SENSOR - 1.05 SENSOR - 2.05		Remote thermistor is working, and to be set for producing -1.0°C increase in temperature. Remote thermistor is working, and to be set for producing -2.0°C increase in temperature.		OFFSET	+2.0%		To be reset proc	ducina +2 0°	C increase in return a	air tempera	ature of indoor	init	
10 AUTO RESTART	SENSOR -3.0%		Remote thermistor is working, and to be set for producing -3.0°C increase in temperature.	09 RETURN AIR TEMP	OFFSET	(+1.5%) (+1.0%)		To be reset prod	ducing +1.5"	C increase in return a C increase in return a	air tempera	ature of indoor	unit.	
	INVALID VALID	0		US INCTONATION TEN	IND OFFS	SET	0		•					
11 VENT LINK SET					OFFSET	-1.06 -1.56				C increase in return a C increase in return a				
	NO VENT	0	In case of Single split series, by connecting ventilation device to CNT of the	10 X FAN CONTROL	OFFSET	1-2.05		To be reset proc	ducing -2.0°C	C increase in return a	air temperat	ture of indoor u	nit.	
	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		LOW FAI	IN SPEED		When heating the	hermostat is	OFF, fan speed is lov OFF, fan speed is se	w speed.			
			operation of indoor unit.			IN SPEED				OFF, fan speed is op				
	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		INTERN FAN OF	NITTENCE F		When heating th	hermostat is	OFF, the fan is stopp	ped.	-		
12 TEMP RANGE SET	L		board), you can operate /stop the ventilation device independently by (VENT) button.					When the remote	te thermistor	r is working, "FAN OF the indoor unit's ther	"F" is set a			
	INDN CHANGE	0	If you change the range of set temperature, the indication of set temperature will vary following the control.	11 FROST PREVENTION TEMP	1			Channe of inde	nr hoat evel	anger temperature to	start freet	prevention cor	trol	
	NO INDN CHANGE		If you change the range of set temperature, the indication of set temperature	11 Inservedutor Ibir	TEMP I	HIGH		a nango or moot		anger temperature IU	. Juan IIUði			
13 I/U FAN			will not vary following the control, and keep the set temperature.			LUW	10							
	HI-MID-LO HI-LO	*	Air flow of fan becomes the three speed of \$\$ all -\$\$	12 FROST PREVENTION CONTROL	FAN CO	ONTROL ON		Working only wi	th the Single	e split series. the indoor fan tap is ri	raised.			
	HI-MID 1 FAN SPEED		Air flow of fan becomes the two speed of <b>Weat</b> - <b>Wet</b> ]. Air flow of fan is fixed at one speed.	13 DRAIN PUMPLINK	FAN CO	DNTROL OF	F	como nobl	p.ovenuori, t					
	Li nin ar ccu	<u>×</u>	Air flow of fan is fixed at one speed. If you change the remote control function "14 중근 POSITION ".	10 JUNEAR FORFLARK	\$0	P		Drain pump is ru						
14 ≤¬POSITION	L		you must change the indoor function "04 ->= POSITION" accordingly.		ହତ AN ହତ AN	lD%AND≋		Drain pump is ru	un during co	oling, dry and heating oling, dry, heating an	g. Id fan.			
	4POSITION STOP FREE STOP	0	You can select the louver stop position in the four. The louver can stop at any position.	14 S FAN REMAINING	\$¢ AN	DR		Drain pump is ru	un during co	oling, dry and fan.				
15 NODEL TYPE	HEAT PINP	~	nie ieure eur etep at any position.	1	NO REN	AINING	0	After cooling is	stopped is O	OFF, the fan does not	perform ex	xtra operation.	haur	
	COOLING ONLY	*			1 HOUR			After cooling is a	stopped is O stopped is O	FF, the fan perform e	extra opera extra opera	ation for naif an	nudr. r.	
16 EXTERNAL CONTROL SET	INDIVIDUAL	0	If you input signal into CnT of the indoor printed circuit board from external, the	15 × FAN REMAINING	6 HOUR					OFF, the fan perform e				
	FOR ALL UNITS	H	indoor unit will be operated independently according to the input from external. If you input into CNT of the indoor printed circuit board from external, all units which		NO REN 0.5 HOU	AINING IR	- 0	After heating is	stopped or h	neating thermostat is ( neating thermostat is (	OFF, the fa	an does not pe	form extra o	peration.
17 ROOM TEMP INDICATION SET	Contract of the local data		connect to the same remote control are operated according to the input from external.		2 HOUR 6 HOUR	2		After heating is	stopped or h	neating thermostat is (	OFF,the fa	in perform extra	operation for	r two hours.
TV Twon (car two strong)	INDICATION OFF	0		16 × FAN INTERMETTENCE	ı —			Anter neating is	stopped or h	neating thermostat is (	UPP, the fa	an periorm extr	a operation f	UT SIX NOUI'S.
	INDICATION ON	-	In normal working indication, indoor unit temperature is indicated instead of air flow. (Only the master remote control can be indicated.)		NO RENI	IAINING IEE sminON	- 0	During heating i	is stopped or	r heating thermostat is	is OFF, the	a fan perform in	termittent op	eration for five minut
18 WEDINDICATION	INDICATION ON	0						with low fan spe During heating i	ed after twe is stopped or	nty minutes' OFF. r heating thermostat is				
	INDICATION OFF		Heating preparation indication should not be indicated.	17 PRESSURE CONTROL		F sminON		with low fan spe	ed after five	minutes' OFF.	,		sp	
19 15/1F SET	5	0	Temperature indication is by degree C.	LIA TENEGOOME CONTINUE	STANDA		*	0	D	there below the fi	d to as t			
	°F	Ľ	Temperature indication is by degree C.		TYPE1		*	Connected "OA	Processing"	type indoor unit, and	o is automa	aucally defined.		
I remperature moracion is by degree P.														

(finished)



- During setting, if you press (// (RESET) button, you return to the previous screen.
- $\boldsymbol{\cdot}$  Setting is memorized in the control and it is saved independently of power failure.

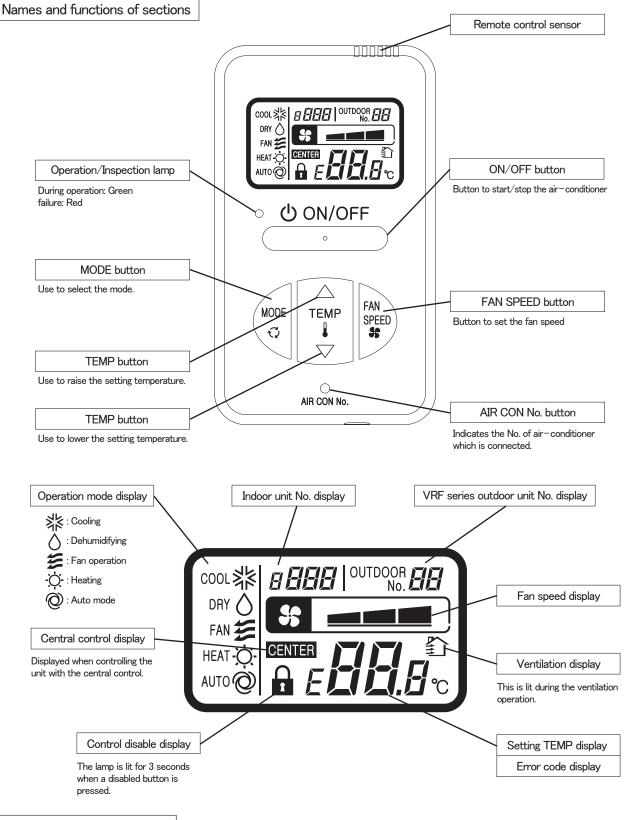
#### [ How to check the current setting ]

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 igvee ", the setting of the lowest number indoor unit is displayed.)

#### 8.2 Simple wired remote control (RCH-E3)

PJZ000Z272

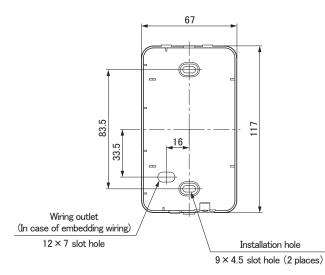


Installation of remote control

Do not install the remote control at the following places in order to avoid malfunction.

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

#### Remote control installation dimensions



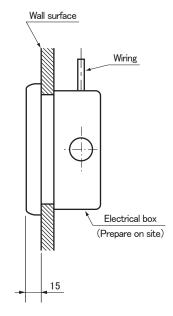
Note: Installation screw for remote control M4 screw (2 pieces)

#### In case of exposing wiring

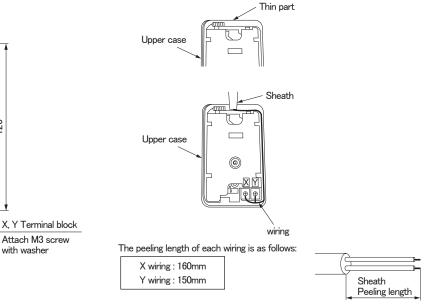
0.3mm<sup>2</sup> × 2 cores

LCD





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.



#### (1) Wiring of remote control should use 0.3mm<sup>2</sup> imes 2 cores wires or cables. (on-site configuration)

120

(2) Maximum prolongation of remote control wiring is 600m.

心 ON/OFF

70

FAN Spee

0

001 ()

Wiring specifications

If the prolongation is over 100m, change to the size below.

But, the wiring in the remote control case should be 0.3mm<sup>2</sup> (recommended) to 0.5mm<sup>2</sup>.

Change the wire size outside of the case according to wire connecting. Waterproof treatment is necessary at the wire connecting section. Be careful about contact failure.

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

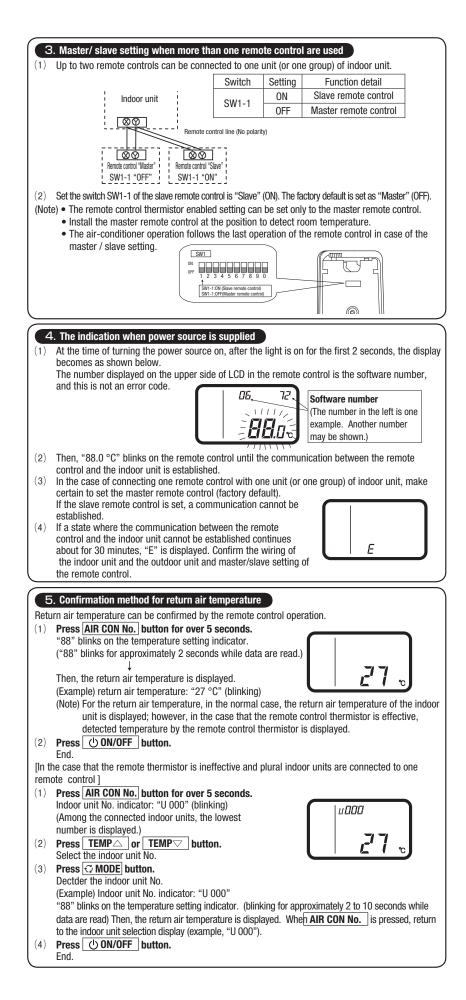
Adapted to **RoHS** directive

Unit:mm

# The remote control wiring can be extracted from the upper center.



and secure with the removed screw.



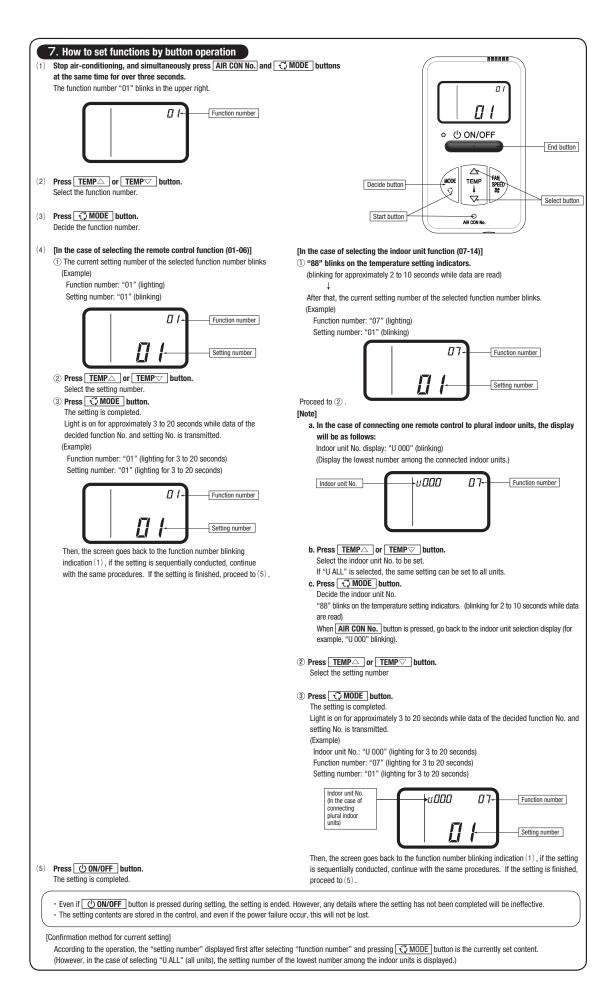
6. Function setting Each function of the remote control and the indoor unit is automatically set to the initial setting, which is the standard use, on the occasion of connecting the remote control with the indoor unit. In the case of the standard use, the setting change is unnecessary. However, if you whould like to change the initial setting "  $\bigcirc$  ", change the setting for only the item of the function number. <u>Record the setting contents and stored them</u>.

#### $(1) \quad \mbox{Function setting item by switch on PCB} \\$

	(1) Function	n setting ite	em by switch on PCB						
L	Switch No.	Setting	Setting detail	Initial setting	Switch No.	Setting	Setting detail	Initial setting	ON 0FF 1 2 3 4 5 6 7 8 9 0
L	SW1-1	ON	Slave remote control		SW1-5	ON	"TEMP" button prohibited		
L	3001-1	OFF	Master remote control	0	3W1-3	OFF	"TEMP" button enabled	0	
L	SW1-2	ON	Remote control thermistor enabled		SW1-6	ON	"FAN SPEED" button prohibited	% Note 1	0
L	3001-2	OFF	Remote control thermistor disabled	0	3W1-0	OFF	"FAN SPEED" button enabled	※ Note 1	
L	SW1-3	ON	"MODE" button prohibited		SW1-7	ON	Auto restart function enabled		· As for the slave remote control, function setting is impossible other
L	SW1-5	0FF	"MODE" button enabled	0	3W1-7	0FF	Auto restart function disabled	0	than SW1-1.
1	SW1-4	ON	"ON/OFF" button prohibited		SW1-8, 9, 0	ON	Not used		<ul> <li>In the indoor unit with only one fan speed. "FAN SPEED" button cannot</li> </ul>
1	əw1-4	OFF	"ON/OFF" button enabled	0	3w1-8, 9, 0	OFF			be enabled.

#### $(2) \quad \mbox{Function setting item by button operation} \\$

Classification	Function No.	Functio	n l	Setting No.	Setting	Initial setting		Ron	narks	
ordoomudtiUII	i ancion NO.	Functio	/11		Fan speed: three steps	Mote 1	The fan speed is three steps, <b>#</b>		itu na	
			ŀ		Fan speed: two steps (Hi-Lo)	* Note 1	The fan speed is two steps, *			
	01	Indoor unit fan	n speed		Fan speed: two steps (Hi-Lo)	- NOLE I	The fan speed is two steps, * •			
			ŀ		Fan: one step	* Note 1	The fan speed is fixed to one step.	<b>6 III</b> .		
					Remote control thermistor: no offset		The fail speed is liked to one step.			
			ł		Remote control thermistor: +3.0 °C	0	At the time of cooling, in the case of			000
					Remote control thermistor: +3.0 °C Remote control thermistor: +2.0 °C					
		Remote contro					At the time of cooling, in the case of			
	03	thermistor at t of cooling	the time		Remote control thermistor: +1.0 °C		At the time of cooling, in the case of			
		of cooling	ļ		Remote control thermistor: -1.0 °C		At the time of cooling, in the case of			
			-		Remote control thermistor: -2.0 °C		At the time of cooling, in the case of			
Remote					Remote control thermistor: -3.0 °C		At the time of cooling, in the case of	remote control thermistor enab	led, offsett temperature at -3.	0°C.
function			ļ		Remote control thermistor: no offset	0				
Tunction			ļ		Remote control thermistor: +3.0 °C		At the time of heating, in the case of			
		Remote contro			Remote control thermistor: +2.0 °C		At the time of heating, in the case of			
	04	thermistor at t	the time		Remote control thermistor: +1.0 °C		At the time of heating, in the case of			
		of heating	Ļ		Remote control thermistor: -1.0 °C		At the time of heating, in the case of			
			Ļ		Remote control thermistor: -2.0 °C		At the time of heating, in the case of			
					Remote control thermistor: -3.0 °C		At the time of heating, in the case of	remote control thermistor enab	led, offset temperature at -3.0	)°C.
				01	No ventilator connection	0				
	05	Ventilation set	tting	02	Ventilator links air-conditioner		In case of Single split series, by connecting it to CND of the indoor pr	onnecting ventilation device to inted circuit board), the operation	CnT of the indoor printed c on of ventilation device is link	rcuit board (in case of VRF se ed with the operation of indoor
[	06	"Auto" operati	ion	01	"Auto" operation enabled	※ Note 1				
	dD	setting			"Auto" operation disabled	% Note 1	"Auto" operation disabled			
İ	07	Operation perr	mission/	01	Disabled	0				
	07	prohibition	ľ	02	Enabled		Operation permission/prohibition cor	trol is enabled.		
					Level input	0				
	08	External input		02	Pulse input					
				01	Standard	Note2				
	09	Fan speed set	ting		High speed 1	Note2				
			- I		High speed 2	Note2				
					No remaining operation	0	After cooling stopped, no fan remain	ing operation		
		Fan remaining			0.5 hours		After cooling stopped, fan remaining			
	10	operation at th	ne time		1 hour		After cooling stopped, fan remaining			
		of cooling	ŀ		6 hours		After cooling stopped, fan remaining			
					No remaining operation	0	After heating stopped or after heatin		ning operation	
		Fan remaining			0.5 hours		After heating stopped or after heatin			
	11	operation at th	he time		2 hours		After heating stopped or after heatin			
		of heating	ŀ		6 hours		After heating stopped or after heatin			
Indoor unit					No offset	0	The heating dopped of alter heatin	g uloimootat orr, lairtoinaini	g oportation for o notice	
function		Setting tempe	rature		Setting temperature offset + 3.0 °C		The setting temperature at the time	of heating is offeet by ±3.0 °C		
	12	offset at the ti	me of		Setting temperature offset + 2.0 °C		The setting temperature at the time			
		heating	ŀ		Setting temperature offset + 1.0 °C		The setting temperature at the time			
-					Low fan speed	※ Note 1	At the time of heating thermostat OF			
			ł		Setting fan speed	% NULE I	At the time of heating thermostat OFF,		d	
	13	Heating fan co	ontroller		Intermittent operation	* Note 1	At the time of heatingr thermostat OFF,		u.	
	15	incading fair oc		03	intermittent operation	* Note 1	At the time of heatingr thermostat OF At the time of heating thermostat OF			
				04	Fan off		When the remote control thermistor	is enabled, automatically set to	"Fan off". Do not set at the ti	me of the indoor unit thermisto
				01	No offset	0	-			
			ſ	02	Return air temperature offset +2.0 °C		Offset the return air temperature of t	he indoor unit by +2.0 °C.		
			[	03	Return air temperature offset +1.5 °C		Offset the return air temperature of t	he indoor unit by +1.5 °C.		
	14	Return air tem	perature		Return air temperature offset +1.0 °C		Offset the return air temperature of t			
		offset	ŀ		Return air temperature offset -1.0 °C		Offset the return air temperature of t			
			ł		Return air temperature offset -1.5 °C		Offset the return air temperature of t			
			ŀ		Return air temperature offset -2.0 °C		Offset the return air temperature of t			
			varies dep	ending upon the i	indoor unit and the outdoor unit to be co	nnected, and t	nis is Note 2: Fan speed of	"High speed" setting		
	ally determine	d as follows:					Fan speed setting		Indoor unit fan speed setting	
Swith No.	F	Function	9	Setting	Product model			30 mm m - 30 mm - 30 m	30 m m m - 30 m	\$t a # # - \$t a #
Function No	).			" button prohibited		o only one -t	Standard	Hi — Mid — Lo	Hi — Lo	Hi — Mid
V1-6		I SPEED			Product model whose indoor fan speed i Product model whose indoor fan speed		three Tilgh Special 2	UHi — Hi — Mid	UHi — Mid	UHi — Hi
	butto	on "F	AN SPEED	" button enabled	steps	io 1110 otopo Ul	Initial setting of som	e indoor unit is "High speed".		
		Fa	an speed: t	three steps	Product model whose indoor unit fan sp	eed is three ste	DS Note 3: As for plural	indoor unit, set indoor functions	to each master and slove ind	oor unit
	ion 01	or unit fan Fa	an speed: t	two steps (Hi-Lo)	Product model whose indoor unit fan sp	eed is two step		ter indoor unit is received the s		
mote control funct		d Ea	an speed: t	two steps (Hi-Me)				and "08 External input".	orang onango or muuuur dilit it	alogon of operation perillissit
mote control funct	spee					eed is only one		ING JU LAIGHIAI IIIJUL .		
mote control funct	spee	Fa	an: one ste		Product model whose indoor unit fan sp		step			
mote control funct	spee	Fa o" operation "A	Auto" opera	ation enabled	Product model where "Auto" mode is se		step			
	tion 06 "Autor	Fa o" operation "A ng "A	Auto" opera	ation enabled ation disabled						



#### 8.3 Wireless kit

(1) FDTC series (RCN-TC-5AW-E2)

### PJF012D506

### Safety precautions

•Please read this manual carefully before starting installation work to install the unit properly. All of the following are important information to be observed strictly.

MARNING Failure to follow these instructions properly may result in serious consequences such as death, severe injury, etc.

▲ CAUTION Failure to follow these instructions properly may cause injury or property damage.
 It could have serious consequences depending on the circumstances.
 The following symbols are used in the text.

 $\bigcirc$ 

Never do.



Always follow the instructions given.

•Keep this manual at a safe place where you can consult with whenever necessary. Show this manual to installers when moving or repairing the unit. When the ownership of the unit is transferred, this manual should be given to the new owner.

	<b>MARNING</b>
0	<ul> <li>Consult your dealer or a professional contractor to install the unit. Improper installation made on your own may cause electric shocks, fire or dropping of the unit.</li> </ul>
0	<ul> <li>Installation work should be performed properly according to this installation manual. Improper installation work may result in electric shocks, fire or break-down.</li> </ul>
0	<ul> <li>Be sure to use accessories and specified parts for installation work.</li> <li>Use of unspecified parts may result in drop, fire or electric shocks.</li> </ul>
	<ul> <li>Install the unit properly to a place with sufficient strength to hold the weight.</li> <li>If the place is not strong enough, the unit may drop and cause injury.</li> </ul>
0	• Be sure to have the electrical wiring work done by qualified electrical installer, and use exclusive circuit. Power source with insufficient and improper work can cause electric shock and fire.
0	<ul> <li>Shut OFF the main power source before starting electrical work.</li> <li>Otherwise, it could result in electric shocks, break-down or malfunction.</li> </ul>
$\bigcirc$	<ul> <li>Do not modify the unit. It could cause electric shocks, fire, or break-down.</li> </ul>
0	• Be sure to turn OFF the power circuit breaker before repairing/inspecting the unit. Repairing/inspecting the unit with the power circuit breaker turned ON could cause electric shocks or injury.
$\bigcirc$	• 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.
$\bigcirc$	• Do not install the unit where water vapor is generated excessively or condensation occurs. It could cause electric shocks, fire, or break-down.
$\bigcirc$	• Do not use the unit in a place where it gets wet, such as laundry room. It could cause electric shocks, fire, or break-down.
$\bigcirc$	Do not operate the unit with wet hands.     It could cause electric shocks.

e the specified ctronic parts f roper connectio en installing asures to sup ould cause mal ver generator, hi influences tran Id disrupt medio not leave the	tric sh d cab rom ons or the press funct gh fre asmitt	hocks, fire, or break-d bles for wiring, and external forces. r fixing could cause he unit at a hospita s electric noises. tion or break-down d equency medical equi	conne eat ger I, tele	neration, ecomm	m securely with care to protect , fire, etc. nunication facility, etc., take
ctronic parts f roper connection en installing asures to suppould cause mal ver generator, hi influences tran Id disrupt medion not leave the	the press funct gh fre smit	external forces. r fixing could cause he unit at a hospita s electric noises. tion or break-down d equency medical equi	eat ger I <b>I, tel</b> e	neration, ecomm	, fire, etc.
asures to sup ould cause mal ver generator, hi influences trar Id disrupt medio not leave the	pres funct gh fre smit	<b>s electric noises.</b> tion or break-down d equency medical equi	lue to		nunication facility, etc., take
		ctivities, video broadca	pment contro	, radio c I to med	bus effects on the inverter, private communication equipment, etc. dical or communication equipment e noise interference.
		ote control with its enter through the hole,			moved. electric shocks, fire or break-down.
			ION		
Places exposed Places near hea High humidity p Hot surface or c generate conde Places exposed to Uneven surface	l to d at-ger laces cold s nsati o oil n	irect sunlight (8) nerating devices surface enough to (9) on nist or steam directly (10	Place fluore type) Place rays o ) Place	es where escent la or sunliges where of any of es where	e the receiver is influenced by amp (especially inverter ght e the receiver is affected by infrared ther communication devices
	ve all	of the following acce	ssories	6.	
			<b>A</b>	1	Wireless remote control
<b>1</b> 1. <b>-</b> 5	1 (	6 Wiring (For communication)		1	② Remote control holder     1       ③ Screw for holder     ジ*
support	2	${\mathcal T}$ Wiring (For receiving)	$\bigcirc$	1	④ AAA dry cell battery (LR03)①2⑤ User's manual1
et metal)	1	8 Installation manual		1	
		9 Parts set		1	
	ould cause brea Places exposed Places near hea High humidity p Hot surface or of generate conde Places exposed to Uneven surface Places affected by the Sorries sure that you have g support of support et metall	ould cause break-do Places exposed to d Places near heat-get High humidity places Hot surface or cold s generate condensati Places exposed to oil r Uneven surface Places affected by the dir Sories sure that you have all sure that you have all g support	not install the wireless kit at the followin ould cause break-down or deformation of r Places exposed to direct sunlight (8) Places near heat-generating devices High humidity places Hot surface or cold surface enough to (9) generate condensation Places exposed to oil mist or steam directly (10 Uneven surface Places affected by the direct air flow of the AC unit <b>Sories</b> sure that you have all of the following acces <b>Sories</b> sure that you have all of the following screw <b>Sources</b> <b>Sources</b> <b>Sources</b> <b>Sources</b> <b>Sources</b> <b>Sources</b> <b>Sources</b> <b>Sources</b> <b>Sources</b> <b>Sources</b> <b>Sources</b> <b>Sources</b> <b>Sources</b> <b>Sources</b> <b>Sources</b> <b>Sources</b> <b>Sources</b> <b>Sources</b> <b>Sources</b> <b>Sources</b> <b>Sources</b> <b>Sources</b> <b>Sources</b> <b>Sources</b> <b>Sources</b> <b>Sources</b> <b>Sources</b> <b>Sources</b> <b>Sources</b> <b>Sources</b> <b>Sources</b> <b>Sources</b> <b>Sources</b> <b>Sources</b> <b>Sources</b> <b>Sources</b> <b>Sources</b> <b>Sources</b> <b>Sources</b> <b>Sources</b> <b>Sources</b> <b>Sources</b> <b>Sources</b> <b>Sources</b> <b>Sources</b> <b>Sources</b> <b>Sources</b> <b>Sources</b> <b>Sources</b> <b>Sources</b> <b>Sources</b> <b>Sources</b> <b>Sources</b> <b>Sources</b> <b>Sources</b> <b>Sources</b> <b>Sources</b> <b>Sources</b> <b>Sources</b> <b>Sources</b> <b>Sources</b> <b>Sources</b> <b>Sources</b> <b>Sources</b> <b>Sources</b> <b>Sources</b> <b>Sources</b> <b>Sources</b> <b>Sources</b> 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i       i         i       i         i       i         g support       i         i       i         i       i         i       i         i       i         i       i         i       i         i       i         i       i         i       i         i       i         i       i         i       i         i	not install the wireless kit at the following places in or ould cause break-down or deformation of remote control Places exposed to direct sunlight Places near heat-generating devices High humidity places Hot surface or cold surface enough to (9) generate condensation Places exposed to oil mist or steam directly (10) Places where communicati Places affected by the direct air flow of the AC unit <b>Sories</b> sure that you have all of the following accessories. $\boxed{0}{1}$ $\boxed{0}{1}$ $\boxed{0}{1}$ $\boxed{0}{1}$ $\boxed{0}{1}$ $\boxed{0}{1}$ $\boxed{0}{1}$ $\boxed{0}{1}$ $\boxed{0}{1}$ $\boxed{0}{1}$ $\boxed{0}{1}$ $\boxed{0}{1}$ $\boxed{0}{1}{1}$ $\boxed{0}{1}{1}{1}{1}$ $\boxed{0}{1}{1}{1}{1}{1}{1}{1}{1}{1}{1}{1}{1}{1}$

SW4 Auto restart

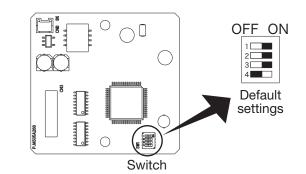
ON : Valid

OFF : Invalid

### **2** Preparation before installation (continued)

### To change setting

1. Change the setting of switches on the accessory PCB.



#### Master/Slave setting when using multiple remote controls

Up to two receivers or wired remote controls can be installed on one indoor unit group. In such occasion, it is necessary to change the setting to slave on either one.

To change the setting on the receiver, refer to the instruction manual of the receiver.

2. When SW1 is turned to OFF position, change the wireless remote control setting.
For the method of changing the setting, refer to Setting to avoid mixed communication of <a href="https://www.wireless.com">Wireless remote control</a>.

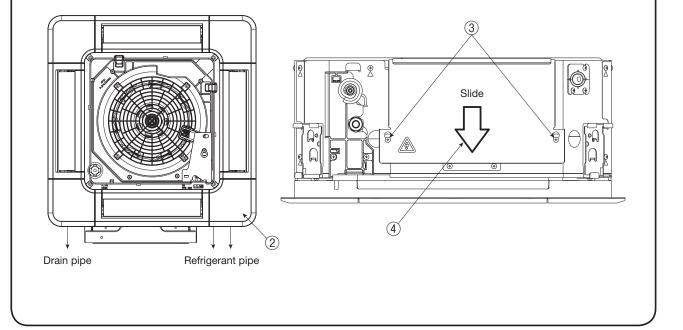
\*For the receivable area of the signal, refer to (5) Receiver .

### **③ How to install the receiver**

It is possible to install the receiver by replacing the corner lid on the panel.

#### Preparation before installation

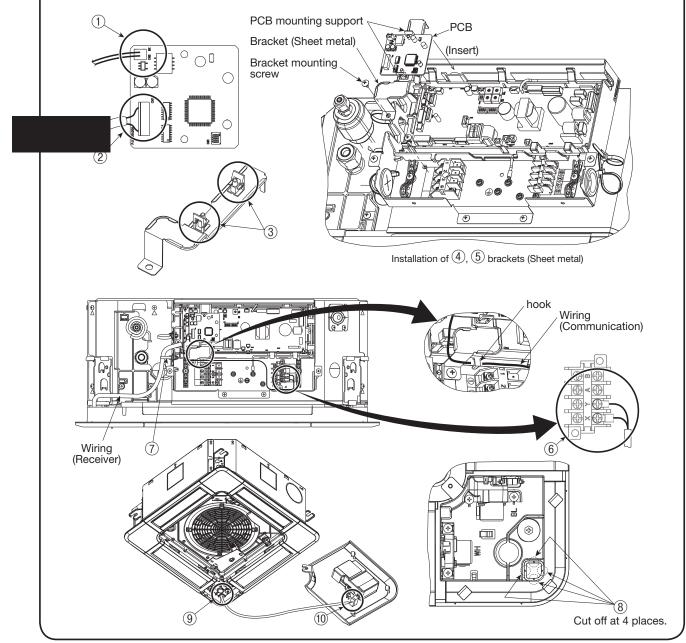
- ① Remove the inlet grille according to the installation manual of the panel.
- ② Remove the corner lid at the refrigerant pipe side.
- ③ Loosen screws (2 pcs) on the control box of the unit.
- ④ Slide the control lid in the arrow direction, and remove it.

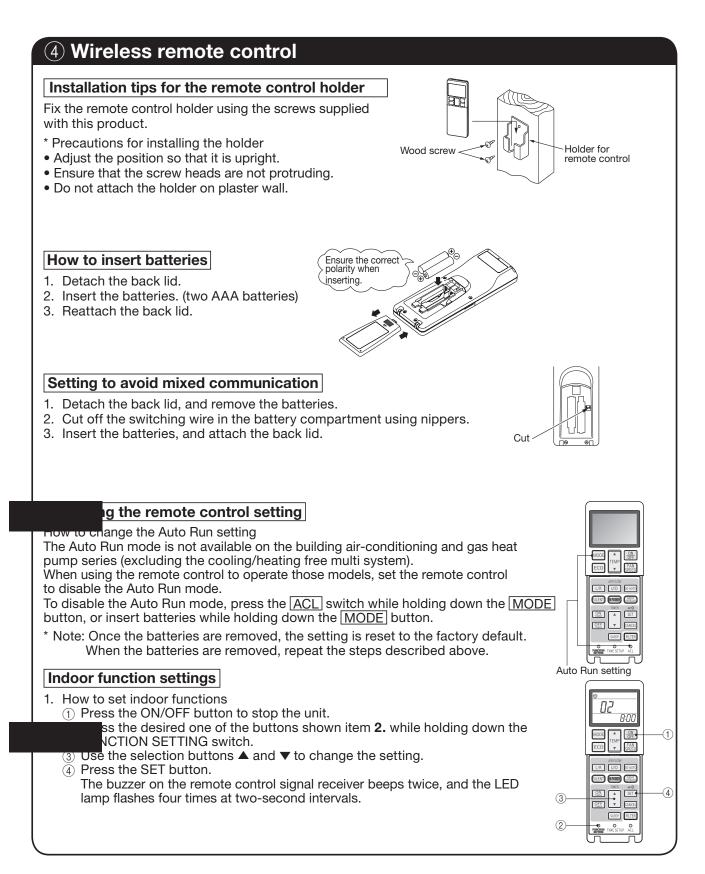


### **③** How to install the receiver(continued)

#### Installation of the receiver

- (1) Connect the wire connector (Communication) to CNB on PCB.
- ② Connect the wire connector (Receiver) to CN3 on PCB.
- ③ Install the PCB mounting supports on the bracket (Sheet metal).
- ④ Install PCB on the PCB mounting supports.
- (5) Insert the bracket (Sheet metal) in one side of control box, and fix the other side with screws as shown in the figure.
- 6 Connect round terminals of wires (Communication) to the terminal block (X, Y) in the control box. The wires have no polarity.
- ⑦ Fix wires with bands as shown in the figure.
- (8) Cut off the half-blanks on the panel (at 4 places) as shown in the figure.
- (9) Pass the wiring (Communication) through the opening on the panel.
- 10 Connect connectors of the wiring (Communication) and the receiver.
- $(\ensuremath{\mathfrak{I}})$  Install the receiver on the panel according to the installation manual of the panel.
- 1 Install the control box lid with care not to pinch wires, and fix with screws (2 pcs).





### **④ Wireless remote control (continued)**

2. Setting details The following functions can be set.

Button	Number indicator	Function setting
	00	Fun speed setting : Standard
FAN SPEED	01	Fun speed setting : Setting 1 *
	02	Fun speed setting : Setting 2 *
	00	Room heating temperature adjustment : Disable
MODE	01	Room heating temperature adjustment : +1°C
MODE	02	Room heating temperature adjustment : +2°C
	03	Room heating temperature adjustment : +3°C
	00	Filter sign display : OFF
	01	Filter sign display : 180 hours
FILTER	02	Filter sign display : 600 hours
	03	Filter sign display : 1000 hours
	04	Filter sign display : Operation stop after 1000 hours have elapsed
U/P	00	Anti draft setting : Disable
(Up/Down)	01	Anti draft setting : Enable
	00	Infrared sensor setting (Motion sensor setting) : Disable
SILENT	01	Infrared sensor setting (Motion sensor setting) : Enable
	00	Infrared sensor control (Motion sensor control) : Disable
	01	Infrared sensor control (Motion sensor control) : Power control only
HI POWER	02	Infrared sensor control (Motion sensor control) : Auto OFF only
	03	Infrared sensor control (Motion sensor control) : Power control + Auto OFF
	00	Cooling fan residual-period running : Disable
	01	Cooling fan residual-period running : 0.5 hours
ON TIMER	02	Cooling fan residual-period running : 2 hours
	03	Cooling fan residual-period running : 6 hours
	00	Heating fan residual-period running : Disable
	01	Heating fan residual-period running : 0.5 hours
OFF TIMER	02	Heating fan residual-period running : 2 hours
	03	Heating fan residual-period running : 6 hours
	00	Remote control signal receiver LED : Brightness High
NIGHT SETBACK	01	Remote control signal receiver LED : Brightness Low
OLIDAUN	02	Remote control signal receiver LED : OFF

### **(5) Receiver**

#### **1** Control multiple indoor units with one remote control

Up to 16 indoor units can be connected.

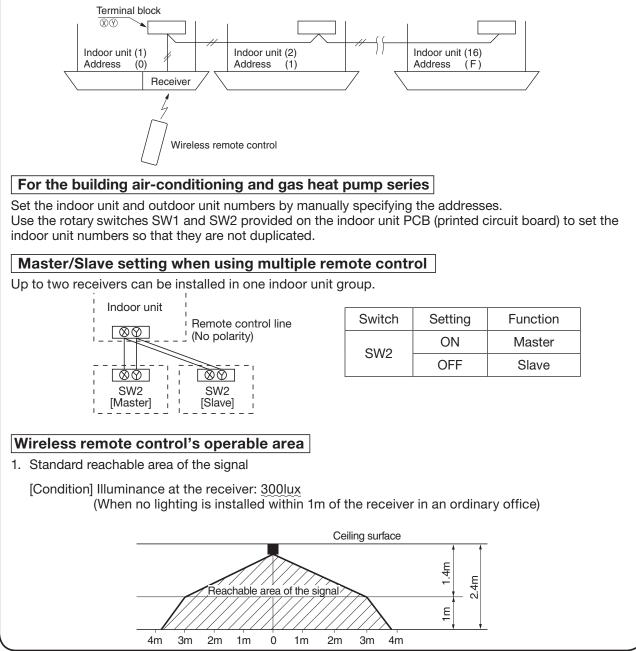
- 1. Connect the XY terminal with 2 cores wire. As for the size, refer to the note on the right.
- For Packaged air-conditioner series, set the indoor unit address with SW2 on the indoor unit PCB from [1] to [F] so as not to duplicate.

Restrictions on the thickness and length of wire (Maximum length is 600m.) Standard Within  $0.3 \text{ mm}^2 \times 100 \text{m}$ 

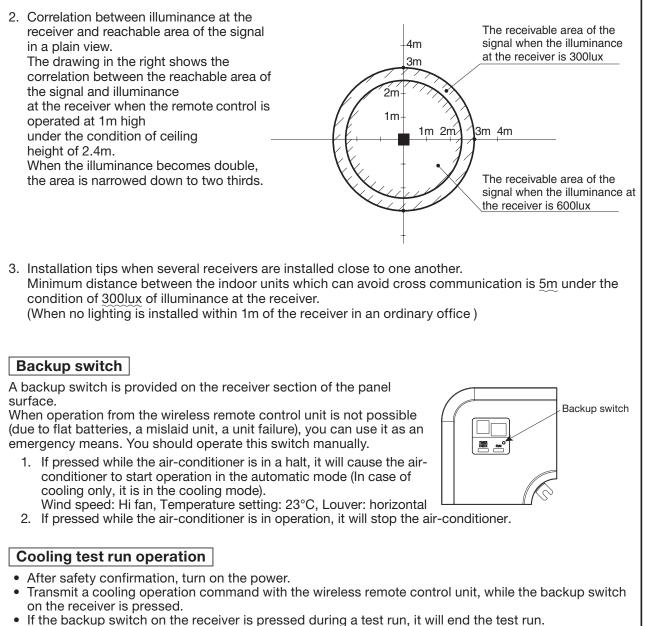
nuaru		0.3 mm <sup>-</sup> × 100m	
	Within	0.5 mm <sup>2</sup> × 200m	
	Within	0.75mm <sup>2</sup> × 300m	
	Within	1.25mm <sup>2</sup> × 400m	
	Within	2.0 mm <sup>2</sup> × 600m	

### For the shop series

For VRF series, set the indoor unit address with SW1, SW2 and SW5-2 on the indoor unit PCB from [000] to [127] so as not to duplicate.



### **(5)** Receiver (continued)



If you cannot operate the unit properly during a test run, please check wiring by consulting with inspection guides.

#### How to read the two-digit display

On the receiver of a wireless kit, a two-digit (7-segment) display is provided.

- 1. An indication will be displayed for one hour after power on.
- 2. An indication will be displayed for 3.5 seconds after transmitting a "STOP" command from the wireless remote control or the operation of the backup switch to stop the unit.
- 3. An indication appearing in (1) or (2) above will go off as soon as the unit starts operation.
- 4. When there are no error records to indicate, addresses of all the connected units are displayed.
- 5. When there are some error records remaining, the error records are displayed.
- 6. Error records can be cleared by transmitting a "STOP" command from the wireless remote control, while the backup button is pressed.

#### (2) FDUM series (RCN-KIT4-E2)

### PJZ012D112

### Safety precautions

•Please read this manual carefully before starting installation work to install the unit properly. Every one of the followings is important information to be observed strictly.

AWARNING Failure to follow these instructions properly may result in serious consequences such as death, severe injury, etc.

 $\underline{\land}$  CAUTION Failure to follow these instructions properly may cause injury or property damage. It could have serious consequences depending on the circumstances.

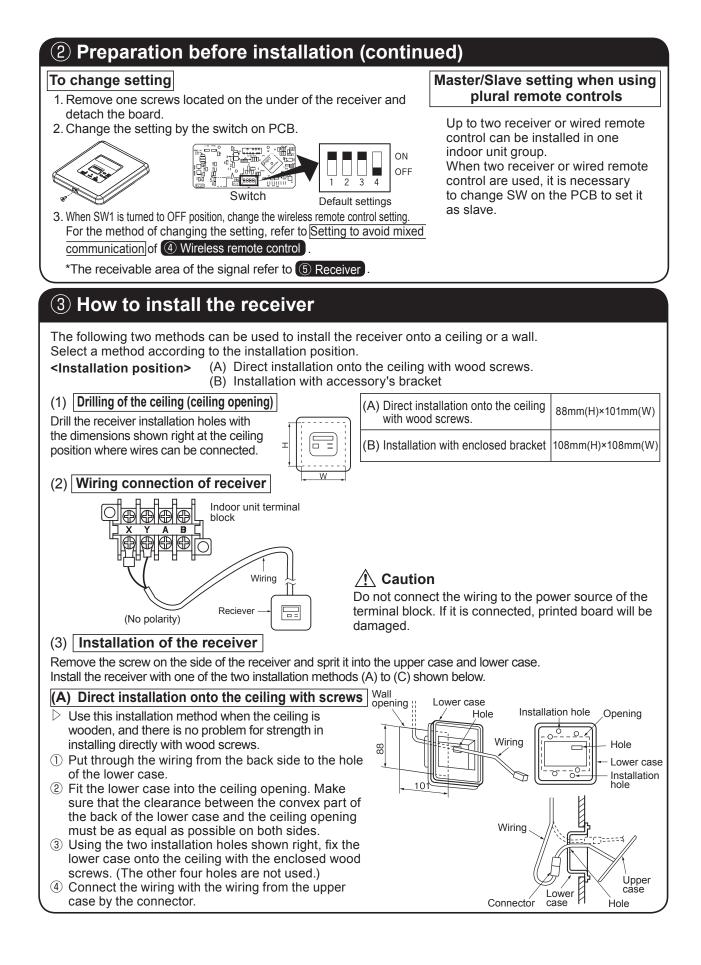
•The following pictograms are used in the text.

Never do.	0	Always follow the instructions given.
-----------	---	---------------------------------------

•Keep this manual at a safe place where you can consult with whenever necessary. Show this manual to installers when moving or repairing the unit. When the ownership of the unit is transferred, this manual should be given to a new owner.

0	• Consult your dealer or a professional contractor to install the unit. Improper installation made on your own may cause electric shocks, fire or dropping of the unit.
0	<ul> <li>Installation work should be performed properly according to this installation manual. Improper installation work may result in electric shocks, fire or break-down.</li> </ul>
0	<ul> <li>Be sure to use accessories and specified parts for installation work.</li> <li>Use of unspecified parts may result in drop, fire or electric shocks.</li> </ul>
0	<ul> <li>Install the unit properly to a place with sufficient strength to hold the weight.</li> <li>If the place is not strong enough, the unit may drop and cause injury.</li> </ul>
0	• Be sure to have the electrical wiring work done by qualified electrical installer, and use exclusive circuit. Power source with insufficient and improper work can cause electric shock and fire.
0	• Shut OFF the main power source before starting electrical work. Otherwise, it could result in electric shocks, break-down or malfunction.
$\bigcirc$	<ul> <li>Do not modify the unit.</li> <li>It could cause electric shocks, fire, or break-down.</li> </ul>
0	• Be sure to turn OFF the power circuit breaker before repairing/inspecting the unit. Repairing/inspecting the unit with the power circuit breaker turned ON could cause electric shocks or injury.
$\bigcirc$	• 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.
$\bigcirc$	• Do not install the unit where water vapor is generated excessively or condensation occurs. It could cause electric shocks, fire, or break-down.
$\bigcirc$	• Do not use the unit in a place where it gets wet, such as laundry room. It could cause electric shocks, fire, or break-down.
$\bigcirc$	• Do not operate the unit with wet hands. It could cause electric shocks.

			Â	WARM	ING		
	Do not wash the un It could cause electric				own.		
	Use the specified c electronic parts from Improper connections	m exter	nal fo	orces.		•	to protect
0	When installing the measures to suppresent the suppresent of the supervised of the s	ess electricition or frequent nitted from frequent from the from the fr	ctric I brea cy me om th	noises. ak-down c edical equi ie remote	ue to hazardous effe oment, radio communi control to medical or	cts on the inve cation equipment communication	rter, private nt, etc.
	Do not leave the rer If dew, water, insect, etc						oreak-down.
			<u>/</u> !		ION		
$\bigcirc$	<ul> <li>(3) High humidity plac</li> <li>(4) Hot surface or cold generate condensa</li> <li>(5) Places exposed to of</li> </ul>	l surface ation		-	rays of any other con	nmunication dev	vices ruct the
	(6) Uneven surface (7) Places affected by the o essories	direct air fl	ow of t	he AC unit	communication with t	the remote conti	
	(7) Places affected by the o	all of the		wing acce	ssories.		
	(7) Places affected by the o	all of the		wing acce			
	(7) Places affected by the o essories lke sure that you have	all of the	e follo	wing acce	SSOrieS. Nireless remote control (RCN- Remote control holder Screw for holder	E2) 🖉 1 E2 1 E2 1 E2 2	
	(7) Places affected by the o <b>essories</b> ke sure that you have <a href="mailto:1.5em">1</a>	all of the	e follo	wing acce	SSOFIES. Wireless remote control (RCN-f Remote control holder Screw for holder AAA dry cell battery (LR03)	E2) E2) E2) E2) E2) 1 E2) 1 E2) 2 E2) 2	
	<ul> <li>(7) Places affected by the operation of the second s</li></ul>	all of the	e follo 1 1	wing acce	SSOrieS. Nireless remote control (RCN- Remote control holder Screw for holder	E2)	
	<ul> <li>(7) Places affected by the operation of the second s</li></ul>	all of the	e follo 1 1 1	wing acce	SSOFIES. Wireless remote control (RCN-f Remote control holder Screw for holder AAA dry cell battery (LR03) Jser's manual	E2) E2) E2) E2) 1 C 2 C 2 1 1 2 C 2 1 1 2 C 1 1 2 C 1 1 2 C 1 1 C 1 C 1 C 1 C 2 C 1 C 2 C 2 C 1 C 2 C C 2 C C 2 C 2 C C 2 C C C C C C C C C C C C C	
	<ul> <li>(7) Places affected by the operation of the second secon</li></ul>	all of the	e follo 1 1 1 1	wing acce	SSOFIES. Wireless remote control (RCN-f Remote control holder Screw for holder AAA dry cell battery (LR03) Jser's manual Screw for receiver Fixing band Clamp	E2)	
	<ul> <li>(7) Places affected by the operation of the second secon</li></ul>	all of the	e follo 1 1 1 1 1	wing acce	SSORIES. Wireless remote control (RCN-F Remote control holder Screw for holder AAA dry cell battery (LR03) Jser's manual Screw for receiver Fixing band Clamp Screw for clamp	E2)	
	<ul> <li>(7) Places affected by the operation of the second secon</li></ul>	all of the	e follo 1 1 1 1 1	wing acce	SSOFIES. Wireless remote control (RCN-f Remote control holder Screw for holder AAA dry cell battery (LR03) Jser's manual Screw for receiver Fixing band Clamp	E2)	
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① Acc Please ma	<ul> <li>(7) Places affected by the operation of the second secon</li></ul>	all of the	e follo 1 1 1 1 1	wing acce	SSOFIES. Wireless remote control (RCN-f Remote control holder Screw for holder AAA dry cell battery (LR03) Jser's manual Screw for receiver Fixing band Clamp Screw for clamp Receiver installation bracket Screw for the bracket	E2)	
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Acc Please ma     Please ma     Please ma     Setting or     PCB on the re	<ul> <li>(7) Places affected by the operation of the second secon</li></ul>	all of the	e follo 1 1 1 1 1 1 1 Preve durin Rec	wing acce	SSORIES. Wireless remote control (RCN-F Remote control holder Screw for holder AAA dry cell battery (LR03) Jser's manual Screw for receiver Fixing band Clamp Screw for clamp Receiver installation bracket Screw for the bracket nstallation fitting Clama Cl	2)       Image: Constraint of the second secon	
Acc Please ma     Please	<ul> <li>(7) Places affected by the operation of the second secon</li></ul>	all of the	e follo 1 1 1 1 1 1 1 Preve durin Rec	wing acce	SSORIES. Mireless remote control (RCN-F Remote control holder Screw for holder AAA dry cell battery (LR03) Jser's manual Screw for receiver Fixing band Clamp Screw for clamp Receiver installation bracket Screw for the bracket nstallation fitting Clamp Composition of the starket Clamp Cl	E2)	

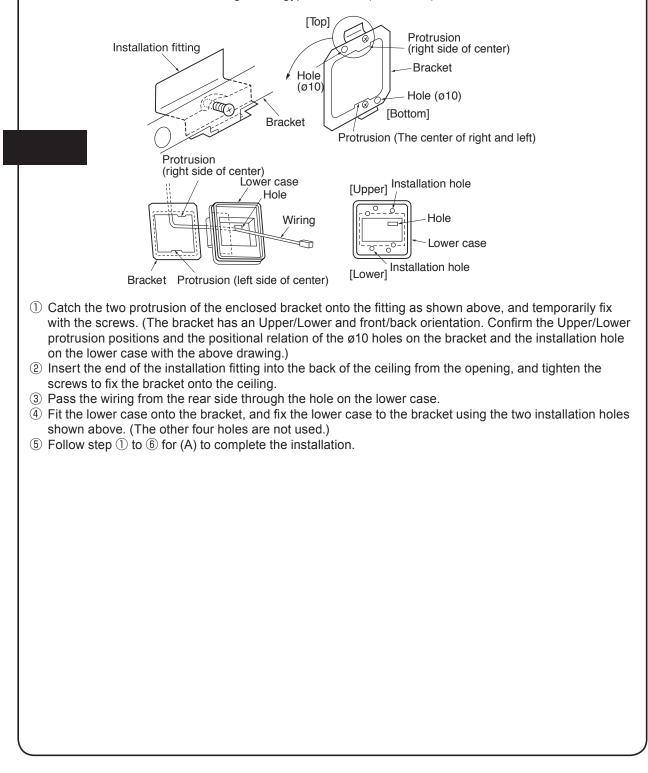


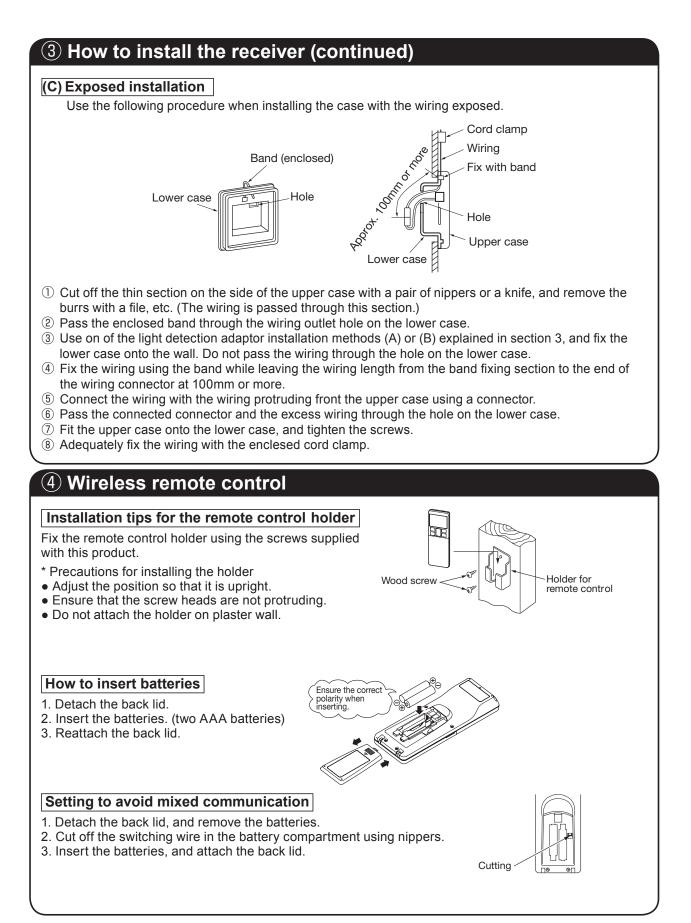
### ③ How to install the receiver(continued)

(5) Take out the connector to the backside from the hole of the lower case putting through the wiring at ①.
(6) Fit the upper case and the lower case, and tighten the screws.

#### (B) Installation with enclosed bracket

Use this method when installaing onto a gypsum board (7 to 18mm), etc.





SIENT) (INNI) (#

SLEEP FIL

Auto Run setting

02

ECO

3

2

R:00

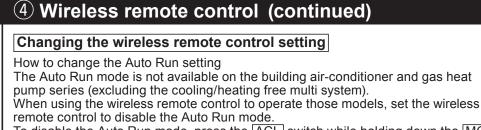
MODE A ON

SLEEP FILTER

FAN

1

(4)



To disable the Auto Run mode, press the <u>ACL</u> switch while holding down the <u>MODE</u> button, or insert batteries while holding down the <u>MODE</u> button.

\* Note: Once the batteries are removed, the setting is reset to the factory default. When the batteries are removed, repeat the steps described above.

#### Indoor function settings

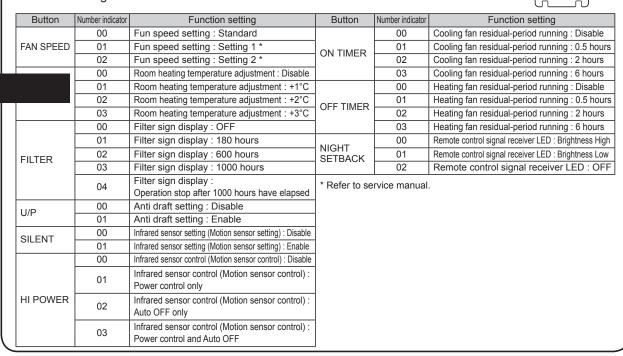
1. How to set indoor functions

- (1) Press the ON/OFF button to stop the unit.
- Press the desired one of the buttons shown below while holding down the FUNCTION SETTING switch.
- ③ Use the selection buttons, ▲ and ▼, to change the setting.
- ④ Press the SET button.

The buzzer on the wireless remote control signal receiver beeps twice, and the LED lamp flashes four times at two-second intervals.

#### 2. Setting details

The following functions can be set.



### **5** Receiver

#### 1 Control plural indoor units with one remote control

Up to 16 indoor units can be connected.

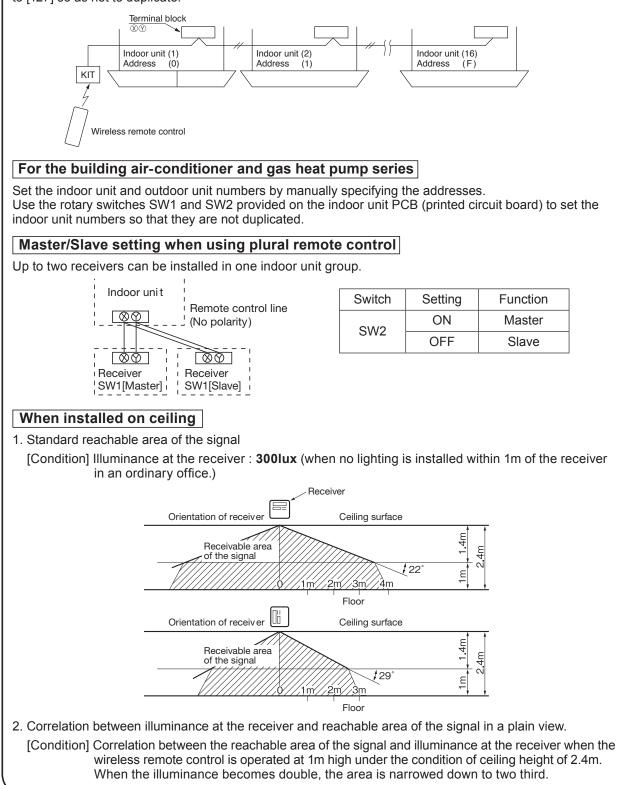
- 1. Connect the XY terminal with 2 cores wire. As for the size, refer to the following note.
- For Packaged air-conditioner series, set the indoor unit address with SW2 on the indoor unit PCB from [0] to [F] so as not to duplicate.

Restrictions on the thickness and length of wire<br/>(Maximun total extension 600m.)StandardWithin 0.3 mm² × 100m<br/>Within 0.5 mm² × 200m<br/>Within 0.75mm² × 300m<br/>Within 1.25mm² × 400m<br/>Within 2.0 mm² × 600m

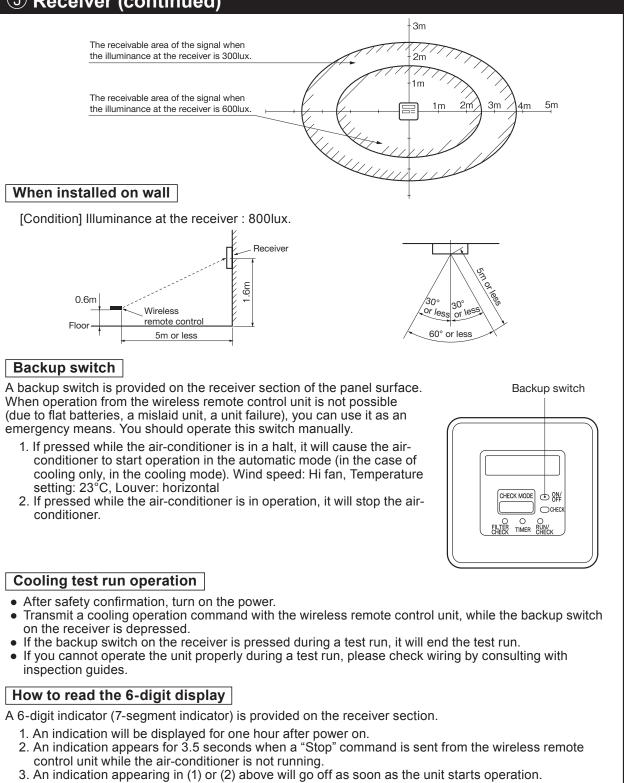
### **(5)** Receiver (continued)

#### For the shop series

For VRF series, set the indoor unit address with SW1, SW2 and SW5-2 on the indoor unit PCB from [000] to [127] so as not to duplicate.



### **(5)** Receiver (continued)



- 4. When there are no error records to indicate, addresses are displayed for all of the connected units.
- 5. When there are some error records remaining, the error records are displayed.
- 6. Error records can be cleared by transmitting a "Stop" command from the wireless remote control unit, while the backup switch is depressed.

#### (3) FDE series (RCN-E-E3)

PFA012D635

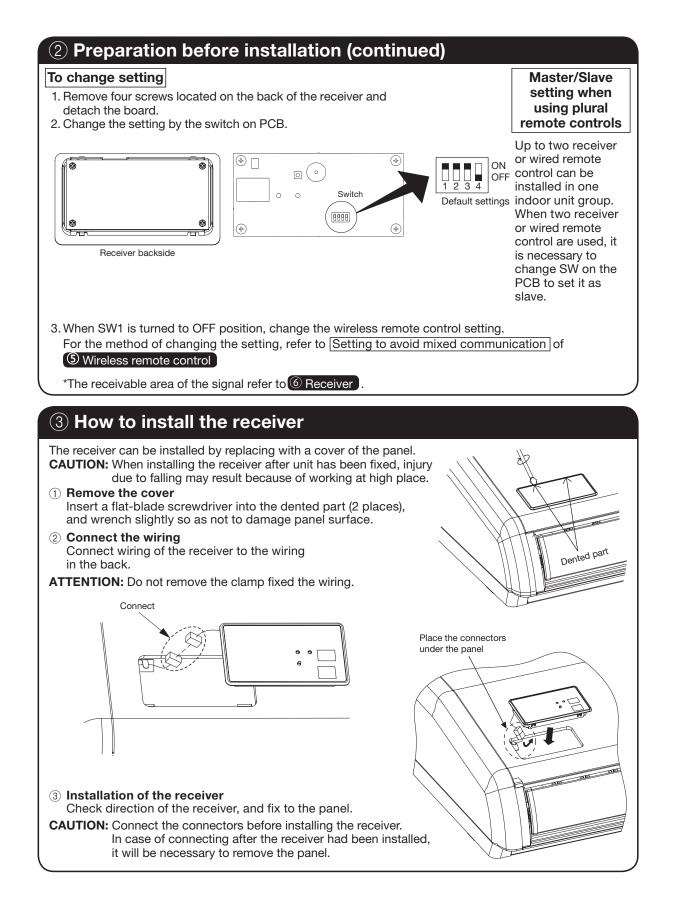
		117401200
Safe	ty precautions	
Every MA such a CAI	is death, severe injury, etc.	n to be observed strictly. properly may result in serious consequences properly may cause injury or property damage.
	ollowing pictograms are used in the text.	
$ \bigcirc $	Never do.	Always follow the instructions given.
		h whenever necessary. Show this manual to installers when s transferred, this manual should be given to a new owner.
	<b>∕</b> ∆ <b>WA</b> F	RNING
0	Consult your dealer or a professional of Improper installation made on your own material of the second	contractor to install the unit. y cause electric shocks, fire or dropping of the unit.
0	Installation work should be performed Improper installation work may result in ele	properly according to this installation manual. ctric shocks, fire or break-down.
	• Be sure to use accessories and specif Use of unspecified parts may result in drop	
0	• Install the unit properly to a place with If the place is not strong enough, the unit m	
0	• Be sure to have the electrical wiring work done Power source with insufficient and imprope	by qualified electrical installer, and use exclusive circuit. r work can cause electric shock and fire.
	Shut OFF the main power source befo Otherwise, it could result in electric shocks	
$\bigcirc$	• Do not modify the unit. It could cause electric shocks, fire, or break	c-down.
0		breaker before repairing/inspecting the unit. uit breaker turned ON could cause electric shocks or injury.
$\bigcirc$	generate, flow in, accumulate or leak. If the unit is used at places where air contains dense	environment or where inflammable gas could bil mist, steam, organic solvent vapor, corrosive gas (ammonium, line solution, special spray, etc. are used, it could cause electric ifficant deterioration of its performance or corrosion.
$\bigcirc$	• Do not install the unit where water vapor It could cause electric shocks, fire, or break	is generated excessively or condensation occurs.
$\bigcirc$	• Do not use the unit in a place where it It could cause electric shocks, fire, or break	•
$\bigcirc$	• Do not operate the unit with wet hand It could cause electric shocks.	S
-		

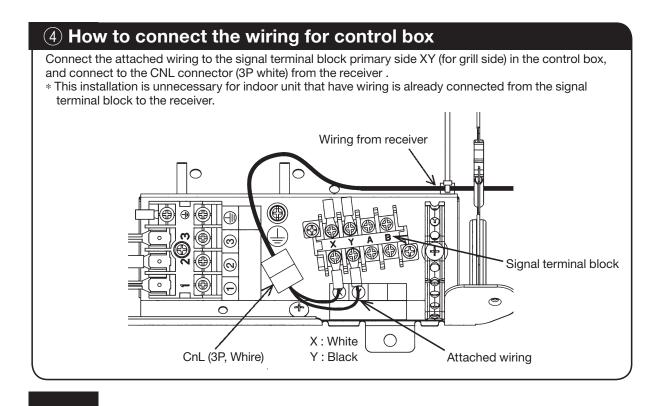
$\overline{\bigcirc}$	• Do not wash the unit with water.
	It could cause electric shocks, fire, or break-down.
	<ul> <li>Use the specified cables for wiring, and connect them securely with care to protect electronic parts from external forces.</li> </ul>
	Improper connections or fixing could cause heat generation, fire, etc.
0	When installing the unit at a hospital, telecommunication facility, etc., take measures to suppress electric noises.
U	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.
0	• Do not leave the remote control with its PCB case removed. If dew, water, insect, etc. enters through the hole, it could cause electric shocks, fire or break-down
$\bigcirc$	It could cause break-down or deformation of remote control.(1) Places exposed to direct sunlight(8) Places where the receiver is influenced by(2) Places near heat devicesthe fluorescent lamp (especially inverter(3) High humidity placestype) or sunlight.(4) Hot surface or cold surface enough to(9) Places where the receiver is affected by infrared
	<ul> <li>generate condensation</li> <li>(5) Places exposed to oil mist or steam directly (10) Places where some object may obstruct the</li> <li>(6) Uneven surface</li> <li>(7) Places affected by the direct air flow of the AC unit.</li> </ul>
<u> </u>	<ul> <li>generate condensation</li> <li>(5) Places exposed to oil mist or steam directly (10) Places where some object may obstruct the communication with the remote control</li> <li>(7) Places affected by the direct air flow of the AC unit.</li> </ul>
$\overline{}$	<ul> <li>generate condensation</li> <li>rays of any other communication devices.</li> <li>(5) Places exposed to oil mist or steam directly (10) Places where some object may obstruct the communication with the remote control</li> <li>(7) Places affected by the direct air flow of the AC unit.</li> </ul>
$\overline{}$	generate condensation       rays of any other communication devices.         (5) Places exposed to oil mist or steam directly (10) Places where some object may obstruct the communication with the remote control         (6) Uneven surface       communication with the remote control         (7) Places affected by the direct air flow of the AC unit. <b>Ccessories</b> make sure that you have all of the following accessories.         ① Receiver       1         ① Wireless remote control (RCN-E2)       1
$\overline{}$	generate condensation       rays of any other communication devices.         (5) Places exposed to oil mist or steam directly (10) Places where some object may obstruct the communication with the remote control         (6) Uneven surface       communication with the remote control         (7) Places affected by the direct air flow of the AC unit. <b>Ccessories</b> make sure that you have all of the following accessories.         ① Receiver       ①         ② Parts set       1         ③ Screw for holder       2
<u>)</u>	generate condensation       rays of any other communication devices.         (5) Places exposed to oil mist or steam directly (10) Places where some object may obstruct the communication with the remote control         (6) Uneven surface       communication with the remote control         (7) Places affected by the direct air flow of the AC unit. <b>CCESSORIES</b> make sure that you have all of the following accessories.         (1) Receiver         (2) Parts set         (3) Screw for holder         (3) Screw for holder
<u> </u>	generate condensation       rays of any other communication devices.         (5) Places exposed to oil mist or steam directly (10) Places where some object may obstruct the communication with the remote control         (6) Uneven surface       communication with the remote control         (7) Places affected by the direct air flow of the AC unit. <b>CCESSORIES</b> make sure that you have all of the following accessories.         (1) Receiver         (2) Parts set         (3) Installation manual
<u> </u>	generate condensation       rays of any other communication devices.         (5) Places exposed to oil mist or steam directly (10) Places where some object may obstruct the communication with the remote control         (6) Uneven surface       communication with the remote control         (7) Places affected by the direct air flow of the AC unit. <b>CCESSORIES</b> make sure that you have all of the following accessories.         (1) Receiver         (2) Parts set         (3) Installation manual         (1) Wireless         (2) Minima
Please	generate condensation       rays of any other communication devices.         (5) Places exposed to oil mist or steam directly (10) Places where some object may obstruct the communication with the remote control         (6) Uneven surface       communication with the remote control         (7) Places affected by the direct air flow of the AC unit. <b>CCESSORIES</b> make sure that you have all of the following accessories.         (1) Receiver         (2) Parts set         (3) Installation manual         (1) Wireless         (2) Minima
Please	generate condensation       rays of any other communication devices.         (5) Places exposed to oil mist or steam directly (10) Places where some object may obstruct the communication with the remote control         (6) Uneven surface       communication with the remote control         (7) Places affected by the direct air flow of the AC unit. <b>Ccessories</b> make sure that you have all of the following accessories.         (1) Receiver       1         (2) Parts set       1         (3) Installation manual       1         (4) Wiring       1         (5) Places installation       (2) Parts
Please (2) Pro Setting	generate condensation       rays of any other communication devices.         (5) Places exposed to oil mist or steam directly (10) Places where some object may obstruct the communication with the remote control         (6) Uneven surface       communication with the remote control         (7) Places affected by the direct air flow of the AC unit. <b>Ccessories</b> make sure that you have all of the following accessories.            ① Receiver             ② Parts set             ① Installation manual             ② Installation manual             ③ Installation manual             ④ Wiring             ③ User's manual             ⊕ Daration before installation             on site
Please 2 Pro Setting PCB on th	generate condensation       rays of any other communication devices.         (5) Places exposed to oil mist or steam directly (10) Places where some object may obstruct the communication with the remote control         (6) Uneven surface       communication with the remote control         (7) Places affected by the direct air flow of the AC unit. <b>Ccessories</b> make sure that you have all of the following accessories.         (1) Receiver       1         (2) Parts set       1         (3) Installation manual       1         (4) Wiring       1         (5) Places installation       (2) Parts
Please 2 Pro Setting PCB on th	generate condensation       rays of any other communication devices.         (5) Places exposed to oil mist or steam directly (10) Places where some object may obstruct the communication with the remote control         (6) Uneven surface       communication with the remote control         (7) Places affected by the direct air flow of the AC unit. <b>Ccessories</b> make sure that you have all of the following accessories. <ul> <li></li></ul>
Please          2       Pro         Setting         PCB on the Default set	generate condensation       rays of any other communication devices.         (5) Places exposed to oil mist or steam directly (10) Places where some object may obstruct the communication with the remote control         (6) Uneven surface       communication with the remote control         (7) Places affected by the direct air flow of the AC unit. <b>Ccessories</b> make sure that you have all of the following accessories.         (1) Receiver         (1) Places set         (2) Parts set         (3) Installation manual         (4) Wiring         (5) User's manual         (5) Places affected by the following switches to set the function.         (5) Places affected by the direct air flow of the AC unit.

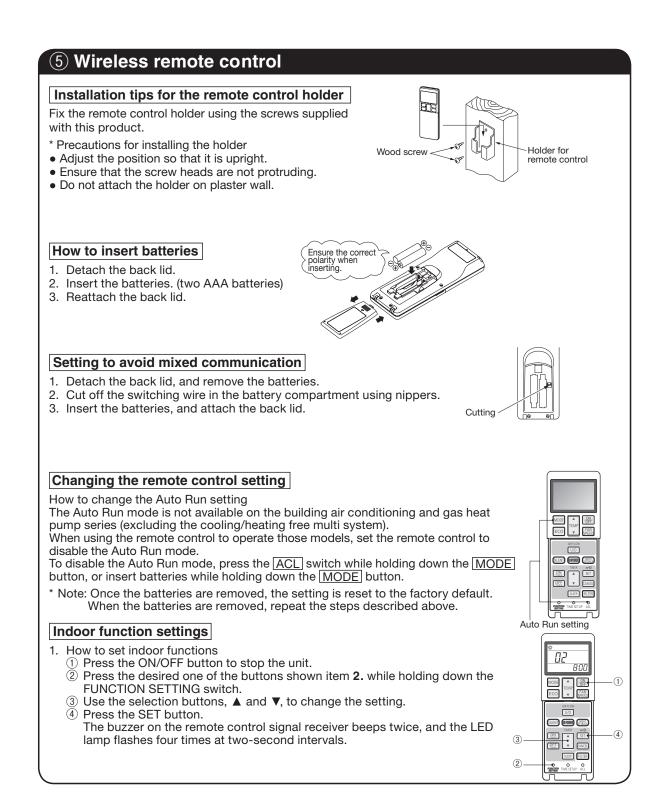
ON : Valid OFF : Invalid

SW4

Auto restart



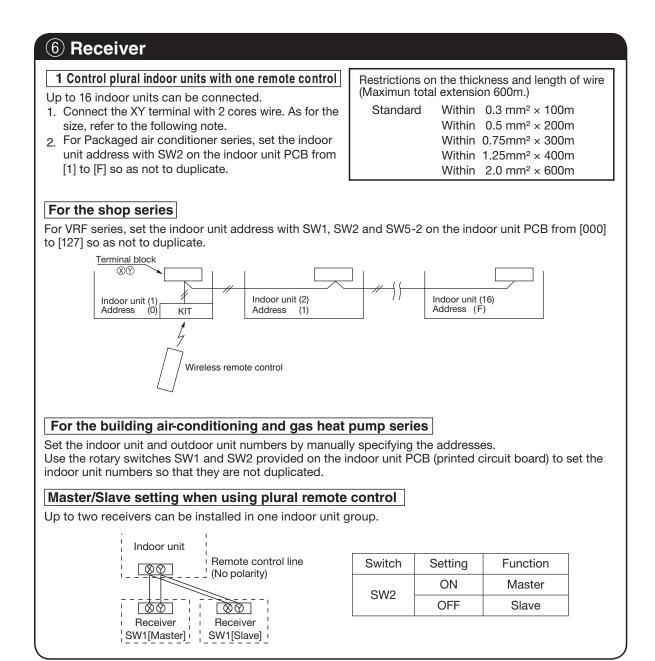




### **(5) Wireless remote control (continued)**

2. Setting details The following functions can be set.

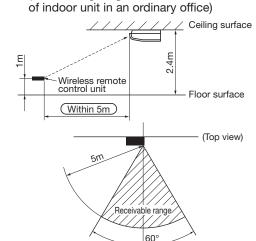
Button	Number indicator	Function setting			
FAN SPEED	00	Fun speed setting : Standard			
	01	Fun speed setting : Setting 1 *			
	02	Fun speed setting : Setting 2 *			
MODE	00	Room heating temperature adjustment : Disable			
	01	Room heating temperature adjustment : +1°C			
	02	Room heating temperature adjustment : +2°C			
	03	Room heating temperature adjustment : +3°C			
FILTER	00	Filter sign display : OFF			
	01	Filter sign display : 180 hours			
	02	Filter sign display : 600 hours			
	03	Filter sign display : 1000 hours			
	04	Filter sign display : Operation stop after 1000 hours have elapsed			
U/P (Up/Down)	00	Anti draft setting : Disable			
	01	Anti draft setting : Enable			
SILENT	00	Infrared sensor setting (Motion sensor setting) : Disable			
	01	Infrared sensor setting (Motion sensor setting) : Enable			
HI POWER	00	Infrared sensor control (Motion sensor control) : Disable			
	01	Infrared sensor control (Motion sensor control) : Power control only			
	02	Infrared sensor control (Motion sensor control) : Auto OFF only			
	03	Infrared sensor control (Motion sensor control) : Power control + Auto OFF			
	00	Cooling fan residual-period running : Disable			
	01	Cooling fan residual-period running : 0.5 hours			
ON TIMER	02	Cooling fan residual-period running : 2 hours			
	03	Cooling fan residual-period running : 6 hours			
OFF TIMER	00	Heating fan residual-period running : Disable			
	01	Heating fan residual-period running : 0.5 hours			
	02	Heating fan residual-period running : 2 hours			
	03	Heating fan residual-period running : 6 hours			
NIGHT SETBACK	00	Remote control signal receiver LED : Brightness High			
	01	Remote control signal receiver LED : Brightness Low			
	02	Remote control signal receiver LED : OFF			



### **(6)** Receiver (continued)

#### Wireless remote control's operable area

1. Standard signal receiving range [Condition] Illuminance at the receiver area: 300 lux. (When no lighting fixture is located within 1m

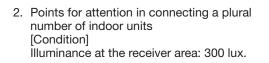


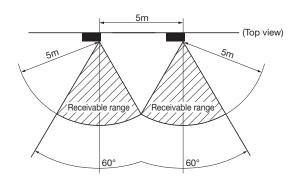
#### Backup switch

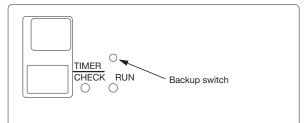
A backup switch is provided on the receiver section of the panel surface.

When operation from the wireless remote control unit is not possible (due to flat batteries, a mislaid unit, a unit failure), you can use it as an emergency means. You should operate this switch manually.

 If pressed while the air-conditioner is in a halt, it will cause the air-conditioner to start operation in the automatic mode (in the case of cooling only, in the cooling mode).
 Wind speed: Hi fan, Temperature setting: 23°C, Louver: horizontal.







2. If pressed while the air-conditioner is in operation, it will stop the air-conditioner.

#### Cooling test run operation

- After safety confirmation, turn on the power.
- Transmit a cooling operation command with the wireless remote control unit, while the backup switch on the receiver is depressed.
- If the backup switch on the receiver is pressed during a test run, it will end the test run.
- If you cannot operate the unit properly during a test run, please check wiring by consulting with inspection guides.

#### How to read the two-digit display

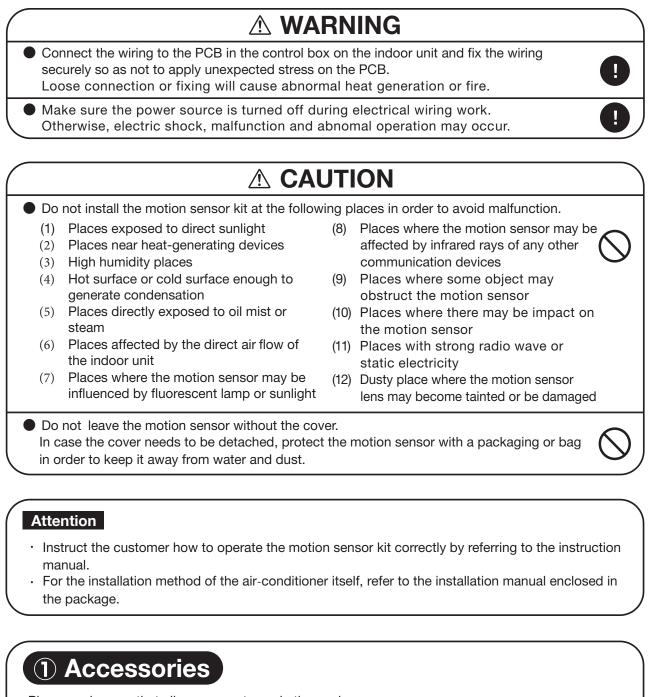
A two-digit indicator (7-segment indicator) is provided on the receiver section.

- 1. An indication will be displayed for one hour after power on.
- 2. An indication appears for 3.5 seconds when a "Stop" command is sent from the wireless remote control unit while the air-conditioner is not running.
- 3. An indication appearing in (1) or (2) above will go off as soon as the unit starts operation.
- 4. When there are no error records to indicate, addresses are displayed for all of the connected units.
- 5. When there are some error records remaining, the error records are displayed.
- 6. Error records can be cleared by transmitting a "Stop" command from the wireless remote control unit, while the backup switch is depressed.

#### 8.4 Motion sensor kit

(1) FDTC series (LB-TC-5W-E)

PJF012D504



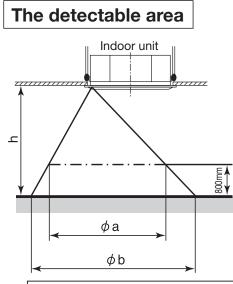
Please make sure that all components are in the package.

Motion sensor

1

## (2) Installing the motion sensor

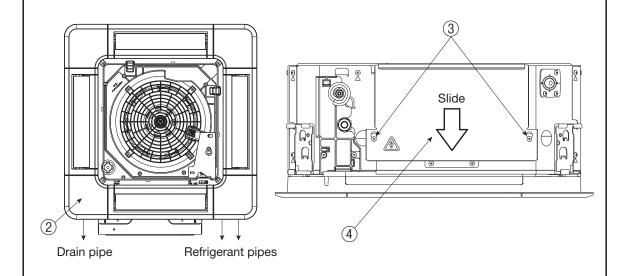
It is possible to install the motion sensor by replacing the corner lid on the panel.



Height of the ceiling	h[m]	2.7	3.5	4.0
Detectable area	$\phi$ a[m]	about 4.5	about 6.4	about 7.6
Detectable area <sup>(2)</sup>	$\phi$ b[m]	about 6.4	about 8.3	about 9.5

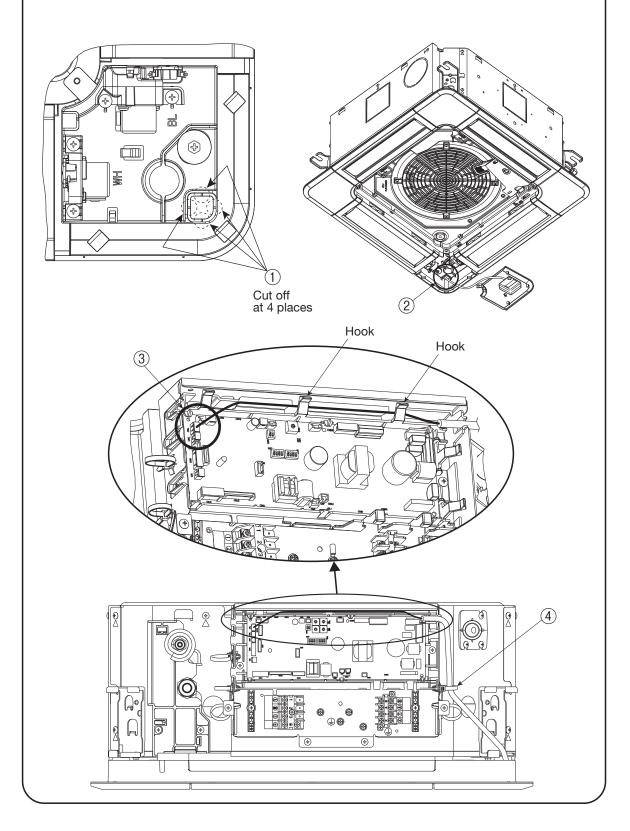
### Preparation before installation

- ① Remove the inlet grille according to the installation manual of the panel.
- ② Remove the corner lid at the drain pipe side.
- ③ Loosen screws (2 pcs) on the control box of the unit. (It is not necessary to remove the screws.)
- 4 Slide the control lid in the arrow direction, and remove it.



### Installation of the motion sensor

- ① Cut the half blanking (4 sections) of the panel as shown in the following figure.
- 2 Pass the motion sensor wiring through the opening of the panel.
- ③ Connect the wiring connector to CNL (3P, black) on the PCB in the control box.
- 4 Fix the wiring with a band as shown below.
- $\bigcirc$  Install the motion sensor on the panel according to the installation manual of the panel.
- (6) Install the control lid with care not to pinch the wiring, and reinstall the control lid with screws (2 pcs.).



# **3** Setting the motion sensor

The motion sensor will not function if it is only installed. Set the function of the motion sensor by the wired or wireless remote control. Refer to the manual instruction of each remote control for the setting procedure.

Note: It is not possible to set by the following remote control models or older ones. Wired:RC-EX1A, RC-E5, RCH-E3 Wireless: RCN-E1R

#### (2) FDUM series (LB-KIT)

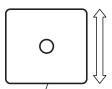
PJZ012D122 🛦 Connect the wiring to the PCB in the control box on the indoor unit and hold the wiring securely so as not to apply unexpected stress on the PCB. Loose connection or hold will cause abnormal heat generation or fire. Make sure the power source is turned off when electric wiring work. Otherwise, electric shock, malfunction and improper running may occur. Do not install the motion sensor kit at the following places in order to avoid malfunction. (1) Places exposed to direct sunlight (8) Places where the motion sensor is affected (2) Places near heat devices by infrared rays of any other communication (3) High humidity places devices (4) Hot surface or cold surface enough to (9) Places where some object may obstruct the generate condensation motion sensor Places exposed to oil mist or steam directly (10) Place that the motion sensor have a shock (5) (6) Places affected by the direct air flow of (11) Place with the strong radio wave or Static the Indoor unit electricity (7) Places where the motion sensor is (12) Place that motion sensor lens become influenced by the fluorescent lamp or tainted or have damaged. Dusty place (13) Place where it runs in parallel with strong sunlight voltage lines such as power source wiring Do not leave the motion sensor without the cover. In case the cover needs to be detached, protect the motion sensor with a packaging or bag. In order to keep it away from water and dust. Attention This manual describes how to install the motion sensor kit. • Instruct the customer how to operate it correctly referring to the instruction manual. For the installation method of the air-conditioner itself, refer to the installation manual enclosed in the package. **(1)** Accessories Please make sure that all components are in the package.

Motion sensor	Wiring <1>	Wiring <2>	2 screws	Manual
0	In case of CnL connector on the indoor unit PCB (FDT/FDK/FDTC)	In case of CnL connector is not on the indoor unit PCB	On On	

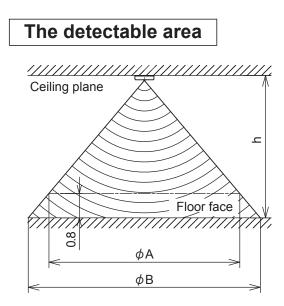
\* Please prepare a relay wiring for connecting the motion sensor and indoor unit on site. (0.2 mm<sup>2</sup> or thicker, triplex (red, white and black) cable for communication, with the maximum length of 8 m.)

# (2) Installing the motion sensor

- The recommended height is lower than 4000 mm for motion sensor. When the installation height is higher, motion detection accuracy might be reduced.
- Sensor will detect the object with a different temperature from the surrounding.
- · Sensor may not detect small children or infants with little motion.
- Although motion sensor can be installed on a wall, it is recommended to install it on the ceiling plane.
- If the sensor is installed on the wall, the sensing distance in the front direction is about 5 m, covering the angle of about 100 degrees.



Side of screws for fixing the case



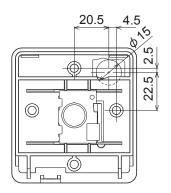
Height of the ceiling	h (m)	2.7	3.5	4.0
Detectable area	φ A (m)	4.5	6.4	7.6
Detectable area	$\phi$ B (m)	6.4	8.3	9.5

## Installing the motion sensor

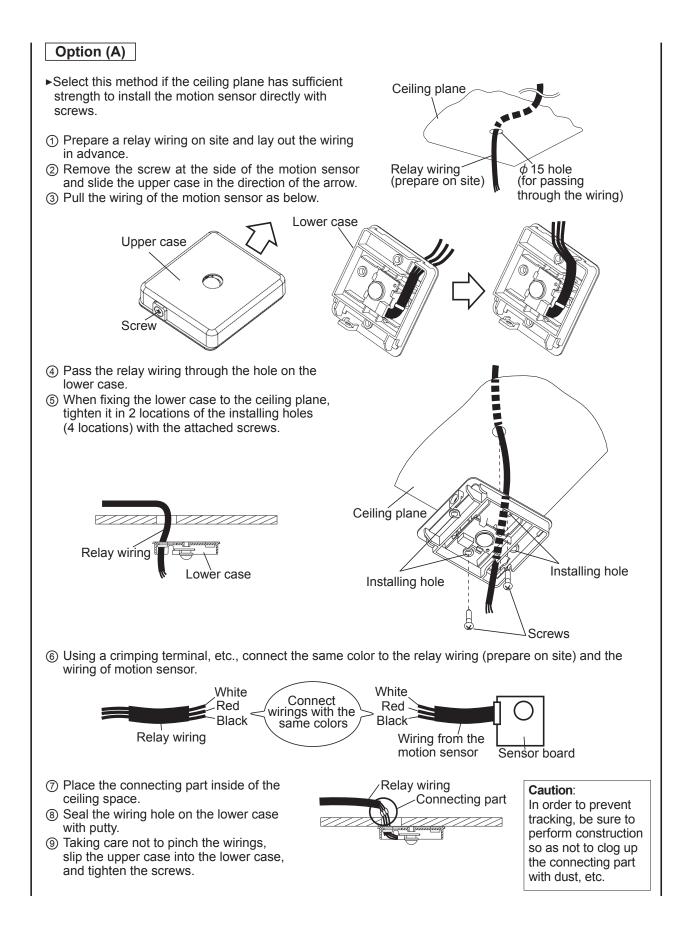
There are the following 3 methods to install the motion sensor on the ceiling plane or wall surface (hereinafter called "ceiling plane"). Select the method according to the installation position.

<How to install>

- (A) Direct installation by screws to the ceiling plane with the wiring in the ceiling space.
- (B) Direct installation by screws to the ceiling plane with the wiring in the room.
- (C) Installation with switch box (prepare at the site)

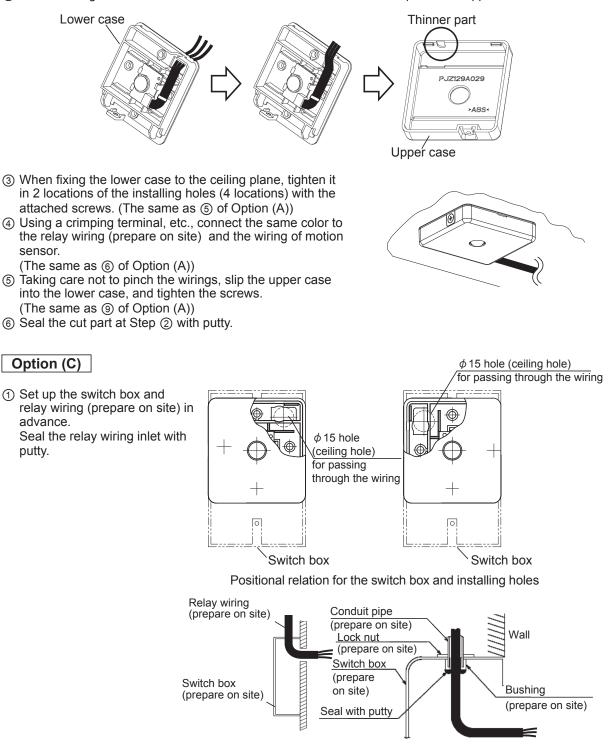


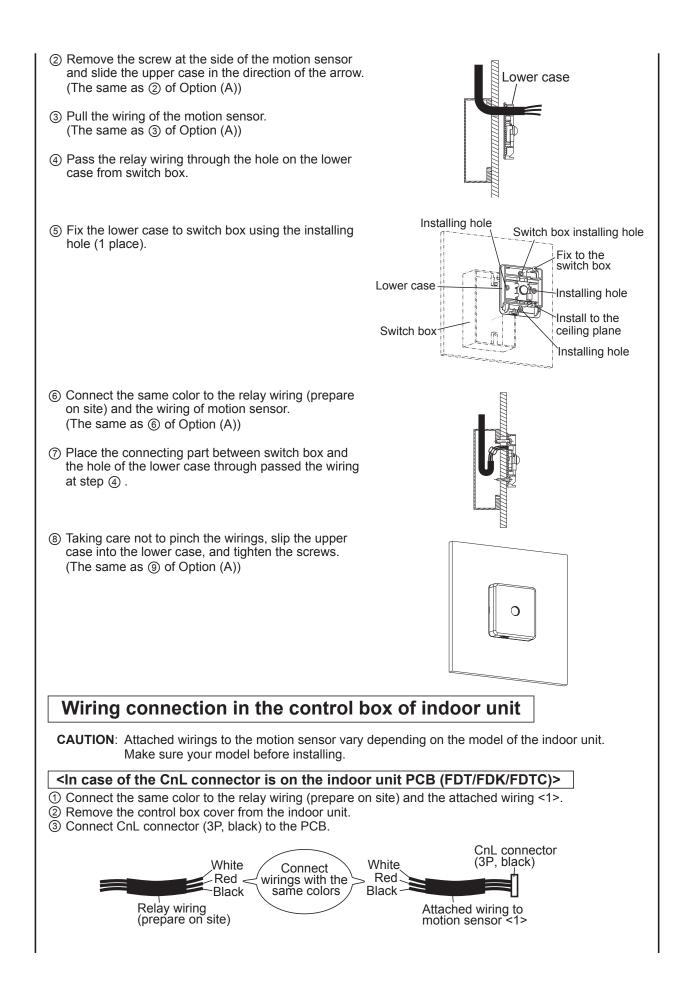
Positional relation for pulling out relay wiring hole and installing holes.

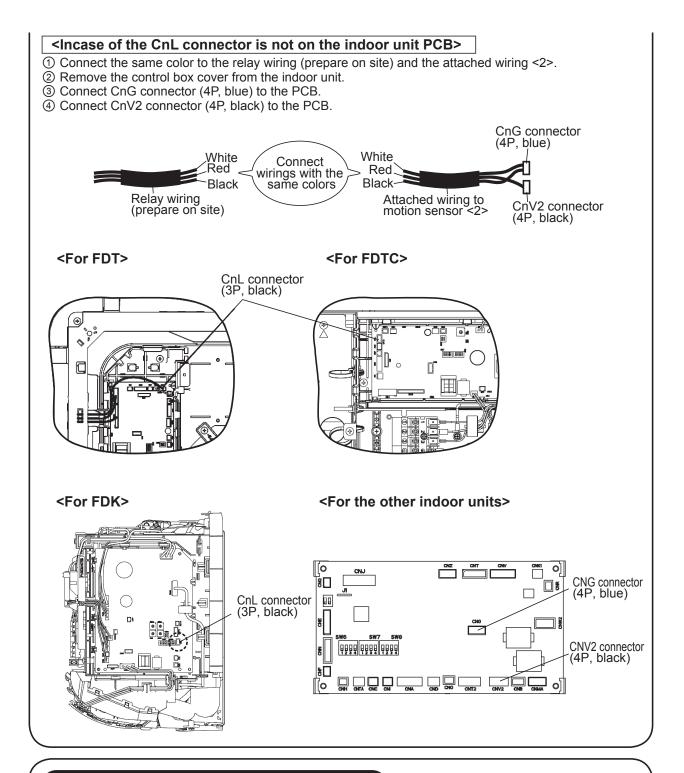


## Option (B)

- Select this method if the ceiling plane has sufficient strength to install the motion sensor directly with screws.
- Remove the screw at the side of the motion sensor and slide the upper case in the direction of the arrow. (The same as ② of Option (A))
- ② Pull the wiring of the motion sensor toward the side. Cut off the thinner part of the upper case.







# **③** Setting the motion sensor

The motion sensor will not function if it is only installed.

Set the function of the motion sensor by the wired or wireless remote control. Refer to the manual instruction of each remote control for the setting procedure.

Note: It is not possible to set by the following remote control models or older. Wired:RC-EX1A, RC-E5, RCH-E3 Wireless: RCN-E1R

### (3) FDE series (LB-E)

### PFA012D633 🛦

## Connect the wiring to the PCB in the control box on the indoor unit and hold the wiring securely so as not to apply unexpected stress on the PCB. Loose connection or hold will cause abnormal heat generation or fire. Make sure the power source is turned off when electric wiring work. Otherwise, electric shock, malfunction and improper running may occur.

# 

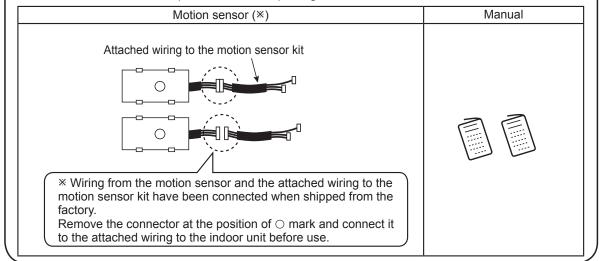
- Do not install the motion sensor kit at the following places in order to avoid malfunction.
  - (1) Places exposed to direct sunlight
  - (2) Places near heat devices
  - (3) High humidity places
  - (4) Hot surface or cold surface enough to generate condensation
  - (5) Places exposed to oil mist or steam directly (10) Place that the motion sensor have a shock
  - (6) Places affected by the direct air flow of the Indoor unit
  - (7)Places where the motion sensor is influenced by the fluorescent lamp or sunlight
- (8) Places where the motion sensor is affected by infrared rays of any other communication devices (9) Places where some object may obstruct the
  - motion sensor
- (11) Place with the strong radio wave or Static
  - electricity
- (12) Place that motion sensor lens become tainted or have damaged. Dusty place
- Do not leave the motion sensor without the cover. In case the cover needs to be detached, protect the motion sensor with a packaging or bag.
  - In order to keep it away from water and dust.

## Attention

- This manual describes how to install the motion sensor kit.
- Instruct the customer how to operate it correctly referring to the instruction manual.
- · For the installation method of the air-conditioner itself, refer to the installation manual enclosed in the package.

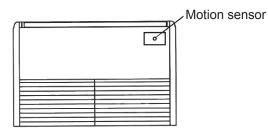
# **1** Accessories

Please make sure that all components are in the package.

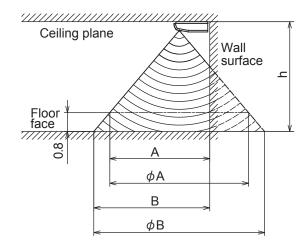


# (2) Installing the motion sensor

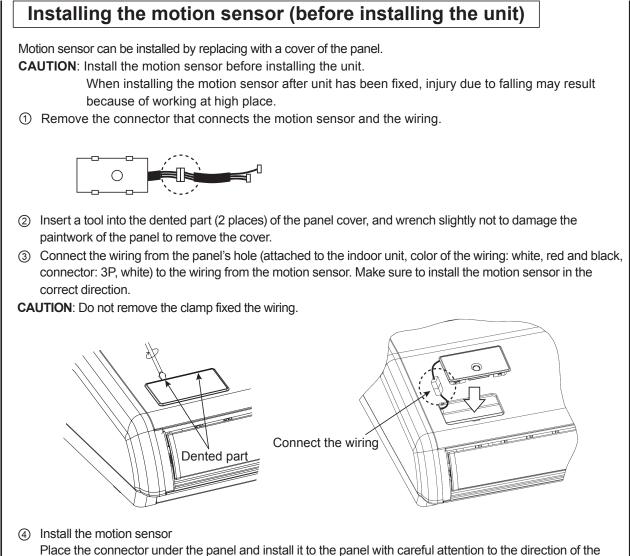
- It is possible to install the motion sensor by replacing the indoor unit.
- The recommended height is lower than 4000 mm for motion sensor. When the installation height is higher, motion detection accuracy might be reduced.
- Sensor will detect the object with a different temperature from the surrounding.
- · Sensor may not detect small children or infants with little motion.
- Use the separate motion sensor so that person's activity can be detected when the detectable area differs from the person's activity area.
- Use the separate motion sensor when using both wireless remote control and motion sensor together.



## The detectable area



Height of the ceiling	h (m)	2.7	3.5	4.0
Detectable area	A (m)	2.9	3.9	4.5
Detectable area	$\phi$ A (m)	4.5	6.4	7.6
Detectable area	B (m)	3.9	4.8	5.4
Detectable area	$\phi$ B (m)	6.4	8.3	9.5



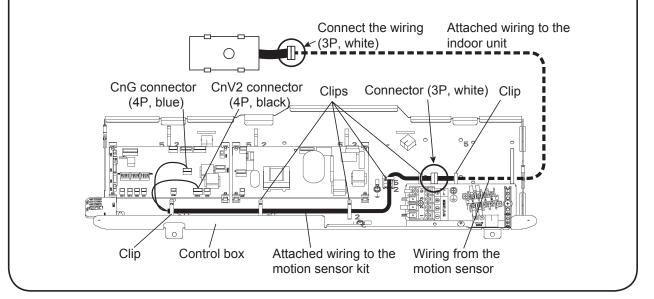
Place the connector under the panel and install it to the panel with careful attention to the direction of the motion sensor.

CAUTION: Connect the connectors before installing the motion sensor.

In case of connecting after the motion sensor has been installed, it will be necessary to remove the panel.

# Wiring connection in the control box

- ① Connect the wiring from the motion sensor (attached to the indoor unit, color of the wiring: white, red and black, connector: 3P, white) to the attached wiring to the motion sensor kit.
- ② Fix the wiring with clips (6 places).
- ③ Connect CnG connector (4P, blue) to the PCB.
- ④ Connect CnV2 connector (4P, black) to the PCB.



# **③** Setting the motion sensor

The motion sensor will not function if it is only installed. Set the function of the motion sensor by the wired or wireless remote control. Refer to the manual instruction of each remote control for the setting procedure.

Note: It is not possible to set by the following remote control models or older. Wired:RC-EX1A, RC-E5, RCH-E3 Wireless: RCN-E1R

PJZ012A164

# SAFETY PRECAUTIONS

# 

If a child, person with disease or other persons needed for assist uses this product, people around the person should take sufficient care.

A halt of the air-conditioner due to abnormal situation or motion sensor's control may cause a feeling of sickness or accident.

# ATTENTION

- The sensor may not detect a person near the border of detection range.
- Installation near an object with a different temperature from the surrounding may cause a false detection of human.
- Due to correction of temperature setting, some people may feel chilly.

This product uses infrared sensor to detect person's activity level to support control of air-conditioner. Please set the control you like from the remote control.

Indoor unit control	Detective situation	Description of control	Display of eco touch remote control
① Power control	Activity level is large	large Lower the indoor temperature setting for comfort.	
	Activity level is small	Raise the indoor temperature setting for energy-saving.	Power control ON
② Auto-off	No one is detected for 1 hour	Stop operation and stand by	In auto-off mode
2 Auto-on	No one is detected for 12 hours	Stop operation	-
1+2	Any combination of the above	Any of the above	Any of the above
All disabled (default setting)	-	Standard control	-

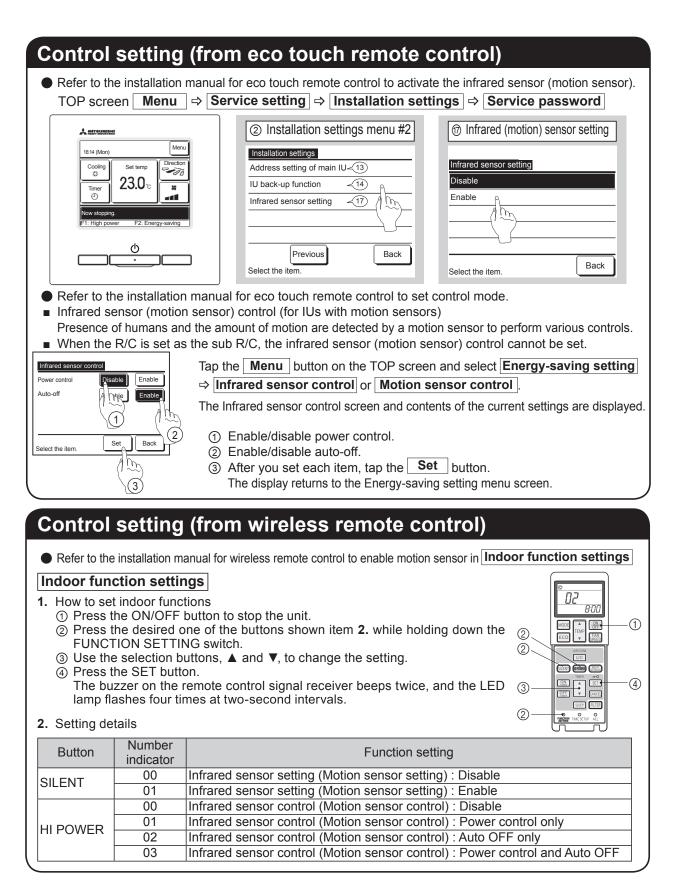
If the sensor is disconnected or defective, the control will be set as if it no detects (or less) activity level.

Refer to the next section for setting method.

- When power control is enabled
- 20:20 (Tue) Heating ☆ 23.0 c Immer 23.0 c \* Power control ON F1: High power F2: Energy-saving
- The amount of human motion is detected by a motion sensor to adjust the Set temp.

During power control, "Power control ON" will be displayed on the message display.

- When auto-off is enabled
- The unit will enter the "Operation wait" state when an hour has elapsed since the last time a human presence was detected and will be in "Complete stop" state after another 12 hours.
- "Operation wait"...The unit stops but will resume operation when human presence is detected. When the unit is in "Complete stop", "In auto-off mode" will be displayed on the message display.
- "Complete stop"...When auto-off is enabled, the unit stops. The unit will not resume operation even when human presence is detected. The message "In auto-off mode" will disappear from the message display, and the operation lamp will turn off.



## 8.5 Interface kit (SC-BIKN2-E)

Accessories included in package

Be sure to check all the accessories included in package.

ON\*\*

OFF

SW2-2

\*\* Factory setting

Wired remote control : Enable

Wired remote control : Disable

\* When RC-EX3A is connected, please use SC-BIKN2-E by all means.

### RKZ012A099

Before use, please read these Safety precautions thoroughly

before installation.

#### •All the cautionary items mentioned below are important safety related items to be taken No. Part name Quantity into consideration, so be sure to observe them at all times. 1 1 Indoor unit's connection cable (cable length: 1.8m) Incorrect installation could lead to serious consequences such as death, major A Warning 2 Wood screws (for mounting the interface: $\phi 4x 25$ ) 2 injury or environmental destruction. 3 Tapping screws (for the cable clump and the interface mounting bracket) 3 • Symbols used in these precautions 4 Interface mounting bracket 1 Always go along these instruction. 5 Cable clamp (for the indoor unit's connection cable) 1 6 CnT terminal connection cable (total cable length: 0.5m) 1 After completed installation, carry out trial operation to confirm no anomaly, and ask the user to keep this installation manual in a good place for future reference. ∕₹∖ Warnings Installation must be carried out by a qualified installer. Į If you install it by yourself, it may cause an electric shock, fire and personal injury, as a result of a system malfunction. •Install it in full accordance with the installation manual. Incorrect installation may cause an electric shock, fire and personal injury. • Electrical work must be carried out by a qualified electrician in accordance with the technical standard for electrical equipment, the indoor wiring standard and this installation manual. Incorrect installation may cause an electric shock, fire and personal injury. Ouse the specific cables for wiring. And connect all the cables to terminals or connectors securely and clamp them with cable clamps in order for external forces not to be transmitted to the terminals directly. Incomplete connection may cause malfunction, and lead to heat generation and fire. • Use the original accessories and specified components for installation. If the parts other than those prescribed by us are used, it may cause an electric shock, fire and sersonal injury. Connecting the indoor unit's connection cable to the interface Wiring inlet (top or back) ③ Fix the cable with the (1)Remove the upper case of the interface. cable clamp • Remove 2 screws from the interface casing before removal of upper casing. 2 Connect the indoor unit's (2)Connect the indoor unit's connection cable to the interface. connection cable Connect the connector of the indoor unit connection cable to the connector on the interface's circuit board. ③Fix the indoor unit's connection cable with the cable clamp. Ø • Cable can be brought in from the top or from the back. · Cut out the punch-outs for the connection cables running into the casing with cutter. (Connect the indoor unit's connection cable to the indoor control PCB. Connect the indoor unit's connection cable to the indoor control PCB securely. (1)Remove Clamp the connection cable to the indoor control box securely with the cable clamp the upper provided as an accessory. case Regarding the cable connection to the indoor unit, refer to the installation manual for indoor unit. Name of each part of the interface Clamp for clamping indoor ROM terminal unit's connection cable (**4**) Interface board DIP switch (SW2) : [Factory setting : all ON] Terminal for indoor unit's DIP switch (SW3) : [Factory setting : all OFF] connection cable Terminal block for wired Rotary switch (SW1) for address setting remote control\* CnT terminal Terminal block for Superlink E board (SC-ADNA-E)\* 0 Clamp for clamping the connection cable for Clamp for clamping the connection **F** Superlink E board (SC-ADNA-E)\* cable for wired remote control\* \*Either the connection cables of Superlink E board (SC-ADNA-E) or of wired remote control is connectable. Setting Switch Function Switch Setting Function ON\*\* CnT level input External input (CnT input) **ON\*\*** SW2-1 SW2-3 OFF CnT pulse input OFF Operation permission/prohibition (CnT input)

Safety precautions

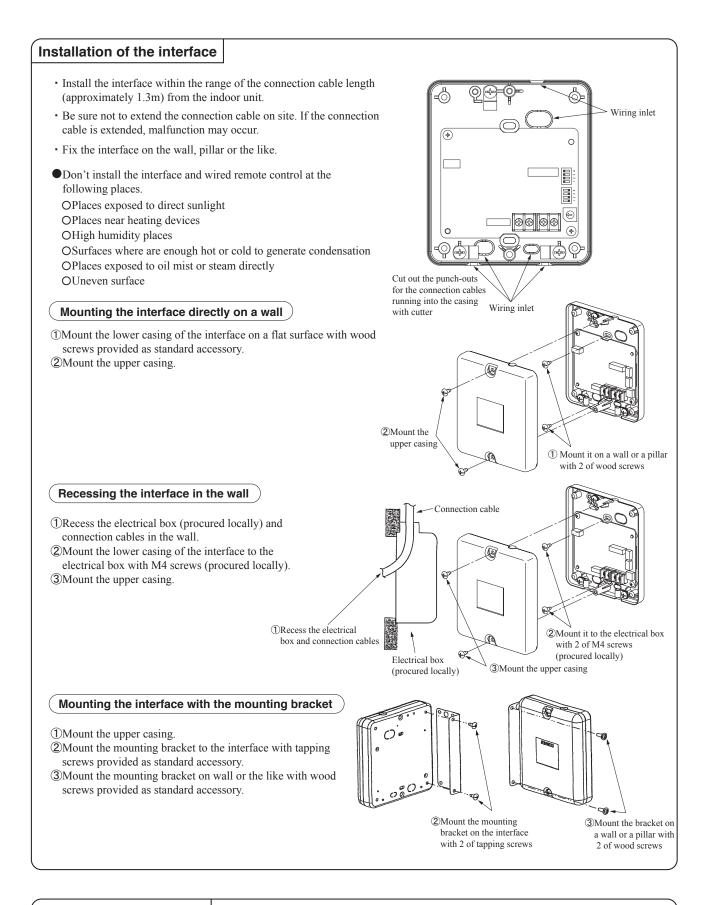
SW2-4

ON\*\*

OFF

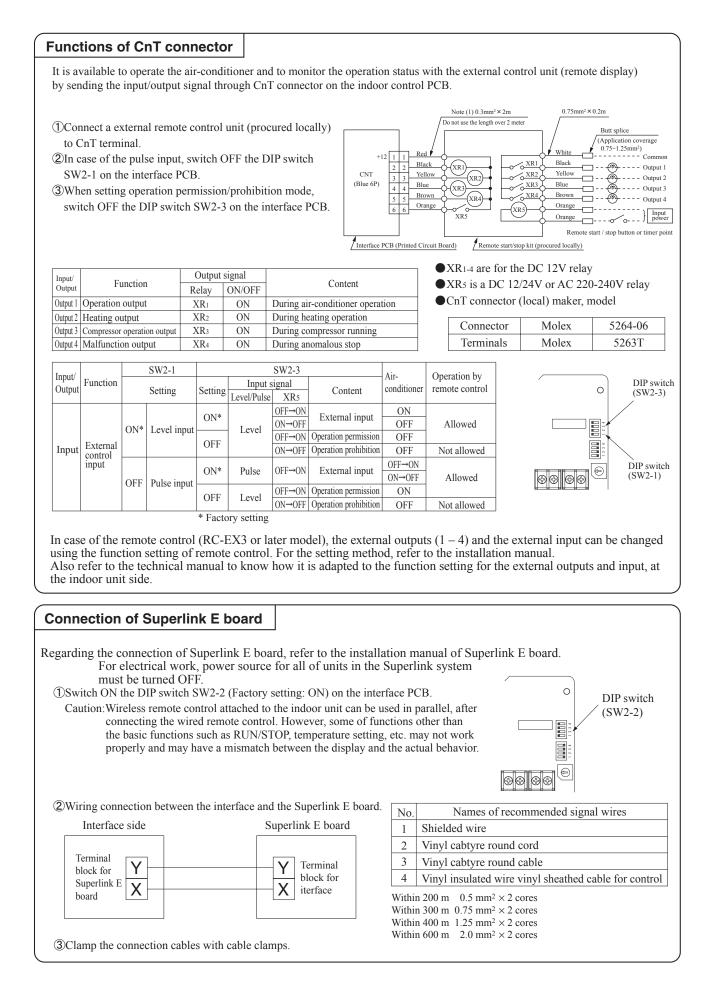
Annual cooling : Enable\*\*\*

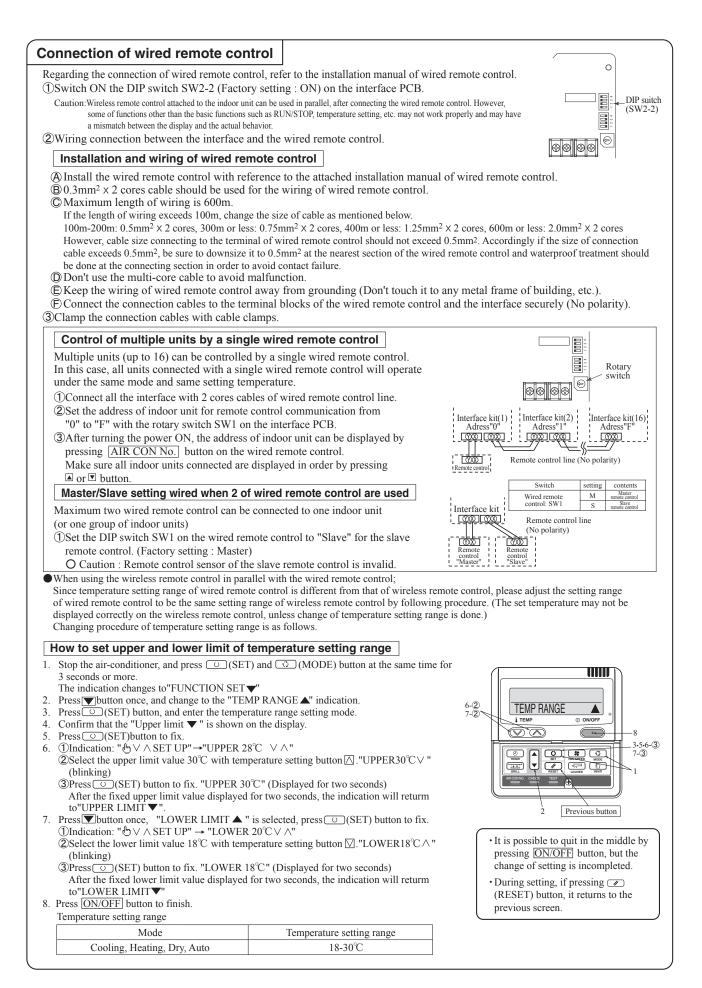
Annual cooling : Disable\*\*\*



### Installation check items

Are the connection cables connected securely to the terminal blocks and connectors?
 Are the thickness and length of the connection cables conformed with the standard?





PJZ012D029K

 $\wedge$ 

## 8.6 Superlink E board (SC-ADNA-E)

Read and understand the instructions completely before starting installation.
 Refer to the instructions for both indoor and outdoor units.

### Safety precautions

- Carefully read "Safety precautions" first. Follow the instructions for installation.
- Precautions are grouped into "Warning<u>A</u>" and "Caution<u>A</u>". The "Warning<u>A</u>" group includes items that may lead to serious injury or death if not observed. The items included in the "Caution<u>A</u>" group also may lead to serious results under certain conditions. Both groups are crucial for safety installation. Read and understand them carefully.
   After installation, conduct the test operation of the device to check for any abnormalities. Describe how to operate the device to the customer following the installation instruction.

## tion manual. Instruct the customer to keep this installation instruction for future reference.

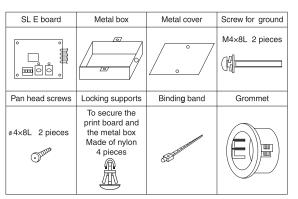
#### ∕∆Warning

- This device should be installed by the dealer where you purchase the device or a licensed professional shop. If the device is incorrectly installed by the customer, it may result in electric shock or fire.
- ustomer, it may result in electric shock or fire.
  Install the device carefully following the installation instruction. If the device is incorrectly installed, it may result in electric shock or fire.
- Use the accessory parts and specified parts for installation. If any parts that do not match the specifications are used, it may result in electric shock or fire.
- A person with the electrical service certification should conduct the service based on the "Technical standards for electrical facilities", "Electrical Wiring Code", and the installation instruction. If the work is done incorrectly, it may result in electric shock or fire.
- Wiring should be securely connected using the specified types of wire. No
  external force on the wire should be applied to any terminals. If a secure
  connection is not achieved, it may result in electric shock or fire.

#### 1 Application

Indoor-to-outdoor three core communication specification type 3 (since October 2007)

#### 2 Accessories



#### 3 Function

Allowing the central control SL1N-E, SL2NA-E, and SL4-AE/BE to control and monitor the commercial air-conditioner unit.

#### 4 Control switching

Settings can be changed by the DIP switch SW3 on the SL E board as in the following.

Switch	Symbol	Switch	Remarks
	,	ON	Master
	1	OFF (default)	Slave
		ON	Fixed previous protocol
	2	OFF (default)	Automatic adjustment of Superlink protocol
SW3	3	ON	Indicates the forced operation stop when abnormality has occurred.
	4	OFF (default)	Indicates the status of running/stop as it is, when abnormality has occurred.
		ON	The hundredth address activated "1"
		OFF (default)	The hundredth address activated "0"

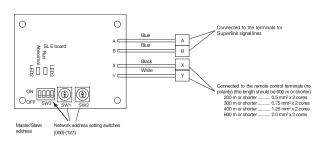
#### Caution

- Provide ground connection.
- The ground line should never be connected to the gas supply piping, the water supply piping, the lightning conductor rod, nor the telephone ground. If the grounding is improper, it may result in electric shock.
- Do not install the device in the following locations.
- 1.Where there is mist/spray of oil or steam such as kitchens. 2.Where there is corrosive gases such as sulfurous acid gas.
- 3.Where there is a device generating electromagnetic waves. These may interfere with the control system resulting in the device becoming uncontrollable.
- 4.Where flammable volatile materials such as paint thinner and gasoline may exist or where they are handled. This may cause a fire.

#### 5 Connection outline

Note for setting the address

- Set the address between 00 and 47 for the previous Superlink connection
- and between 000 and 127 for the new Superlink connection. (\*1)
- Do not set the address overlapping with those of the other devices in the network. (The default is 000)



(\*1) Whether the actual link is either the new Superlink or the previous Superlink depends on the models of the connected outdoor and indoor units. Consult the agent or the dealer.

#### Signal line specification

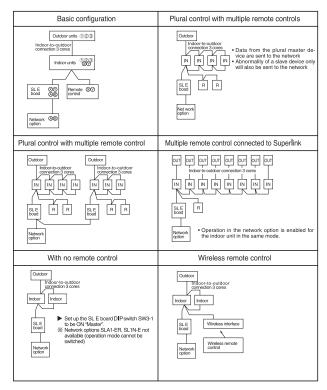
Communication method	Previous Superlink	New Superlink
Line type	MVVS	MVVS
Line diameter	0.75 - 1.25mm <sup>2</sup>	0.75/1.25mm <sup>2</sup>
Signal line (total length)	up to 1000m	up to 1500/1000m (*2)
Signal line (maximum length)	up to 1000m	up to 1000m

(\*2) Up to 1500m for 0.75mm<sup>2</sup>, and up to 1000m for 1.25mm<sup>2</sup>. Do not use 2.0mm<sup>2</sup>. It may cause an error.

(\*3) Connect grounding on both ends of the shielding wire.

For the grounding method, refer to the section "6 Installation".

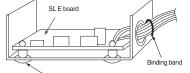
- Set the Superlink network address with SW1 (tens place), SW2 (ones place), and SW3 (hundreds place).
- (2) Set the SL E board SW3-1 to be ON (Master) when using this without any remote control (no wired remote controller nor wireless remote control).
- (3) Set up the plural master/slave device using the DIP switches on the indoor unit board.
- (4) Set up the remote control master/slave device using the slide switch on the remote control board.
- (5) Set up "0" to "F" using the address rotary switch on the indoor unit board when controlling the indoor unit with the multiple remote control.



#### 6 Installation

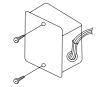
- 1. When using the metal box (mounted on the indoor unit / mounted on the back of the remote control):
  - Mount the SL E board in the metal box using the locking supports.
     Minimum about the statement the second statement sizes the statement of the statement sizes.
  - (2) Wiring should go through the provided grommet since then through the wiring to the hole on the Metal box.

Secure the grommet after inserting the grommet into the Metal box as shown in below figure, then tie the wiring at the outlet of the unit using a binding band.

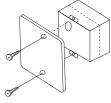


Locking supports (4)

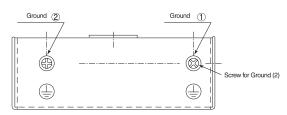




▲ When installed on the back of the remote control, mount it directly on the remote control bottom case.



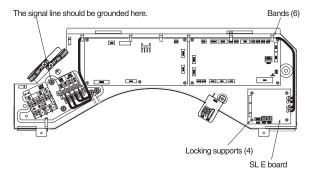
Connect grounding. Connect grounding for the power line to Ground (1), and grounding for the signal line to Ground (2) or to the Ground on the indoor unit control box.



When connecting to the indoor unit control box (ceiling-concealed type and FDT type only):

(1) Mount the SL E board in the control box using the locking supports.

(2) Remove 6 bands from the box and put the wiring through the bands to be secured.



Electrical shock hazard! make sure to turn the power off for servicing. Be cautious so that no abnormal force should be applied to the wiring. Do not let the SL E board hung by the wiring. Do not damage the board with a screw driver.

The board is sensitive to static electricity. Release the static electricity of your body before servicing.

(You can do this by touching the control board which is grounded).

#### Location of installation

Install the device at the location where there are no electromagnetic waves nor where there is water and dust. The specified temperature range of the device is 0 to  $40^{\circ}$ C. Install the device at the location where the ambient temperature stays within the range. If it exceeds the specification, make sure to provide solution such as installing a cooling fan. When used outside of the range, it may cause abnormal operation.

#### 7 Indicator display

Check the LED 3 (green) and LED 2 (red) on the SL E board for flashing.

SL E board LEDs			Display on the
Red	Green	Inspection mode	integrated network control device
Off	Flashing	Normal communication	
Off	Off	<ul> <li>Disconnection in the remote control communication line (X or Y)</li> <li>Short-circuit in the remote control communication line (between X and Y)</li> <li>Faulty indoor unit remote control power</li> <li>Faulty remote control communication circuit</li> <li>Faulty CPU on SL E board</li> </ul>	No corresponding unit number
One flash	Flashing	<ul> <li>Disconnection in the Superlink signal line (A or B)</li> <li>Short-circuit in the Superlink signal line (between A and B)</li> <li>Faulty Superlink signal circuit</li> </ul>	
Two flashes	Flashing	Faulty address setting for the SL E board (Set up the address for previous SL E board : more than 48 new SL E board : more than 128)	
Three flashes	Flashing	<ul> <li>SL E board parent not set up when used without a remote control</li> <li>Faulty remote control communication circuit</li> </ul>	E1
Four flashes	Flashing	<ul> <li>Address overlapping for the SL E board and the Superlink network connected indoor unit</li> </ul>	E2
Off	Flashing	<ul> <li>Number of connected devices exceeds the specification for the multiple indoor unit control</li> </ul>	E10

## 8.7 Ceiling concealed type (SRR) option pats

### (1) Bottom air inlet kit

This manual contains installation points for BOTTOMAIR INLET KIT manufactured by MHI. Carry out the work following the instructions below. Keep this manual properly with USER'S MANUAL provided with the indoor unit.

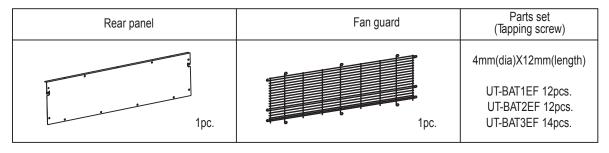
### CAUTION

- After unpacking, carry out this work on the ground.
- Do not carry out the work during operation, or there is a danger of being entangled in the rotating parts and getting injured.
- Be sure to cut off the power and stop the unit before maintenance.

1) Applicable model of unit and type of BOTTOM AIR INLET KIT

BOTT	OM AIR INLET KIT	UT-BAT1EF	UT-BAT2EF	UT-BAT3EF
Model	for FDUT	15,22,28,36	45,56	71
WOUCI	for SRR	25,35	50,60	

#### 2) Parts list of BOTTOM AIR INLET KIT

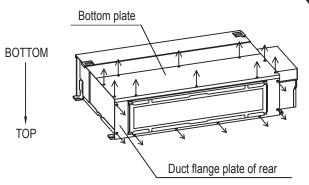


3) Installation Points

(Figure shows the state that the unit is placed on a floor. Top and bottom are inverted after installing the unit.)

(i) Place the unit as shown below.

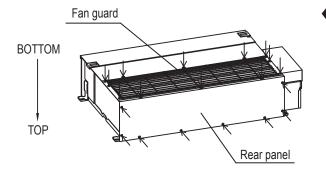
(ii) Remove the bottom plate and duct flange plate of rear from the unit. Keep the removed tapping screws to reuse later.



#### The number of tapping screws to be removed

	Model	Bottom	Rear
	15,22,28,36	10 pcs.	8 pcs.
FDUT	45,56	10 pcs.	9 pcs.
	71	12 pcs.	8 pcs.
SRR	25,35	10 pcs.	8 pcs.
OIXIX	50,60	10 pcs.	9 pcs.

(iii) Install rear panel by using removed tapping screws in process(2). Install fan guard by using tapping screws in parts set.



	Model	Fan guard	Rear panel
	15,22,28,36	12 pcs.	8 pcs.
FDUT	45,56	12 pcs.	9 pcs.
	71	14 pcs.	8 pcs.
SRR	25,35	12 pcs.	8 pcs.
SKK	50,60	12 pcs.	9 pcs.

#### (2) Remote sensor kit (SC-THB-E3)

Sensor for return air temperature detection is located in the air inlet of the indoor unit. Use the remote sensor kit SC-THB-E3, and install it on the suitable wall so the temperature of the room can be accurately detected.

This remote sensor kit is to be used as an alternative to the pre-installed sensor of the indoor unit.

#### 1) Accessory parts

No.	Part name	Q'ty	No.	Part name	Q'ty
1	Sensor box	1	4	Band	1
2	Cable (8m)	1	5	Screw (4X16)	2
3	Tape (Double -stick)	1			

XInstallation manual in the SC-THB-E3 is not it for SRR\_ZM-S.

#### 2) Selection of installation position

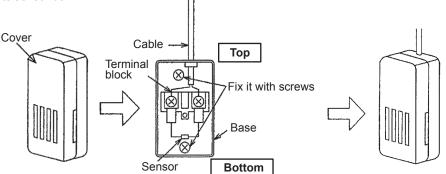
• The thermistor for detecting room temperature is located inside the remote sensor box.

- Do not install the remote sensor in places where.
  - Average room temperature can not be detected.
  - A heat source is located nearby.
  - The wall temperature is different from average room temperature.
  - Affected by the outdoor air when opening / closing the door, etc.
  - The discharge air from indoor unit blows directly.
  - Covered by curtains or other obstacles.
  - Exposed to the sun.
  - Exposed to water, humidity or dew.
- · Mount the remote sensor vertically on the wall surface, etc.
- Run the sensor cable in a place where the power cable or electrical noise will not cause any abnormal operation.

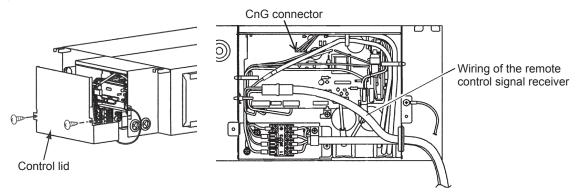
#### 3) Installation procedure

- (a) Insert the tip of slotted screwdriver to the gap between the cover and base of the sensor box (①), and twist it to disassemble.
- (b) Fix the base to the wall with screws (5).
- (c) Connect the cable (2) to the terminal block in the base. (No polarity)
- (d) Attach the cover to the base.

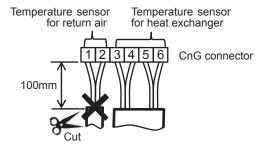
Remote sensor box



(e) Remove the control lid of the indoor unit. Take off CnG connector from PCB of the indoor unit .

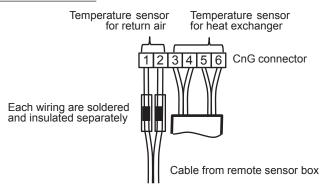


(f) Cut wiring from 1 & 2 pins of CnG connector. (wiring length : about 100 mm from the connector) If the pre-installed return air temperature sensor ASSY is not removed, the end of the sensor wiring should prevent a short circuit by insulating tape etc.



- (g) Insert the cable from remote sensor box to the control box of the indoor unit through the grommet of the remote control signal receiver side.
- (h) Adjust the length of the cable and cut it off. (Connector cable is not need.)
- (i) Connect the cable from remote sensor box and the cut wiring (procedure (f)) of CnG connector. (No polarity)

Be sure to connect the wirings by solder separately. Then, wirings should prevent a short circuit separately by insulating tapes etc. In case of faulty wiring connection, it can cause electrical shock and fire.



- (j) Put CnG connector back on the indoor unit PCB.
- (k) Attach the control lid of the indoor unit.

# 8.8 OA spacer (FDTC only)

This manual describes the installation methods for OA spacer (TC-OAS-E2) and the duct joint (TC-OAD-E).  $\bigcirc$  This OA spacer is designed for assembling on the indoor unit (FDTC Series), not for be using independently.

Application model	FDTC15-56KXZE1
	FDTC25-60VH

 $\bigcirc$  Prepare the duct (size: ø75) and the booster fan at site.

 $\ensuremath{\mathbb O}$  For the installation of indoor unit, refer to the installation manual attached to the indoor unit.

## SAFETY PRECAUTIONS

• Read the "SAFETY PRECAUTIONS" carefully first of all and then strictly follow it during the installation work in order to protect yourself.

<u>A</u> WARNING	
Installation should be performed by the specialist.	0
If you install the unit by yourself, it may lead to serious trouble such as water leakage, electric shock, fire, and injury due to overturn 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.	U
• 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.	U
• Shut off the power before electrical wiring work.	
It could cause electric shock, unit failure and improper running.	U
• 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.	$\bigcirc$
It could cause the corrosion of heat exchanger, breakage of plastic parts etc. And inflammable gas could cause fire.	

## ① Before installation

A spacer (TC	C-0AS-E2)					Duct joint (TC	-OAD-E)		
Spacer	Bracket 1	Bracket 2	Bracket 3	Bracket 4	Bolt	Duct Joint	Screw	Insulation 1 $(120 \times 54)$	Insulation 2 $(40 \times 60)$
		2			A.				$\bigcirc$
1	2	2	2	2	8	1	6	1	2

## 2 Prior study before installation (Usage limitation)

#### (1) Temperature conditions for OA spacer

- · Adjust the temperature conditions of mixed air with outdoor air and indoor air within the usage range of suction air temperature for the air-conditioner.
- · The usage temperature conditions of intake outdoor air and indoor air around the ducts are shown in the following table.
- · If the temperature conditions of intake outdoor air do not meet, process the outdoor air before intaking.

On another manda	Usage temperature conditions					
Operation mode	Intake outdoor air	Indoor air around the ducts				
In heating 5°C DB or higher		18.5°C WB or lower and 60% RH or lower				
In cooling	29°C DB or lower and 80% RH or lower	20°C DB or higher				

#### (2) Intake outdoor air volume

Intake outdoor air volume is 3.0 m<sup>3</sup>/min at the maximum (when two sets of duct joints are used). Up to two sets of duct joint can be installed on OA spacer. In case one set of duct joint is installed: 1.5 m<sup>3</sup>/min max.

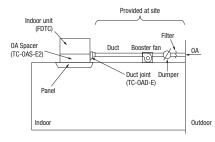
- In case two sets of duct joint is installed: 3.0 m<sup>3</sup>/min max.

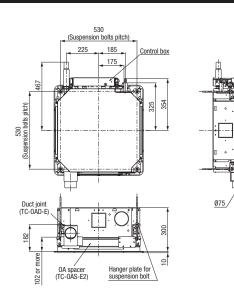
#### (3) Selection of booster fan

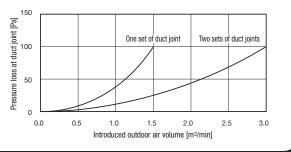
· Select the booster fan based on the duct resistance plus the pressure loss at the duct joint. (See the figure)

#### (4) Other conditions

- Determine the capacity of air conditioner based on the calculation of air-conditioning load including the heat load of intake outdoor air.
- . Install the filter for the intake outdoor air and the reverse flow prevention dumper during the duct work at site.
- Insulate the duct and duct joint in order to prevent dewing.
- · Interlock the operation of booster fan with ON/OFF operation of the indoor unit. (See Section 7.)

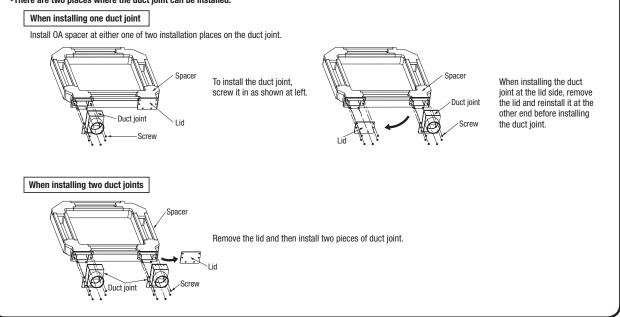






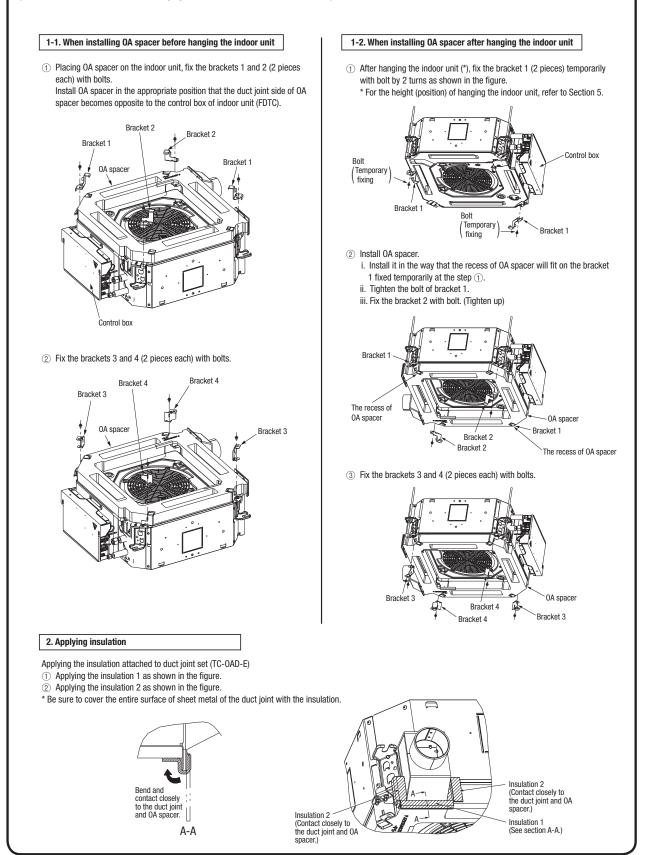
## ③ Installation of duct joint (TC-OAD-E) onto OA spacer

#### ·There are two places where the duct joint can be installed.



## ④ Installation of OA spacer on the indoor unit

OA spacer can be installed regardless whether the indoor unit has already been hanged or not. (It is recommended to install before hanging the unit for convenience of installation.)



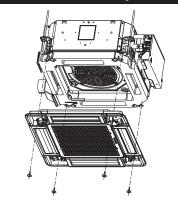
## **(5) Installation of indoor unit**

#### Work procedure

- 1. This units is designed for  $2 \times 2$  grid ceiling.
- If necessary, please detach the T bar temporarily before you install it.
- If it is installed on a ceiling other than  $2 \times 2$  grid ceiling, provide an inspection port on the control box side.
- 2. Arrange the suspension bolt at the right position (530mm530mm).
- 3. Make sure to use four suspension bolts and fix them so as to be able to hold 500N load.

4. Ensure that the lower end of the suspension bolt should be 102mm above the ceiling plane. Temporarily put the four lower nuts 182mm above the ceiling plane and the upper nuts on distant place from the lower nuts in order not to obstruct hanging the indoor unit or adjust the indoor unit position, and then hang the indoor unit. 5. Adjust the indoor unit position after hanging it by inserting the level gauge (Packed together with the indoor unit.) attached on the package into the air supply port and checking if the gap between the ceiling plane and the indoor unit is appropriate. (\*) In order to adjust the indoor unit position, adjust the lower nuts while the upper nuts are put on distant place. Conrm there is no backlash between the hanger plate for suspension bolt and the lower nut and washer. \* Use the level gauge only when OA spacer has been installed before hanging (4) 1-1 only). Suspension bolt Correct Wrong Nut (upper) Indoor unit Use level gauges Unit Unit as refrence,  $\Diamond$ adjust the bottom Flat washer to the face of the OA spacer. OA spacer Spring washer 35 Nut (lower) Ceiling 182mm Touch the nut (lower) and Play is left between the fixture Level gauge (Packed together with the indoor unit) T-ba 102mm and the nut (lower) and washer washer without any play

## **(6)** Installation of panel



Tighten the panels to the brackets 3 and 4 with bolts. For further details, refer to the installation manual of panel.

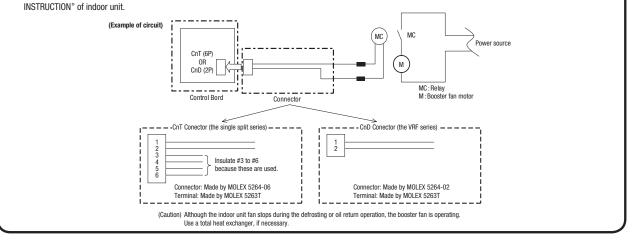
(Caution) Connect the connector of lover motor within the control box.

Ceiling surface

## $\bigcirc$ Interlocking with the indoor unit fan

© Connect the single split series and the VRF series to CnT on the indoor PCB and to CnD on the indoor PCB respectively. If a ventilation device is connected been geared with the motion of indoor device (ON: DC12V output, OFF: 0V output), the ventilation device is operated/stopped.

©Set it at "VENT LINK" by selecting "No. 11 VENT LINK SET" from the functional setting by remote control. For details, refer to the "ELECTRIC WIRNG WORK

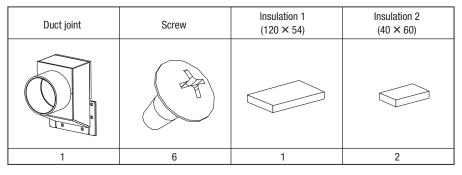


## 8.9 Duct joint (FDTC only)

## PJZ012D073

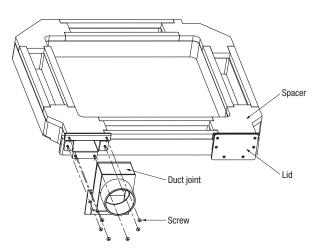
## • This product is used by assembling on the spacer (TC-OAS-E2) **1.Before installation**

• Confirm the following parts are included:



## 2.Regarding the use of this product

- Fix the product on the spacer (TC-OAS-E2) as shown below.For the installation method, refer to the installation manual of the spacer.



## 8.10 Filter kit (FDUM only)

PJZ012D076A

This manual contains installation points and operating instructions for the filter kit manufactured by MHI. Carry out the work following the instructions below.

This manual also contains information on the usage after installation,

so keep this manual properly with USER'S MANUAL provided with the indoor unit.



· After unpacking, carry out this work on the ground.

- Do not carry out the work during operation, or there is a danger of being entangled in the rotating parts and getting injured.
- Clean the air filter regularly.
- · Be sure to entrust qualified serviceman to performance on the air filter.
- Be sure to cut off the power and stop the unit before performing maintenance.

## 1. Table of filter kit parts No. and corresponding object models

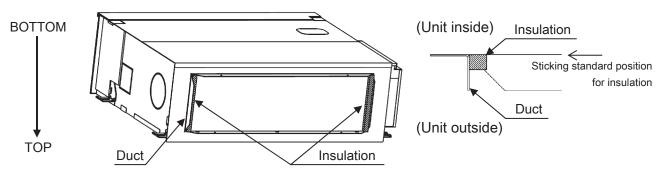
	Small model	Medium model	Large model
Single type	40, 50	60, 71	100 - 140
Multi type	22 - 56	71, 90	112 - 160
Filter Kit	UM-FL1EF	UM-FL2EF	UM-FL3EF

## 2. Parts list of filter kit

Filte	Filter			Insulation
<b>1</b> p	1 pc.		s.	2 pcs.
Bracket		Parts set	(screw)	
	09 09 09	} ¶ } ¶		କ୍ <b>ତ୍</b> ତ୍ତ୍ର କ୍ତ୍ତ୍ତ୍ର
	small and model :	1 medium 5 pcs.	large	e model : 7 pcs.
1 pc.		1 p	ю.	

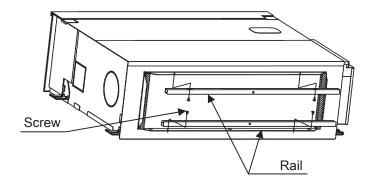
## 3. Installation Points

(1) Stick the insulation on both inner sides of the duct, leaving no space up and down.

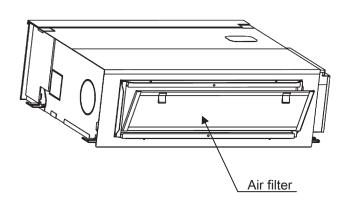


(\*) After unpacking, bottom side of the unit is located at the upper side.

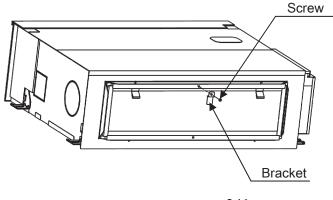
(2) Install the rail on both inner sides of the duct with the screw.

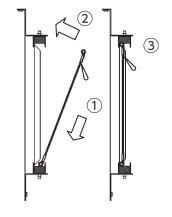


(3) Install the air filter on the rails.



(4) Install the bracket on the rail with the screw.





Installation procesure

(\*\*) When the unit is installed, bottom side of the unit is located at the lower side.

# 9. TECHNICAL INFORMATION

## (1) Model SCM71ZS-W

Information to identify the model(s) to w			If function includes heating: Indicate the		
Indoor unit model name Outdoor unit model name	SRK20ZSX- SCM71ZS-V	N + SRK50ZSX-W	information relates to. Indicated values s heating season at a time. Include at leas		
	30W/ 123-0		heating season at a time. Include at leas	t the heath	ig season Average.
Function(indicate if present)			Average(mandatory)	Yes	
cooling	Yes		Warmer(if designated)	Yes	
heating	Yes		Colder(if designated)	No	
Item	symbol va	alue unit	Item	symbol	value class
Design load			Seasonal efficiency and energy efficience		
cooling	Pdesignc	7.1 kW	cooling	SEER	7.20 A++
heating / Average	Pdesignh	6.7 kW	heating / Average	SCOP/A	4.20 A+
heating / Warmer heating / Colder	Pdesignh Pdesignh	8.5 kW - kW	heating / Warmer heating / Colder	SCOP/W SCOP/C	5.40 A+++
	1 designin		ficating / Colder	000170	unit
Declared capacity at outdoor temperatu	re Tdesignh		Back up heating capacity at outdoor tem	perature T	designh
heating / Average (-10°C)	Pdh	6.7 kW	heating / Average (-10°C)	elbu	0 kW
heating / Warmer (2°C)	Pdh Pdh	8.5 kW - kW	heating / Warmer (2°C)	elbu elbu	0 kW - kW
heating / Colder (-22°C)	Full	- KVV	heating / Colder (-22°C)	eibu	- KVV
Declared capacity for cooling, at indoor	temperature 2	27(19)°C and	Declared energy efficiency ratio, at indo	or tempera	ture 27(19)°C and
outdoor temperature Tj		. ,	outdoor temperature Tj		
Tj=35℃	Pdc	7.1 kW	Tj=35°C	EERd	3.6 -
Tj=30℃ Tj=25℃	Pdc Pdc	5.2 kW 3.2 kW	Tj=30°C Tj=25°C	EERd EERd	5.4 - 9.3 -
Tj=20°C	Pdc	3.4 kW	Tj=20°C	EERd	13.8 -
		••••	.) 200	22.10	
Declared capacity for heating / Average		door	Declared coefficient of performance / Av		son, at indoor
temperature 20°C and outdoor temperat			temperature 20°C and outdoor temperat		
Tj=-7°C Tj=2°C	Pdh Pdh	6 kW 3.6 kW	Tj=-7℃ Tj=2℃	COPd	2.9 -
Tj=2°C Tj=7°C	Pan Pdh	2.3 kW	Tj=2°C Tj=7°C	COPd COPd	4.2 - 5.1 -
Tj=12°C	Pdh	2.5 kW	Tj=12℃	COPd	6.5 -
Tj=bivalent temperature	Pdh	6.7 kW	Tj=bivalent temperature	COPd	2.2 -
Tj=operating limit	Pdh	6.2 kW	Tj=operating limit	COPd	2 -
Declared capacity for heating / Warmer temperature 20°C and outdoor temperat		door	Declared coefficient of performance / W temperature 20°C and outdoor temperat		son, at indoor
Tj=2°C	Pdh	8.5 kW	Tj=2°C	COPd	2.55 -
Tj=7°C	Pdh	5.4 kW	Tj=7℃	COPd	5 -
Tj=12°C	Pdh	2.5 kW	Tj=12°C	COPd	6.6 -
Tj=bivalent temperature	Pdh	8.5 kW	Tj=bivalent temperature	COPd	2.55 -
Tj=operating limit	Pdh	6.2 kW	Tj=operating limit	COPd	2 -
Declared capacity for heating / Colder se	eason, at inde	oor	Declared coefficient of performance / Co	lder seaso	on, at indoor
temperature 20°C and outdoor temperat			temperature 20°C and outdoor temperat		
Tj=-7°C	Pdh	- kW	Tj=-7°C	COPd	
Tj=2°C Tj=7°C	Pdh Pdh	- kW - kW	Tj=2°C Tj=7°C	COPd COPd	
Tj=12°C	Pdh	- kW	Tj=12℃	COPd	
Tj=bivalent temperature	Pdh	- kW	Tj=bivalent temperature	COPd	
Tj=operating limit	Pdh	- kW	Tj=operating limit	COPd	
Tj=-15°C	Pdh	- kW	Tj=-15°C	COPd	
Bivalent temperature			Operating limit temperature		
heating / Average	Tbiv	-10 °C	heating / Average	Tol	- <b>15</b> ℃
heating / Warmer	Tbiv	2 °C	heating / Warmer	Tol	-15 °C
heating / Colder	Tbiv	- °C	heating / Colder	Tol	- °C
Custing integral			Overline internet official		
Cycling interval capacity for cooling	Pcycc	- kW	Cycling interval efficiency for cooling	EERcyc	
for heating	Pcycc	- kW	for heating	COPcyc	
	. 0,011			50.090	· · · · · ·
Degradation coefficient	. –		Degradation coefficient		
cooling	Cdc	0.25 -	heating	Cdh	0.25 -
Electric power input in power modes oth	er than 'activ	e mode'	Annual electricity consumption		
off mode	Poff	8 W	cooling	Qce	346 kWh/a
standby mode	Psb	8 W	heating / Average	Qhe	2233 kWh/a
thermostat-off mode	Pto(cooling)	20 W	heating / Warmer	Qhe	2205 kWh/a
crankcase heater mode	Pto(heating)	30 W 0 W	heating / colder	Qhe	- kWh/a
	Pck	J VV			
Capacity control(indicate one of three or	otions)		Other items		
			Sound power level(indoor)	Lwa	59 dB(A)
			Sound power level(outdoor)	Lwa	65 dB(A)
fixed	No		Global warming potential	GWP	675 kgCO <sub>2</sub> eq.
staged variable	No Yes		Rated air flow(indoor) Rated air flow(outdoor)	-	858 m³/h 3360 m³/h
	100				3000
Contact details for obtaining			ufacturer or of its authorised representativ	e.	
		stries Air-Condition			
p i ne Sq	uare, SiOCKIE	y rain, Uxufiugê, I	Middlesex,UB11 1ET, United kingdom		

Information to identify the model(s) to w Indoor unit model name Outdoor unit model name	hich the information relates to: SRK20ZSX-W + SRK25ZSX-W x2 SCM71ZS-W	If function includes heating: Indicate the information relates to. Indicated values heating season at a time. Include at least	should relate to one
Function(indicate if present)	Vee	Average(mandatory)	Yes
cooling heating	Yes Yes	Warmer(if designated) Colder(if designated)	Yes No
liounig			
Item	symbol value unit	Item	symbol value class
Design load cooling	Pdesignc 7.1 kW	Seasonal efficiency and energy efficience cooling	cy class SEER <b>7.80</b> A++
heating / Average	Pdesignh 6.7 kW	heating / Average	SCOP/A 4.30 A+
heating / Warmer	Pdesignh 8.5 kW	heating / Warmer	SCOP/W 5.60 A+++
heating / Colder	Pdesignh - kW	heating / Colder	SCOP/C
	- Telesianh		unit
Declared capacity at outdoor temperatu heating / Average (-10°C)	Pdh 6.7 kW	Back up heating capacity at outdoor ten heating / Average (-10°C)	elbu <b>0</b> kW
heating / Warmer (2°C)	Pdh 8.5 kW	heating / Warmer (2°C)	elbu <b>0</b> kW
heating / Colder (-22°C)	Pdh - kW	heating / Colder (-22°C)	elbu - kW
Declared capacity for cooling, at indoor outdoor temperature Tj	temperature 27(19)°C and	Declared energy efficiency ratio, at indo outdoor temperature Tj	or temperature 27(19)°C and
Tj=35°C	Pdc 7.1 kW	Tj=35°C	EERd 4.67 -
Tj=30°C	Pdc 5.2 kW	Tj=30°C	EERd 6.2 -
Tj=25°C	Pdc 3.3 kW	Tj=25°C	EERd 9.85 -
Tj=20°C	Pdc 3.4 kW	Tj=20°C	EERd 13.9 -
Declared capacity for heating / Average	season at indoor	Declared coefficient of performance / A	verage season at indoor
temperature 20°C and outdoor temperat		temperature 20°C and outdoor tempera	
Tj=-7°C	Pdh 6 kW	Tj=-7°C	COPd 3-
Tj=2°C	Pdh 3.6 kW	Tj=2°C	COPd 4.3 -
Tj=7°C	Pdh 2.3 kW	Tj=7°C	COPd 5.2 -
Tj=12°C Tj=bivalent temperature	Pdh 2.5 kW Pdh 6.7 kW	Tj=12°C Tj=bivalent temperature	COPd 6.6 - COPd 2.3 -
Tj=operating limit	Pdh 6.2 kW	Ti=operating limit	COPd <b>2.3</b>
1		<u> </u>	
Declared capacity for heating / Warmer		Declared coefficient of performance / W	
temperature 20°C and outdoor tempera Tj=2°C	ture Tj Pdh <b>8.5</b> kW	temperature 20°C and outdoor tempera Ti=2°C	ture Tj COPd <b>2.7</b> -
Tj=7°C	Pdh <b>5.4</b> kW	Tj=2°C	COPd 2.7 - COPd 5.3 -
Tj=12°C	Pdh <b>2.5</b> kW	Ti=12°C	COPd 6.7 -
Tj=bivalent temperature	Pdh 8.5 kW	Tj=bivalent temperature	COPd 2.7 -
Tj=operating limit	Pdh 6.2 kW	Tj=operating limit	COPd 2.1 -
Declared capacity for heating / Colder s	eason at indoor	Declared coefficient of performance / C	older season, at indoor
temperature 20°C and outdoor temperat		temperature 20°C and outdoor temperat	
Tj=-7°C	Pdh - kW	Tj=-7°C	COPd
Tj=2°C	Pdh - kW	Tj=2°C	COPd
Tj=7°C	Pdh - kW Pdh - kW	Tj=7°C	COPd
Tj=12°C Tj=bivalent temperature	Pdh - kW Pdh - kW	Tj=12°C Tj=bivalent temperature	COPd COPd
Ti=operating limit	Pdh - kW	Tj=operating limit	COPd
Tj=-15℃	Pdh - kW	Tj=-15°C	COPd
	· ·		· ·
Bivalent temperature	Tbiv <b>-10</b> °C	Operating limit temperature	Tol <b>-15</b> °C
heating / Average heating / Warmer	Tbiv <u>-10</u> C	heating / Average heating / Warmer	Tol -15 °C
heating / Colder	Tbiv - °C	heating / Colder	Tol - °C
•		· · · · · · · · · · · · · · · · · · ·	ł
Cycling interval capacity		Cycling interval efficiency	
for cooling for heating	Pcycc - kW Pcych - kW	for cooling for heating	EERcyc COPcyc
lor nearing		lor neating	
Degradation coefficient		Degradation coefficient	
cooling	Cdc 0.25 -	heating	Cdh 0.25 -
Electric power input in power modes oth	er than 'active mode'	Annual electricity consumption	
off mode	Poff 9 W	cooling	Qce 319 kWh/a
standby mode	Psb 9 W	heating / Average	Qhe 2181 kWh/a
thermostat-off mode	Pto(cooling) 25 W	heating / Warmer	Qhe 2127 kWh/a
arankaasa haatar mada	Pto(heating) 35 W	heating / colder	Qhe - kWh/a
crankcase heater mode	Pck 0 W	1	
Capacity control(indicate one of three o	otions)	Other items	
		Sound power level(indoor)	Lwa 55 dB(A)
	·	Sound power level(outdoor)	Lwa 65 dB(A)
fixed	No No	Global warming potential Rated air flow(indoor)	GWP 675 kgCO <sub>2</sub> eq. - 732 m <sup>3</sup> /h
staged variable	Yes	Rated air flow(indoor) Rated air flow(outdoor)	- <b>732</b> m³/h
Contact details for obtaining		nufacturer or of its authorised representation	ve.
	ni Heavy Industries Air-Condition	ning Europe, Ltd. Middlesex,UB11 1ET, United kingdom	
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Information to identify the model(s) to v	which the information relates to:	If function includes heating: Indicate the	e heating season the	
Indoor unit model name	SRK20ZSX-W x 4	information relates to. Indicated values should relate to one		
Outdoor unit model name	SCM71ZS-W	heating season at a time. Include at least	st the heating season 'Average'.	
Function(indicate if present)		Average(mandatory)	Yes	
cooling	Yes	Warmer(if designated)	Yes	
heating	Yes	Colder(if designated)	No	
Item	symbol value unit	Item	symbol value class	
Design load	Delasiana 74 Juw/	Seasonal efficiency and energy efficien		
cooling heating / Average	Pdesignc 7.1 kW Pdesignh 6.7 kW	cooling heating / Average	SEER 8.30 A++ SCOP/A 4.60 A++	
heating / Warmer	Pdesignh 8.5 kW	heating / Warmer	SCOP/W 6.00 A+++	
heating / Colder	Pdesignh - kW	heating / Colder	SCOP/C	
		riodalig / Coldel	unit	
Declared capacity at outdoor temperate	ure Tdesignh	Back up heating capacity at outdoor ter		
heating / Average (-10°C)	Pdh 6.7 kW	heating / Average (-10°C)	elbu <b>0</b> kW	
heating / Warmer (2°C)	Pdh <b>8.5</b> kW	heating / Warmer (2°C)	elbu <b>0</b> kW	
heating / Colder (-22°C)	Pdh - kW	heating / Colder (-22°C)	elbu - kW	
Declared consolity for eacling, at indeer	tomporature 27(10)°C and	Declarad operativ officianay ratio at inde	or temperature 27(10)°C and	
Declared capacity for cooling, at indoor outdoor temperature Tj	temperature 27(19) C and	Declared energy efficiency ratio, at indo outdoor temperature Tj	for temperature 27(19) C and	
Tj=35°C	Pdc 7.1 kW	Tj=35℃	EERd 5 -	
Ti=30°C	Pdc <b>5.2</b> kW	Tj=30°C	EERd 7.25 -	
Tj=25°C	Pdc 3.4 kW	Tj=25°C	EERd 10.5 -	
Tj=20°C	Pdc 3.5 kW	Tj=20°C	EERd 14.1 -	
	· · ·			
Declared capacity for heating / Average		Declared coefficient of performance / A		
temperature 20°C and outdoor temperature $\frac{1}{2}$		temperature 20°C and outdoor tempera		
Tj=-7°C Tj=2°C	Pdh <u>5.5</u> kW Pdh <u>3.4</u> kW	Tj=-7°C Tj=2°C	COPd 3.3 - COPd 4.5 -	
Tj=2°C Tj=7°C	Pah <b>3.4</b> KW Pdh <b>2.4</b> KW	Tj=2°C	COPd 4.5 COPd 5.7	
Tj=7°C	Pdh <b>2.4</b> kW	Tj=7 C	COPd 5.7 - COPd 7.1 -	
Tj=bivalent temperature	Pdh 6.7 kW	Tj=bivalent temperature	COPd <b>2.5</b>	
Tj=operating limit	Pdh 6 kW	Ti=operating limit	COPd <b>2.3</b> -	
<u> </u>		J		
Declared capacity for heating / Warmer	r season, at indoor	Declared coefficient of performance / W	/armer season, at indoor	
temperature 20°C and outdoor tempera		temperature 20°C and outdoor tempera		
Tj=2°C	Pdh 8.5 kW	Tj=2°C	COPd <b>2.9</b> -	
Tj=7°C	Pdh <b>5.7</b> kW	Tj=7°C	COPd 5.75 -	
Tj=12°C	Pdh 2.3 kW	Tj=12°C	COPd 7.15 -	
Tj=bivalent temperature	Pdh 8.5 kW	Tj=bivalent temperature	COPd 2.9 -	
Tj=operating limit	Pdh 6 kW	Tj=operating limit	COPd 2.3 -	
Declared capacity for heating / Colders	season, at indoor	Declared coefficient of performance / C	older season, at indoor	
temperature 20°C and outdoor temperative		temperature 20°C and outdoor tempera		
Tj=-7°C	Pdh - kW	Tj=-7°C	COPd	
Tj=2°C	Pdh - kW	Tj=2°C	COPd	
Tj=7°C	Pdh - kW	Tj=7°C	COPd	
Tj=12°C	Pdh - kW	Tj=12°C	COPd	
Tj=bivalent temperature	Pdh - kW	Tj=bivalent temperature	COPd	
Tj=operating limit	Pdh - kW	Tj=operating limit	COPd	
Tj=-15°C	Pdh - kW	Tj=-15°C	COPd	
Bivalent temperature		Operating limit temperature		
heating / Average	Tbiv -10 °C	heating / Average	Tol <b>-15</b> °C	
heating / Warmer	Tbiv 2 °C	heating / Warmer	Tol -15 °C	
heating / Colder	Tbiv - °C	heating / Colder	Tol - °C	
Cycling interval capacity		Cycling interval efficiency		
for cooling	Pcycc - kW	for cooling	EERcyc	
for heating	Pcych - kW	for heating	COPcyc	
Degradation coefficient		Degradation coefficient		
cooling	Cdc 0.25 -	heating	Cdh 0.25 -	
Electric power input in power modes ot	her than 'active mode'	Annual electricity consumption		
off mode	Poff 10 W	cooling	Qce 300 kWh/a	
standby mode	Psb 10 W	heating / Average	Qhe 2038 kWh/a	
thermostat-off mode	Pto(cooling) 30 W	heating / Warmer	Qhe <b>1983</b> kWh/a	
	Pto(heating) 40 W	heating / colder	Qhe - kWh/a	
crankcase heater mode	Pck 0 W	1		
Capacity control(indicate one of three of	ontions)	Other items		
Capacity control(indicate one of thee t	1900137	Sound power level(indoor)	Lwa 53 dB(A)	
		Sound power level(outdoor)	Lwa 63 dB(A)	
fixed	No	Global warming potential	GWP 675 kgCO <sub>2</sub> eq.	
staged	No	Rated air flow(indoor)	- 678 m³/h	
variable	Yes	Rated air flow(outdoor)	- <b>3000</b> m³/h	
Contact details for obtaining		ufacturer or of its authorised representati	ve.	
	hi Heavy Industries Air-Condition	ning Europe, Ltd. Middlesex,UB11 1ET, United kingdom		
5 1118 5	quare, otoency rain, oxbildge,	maarooox, ob i i i e i, onnea kingdom		

Information to identify the model(s) to w Indoor unit model name	hich the information relates to: SRK20ZS-W + SRK50ZS-W	If function includes heating: Indicate the information relates to. Indicated values	
Outdoor unit model name	SCM71ZS-W	heating season at a time. Include at leas	
Function(indicate if present)	N.	Average(mandatory)	Yes
cooling heating	Yes Yes	Warmer(if designated) Colder(if designated)	Yes No
neating	165	Colder (II designated)	NO
Item	symbol value unit	Item	symbol value class
Design load		Seasonal efficiency and energy efficien	
cooling	Pdesignc 7.1 kW Pdesignh 6.7 kW	cooling heating / Average	SEER 6.20 A++ SCOP/A 4.00 A+
heating / Average heating / Warmer	Pdesignh 6.7 kW Pdesignh 8.5 kW	heating / Warmer	SCOP/W 5.10 A+++
heating / Colder	Pdesignh - kW	heating / Colder	SCOP/C
-			unit
Declared capacity at outdoor temperatu		Back up heating capacity at outdoor ter	
heating / Average (-10°C) heating / Warmer (2°C)	Pdh <b>6.7</b> kW Pdh <b>8.5</b> kW	heating / Average (-10°C) heating / Warmer (2°C)	elbu <b>0</b> kW elbu <b>0</b> kW
heating / Colder (-22°C)	Pdh - kW	heating / Colder (-22°C)	elbu - kW
Declared capacity for cooling, at indoor	temperature 27(19)°C and	Declared energy efficiency ratio, at indo	or temperature 27(19)°C and
outdoor temperature Tj Tj=35°C	Pdc 7.1 kW	outdoor temperature Tj Tj=35°C	EERd 3.03 -
Tj=30℃	Pdc <b>5.2</b> kW	Tj=30°C	EERd 4.9 -
Tj=25°C	Pdc 3.2 kW	Tj=25°C	EERd 8.4 -
Tj=20°C	Pdc 3.4 kW	Tj=20°C	EERd 12.3 -
Dealarad apparity for beating / August	ananan at indaar	Declared coefficient of performances ( A	vorago poppon at indeer
Declared capacity for heating / Average temperature 20°C and outdoor tempera		Declared coefficient of performance / A temperature 20°C and outdoor tempera	
Tj=-7°C	Pdh <b>6</b> kW	Tj=-7°C	COPd <b>2.8</b> -
Tj=2℃	Pdh 3.6 kW	Tj=2°C	COPd 4 -
Tj=7°C	Pdh 2.3 kW	Tj=7°C	COPd <b>4.8</b> -
Tj=12°C	Pdh 2.5 kW	Tj=12°C	COPd 6.2 -
Tj=bivalent temperature Tj=operating limit	Pdh <b>6.7</b> kW Pdh <b>6.2</b> kW	Tj=bivalent temperature Tj=operating limit	COPd 2.1 - COPd 1.9 -
Declared capacity for heating / Warmer		Declared coefficient of performance / W	
temperature 20°C and outdoor tempera		temperature 20°C and outdoor tempera	
Tj=2°C Tj=7°C	Pdh <b>8.5</b> kW Pdh <b>5.4</b> kW	Tj=2°C Tj=7°C	COPd 2.4 - COPd 4.7 -
Tj=12°C	Pdh 2.5 kW	Tj=12°C	COPd 6.3 -
Tj=bivalent temperature	Pdh 8.5 kW	Tj=bivalent temperature	COPd 2.4 -
Tj=operating limit	Pdh 6.2 kW	Tj=operating limit	COPd <b>1.9</b> -
Declared capacity for heating / Colder s	accon at indeer	Declared coefficient of performance / C	older eegen at indeer
temperature 20°C and outdoor tempera		temperature 20°C and outdoor tempera	
Tj=-7°C	Pdh - kW	Tj=-7°C	COPd
Tj=2°C	Pdh - kW	Tj=2°C	COPd
Tj=7°C	Pdh - kW	Tj=7°C	COPd
Tj=12°C Tj=bivalent temperature	Pdh - kW Pdh - kW	Tj=12°C Tj=bivalent temperature	COPd COPd
Tj=operating limit	Pdh - kW	Ti=operating limit	COPd
Tj=-15℃	Pdh - kW	Tj=-15°C	COPd
Bivalent temperature heating / Average	Tbiv <b>-10</b> ℃	Operating limit temperature heating / Average	Tol <b>-15</b> °C
heating / Warmer	Tbiv 2 °C	heating / Warmer	Tol -15 °C
heating / Colder	Tbiv - °C	heating / Colder	Tol - °C
			· · · ·
Cycling interval capacity for cooling	Pcycc - kW	Cycling interval efficiency for cooling	EERcyc
for heating	Pcych - kW	for heating	COPcyc
U		······································	
Degradation coefficient		Degradation coefficient	
cooling	Cdc 0.25 -	heating	Cdh 0.25 -
Electric power input in power modes oth	ner than 'active mode'	Annual electricity consumption	
off mode	Poff 15 W	cooling	Qce 401 kWh/a
standby mode	Psb 15 W	heating / Average	Qhe 2347 kWh/a
thermostat-off mode	Pto(cooling) 30 W Pto(heating) 40 W	heating / Warmer	Qhe 2335 kWh/a
crankcase heater mode	Pto(heating) 40 W Pck 0 W	heating / colder	Qhe - kWh/a
	· ···· · · · · · · · · · · · · · · · ·	J 	
Capacity control(indicate one of three o	ptions)	Other items	
		Sound power level(indoor)	Lwa 59 dB(A)
fixed	No	Sound power level(outdoor) Global warming potential	Lwa 66 dB(A) GWP 675 kgCO <sub>2</sub> eq.
staged	No	Rated air flow(indoor)	- <b>726</b> m <sup>3</sup> /h
variable	Yes	Rated air flow(outdoor)	- 3360 m³/h
	NT		· · · · · · · · · · · · · · · · · · ·
Contact details for obtaining more information Mitsubis	Name and address of the mar i Heavy Industries Air-Condition	nufacturer or of its authorised representati	ve.
		Middlesex,UB11 1ET, United kingdom	
		-	

Information to identify the model(s) to v Indoor unit model name	which the information relates to: SRK20ZS-W + SRK25ZS-W x2	If function includes heating: Indicate the information relates to. Indicated values	
Outdoor unit model name	SCM71ZS-W + SRR252S-W X2	heating season at a time. Include at lea	
Function(indicate if present)		Average(mandatory)	Yes
cooling	Yes	Warmer(if designated)	Yes
heating	Yes	Colder(if designated)	No
Item Design load	symbol value unit	Item Seasonal efficiency and energy efficien	symbol value class
cooling	Pdesignc 7.1 kW	cooling	SEER 6.80 A++
heating / Average	Pdesignh 6.7 kW	heating / Average	SCOP/A 4.20 A+
heating / Warmer	Pdesignh 8.5 kW	heating / Warmer	SCOP/W 5.40 A+++
heating / Colder	Pdesignh - kW	heating / Colder	SCOP/C
Declared capacity at outdoor temperate	uro Tdooignh	Back up heating capacity at outdoor ter	unit
heating / Average (-10°C)	Pdh 6.7 kW	heating / Average (-10°C)	elbu <b>0</b> kW
heating / Warmer (2°C)	Pdh <b>8.5</b> kW	heating / Warmer (2°C)	elbu <b>0</b> kW
heating / Colder (-22°C)	Pdh - kW	heating / Colder (-22°C)	elbu - kW
Declared capacity for cooling, at indoor	r temperature 27(19)°C and	Declared energy efficiency ratio, at indo	oor temperature 27(19)°C and
outdoor temperature Tj Tj=35°C	Pdc 7.1 kW	outdoor temperature Tj Ti=35°C	EERd 3.8 -
Tj=30°C	Pdc <b>5.2</b> kW	Tj=30°C	EERd 5.7 -
Tj=25°C	Pdc 3.3 kW	Tj=25°C	EERd 9 -
Tj=20°C	Pdc 3.4 kW	Tj=20°C	EERd 12.7 -
Declared capacity for heating / Average temperature 20°C and outdoor temperation		Declared coefficient of performance / A temperature 20°C and outdoor tempera	
Ti=-7°C	Pdh <b>6</b> kW	Ti=-7°C	COPd <b>2.9</b> -
Tj=2°C	Pdh <b>3.6</b> kW	Tj=2°C	COPd <b>4.2</b> -
Tj=7°C	Pdh <b>2.3</b> kW	Tj=7°C	COPd 5.1 -
Tj=12°C	Pdh 2.5 kW	Tj=12°C	COPd 6.5 -
Tj=bivalent temperature	Pdh <b>6.7</b> kW	Tj=bivalent temperature	COPd 2.2 -
Tj=operating limit	Pdh 6.2 kW	Tj=operating limit	COPd <b>2</b> -
Declared capacity for heating / Warme	r season at indoor	Declared coefficient of performance / W	/armer season at indoor
temperature 20°C and outdoor temperat		temperature 20°C and outdoor tempera	
Tj=2°C	Pdh <b>8.5</b> kW	Tj=2°C	COPd 2.6 -
Tj=7°C	Pdh <b>5.4</b> kW	Tj=7°C	COPd <b>5.2</b> -
Tj=12°C	Pdh 2.5 kW	Tj=12°C	COPd <b>6.4</b> -
Tj=bivalent temperature Tj=operating limit	Pdh <b>8.5</b> kW Pdh <b>6.2</b> kW	Tj=bivalent temperature Tj=operating limit	COPd <b>2.6</b> COPd <b>2</b>
	Full <b>6.2</b> KW		COFú Z -
Declared capacity for heating / Colder	season, at indoor	Declared coefficient of performance / C	older season, at indoor
temperature 20°C and outdoor tempera		temperature 20°C and outdoor tempera	
Tj=-7°C	Pdh - kW	Tj=-7°C	COPd
Tj=2℃ Tj=7℃	Pdh - kW Pdh - kW	Tj=2°C Tj=7°C	COPd COPd
Tj=12°C	Pdh - kW	Tj=7°C	COPd
Tj=bivalent temperature	Pdh - kW	Tj=bivalent temperature	COPd
Tj=operating limit	Pdh - kW	Tj=operating limit	COPd
Tj=-15°C	Pdh - kW	Tj=-15℃	COPd
Divelant terms and us			
Bivalent temperature heating / Average	Tbiv -10 °C	Operating limit temperature heating / Average	Tol -15 °C
heating / Warmer	Tbiv 2 °C	heating / Warmer	Tol <b>-15</b> °C
heating / Colder	Tbiv - °C	heating / Colder	Tol - °C
Ť	· · ·		· · ·
Cycling interval capacity	Pcycc - kW	Cycling interval efficiency	EEPovo
for cooling for heating	Pcycc - kW Pcych - kW	for cooling for heating	EERcyc COPcyc
lor heating		lor nearing	
Degradation coefficient		Degradation coefficient	
cooling	Cdc 0.25 -	heating	Cdh 0.25 -
Electric power input in power modes of	ther than 'active mode'	Annual electricity consumption	
off mode	Poff <b>15</b> W	Cooling	Qce 366 kWh/a
standby mode	Psb <b>15</b> W	heating / Average	Qhe <b>2236</b> kWh/a
thermostat-off mode	Pto(cooling) 35 W	heating / Warmer	Qhe 2205 kWh/a
	Pto(heating) 45 W	heating / colder	Qhe - kWh/a
crankcase heater mode	Pck 0 W		
Capacity control(indicate one of three of	ontions)	Other items	
Suparity control(indicate one of tillee t	opuonoj	Sound power level(indoor)	Lwa 50 dB(A)
		Sound power level(outdoor)	Lwa 66 dB(A)
fixed	No	Global warming potential	GWP 675 kgCO2eq.
staged	No	Rated air flow(indoor)	- <b>594</b> m³/h
variable	Yes	Rated air flow(outdoor)	- <b>3360</b> m³/h
Contact details for obtaining	Name and address of the man	ufacturer or of its authorised representati	ve.
	shi Heavy Industries Air-Condition		
		Middlesex,UB11 1ET, United kingdom	

Information to identify the model(s) to v	which the infe	ormation relates to	b: If function includes heating: Indicate th	e heating s	eason the
Indoor unit model name	SRK20ZS	6-W x 4	information relates to. Indicated values should relate to one		
Outdoor unit model name	SCM71ZS	8-W	heating season at a time. Include at lea	ast the heati	ng season 'Average'.
Function(indicate if present)			Average(mandatory)	Yes	
cooling	Yes		Warmer(if designated)	Yes	
heating	Yes		Colder(if designated)	No	
				•	
Item	symbol	value unit	Item	symbol	value class
Design load cooling	Pdesignc	7.1 kW	Seasonal efficiency and energy efficient cooling	SEER	7.10 A++
heating / Average	Pdesignh	6.7 kW	heating / Average	SCOP/A	
heating / Warmer	Pdesignh	8.5 kW	heating / Warmer	SCOP/W	
heating / Colder	Pdesignh	- kW	heating / Colder	SCOP/C	
					unit
Declared capacity at outdoor temperation heating / Average (-10°C)	ure I designt Pdh	1 6.7 kW	Back up heating capacity at outdoor te heating / Average (-10°C)	elbu	l designh
heating / Warmer (2°C)	Pdh	8.5 kW	heating / Warmer (2°C)	elbu	0 kW
heating / Colder (-22°C)	Pdh	- kW	heating / Colder (-22°C)	elbu	- kW
Declared capacity for cooling, at indoor	r temperatur	e 27(19)°C and	Declared energy efficiency ratio, at ind	oor tempera	ature 27(19)°C and
outdoor temperature Tj	Pdc		outdoor temperature Tj Tj=35°C		2.00
Tj=35℃ Tj=30℃	Pdc	7.1 kW 5.2 kW	Tj=30°C	EERd EERd	3.99 - 6.4 -
Tj=25℃	Pdc	3.4 kW	Tj=25℃	EERd	9.3 -
Tj=20°C	Pdc	3.5 kW	Tj=20°C	EERd	12.7 -
					· · · · ·
Declared capacity for heating / Average		indoor	Declared coefficient of performance / /		ason, at indoor
temperature 20°C and outdoor tempera	ature Tj Pdh	5.5	temperature 20°C and outdoor temper	ature Tj COPd	31
Tj=-7°C Tj=2°C	Pan Pdh	5.5 kW 3.4 kW	Tj=-7℃ Tj=2℃	COPd	<u>3.1</u> - 4.2 -
Tj=7°C	Pdh	2.4 kW	Ti=7°C	COPd	5.3 -
Tj=12°C	Pdh	2.3 kW	Tj=12°C	COPd	6.7 -
Tj=bivalent temperature	Pdh	6.7 kW	Tj=bivalent temperature	COPd	2.4 -
Tj=operating limit	Pdh	6 kW	Tj=operating limit	COPd	2.2 -
Declared accessity for bacting (10/array		in da an		<u> </u>	and at indexe
Declared capacity for heating / Warme temperature 20°C and outdoor temperature		Indoor	Declared coefficient of performance / temperature 20°C and outdoor temper		ISON, AL INDOOR
Tj=2°C	Pdh	8.5 kW	Tj=2°C	COPd	2.8 -
Tj=7℃	Pdh	5.7 kW	Tj=7°C	COPd	5.4 -
Tj=12°C	Pdh	2.3 kW	Tj=12°C	COPd	6.9 -
Tj=bivalent temperature	Pdh	8.5 kW	Tj=bivalent temperature	COPd	2.8 -
Tj=operating limit	Pdh	6 kW	Tj=operating limit	COPd	2.2 -
Declared capacity for heating / Colder	season at ir	door	Declared coefficient of performance /	Colder seas	on at indoor
temperature 20°C and outdoor temperat		14001	temperature 20°C and outdoor temper		
Tj=-7°C	Pdh	- kW	Tj=-7°C	COPd	
Tj=2°C	Pdh	- kW	Tj=2°C	COPd	
Tj=7°C	Pdh	- kW	Tj=7°C	COPd	
Tj=12°C	Pdh Pdh	- kW - kW	Tj=12°C	COPd COPd	
Tj=bivalent temperature Tj=operating limit	Pdh	- kW - kW	Tj=bivalent temperature Tj=operating limit	COPu	
				COPd	
Ti=-15°C			, , ,	COPd COPd	
Tj=-15°C	Pdh	- kW	Tj=-15°C	COPd COPd	
Tj=-15°C Bivalent temperature			Tj=-15°C		
Bivalent temperature heating / Average	Pdh Tbiv	- kW	Tj=-15°C Operating limit temperature heating / Average	COPd Tol	
Bivalent temperature heating / Average heating / Warmer	Pdh Tbiv Tbiv	- kW -10 °C 2 °C	Tj=-15°C Operating limit temperature heating / Average heating / Warmer	COPd Tol Tol	 -15 ℃ -15 ℃
Bivalent temperature heating / Average	Pdh Tbiv	- kW	Tj=-15°C Operating limit temperature heating / Average	COPd Tol	
Bivalent temperature heating / Average heating / Warmer	Pdh Tbiv Tbiv	- kW -10 °C 2 °C	Tj=-15°C Operating limit temperature heating / Average heating / Warmer	COPd Tol Tol	 -15 ℃ -15 ℃
Bivalent temperature heating / Average heating / Warmer heating / Colder	Pdh Tbiv Tbiv	- kW -10 °C 2 °C	Tj=-15°C Operating limit temperature heating / Average heating / Warmer heating / Colder	COPd Tol Tol	 -15 ℃ -15 ℃
Bivalent temperature heating / Average heating / Warmer heating / Colder Cycling interval capacity	Pdh Tbiv Tbiv Tbiv	- kW -10 °C 2 °C - °C	Tj=-15°C Operating limit temperature heating / Average heating / Warmer heating / Colder Cycling interval efficiency	COPd Tol Tol Tol	 -15 °C -15 °C - °C
Bivalent temperature heating / Average heating / Warmer heating / Colder Cycling interval capacity for cooling for heating	Pdh Tbiv Tbiv Tbiv Pcycc	- kW -10 °C 2 °C - °C - °C	Tj=-15°C Operating limit temperature heating / Average heating / Warmer heating / Colder Cycling interval efficiency for cooling for heating	COPd Tol Tol Tol EERcyc	
Bivalent temperature heating / Average heating / Warmer heating / Colder Cycling interval capacity for cooling for heating Degradation coefficient	Pdh Tbiv Tbiv Tbiv Pcycc Pcych	- kW -10 °C 2 °C - °C - % - kW - kW	Tj=15°C Operating limit temperature heating / Average heating / Warmer heating / Colder Cycling interval efficiency for cooling for heating Degradation coefficient	COPd Tol Tol Tol EERcyc COPcyc	
Bivalent temperature heating / Average heating / Warmer heating / Colder Cycling interval capacity for cooling for heating	Pdh Tbiv Tbiv Tbiv Pcycc	- kW -10 °C 2 °C - °C - °C	Tj=-15°C Operating limit temperature heating / Average heating / Warmer heating / Colder Cycling interval efficiency for cooling for heating	COPd Tol Tol Tol EERcyc	
Bivalent temperature heating / Average heating / Warmer heating / Colder Cycling interval capacity for cooling for heating Degradation coefficient	Pdh Tbiv Tbiv Tbiv Pcycc Pcych Cdc	- kW -10 °C 2 °C - °C - KW - kW - kW 0.25 -	Tj=15°C Operating limit temperature heating / Average heating / Warmer heating / Colder Cycling interval efficiency for cooling for heating Degradation coefficient	COPd Tol Tol Tol EERcyc COPcyc	
Bivalent temperature heating / Average heating / Warmer heating / Colder Cycling interval capacity for cooling for heating Degradation coefficient cooling Electric power input in power modes of off mode	Pdh Tbiv Tbiv Tbiv Pcycc Pcych Cdc ther than 'act Poff	- kW -10 °C 2 °C - °C - kW - kW 0.25 - tive mode' 15 W	Tj=-15°C         Operating limit temperature heating / Average heating / Warmer heating / Colder         Cycling interval efficiency for cooling for heating         Degradation coefficient heating         Annual electricity consumption cooling cooling	COPd Tol Tol Tol EERcyc COPcyc Cdh	
Bivalent temperature heating / Average heating / Warmer heating / Colder Cycling interval capacity for cooling for heating Degradation coefficient cooling Electric power input in power modes of off mode standby mode	Pdh Tbiv Tbiv Tbiv Pcycc Pcych Cdc Cdc ther than 'act Poff Psb	- kW -10 °C 2 °C - °C - kW - kW 0.25 - tive mode' 15 W	Tj=-15°C         Operating limit temperature heating / Average heating / Warmer heating / Colder         Cycling interval efficiency for cooling for heating         Degradation coefficient heating         Annual electricity consumption cooling heating / Average	COPd Tol Tol EERcyc COPcyc Cdh	
Bivalent temperature heating / Average heating / Warmer heating / Colder Cycling interval capacity for cooling for heating Degradation coefficient cooling Electric power input in power modes of off mode	Pdh Tbiv Tbiv Tbiv Pcycc Pcych Cdc Cdc ther than 'act Poff Psb Pto(ccoling)	- kW -10 °C 2 °C - °C - kW - kW - kW 0.25 - tive mode' 15 W 40 W	Tj=-15°C         Operating limit temperature         heating / Average         heating / Warmer         heating / Colder         Cycling interval efficiency         for cooling         for heating         Degradation coefficient         heating         Annual electricity consumption         cooling         heating / Average         heating / Warmer	COPd Tol Tol Tol EERcyc COPcyc Cdh Cdh Qce Qhe Qhe	
Bivalent temperature heating / Average heating / Warmer heating / Colder Cycling interval capacity for cooling Degradation coefficient cooling Electric power input in power modes of off mode standby mode thermostat-off mode	Pdh Tbiv Tbiv Tbiv Pcycc Pcych Cdc ther than 'act Poff Psb Pto(cooling) Pto(ceoling)	- kW -10 °C 2 °C - °C - % - kW - kW 0.25 - tive mode' 15 W 15 W 40 W 50 W	Tj=-15°C         Operating limit temperature heating / Average heating / Warmer heating / Colder         Cycling interval efficiency for cooling for heating         Degradation coefficient heating         Annual electricity consumption cooling heating / Average	COPd Tol Tol EERcyc COPcyc Cdh	
Bivalent temperature heating / Average heating / Warmer heating / Colder Cycling interval capacity for cooling for heating Degradation coefficient cooling Electric power input in power modes of off mode standby mode	Pdh Tbiv Tbiv Tbiv Pcycc Pcych Cdc Cdc ther than 'act Poff Psb Pto(ccoling)	- kW -10 °C 2 °C - °C - kW - kW - kW 0.25 - tive mode' 15 W 40 W	Tj=-15°C         Operating limit temperature         heating / Average         heating / Warmer         heating / Colder         Cycling interval efficiency         for cooling         for heating         Degradation coefficient         heating         Annual electricity consumption         cooling         heating / Average         heating / Warmer	COPd Tol Tol Tol EERcyc COPcyc Cdh Cdh Qce Qhe Qhe	
Bivalent temperature heating / Average heating / Warmer heating / Colder Cycling interval capacity for cooling Degradation coefficient cooling Electric power input in power modes of off mode standby mode thermostat-off mode	Pdh Tbiv Tbiv Tbiv Pcycc Pcych Cdc Cdc ther than 'act Poff Psb Pto(cooling) Pto(heating) Pck	- kW -10 °C 2 °C - °C - % - kW - kW 0.25 - tive mode' 15 W 15 W 40 W 50 W	Tj=-15°C         Operating limit temperature         heating / Average         heating / Warmer         heating / Colder         Cycling interval efficiency         for cooling         for heating         Degradation coefficient         heating         Annual electricity consumption         cooling         heating / Average         heating / Warmer	COPd Tol Tol Tol EERcyc COPcyc Cdh Cdh Qce Qhe Qhe	
Bivalent temperature heating / Average heating / Warmer heating / Colder Cycling interval capacity for cooling for heating Degradation coefficient cooling Electric power input in power modes of off mode standby mode thermostat-off mode crankcase heater mode	Pdh Tbiv Tbiv Tbiv Pcycc Pcych Cdc Cdc ther than 'act Poff Psb Pto(cooling) Pto(heating) Pck	- kW -10 °C 2 °C - °C - % - kW - kW 0.25 - tive mode' 15 W 15 W 40 W 50 W	Tj=15°C         Operating limit temperature         heating / Average         heating / Warmer         heating / Colder         Cycling interval efficiency         for cooling         for heating         Degradation coefficient         heating         Annual electricity consumption         cooling         heating / Average         heating / colder         Other items         Sound power level(indoor)	COPd Tol Tol Tol EERcyc COPcyc Cdh Qhe Qhe Qhe Qhe Qhe	
Bivalent temperature heating / Average heating / Warmer heating / Colder Cycling interval capacity for cooling for heating Degradation coefficient cooling Electric power input in power modes of off mode standby mode thermostat-off mode crankcase heater mode Capacity control(indicate one of three of	Pdh Tbiv Tbiv Pcycc Pcych Cdc Cdc ther than 'act Poff Psb Pto(cooling) Pto(neating) Pck options)	- kW -10 °C 2 °C - °C - % - kW - kW 0.25 - tive mode' 15 W 15 W 40 W 50 W	Tj=-15°C         Operating limit temperature heating / Average heating / Warmer heating / Colder         Cycling interval efficiency for cooling for heating         Degradation coefficient heating         Annual electricity consumption cooling heating / Average heating / Warmer heating / Colder         Output         Output         Output         Other items Sound power level(indoor) Sound power level(outdoor)	COPd Tol Tol Tol EERcyc COPcyc Cdh Qhe Qhe Qhe Qhe Qhe	
Bivalent temperature heating / Average heating / Warmer heating / Colder Cycling interval capacity for cooling for heating Degradation coefficient cooling Electric power input in power modes of off mode standby mode thermostat-off mode crankcase heater mode Capacity control(indicate one of three of fixed	Pdh Tbiv Tbiv Tbiv Pcycc Pcych Cdc Cdc ther than 'act Poff Psb Pto(cooling) Pto(heating) Pck options)	- kW -10 °C 2 °C - °C - % - kW - kW 0.25 - tive mode' 15 W 15 W 40 W 50 W	Tj=-15°C         Operating limit temperature         heating / Average         heating / Warmer         heating / Colder         Cycling interval efficiency         for cooling         for heating         Degradation coefficient         heating / Average         heating / Average         heating / Average         heating / Colder         Other items         Sound power level(indoor)         Sound power level(outdoor)         Global warming potential	COPd Tol Tol Tol EERcyc COPcyc Cdh Qhe Qhe Qhe Qhe Qhe	
Bivalent temperature heating / Average heating / Warmer heating / Colder Cycling interval capacity for cooling for heating Degradation coefficient cooling Electric power input in power modes of off mode standby mode thermostat-off mode crankcase heater mode Capacity control(indicate one of three of fixed staged	Pdh Tbiv Tbiv Pcycc Pcych Cdc ther than 'ac Poff Psb Pto(coiing) Pto(heating) Pck	- kW -10 °C 2 °C - °C - % - kW - kW 0.25 - tive mode' 15 W 15 W 40 W 50 W	Tj=15°C         Operating limit temperature         heating / Average         heating / Varmer         heating / Colder         Cycling interval efficiency         for cooling         for heating         Degradation coefficient         heating         Annual electricity consumption         cooling         heating / Average         heating / Colder         Other items         Sound power level(indoor)         Global warming potential         Rated air flow(indoor)	COPd Tol Tol Tol EERcyc COPcyc Cdh Qhe Qhe Qhe Qhe Qhe	
Bivalent temperature heating / Average heating / Warmer heating / Colder Cycling interval capacity for cooling for heating Degradation coefficient cooling Electric power input in power modes of off mode standby mode thermostat-off mode crankcase heater mode Capacity control(indicate one of three of fixed	Pdh Tbiv Tbiv Tbiv Pcycc Pcych Cdc Cdc ther than 'act Poff Psb Pto(cooling) Pto(heating) Pck options)	- kW -10 °C 2 °C - °C - % - kW - kW 0.25 - tive mode' 15 W 15 W 40 W 50 W	Tj=-15°C         Operating limit temperature         heating / Average         heating / Warmer         heating / Colder         Cycling interval efficiency         for cooling         for heating         Degradation coefficient         heating / Average         heating / Average         heating / Average         heating / Colder         Other items         Sound power level(indoor)         Sound power level(outdoor)         Global warming potential	COPd Tol Tol Tol EERcyc COPcyc Cdh Qhe Qhe Qhe Qhe Qhe	
Bivalent temperature heating / Average heating / Warmer heating / Colder Cycling interval capacity for cooling for heating Degradation coefficient cooling Electric power input in power modes of off mode standby mode thermostat-off mode crankcase heater mode Capacity control(indicate one of three of fixed staged	Pdh Tbiv Tbiv Tbiv Pcycc Pcych Cdc Cdc ther than 'act Poff Psb Pto(cooling) Pto(heating) Pck options) No No Yes	- kW -10 °C 2 °C - °C - kW - kW 0.25 - tive mode' 15 W 15 W 40 W 50 W 0 W	Tj=15°C         Operating limit temperature         heating / Average         heating / Varmer         heating / Colder         Cycling interval efficiency         for cooling         for heating         Degradation coefficient         heating         Annual electricity consumption         cooling         heating / Average         heating / Colder         Other items         Sound power level(indoor)         Global warming potential         Rated air flow(indoor)	COPd Tol Tol Tol EERcyc COPcyc Cdh Qhe Qhe Qhe Qhe Qhe Cdh	
Bivalent temperature heating / Average heating / Warmer heating / Colder Cycling interval capacity for cooling for heating Degradation coefficient cooling Electric power input in power modes of off mode standby mode thermostat-off mode crankcase heater mode Capacity control(indicate one of three of fixed staged variable Contact details for obtaining more information Mitsubis	Pdh Tbiv Tbiv Tbiv Pcycc Pcych Cdc ther than 'act Poff Psb Pto(cooling) Pto(cooling) Pto(cooling) Pto(cooling) Pto(sooling) Pto	- kW -10 °C °C °C °C °C °C °C °C °C °C °C °C °C	Tj=15°C         Operating limit temperature         heating / Average         heating / Varmer         heating / Colder         Cycling interval efficiency         for cooling         for heating         Degradation coefficient         heating / Average         heating / Average         heating / Varmer         heating / Colder         Other items         Sound power level(indoor)         Global warming potential         Rated air flow(indoor)         Rated air flow(indoor)         natufacturer or of its authorised representa         tioning Europe, Ltd.	COPd Tol Tol Tol EERcyc COPcyc Cdh Qhe Qhe Qhe Qhe Qhe Cdh	
Bivalent temperature heating / Average heating / Warmer heating / Colder Cycling interval capacity for cooling for heating Degradation coefficient cooling Electric power input in power modes of off mode standby mode thermostat-off mode crankcase heater mode Capacity control(indicate one of three of fixed staged variable Contact details for obtaining more information Mitsubis	Pdh Tbiv Tbiv Tbiv Pcycc Pcych Cdc ther than 'act Poff Psb Pto(cooling) Pto(cooling) Pto(cooling) Pto(cooling) Pto(sooling) Pto	- kW -10 °C °C °C °C °C °C °C °C °C °C °C °C °C	Tj=-15°C         Operating limit temperature         heating / Average         heating / Warmer         heating / Colder         Cycling interval efficiency         for cooling         for heating         Degradation coefficient         heating / Average         heating / Average         heating / Average         heating / Colder         Other items         Sound power level(indoor)         Sound power level(outdoor)         Global warming potential         Rated air flow(indoor)         Rated air flow(outdoor)         tanufacturer or of its authorised representa	COPd Tol Tol Tol EERcyc COPcyc Cdh Qhe Qhe Qhe Qhe Qhe Cdh	-         -           -15         °C           °C         -           °C         -           -         -           -         -           0.25         -           0.25         -           0.25         -           351         kWh/a           kWh/a         kWh/a           0807         kWh/a           66         dB(A)           675         kgCO₂eq.           m³/h         m³/h

### (2) Model SCM80ZS-W

Information to identify the model(s) to w		If function includes heating: Indicate the	
Indoor unit model name Outdoor unit model name	SRK35ZSX-W + SRK50ZSX-W SCM80ZS-W	information relates to. Indicated values heating season at a time. Include at least	
Function(indicate if present)		Average(mandatory)	Yes
cooling	Yes	Warmer(if designated) Colder(if designated)	Yes
heating	Yes	Colder(If designated)	No
Item Design load	symbol value unit	Item Seasonal efficiency and energy efficience	symbol value class
cooling	Pdesignc 8 kW	cooling	SEER 7.10 A++
heating / Average	Pdesignh 6.7 kW	heating / Average	SCOP/A 4.20 A+
heating / Warmer	Pdesignh 8.5 kW	heating / Warmer	SCOP/W 5.40 A+++
heating / Colder	Pdesignh - kW	heating / Colder	SCOP/C
Declared capacity at outdoor temperatu	ure Tdesianh	Back up heating capacity at outdoor ten	unit nperature Tdesignh
heating / Average (-10°C)	Pdh 6.7 kW	heating / Average (-10°C)	elbu <b>0</b> kW
heating / Warmer (2°C)	Pdh <b>8.5</b> kW	heating / Warmer (2°C)	elbu <b>0</b> kW
heating / Colder (-22°C)	Pdh - kW	heating / Colder (-22°C)	elbu - kW
Declared capacity for cooling, at indoor	temperature 27(19)°C and	Declared energy efficiency ratio, at indo	or temperature 27(19)°C and
outdoor temperature Tj		outdoor temperature Tj	
Tj=35°C	Pdc 8 kW	Tj=35°C	EERd 3.3 -
Tj=30°C	Pdc 5.9 kW	Tj=30°C	EERd 5.2 -
Tj=25°C Tj=20°C	Pdc 3.7 kW Pdc 3.5 kW	Tj=25℃ Ti=20℃	EERd <b>9.35</b> - EERd <b>13.6</b> -
1]=20.0	1.00	1j-200	
Declared capacity for heating / Average		Declared coefficient of performance / A	
temperature 20°C and outdoor tempera Ti=-7°C	ture Tj Pdh <b>6</b> kW	temperature 20°C and outdoor tempera Ti=-7°C	iture Tj COPd <b>2.9</b> -
Tj=2°C	Pdh <b>3.6</b> kW	Tj=-7 C Tj=2°C	COPd 2.9 - COPd 4.2 -
Ti=7°C	Pdh <b>2.3</b> kW	Tj=7°C	COPd <b>5.1</b> -
Tj=12°C	Pdh 2.5 kW	Tj=12°C	COPd 6.5 -
Tj=bivalent temperature	Pdh <b>6.7</b> kW	Tj=bivalent temperature	COPd <b>2.2</b> -
Tj=operating limit	Pdh 6.3 kW	Tj=operating limit	COPd 2 -
Declared capacity for heating / Warmer	season, at indoor	Declared coefficient of performance / W	/armer season, at indoor
temperature 20°C and outdoor tempera	ture Tj	temperature 20°C and outdoor tempera	
Tj=2°C	Pdh 8.5 kW	Tj=2°C	COPd <b>2.55</b> -
Tj=7℃ Tj=12℃	Pdh 5.5 kW Pdh 2.5 kW	Tj=7°C Ti=12°C	COPd <b>5</b> - COPd <b>6.6</b> -
Tj=bivalent temperature	Pdh 2.5 kW	Tj=bivalent temperature	COPd <b>2.55</b> -
Tj=operating limit	Pdh <b>6.3</b> kW	Tj=operating limit	COPd 2 -
Declared capacity for heating / Colder s temperature 20°C and outdoor temperative		Declared coefficient of performance / C temperature 20°C and outdoor tempera	
Tj=-7°C	Pdh - kW	Tj=-7°C	COPd
Tj=2°C	Pdh - kW	Tj=2℃	COPd
Tj=7°C	Pdh - kW	Tj=7°C	COPd
Tj=12°C	Pdh - kW	Tj=12°C	COPd
Tj=bivalent temperature Tj=operating limit	Pdh - kW Pdh - kW	Tj=bivalent temperature Ti=operating limit	COPd COPd
Tj=-15°C	Pdh - kW	Ti=-15°C	COPd
Bivalent temperature		Operating limit temperature	
heating / Average heating / Warmer	Tbiv <u>-10</u> ℃ Tbiv <u>2</u> ℃	heating / Average heating / Warmer	Tol <u>-15</u> ℃ Tol <u>-15</u> ℃
heating / Colder	Tbiv - °C	heating / Colder	Tol - °C
	μ I <sup>-</sup>		I -
Cycling interval capacity	Povoo Lint	Cycling interval efficiency	EEPovo
for cooling for heating	Pcycc - kW Pcych - kW	for cooling for heating	EERcyc COPcyc
Degradation coefficient		Degradation coefficient	
cooling	Cdc 0.25 -	heating	Cdh 0.25 -
Electric power input in power modes ot	her than 'active mode'	Annual electricity consumption	
off mode	Poff 8 W	cooling	Qce 395 kWh/a
standby mode	Psb 8 W	heating / Average	Qhe 2233 kWh/a
thermostat-off mode	Pto(cooling) 20 W Pto(heating) 30 W	heating / Warmer heating / colder	Qhe 2205 kWh/a Qhe - kWh/a
crankcase heater mode	Pto(heating) 30 W Pck 0 W		Qhe - kWh/a
Capacity control(indicate one of three of	ptions)	Other items	
		Sound power level(indoor) Sound power level(outdoor)	Lwa <b>59</b> dB(A) Lwa <b>66</b> dB(A)
fixed	No	Global warming potential	GWP 675 kgCO <sub>2</sub> eq.
staged	No	Rated air flow(indoor)	- 858 m³/h
variable	Yes	Rated air flow(outdoor)	- <b>3360</b> m³/h
Contact details for obtaining	Name and address of the man	ufacturer or of its authorised representati	Ve
	hi Heavy Industries Air-Condition		νο.
		Middlesex,UB11 1ET, United kingdom	

Information to identify the model(s) to will indoor unit model name	hich the information relates to: srk20zsx.w + srk25zsx.w + srk35zsx.w	If function includes heating: Indicate the		
Outdoor unit model name	SCM80ZS-W	information relates to. Indicated values should relate to one heating season at a time. Include at least the heating season 'Average'.		
Function(indicate if present)		Average(mandatory)	Yes	
cooling heating	Yes Yes	Warmer(if designated) Colder(if designated)	Yes No	
Tieatilig	165	Colder(il designated)	NO	
Item	symbol value unit	Item	symbol value class	
Design load cooling	Pdesignc 8 kW	Seasonal efficiency and energy efficien cooling	SEER 7.70 A++	
heating / Average	Pdesignh 6.7 kW	heating / Average	SCOP/A 4.30 A++	
heating / Warmer	Pdesignh 8.5 kW	heating / Warmer	SCOP/W 5.60 A+++	
heating / Colder	Pdesignh - kW	heating / Colder	SCOP/C	
Declared capacity at outdoor temperatu	re Tdesignh	Back up heating capacity at outdoor ter	unit mperature Tdesignh	
heating / Average (-10°C)	Pdh 6.7 kW	heating / Average (-10°C)	elbu <b>0</b> kW	
heating / Warmer (2°C)	Pdh <b>8.5</b> kW	heating / Warmer (2°C)	elbu <b>0</b> kW	
heating / Colder (-22°C)	Pdh - kW	heating / Colder (-22°C)	elbu - kW	
Declared capacity for cooling, at indoor	temperature 27(19)°C and	Declared energy efficiency ratio, at indo	oor temperature 27(19)°C and	
outdoor temperature Tj		outdoor temperature Tj		
Tj=35℃	Pdc 8 kW Pdc 5.9 kW	Tj=35°C Ti=30°C	EERd <b>4.19</b> - EERd <b>6</b> -	
Tj=30℃ Tj=25℃	Pdc <b>3.7</b> kW	Tj=25°C	EERd <u>6</u> - EERd <u>9.8</u> -	
Tj=20°C	Pdc 3.5 kW	Tj=20°C	EERd 13.8 -	
			· · ·	
Declared capacity for heating / Average temperature 20°C and outdoor temperat		Declared coefficient of performance / A temperature 20°C and outdoor tempera		
Tj=-7°C	Pdh <b>6</b> kW	Tj=-7°C	COPd <b>3</b> -	
Tj=2℃	Pdh 3.6 kW	Tj=2°C	COPd 4.3 -	
Tj=7°C	Pdh 2.3 kW	Tj=7°C	COPd <b>5.2</b> -	
Tj=12°C Tj=bivalent temperature	Pdh <b>2.5</b> kW Pdh <b>6.7</b> kW	Tj=12°C Ti=bivalent temperature	COPd 6.6 - COPd 2.3 -	
Tj=operating limit	Pdh 6.3 kW	Tj=operating limit	COPd 2.3 -	
Declared capacity for heating / Warmer temperature 20°C and outdoor temperat		Declared coefficient of performance / W temperature 20°C and outdoor tempera		
Tj=2°C	Pdh <b>8.5</b> kW	Tj=2°C	COPd <b>2.7</b> -	
Tj=7°C	Pdh 5.5 kW	Tj=7°C	COPd 5.3 -	
Tj=12°C	Pdh 2.5 kW	Tj=12°C	COPd <b>6.7</b> -	
Tj=bivalent temperature Tj=operating limit	Pdh <b>8.5</b> kW Pdh <b>6.3</b> kW	Tj=bivalent temperature Tj=operating limit	COPd 2.7 - COPd 2.1 -	
	Full 0.3 KW		COFU <b>2.1</b> -	
Declared capacity for heating / Colder se		Declared coefficient of performance / C		
temperature 20°C and outdoor temperat Ti=-7°C	ure Tj Pdh - IkW	temperature 20°C and outdoor tempera Ti=-7°C	ature Tj COPd	
Tj=2°C	Pdh - kW	Tj=2°C		
Tj=7℃	Pdh - kW	Tj=7°C	COPd	
Tj=12°C	Pdh - kW	Tj=12°C	COPd	
Tj=bivalent temperature Tj=operating limit	Pdh - kW Pdh - kW	Tj=bivalent temperature Tj=operating limit	COPd COPd	
Tj=-15°C	Pdh - kW	Tj=-15°C	COPd	
,				
Bivalent temperature heating / Average	Tbiv <b>-10</b> °C	Operating limit temperature heating / Average	Tol <b>-15</b> °C	
heating / Warmer	Tbiv <u>-10</u> C	heating / Warmer	Tol -15 °C	
heating / Colder	Tbiv - °C	heating / Colder	Tol - °C	
Cycling interval capacity for cooling	Pcycc - kW	Cycling interval efficiency for cooling	EERcyc	
for heating	Pcych - kW	for heating	COPcyc	
	- · · ·			
Degradation coefficient cooling	Cdc 0.25 -	Degradation coefficient heating	Cdh 0.25 -	
cooling	Cuc 0.25 -	neating	Cuii 0.25 -	
Electric power input in power modes oth		Annual electricity consumption		
off mode	Poff <b>9</b> W Psb <b>9</b> W	cooling	Qce <b>364</b> kWh/a Qhe <b>2181</b> kWh/a	
standby mode thermostat-off mode	PSD 9 VV Pto(cooling) 25 W	heating / Average heating / Warmer	Qhe <b>2181</b> kWh/a Qhe <b>2127</b> kWh/a	
	Pto(heating) 35 W	heating / colder	Qhe - kWh/a	
crankcase heater mode	Pck 0 W			
Capacity control(indicate one of three or	otions)	Other items		
		Sound power level(indoor)	Lwa 58 dB(A)	
	r	Sound power level(outdoor)	Lwa 66 dB(A)	
fixed	No	Global warming potential	GWP 675 kgCO <sub>2</sub> eq.	
staged variable	No Yes	Rated air flow(indoor) Rated air flow(outdoor)	- <b>786</b> m³/h - <b>3360</b> m³/h	
	100		<b>3300</b> mm	
Contact details for obtaining		nufacturer or of its authorised representati	ve.	
	i Heavy Industries Air-Condition	oning Europe, Ltd. , Middlesex,UB11 1ET, United kingdom		

Information to identify the model(s) to v	which the info	rmation relates to:	If function includes heating: Indicate the	heating se	eason the
Indoor unit model name	SRK20ZS		information relates to. Indicated values		
Outdoor unit model name	SCM80ZS	-W	heating season at a time. Include at leas	st the heati	ng season 'Average'.
Function(indicate if present)			Average(mandatory)	Yes	
cooling	Yes		Warmer(if designated)	Yes	
heating	Yes		Colder(if designated)	No	
Item	symbol	value unit	Item	symbol	value class
Design load	Symbol	value utili	Seasonal efficiency and energy efficient		value class
cooling	Pdesignc	<b>8</b> kW	cooling	SEER	8.20 A++
heating / Average	Pdesignh	6.7 kW	heating / Average	SCOP/A	
heating / Warmer	Pdesignh	8.5 kW	heating / Warmer	SCOP/W	
heating / Colder	Pdesignh	- kW	heating / Colder	SCOP/C	 unit
Declared capacity at outdoor temperat	ure Tdesignh		Back up heating capacity at outdoor ten	nperature -	
heating / Average (-10°C)	Pdh	6.7 kW	heating / Average (-10°C)	elbu	<b>0</b> kW
heating / Warmer (2°C)	Pdh	8.5 kW	heating / Warmer (2°C)	elbu	<b>0</b> kW
heating / Colder (-22°C)	Pdh	- kW	heating / Colder (-22°C)	elbu	- kW
Declared capacity for cooling, at indoo	r temperature	27(19)°C and	Declared energy efficiency ratio, at indo	or tempera	ature 27(19)°C and
outdoor temperature Tj	riemperature	21(10) 0 010	outdoor temperature Tj	or tempere	
Tj=35°C	Pdc	<b>8</b> kW	Tj=35°C	EERd	4.7 -
Tj=30°C	Pdc	5.8 kW	Tj=30°C	EERd	6.95 -
Tj=25℃	Pdc	3.6 kW	Tj=25°C	EERd	10.3 -
Tj=20°C	Pdc	3.5 kW	Tj=20°C	EERd	14 -
Declared capacity for heating / Averag	e season. at i	ndoor	Declared coefficient of performance / A	verage sea	ason, at indoor
temperature 20°C and outdoor temperative	ature Tj		temperature 20°C and outdoor tempera	ture Tj	
Tj=-7°C	Pdh	5.5 kW	Tj=-7°C	COPd	3.3 -
Tj=2°C	Pdh	3.4 kW	Tj=2°C	COPd	4.5 -
Tj=7℃ Tj=12℃	Pdh Pdh	2.4 kW 2.3 kW	Tj=7°C Tj=12°C	COPd COPd	<u>5.7</u> - 7.1 -
Tj=bivalent temperature	Pdh	6.7 kW	Ti=bivalent temperature	COPd	2.5 -
Tj=operating limit	Pdh	6 kW	Tj=operating limit	COPd	2.3 -
	1				
Declared capacity for heating / Warme		ndoor	Declared coefficient of performance / W		ison, at indoor
temperature 20°C and outdoor tempera Ti=2°C	Pdh	8.5 kW	temperature 20°C and outdoor tempera Tj=2°C	COPd	2.9 -
Tj=7°C	Pdh	5.7 kW	Tj=2°C	COPd	5.75
Tj=12°C	Pdh	2.3 kW	Tj=12°C	COPd	7.15 -
Tj=bivalent temperature	Pdh	8.5 kW	Tj=bivalent temperature	COPd	2.9 -
Tj=operating limit	Pdh	6 kW	Tj=operating limit	COPd	2.3 -
Declared capacity for heating / Colder	season at in	door	Declared coefficient of performance / C	older seas	on at indoor
Deciared capacity for freating / Conter	season, at m	1001	Deciared coefficient of performance / C	uluel seas	on, at muoor
	ature Ti		temperature 20°C and outdoor tempera	ture Ti	
temperature 20°C and outdoor temperature Tj=-7°C	ature Tj Pdh	- kW	temperature 20°C and outdoor tempera Tj=-7°C	ture Tj COPd	
temperature 20°C and outdoor tempera Tj=-7°C Tj=2°C	Pdh Pdh	- kW	Tj=-7℃ Tj=2℃	COPd COPd	
temperature 20°C and outdoor tempera Tj=-7°C Tj=2°C Tj=7°C	Pdh Pdh Pdh	- kW - kW	Tj=-7℃ Tj=2℃ Tj=7℃	COPd COPd COPd	
temperature 20°C and outdoor tempera Tj=-7°C Tj=2°C Tj=7°C Tj=12°C	Pdh Pdh Pdh Pdh Pdh	- kW - kW - kW	Tj=-7°C Tj=2°C Tj=7°C Tj=12°C	COPd COPd COPd COPd	
temperature 20°C and outdoor tempera Tj=-7°C Tj=2°C Tj=7°C Tj=2°C Tj=52°C Tj=bivalent temperature	Pdh Pdh Pdh Pdh Pdh Pdh	- kW - kW - kW - kW	Tj=-7°C Tj=2°C Tj=7°C Tj=12°C Tj=bivalent temperature	COPd COPd COPd COPd COPd	
temperature 20°C and outdoor tempera Tj=-7°C Tj=2°C Tj=7°C Tj=12°C	Pdh Pdh Pdh Pdh Pdh	- kW - kW - kW	Tj=-7°C Tj=2°C Tj=7°C Tj=12°C	COPd COPd COPd COPd	
temperature 20°C and outdoor tempera Tj=-7°C Tj=2°C Tj=7°C Tj=12°C Tj=bivalent temperature Tj=operating limit Tj=-15°C	Pdh Pdh Pdh Pdh Pdh Pdh Pdh	- kW - kW - kW - kW - kW	Tj=-7°C Tj=2°C Tj=7°C Tj=12°C Tj=bivalent temperature Tj=operating limit Tj=-15°C	COPd COPd COPd COPd COPd COPd	
temperature 20°C and outdoor tempera Tj=-7°C Tj=2°C Tj=12°C Tj=bivalent temperature Tj=operating limit Tj=-15°C Bivalent temperature	Pdh Pdh Pdh Pdh Pdh Pdh Pdh	- kW - kW - kW - kW - kW - kW	Tj=-7°C Tj=2°C Tj=7°C Tj=12°C Tj=bivalent temperature Tj=operating limit Tj=-15°C	COPd COPd COPd COPd COPd COPd COPd COPd	
temperature 20°C and outdoor temperature $T_{j=-7}^{\circ}C$ $T_{j=2}^{\circ}C$ $T_{j=12}^{\circ}C$ $T_{j=2}^{\circ}C$ $T_{j=5}^{\circ}C$ $T_{j=0}^{\circ}C$ $T_{j=-15}^{\circ}C$ Bivalent temperature heating / Average	Pdh Pdh Pdh Pdh Pdh Pdh Pdh Pdh Tbiv	- kW - kW - kW - kW - kW - kW - kW	$\begin{array}{c} Tj=-7^{\circ}C\\ Tj=2^{\circ}C\\ Tj=7^{\circ}C\\ Tj=12^{\circ}C\\ Tj=bivalent temperature\\ Tj=operating limit\\ Tj=-15^{\circ}C\\ \hline \\ \hline \\ \hline \\ Operating limit temperature\\ heating / Average\\ \end{array}$	COPd COPd COPd COPd COPd COPd COPd COPd	
temperature 20°C and outdoor tempera Tj=-7°C Tj=2°C Tj=7°C Tj=12°C Tj=5valent temperature Tj=operating limit Tj=-15°C Bivalent temperature heating / Average heating / Warmer	Pdh Pdh Pdh Pdh Pdh Pdh Pdh Pdh Tbiv Tbiv	- kW - kW - kW - kW - kW - kW - kW - kW	Tj=-7°C Tj=2°C Tj=7°C Tj=12°C Tj=bivalent temperature Tj=operating limit Tj=-15°C Operating limit temperature heating / Average heating / Warmer	COPd COPd COPd COPd COPd COPd COPd COPd	
temperature 20°C and outdoor temperature $T_{j=-7}^{\circ}C$ $T_{j=2}^{\circ}C$ $T_{j=12}^{\circ}C$ $T_{j=2}^{\circ}C$ $T_{j=5}^{\circ}C$ $T_{j=0}^{\circ}C$ $T_{j=-15}^{\circ}C$ Bivalent temperature heating / Average	Pdh Pdh Pdh Pdh Pdh Pdh Pdh Pdh Tbiv	- kW - kW - kW - kW - kW - kW - kW	$\begin{array}{c} Tj=-7^{\circ}C\\ Tj=2^{\circ}C\\ Tj=7^{\circ}C\\ Tj=12^{\circ}C\\ Tj=bivalent temperature\\ Tj=operating limit\\ Tj=-15^{\circ}C\\ \hline \\ \hline \\ \hline \\ Operating limit temperature\\ heating / Average\\ \end{array}$	COPd COPd COPd COPd COPd COPd COPd COPd	
temperature 20°C and outdoor tempera Tj=-7°C Tj=2°C Tj=12°C Tj=12°C Tj=operating limit Tj=operating limit Tj=-15°C Bivalent temperature heating / Average heating / Average heating / Colder Cycling interval capacity	Pdh Pdh Pdh Pdh Pdh Pdh Pdh Tbiv Tbiv Tbiv	- kW - kW - kW - kW - kW - kW - kW - kW - c - c - °c	Tj=-7°C Tj=2°C Tj=7°C Tj=t2°C Tj=bivalent temperature Tj=operating limit Tj=-15°C Operating limit temperature heating / Average heating / Warmer heating / Colder	COPd COPd COPd COPd COPd COPd COPd COPd	
temperature 20°C and outdoor tempera Tj=-7°C Tj=2°C Tj=7°C Tj=12°C Tj=bivalent temperature Tj=operating limit Tj=-15°C Bivalent temperature heating / Average heating / Average heating / Colder	Pdh Pdh Pdh Pdh Pdh Pdh Pdh Pdh Tbiv Tbiv Tbiv Tbiv Tbiv	- kW - kW	Tj=-7°C Tj=2°C Tj=7°C Tj=12°C Tj=bivalent temperature Tj=operating limit Tj=-15°C Operating limit temperature heating / Average heating / Average heating / Colder	COPd COPd COPd COPd COPd COPd COPd COPd	
temperature 20°C and outdoor tempera Tj=-7°C Tj=2°C Tj=12°C Tj=12°C Tj=operating limit Tj=operating limit Tj=-15°C Bivalent temperature heating / Average heating / Average heating / Colder Cycling interval capacity	Pdh Pdh Pdh Pdh Pdh Pdh Pdh Tbiv Tbiv Tbiv	- kW - kW - kW - kW - kW - kW - kW - kW - c - c - °c	Tj=-7°C Tj=2°C Tj=7°C Tj=t2°C Tj=bivalent temperature Tj=operating limit Tj=-15°C Operating limit temperature heating / Average heating / Warmer heating / Colder	COPd COPd COPd COPd COPd COPd COPd COPd	
temperature 20°C and outdoor tempera Tj=-7°C Tj=2°C Tj=7°C Tj=12°C Tj=bivalent temperature Tj-operating limit Tj=-15°C Bivalent temperature heating / Average heating / Average heating / Colder Cycling interval capacity for cooling for heating	Pdh Pdh Pdh Pdh Pdh Pdh Pdh Pdh Tbiv Tbiv Tbiv Tbiv Tbiv	- kW - kW	Tj=-7°C Tj=2°C Tj=7°C Tj=12°C Tj=bivalent temperature Tj=operating limit Tj=-15°C Operating limit temperature heating / Average heating / Varrage heating / Colder Cycling interval efficiency for cooling for heating	COPd COPd COPd COPd COPd COPd COPd COPd	
temperature 20°C and outdoor tempera Tj=-7°C Tj=2°C Tj=7°C Tj=12°C Tj=bivalent temperature Tj=operating limit Tj=-15°C Bivalent temperature heating / Average heating / Average heating / Colder	Pdh Pdh Pdh Pdh Pdh Pdh Pdh Pdh Tbiv Tbiv Tbiv Tbiv Tbiv	- kW - kW	Tj=-7°C Tj=2°C Tj=7°C Tj=12°C Tj=bivalent temperature Tj=operating limit Tj=-15°C Operating limit temperature heating / Average heating / Average heating / Colder	COPd COPd COPd COPd COPd COPd COPd COPd	
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temperature 20°C and outdoor tempera Tj=-7°C Tj=2°C Tj=12°C Tj=12°C Tj=operating limit Tj=operating limit Tj=-15°C Bivalent temperature heating / Average heating / Average heating / Average heating / Odder Cycling interval capacity for cooling for heating Degradation coefficient cooling Electric power input in power modes of off mode	Pdh Pdh Pdh Pdh Pdh Pdh Pdh Pdh Tbiv Tbiv Tbiv Tbiv Tbiv Tbiv Cdc	- kW - kW - kW - kW - kW - kW - kW - kW - c - °C - °C - °C - °C - % - wW - kW - wW -	Tj=-7°C         Tj=2°C         Tj=7°C         Tj=12°C         Tj=bivalent temperature         Tj=-15°C         Operating limit         Tj=-15°C         Operating limit temperature         heating / Average         heating / Average         heating / Colder         Cycling interval efficiency         for cooling         for heating         Degradation coefficient         heating         Annual electricity consumption         cooling	COPd COPd COPd COPd COPd COPd COPd COPd	
temperature 20°C and outdoor tempera Tj=-7°C Tj=2°C Tj=12°C Tj=12°C Tj=operating limit Tj=operating limit Tj=-15°C Bivalent temperature heating / Average heating / Average heating / Average heating / Colder Cycling interval capacity for cooling for heating Degradation coefficient cooling Electric power input in power modes o	Pdh Pdh Pdh Pdh Pdh Pdh Pdh Pdh Tbiv Tbiv Tbiv Tbiv Tbiv Tbiv Tbiv Cbiv Cdc	- kW - c - °C -	Tj=-7°C Tj=2°C Tj=7°C Tj=12°C Tj=bivalent temperature Tj=operating limit Tj=-15°C Operating limit temperature heating / Average heating / Average heating / Colder Cycling interval efficiency for cooling for heating Degradation coefficient heating Annual electricity consumption cooling heating / Average	COPd COPd COPd COPd COPd COPd COPd COPd	
temperature 20°C and outdoor tempera Tj=-7°C Tj=2°C Tj=7°C Tj=12°C Tj=bivalent temperature Tj=operating limit Tj=-15°C Bivalent temperature heating / Average heating / Average heating / Colder Cycling interval capacity for cooling for heating Degradation coefficient cooling Electric power input in power modes of off mode standby mode	Pdh Pdh Pdh Pdh Pdh Pdh Pdh Pdh Tbiv Tbiv Tbiv Tbiv Tbiv Tbiv Cdc	- kW - c - °C -	Tj=-7°C         Tj=2°C         Tj=7°C         Tj=12°C         Tj=bivalent temperature         Tj=-15°C         Operating limit         Tj=-15°C         Operating limit temperature         heating / Average         heating / Average         heating / Colder         Cycling interval efficiency         for cooling         for heating         Degradation coefficient         heating         Annual electricity consumption         cooling	COPd COPd COPd COPd COPd COPd COPd COPd	
temperature 20°C and outdoor tempera Tj=-7°C Tj=2°C Tj=7°C Tj=12°C Tj=bivalent temperature Tj=operating limit Tj=-15°C Bivalent temperature heating / Average heating / Average heating / Colder Cycling interval capacity for cooling for heating Degradation coefficient cooling Electric power input in power modes of off mode standby mode	Pdh Pdh Pdh Pdh Pdh Pdh Pdh Pdh Tbiv Tbiv Tbiv Tbiv Tbiv Tbiv Tbiv Cdc Cdc Cdc ther than 'acti Poff Psb Pto(cooling)	- kW - kW - kW - kW - kW - kW - kW - kW - c - °c - °c - kW - kW - kW - kW - w - w - w - w - w - w - w - w	Tj=-7°C Tj=2°C Tj=7°C Tj=12°C Tj=bivalent temperature Tj=operating limit Tj=-15°C Operating limit temperature heating / Average heating / Colder Cycling interval efficiency for cooling for heating Degradation coefficient heating Annual electricity consumption cooling heating / Average heating / Average heating / Warmer	COPd COPd COPd COPd COPd COPd COPd COPd	
temperature 20°C and outdoor tempera Tj=-7°C Tj=2°C Tj=7°C Tj=12°C Tj=bivalent temperature Tj=operating limit Tj=-15°C Bivalent temperature heating / Average heating / Average heating / Colder Cycling interval capacity for cooling for heating Degradation coefficient cooling Electric power input in power modes of off mode standby mode thermostat-off mode	Pdh Pdh Pdh Pdh Pdh Pdh Pdh Pdh Tbiv Tbiv Tbiv Tbiv Tbiv Tbiv Tbiv Tbiv	- kW - kW - kW - kW - kW - kW - kW - kW - c - c - c - c - kW - kW - kW - kW - 0.25 - ve - w - w - w - w - w - w - w - w	Tj=-7°C Tj=2°C Tj=7°C Tj=12°C Tj=bivalent temperature Tj=operating limit Tj=-15°C Operating limit temperature heating / Average heating / Average heating / Colder Cycling interval efficiency for cooling for heating Degradation coefficient heating Annual electricity consumption cooling heating / Average heating / Average heating / Average heating / Warmer heating / Colder	COPd COPd COPd COPd COPd COPd COPd COPd	
temperature 20°C and outdoor tempera Tj=-7°C Tj=2°C Tj=12°C Tj=12°C Tj=operating limit Tj=operating limit Tj=-15°C Bivalent temperature heating / Average heating / Average heating / Average heating / Colder Cycling interval capacity for cooling for heating Degradation coefficient cooling Electric power input in power modes of off mode standby mode thermostat-off mode	Pdh Pdh Pdh Pdh Pdh Pdh Pdh Pdh Tbiv Tbiv Tbiv Tbiv Tbiv Tbiv Tbiv Tbiv	- kW - kW - kW - kW - kW - kW - kW - kW - c - c - c - c - kW - kW - kW - kW - 0.25 - ve - w - w - w - w - w - w - w - w	Tj=-7°C Tj=2°C Tj=7°C Tj=2°C Tj=bivalent temperature Tj=operating limit Tj=-15°C Operating limit temperature heating / Average heating / Colder Cycling interval efficiency for cooling for heating Degradation coefficient heating Annual electricity consumption cooling heating / Average heating / Average heating / Varmer heating / Colder	COPd COPd COPd COPd COPd COPd COPd Tol Tol Tol Tol EERcyc COPcyc COPcyc	
temperature 20°C and outdoor tempera Tj=-7°C Tj=2°C Tj=7°C Tj=12°C Tj=bivalent temperature Tj=operating limit Tj=-15°C Bivalent temperature heating / Average heating / Average heating / Colder Cycling interval capacity for cooling for heating Degradation coefficient cooling Electric power input in power modes of off mode standby mode thermostat-off mode	Pdh Pdh Pdh Pdh Pdh Pdh Pdh Pdh Tbiv Tbiv Tbiv Tbiv Tbiv Tbiv Tbiv Tbiv	- kW - kW - kW - kW - kW - kW - kW - kW - c - c - c - c - kW - kW - kW - kW - 0.25 - ve - w - w - w - w - w - w - w - w	Tj=-7°C Tj=2°C Tj=7°C Tj=12°C Tj=t2°C Tj=bivalent temperature Tj=operating limit Tj=-15°C Operating limit temperature heating / Average heating / Average heating / Colder Cycling interval efficiency for cooling for heating Degradation coefficient heating Annual electricity consumption cooling heating / Average heating / Average heating / Varmer heating / Colder	COPd COPd COPd COPd COPd COPd COPd COPd	
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temperature 20°C and outdoor tempera TJ=-7°C TJ=2°C TJ=12°C TJ=12°C TJ=operating limit TJ=-n5°C Bivalent temperature heating / Average heating / Average heating / Average heating / Average heating / Colder Cycling interval capacity for cooling for heating Degradation coefficient cooling Electric power input in power modes of off mode standby mode thermostat-off mode crankcase heater mode Capacity control(indicate one of three of fixed staged	Pdh Pdh Pdh Pdh Pdh Pdh Pdh Pdh Pdh Pdh	- kW - kW - kW - kW - kW - kW - kW - kW - c - c - c - c - kW - kW - kW - kW - 0.25 - ve - w - w - w - w - w - w - w - w	Tj=-7°C Tj=2°C Tj=7°C Tj=2°C Tj=bivalent temperature Tj=operating limit Tj=-15°C Operating limit temperature heating / Average heating / Colder Cycling interval efficiency for cooling for heating Degradation coefficient heating Annual electricity consumption cooling heating / Average heating / Average heating / Average heating / Colder	COPd COPd COPd COPd COPd COPd COPd COPd	-         -           -         -           -         -           -         -           -         -           -         -           -         -           -         -           -         -           -         -           -         -           -         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.2038         kWh/a           kWh/a         kWh/a           bg8.3         kWh/a           bg8.3         kgC0_2eq.           m <sup>3</sup> /h         m <sup>3</sup> /h
temperature 20°C and outdoor tempera Tj=-7°C Tj=2°C Tj=7°C Tj=12°C Tj=bivalent temperature Tj=operating limit Tj=-15°C Bivalent temperature heating / Average heating / Average heating / Average heating / Colder Cycling interval capacity for cooling for heating Degradation coefficient cooling Electric power input in power modes of off mode standby mode thermostat-off mode crankcase heater mode Capacity control(indicate one of three of fixed	Pdh Pdh Pdh Pdh Pdh Pdh Pdh Pdh Tbiv Tbiv Tbiv Tbiv Tbiv Tbiv Tbiv Cdc Cdc Cdc Cdc Cdc ther than 'acti Poff Poff Pto(cooling) Pto(ceating) Pck Pck	- kW - kW - kW - kW - kW - kW - kW - kW - c - c - c - c - kW - kW - kW - kW - 0.25 - ve - w - w - w - w - w - w - w - w	Tj=-7°C Tj=2°C Tj=7°C Tj=12°C Tj=bivalent temperature Tj=operating limit Tj=-15°C Operating limit temperature heating / Average heating / Colder Cycling interval efficiency for cooling for heating Degradation coefficient heating Annual electricity consumption cooling heating / Average heating / Average heating / Average heating / Average heating / Average heating / Colder	COPd COPd COPd COPd COPd COPd COPd COPd	
temperature 20°C and outdoor tempera Tj=-7°C Tj=2°C Tj=12°C Tj=12°C Tj=operating limit Tj=operating limit Tj=-15°C Bivalent temperature heating / Average heating / Average heating / Average heating / Colder Cycling interval capacity for cooling for heating Degradation coefficient cooling Electric power input in power modes or off mode standby mode thermostat-off mode crankcase heater mode Capacity control(indicate one of three of fixed staged variable	Pdh Pdh Pdh Pdh Pdh Pdh Pdh Pdh Pdh Pdh	- kW - kW - kW - kW - kW - kW - kW - kW - c - °C -	Tj=-7°C Tj=2°C Tj=7°C Tj=12°C Tj=bivalent temperature Tj=operating limit Tj=-15°C Operating limit temperature heating / Average heating / Average heating / Colder Cycling interval efficiency for cooling for heating Degradation coefficient heating Annual electricity consumption cooling heating / Average heating / Average heating / Average heating / Colder Other items Sound power level(indoor) Sound power level(indoor) Global warming potential Rated air flow(indoor) Rated air flow(outdoor)	COPd COPd COPd COPd COPd COPd COPd COPd	-         -           -         -           -         -           -         -           -         -           -         -           -         -           -         -           -         -           -         -           -         -           -         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.2038         kWh/a           kWh/a         kWh/a           bgBQ_cQ_cq         -           0.66         675           0.75         -
temperature 20°C and outdoor tempera Tj=-7°C Tj=2°C Tj=12°C Tj=12°C Tj=bivalent temperature Tj=operating limit Tj=-15°C Bivalent temperature heating / Average heating / Average heating / Colder Cycling interval capacity for cooling for heating Degradation coefficient cooling Electric power input in power modes or off mode standby mode thermostat-off mode crankcase heater mode Capacity control(indicate one of three of fixed staged variable Contact details for obtaining	Pdh Pdh Pdh Pdh Pdh Pdh Pdh Pdh Pdh Pdh	- kW - kW - kW - kW - kW - kW - kW - kW - c - c - c - c - kW - kW - kW - kW - kW - kW - w - w - w - w - w - w - w - w	Tj=-7°C Tj=2°C Tj=7°C Tj=2°C Tj=bivalent temperature Tj=operating limit Tj=-15°C Operating limit temperature heating / Average heating / Colder Cycling interval efficiency for cooling for heating Degradation coefficient heating Annual electricity consumption cooling heating / Average heating / Average heating / Average heating / Average heating / Average heating / Colder Other items Sound power level(indoor) Sound power level(outdoor) Global warming potential Rated air flow(indoor) Rated air flow(outdoor)	COPd COPd COPd COPd COPd COPd COPd COPd	-         -           -         -           -         -           -         -           -         -           -         -           -         -           -         -           -         -           -         -           -         -           -         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.2038         kWh/a           kWh/a         kWh/a           bgBQ_cQ_cq         -           0.66         675           0.75         -
temperature 20°C and outdoor tempera Tj=-7°C Tj=2°C Tj=12°C Tj=12°C Tj=12°C Bivalent temperature heating / Average heating / Average heating / Average heating / Average heating / Colder Cycling interval capacity for cooling for heating Degradation coefficient cooling Electric power input in power modes of off mode standby mode thermostat-off mode crankcase heater mode Capacity control(indicate one of three of fixed staged variable Contact details for obtaining more information Mitsubis	Pdh Pdh Pdh Pdh Pdh Pdh Pdh Pdh Pdh Pdh	- kW - kW - kW - kW - kW - kW - kW - c - c - c - c - c - kW - kW - kW - kW - kW - kW - kW - kW - c - c - c - c - c - c - c - c	Tj=-7°C Tj=2°C Tj=7°C Tj=2°C Tj=bivalent temperature Tj=operating limit Tj=-15°C Operating limit temperature heating / Average heating / Colder Cycling interval efficiency for cooling for heating Degradation coefficient heating Annual electricity consumption cooling heating / Average heating / Average heating / Average heating / Average heating / Average heating / Colder Other items Sound power level(indoor) Sound power level(outdoor) Global warming potential Rated air flow(indoor) Rated air flow(outdoor)	COPd COPd COPd COPd COPd COPd COPd COPd	-         -           -         -           -         -           -         -           -         -           -         -           -         -           -         -           -         -           -         -           -         -           -         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.25         -           0.2038         kWh/a           kWh/a         kWh/a           bgBQ_cQ_cq         -           0.66         675           0.75         -

Information to identify the model(s) to v			If function includes heating: Indicate the	e heating s	eason the
Indoor unit model name Outdoor unit model name		5ZS-W + SRK50ZS-W information relates to. Indicated values should relate to one			
Outdoor unit model name SCM80ZS-W			heating season at a time. Include at least the heating season 'Average'.		
Function(indicate if present)			Average(mandatory)	Yes	
cooling	Yes		Warmer(if designated)	Yes	
heating	Yes		Colder(if designated)	No	
Item	symbol value	unit	Item	symbol	value class
Design load	oymoor value	unit	Seasonal efficiency and energy efficien		Value oldoo
cooling	Pdesignc 8	kW	cooling	SEER	6.10 A++
heating / Average	Pdesignh 6.7		heating / Average	SCOP/A	
heating / Warmer heating / Colder	Pdesignh 8.5 Pdesignh -	5 kW kW	heating / Warmer heating / Colder	SCOP/W SCOP/C	
	r ucsignin -	RVV	incating / Colder	000170	unit
Declared capacity at outdoor temperate			Back up heating capacity at outdoor ter		Tdesignh
heating / Average (-10°C)	Pdh 6.7		heating / Average (-10°C)	elbu	0 kW
heating / Warmer (2°C) heating / Colder (-22°C)	Pdh 8.5 Pdh -	5 kW kW	heating / Warmer (2°C) heating / Colder (-22°C)	elbu elbu	0 kW - kW
	Full -	KVV	heating / Colder (-22 C)	eibu	- KVV
Declared capacity for cooling, at indoor	temperature 27(19	9)°C and	Declared energy efficiency ratio, at inde	oor temper	ature 27(19)°C and
outdoor temperature Tj	Dda 0	1.34/	outdoor temperature Tj		0.04
Tj=35℃ Tj=30℃	Pdc 8 Pdc 5.9	kW kW	Tj=35℃ Tj=30℃	EERd EERd	2.94 -
Tj=25℃	Pdc 3.3		Tj=25°C	EERd	8.3 -
Tj=20°C	Pdc 3.5		Tj=20°C	EERd	12 -
Declared capacity for heating / Average temperature 20°C and outdoor temperature			Declared coefficient of performance / A temperature 20°C and outdoor temperature		ason, at indoor
Tj=-7°C	Pdh 6	kW	Ti=-7°C	COPd	2.8 -
Tj=2°C	Pdh 3.6		Tj=2°C	COPd	4 -
Tj=7°C	Pdh 2.3	8 kW	Tj=7°C	COPd	4.8 -
Tj=12°C	Pdh 2.5		Tj=12°C	COPd	6.2 -
Tj=bivalent temperature	Pdh 6.7 Pdh 6.3		Tj=bivalent temperature	COPd COPd	<u>2.1</u> - 1.9 -
Tj=operating limit	Puli <b>0.3</b>	KVV	Tj=operating limit	COPu	1.9 -
Declared capacity for heating / Warmer			Declared coefficient of performance / V		ason, at indoor
temperature 20°C and outdoor tempera			temperature 20°C and outdoor tempera		
Tj=2°C Tj=7°C	Pdh 8.5 Pdh 5.5		Tj=2°C Ti=7°C	COPd COPd	2.4 -
Tj=12°C	Pdh 5.5		Tj=7°C	COPd	6.3 -
Tj=bivalent temperature	Pdh 8.5		Tj=bivalent temperature	COPd	2.4 -
Tj=operating limit	Pdh 6.3	8 kW	Tj=operating limit	COPd	1.9 -
Declared consolity for besting / Colder	accon at indeer		Declared coefficient of performance / C		on at indeer
Declared capacity for heating / Colder s temperature 20°C and outdoor temperative			Declared coefficient of performance / C temperature 20°C and outdoor temperation		on, at mooor
Tj=-7°C	Pdh -	kW	Tj=-7℃	COPd	
Tj=2°C	Pdh -	kW	Tj=2℃	COPd	
Tj=7°C	Pdh -	kW	Tj=7°C	COPd	
Tj=12°C Tj=bivalent temperature	Pdh - Pdh -	kW kW	Tj=12°C Tj=bivalent temperature	COPd COPd	
Tj=operating limit	Pdh -	kW	Tj=operating limit	COPd	
Tj=-15°C	Pdh -	kW	Tj=-15℃	COPd	
Bivalent temperature heating / Average	Tbiv -10	°C	Operating limit temperature heating / Average	Tol	-15 ℃
heating / Warmer	Tbiv -10	) C	heating / Warmer	Tol	-15 °C
heating / Colder	Tbiv -		heating / Colder	Tol	- °C
Cycling interval capacity for cooling	Pcycc -	kW	Cycling interval efficiency for cooling	EERcyc	
for heating	Pcych -	kW	for heating	COPcyc	
	.,			, .	
Degradation coefficient			Degradation coefficient	0.11	
cooling	Cdc 0.2	5 -	heating	Cdh	0.25 -
Electric power input in power modes ot	her than 'active mo	ode'	Annual electricity consumption		
off mode	Poff 15	W	cooling	Qce	460 kWh/a
standby mode	Psb 15		heating / Average	Qhe	2347 kWh/a
thermostat-off mode	Pto(cooling) 30 Pto(heating) 40		heating / Warmer heating / colder	Qhe Qhe	2335 kWh/a - kWh/a
crankcase heater mode	Pto(neating) 40 Pck 0	W		QIE	- Kvvi//d
Capacity control(indicate one of three of	options)		Other items		<b>50</b> JD(A)
			Sound power level(indoor) Sound power level(outdoor)	Lwa Lwa	59 dB(A) 67 dB(A)
fixed	No		Global warming potential	Lwa GWP	67 dB(A) 675 kgCO <sub>2</sub> eq.
staged	No		Rated air flow(indoor)	-	726 m <sup>3</sup> /h
variable			Rated air flow(outdoor)	-	3360 m³/h
	Yes				
Contact dataila for - ht-ining	1	an of the second			
Contact details for obtaining more information Mitsubis	Name and addre		ufacturer or of its authorised representation	ve.	
more information Mitsubis	Name and addre	s Air-Condition	ufacturer or of its authorised representation	ve.	

Information to identify the model(s) to w	hich the information relates to:	If function includes heating: Indicate the	heating season the
Indoor unit model name	SRK20ZS-W + SRK25ZS-W + SRK35ZS-W	information relates to. Indicated values	
Outdoor unit model name	SCM80ZS-W	heating season at a time. Include at leas	st the heating season 'Average'.
Function(indicate if present)		Average(mandatory)	Yes
cooling	Yes	Warmer(if designated)	Yes
heating	Yes	Colder(if designated)	No
lite and	sumplied under under	14	sumplies under
Item Design load	symbol value unit	Item Seasonal efficiency and energy efficient	symbol value class
cooling	Pdesignc 8 kW	cooling	SEER 6.70 A++
heating / Average	Pdesignh 6.7 kW	heating / Average	SCOP/A 4.20 A+
heating / Warmer	Pdesignh 8.5 kW	heating / Warmer	SCOP/W 5.40 A+++
heating / Colder	Pdesignh - kW	heating / Colder	SCOP/C
Declared capacity at outdoor temperatu	uro Tdooignh	Back up heating capacity at outdoor ten	unit
heating / Average (-10°C)	Pdh 6.7 kW	heating / Average (-10°C)	elbu <b>0</b> kW
heating / Warmer (2°C)	Pdh <b>8.5</b> kW	heating / Warmer (2°C)	elbu <b>0</b> kW
heating / Colder (-22°C)	Pdh - kW	heating / Colder (-22°C)	elbu - kW
	• •		• •
Declared capacity for cooling, at indoor	temperature 27(19)°C and	Declared energy efficiency ratio, at indo	or temperature 27(19)°C and
outdoor temperature Tj Tj=35°C	Pdc 8 kW	outdoor temperature Tj Tj=35°C	EERd <b>3.49</b> -
Tj=30°C	Pdc <b>5.9</b> kW	Tj=30℃	EERd 5.5 -
Tj=25℃	Pdc <b>3.7</b> kW	Tj=25℃	EERd 8.8 -
Tj=20°C	Pdc 3.5 kW	Tj=20°C	EERd 12.5 -
Declared capacity for heating / Average		Declared coefficient of performance / A	
temperature 20°C and outdoor tempera Ti=-7°C	ture Tj Pdh <b>6</b> kW	temperature 20°C and outdoor tempera Ti=-7°C	ture Tj COPd <b>2.9</b> -
Tj=2°C	Pdh <b>3.6</b> kW	Tj=-7 C Tj=2°C	COPd 2.9 - COPd 4.2 -
Tj=7°C	Pdh 2.3 kW	Tj=2°C	COPd <b>5.1</b>
Tj=12°C	Pdh 2.5 kW	Tj=12°C	COPd 6.5 -
Tj=bivalent temperature	Pdh 6.7 kW	Tj=bivalent temperature	COPd 2.2 -
Tj=operating limit	Pdh 6.3 kW	Tj=operating limit	COPd 2 -
Declared consolity for hearting (Manage			
Declared capacity for heating / Warmer temperature 20°C and outdoor tempera		Declared coefficient of performance / W temperature 20°C and outdoor tempera	
Tj=2°C	Pdh 8.5 kW	Tj=2°C	COPd <b>2.6</b> -
Tj=7°C	Pdh 5.5 kW	Tj=7℃	COPd 5.2 -
Tj=12°C	Pdh 2.5 kW	Tj=12°C	COPd 6.4 -
Tj=bivalent temperature	Pdh 8.5 kW	Tj=bivalent temperature	COPd 2.6 -
Tj=operating limit	Pdh 6.3 kW	Tj=operating limit	COPd 2 -
Declared capacity for heating / Colder s	eason at indoor	Declared coefficient of performance / C	older season, at indoor
temperature 20°C and outdoor tempera		temperature 20°C and outdoor tempera	
Tj=-7°C	Pdh - kW	Tj=-7°C	COPd -
Tj=2°C	Pdh - kW	Tj=2°C	COPd
Tj=7°C	Pdh - kW	Tj=7°C	COPd
Tj=12°C	Pdh - kW	Tj=12°C	COPd
Tj=bivalent temperature	Pdh - kW	Tj=bivalent temperature	COPd
Tj=operating limit Tj=-15°C	Pdh - kW Pdh - kW	Tj=operating limit Ti=-15℃	COPd COPd
IJ15 C	Full - KVV	IJ=-15 C	COFU
Bivalent temperature		Operating limit temperature	
heating / Average	Tbiv -10 °C	heating / Average	Tol <b>-15</b> °C
heating / Warmer	Tbiv 2 °C	heating / Warmer	Tol <u>-15</u> °C
heating / Colder	Tbiv - °C	heating / Colder	Tol - °C
Cycling interval capacity		Cycling interval efficiency	
for cooling	Pcycc - kW	for cooling	EERcyc
for heating	Pcych - kW	for heating	COPcyc
U	· · ·	·	· · · ·
Degradation coefficient		Degradation coefficient	
cooling	Cdc 0.25 -	heating	Cdh 0.25 -
Electric power input in power modes ot	her than 'active mode'	Annual electricity consumption	
off mode	Poff 15 W	cooling	Qce 419 kWh/a
standby mode	Psb 15 W	heating / Average	Qhe 2236 kWh/a
thermostat-off mode	Pto(cooling) 35 W	heating / Warmer	Qhe 2205 kWh/a
and the second sec	Pto(heating) 45 W	heating / colder	Qhe - kWh/a
crankcase heater mode	Pck 0 W	l	
Capacity control(indicate one of three o	ptions)	Other items	
	F	Sound power level(indoor)	Lwa 54 dB(A)
		Sound power level(outdoor)	Lwa 67 dB(A)
fixed	No	Global warming potential	GWP 675 kgCO2eq.
staged	No	Rated air flow(indoor)	- 678 m³/h
variable	Yes	Rated air flow(outdoor)	- <b>3360</b> m³/h
Contact details for obtaining	Name and address of the man	ufacturer or of its authorised representati	Ve
	hi Heavy Industries Air-Condition		
		Middlesex,UB11 1ET, United kingdom	
1 1			

Information to identify the model(s) to v	which the info	ormation relates to:	If function includes heating: Indicate the	heating se	eason the
Indoor unit model name	SRK20ZS	-W x 4	information relates to. Indicated values	should rela	ate to one
Outdoor unit model name	SCM80ZS	-W	heating season at a time. Include at leas	st the heati	ng season 'Average'.
Function(indicate if present)			Average(mandatory)	Yes	
cooling	Yes		Warmer(if designated)	Yes	
heating	Yes		Colder(if designated)	No	
-					
Item	symbol	value unit	Item	symbol	value class
Design load cooling	Pdesignc	<b>8</b> kW	Seasonal efficiency and energy efficien cooling	cy class SEER	7.10 A++
heating / Average	Pdesignh	6.7 kW	heating / Average	SCOP/A	
heating / Warmer	Pdesignh	8.5 kW	heating / Warmer	SCOP/W	
heating / Colder	Pdesignh	- kW	heating / Colder	SCOP/C	
					unit
Declared capacity at outdoor temperat heating / Average (-10°C)	Pdh	6.7 kW	Back up heating capacity at outdoor ter heating / Average (-10°C)	nperature elbu	I designh
heating / Warmer (2°C)	Pdh	8.5 kW	heating / Warmer (2°C)	elbu	0 kW
heating / Colder (-22°C)	Pdh	- kW	heating / Colder (-22°C)	elbu	- kW
		•			•
Declared capacity for cooling, at indoo	r temperature	e 27(19)°C and	Declared energy efficiency ratio, at indo	or tempera	ature 27(19)°C and
outdoor temperature Tj	Pdc	0 1/1//	outdoor temperature Tj Tj=35°C		2.60
Tj=35℃ Tj=30℃	Pdc	8 kW 5.8 kW	Tj=30°C	EERd EERd	3.69 - 6.3 -
Tj=25℃	Pdc	3.6 kW	Tj=25°C	EERd	9.3 -
Tj=20°C	Pdc	3.5 kW	Tj=20°C	EERd	12.5 -
		•			· · · · · · · · · · · · · · · · · · ·
Declared capacity for heating / Averag		indoor	Declared coefficient of performance / A		ason, at indoor
temperature 20°C and outdoor tempera	ature Tj Pdh	5.5	temperature 20°C and outdoor tempera	ture Tj COPd	21
Tj=-7°C Tj=2°C	Pan Pdh	5.5 kW 3.4 kW	Tj=-7°C Tj=2°C	COPd COPd	<u>3.1</u> - 4.2 -
Tj=7°C	Pdh	2.4 kW	Tj=2 C Tj=7°C	COPd	5.3 -
Tj=12°C	Pdh	2.3 kW	Tj=12°C	COPd	6.7 -
Tj=bivalent temperature	Pdh	6.7 kW	Tj=bivalent temperature	COPd	2.4 -
Tj=operating limit	Pdh	6 kW	Tj=operating limit	COPd	2.2 -
Declared correctly for booting (1)/(correct					and at indexe
Declared capacity for heating / Warme temperature 20°C and outdoor temperature		IIIdool	Declared coefficient of performance / W temperature 20°C and outdoor tempera		ison, at indoor
Tj=2°C	Pdh	8.5 kW	Tj=2°C	COPd	2.8 -
Tj=7℃	Pdh	5.7 kW	Tj=7°C	COPd	5.4 -
Tj=12°C	Pdh	2.3 kW	Tj=12°C	COPd	6.9 -
Tj=bivalent temperature	Pdh	8.5 kW	Tj=bivalent temperature	COPd	2.8 -
Tj=operating limit	Pdh	6 kW	Tj=operating limit	COPd	2.2 -
Declared capacity for heating / Colder	season at in	door	Declared coefficient of performance / C	older seas	on at indoor
temperature 20°C and outdoor temperat			temperature 20°C and outdoor tempera		
Tj=-7°C	Pdh	- kW	Tj=-7°C	COPd	
Tj=2°C	Pdh	- kW	Tj=2°C	COPd	
Tj=7°C	Pdh	- kW	Tj=7℃	COPd	
Tj=12°C	Pdh Pdh	- kW - kW	Tj=12°C	COPd COPd	
Tj=bivalent temperature Tj=operating limit	Pdh	- kW - kW	Tj=bivalent temperature Tj=operating limit		
Tj=-15°C	Pdh	- kW		COP4	
.,		- 1677	Ti=-15°C	COPd COPd	
		- KVV	Tj=-15℃	COPd COPd	-
Bivalent temperature		- KVV	Operating limit temperature		
heating / Average	Tbiv	- <b>10</b> °C	Operating limit temperature heating / Average	COPd Tol	
heating / Average heating / Warmer	Tbiv	-10 ℃ 2 ℃	Operating limit temperature heating / Average heating / Warmer	COPd Tol Tol	 -15 ℃ -15 ℃
heating / Average		- <b>10</b> °C	Operating limit temperature heating / Average	COPd Tol	
heating / Average heating / Warmer	Tbiv	-10 ℃ 2 ℃	Operating limit temperature heating / Average heating / Warmer	COPd Tol Tol	 -15 ℃ -15 ℃
heating / Average heating / Warmer heating / Colder	Tbiv	-10 ℃ 2 ℃	Operating limit temperature heating / Average heating / Warmer heating / Colder	COPd Tol Tol	 -15 ℃ -15 ℃
heating / Average heating / Warmer heating / Colder Cycling interval capacity	Tbiv Tbiv	-10 ℃ 2 ℃ - ℃	Operating limit temperature heating / Average heating / Warmer heating / Colder	COPd Tol Tol Tol	 -15 °C -15 °C - °C
heating / Average heating / Warmer heating / Colder Cycling interval capacity for cooling for heating	Tbiv Tbiv Pcycc	-10 ℃ 2 ℃ - ℃	Operating limit temperature         heating / Average         heating / Warmer         heating / Colder         Cycling interval efficiency         for cooling         for heating	COPd Tol Tol Tol EERcyc	
heating / Average heating / Warmer heating / Colder Cycling interval capacity for cooling for heating Degradation coefficient	Tbiv Tbiv Pcycc Pcych	-10 ℃ 2 ℃ - ℃ - ℃	Operating limit temperature heating / Average heating / Warmer heating / Colder         Cycling interval efficiency for cooling for heating         Degradation coefficient	COPd Tol Tol Tol EERcyc COPcyc	
heating / Average heating / Warmer heating / Colder Cycling interval capacity for cooling for heating	Tbiv Tbiv Pcycc	-10 ℃ 2 ℃ - ℃	Operating limit temperature         heating / Average         heating / Warmer         heating / Colder         Cycling interval efficiency         for cooling         for heating	COPd Tol Tol Tol EERcyc	
heating / Average heating / Warmer heating / Colder Cycling interval capacity for cooling for heating Degradation coefficient	Tbiv Tbiv Pcycc Pcych Cdc	-10 °C 2 °C - °C - ℃ - kW - kW - kW	Operating limit temperature heating / Average heating / Warmer heating / Colder         Cycling interval efficiency for cooling for heating         Degradation coefficient	COPd Tol Tol Tol EERcyc COPcyc	
heating / Average heating / Warmer heating / Colder Cycling interval capacity for cooling for heating Degradation coefficient cooling Electric power input in power modes of off mode	Tbiv Tbiv Pcycc Pcych Cdc Cdc ther than 'act	-10 °C 2 °C - °C - kW - kW 0.25 - ive mode' 15 W	Operating limit temperature heating / Average heating / Warmer heating / Colder         Cycling interval efficiency for cooling for heating         Degradation coefficient heating         Annual electricity consumption cooling	COPd Tol Tol Tol Tol COPcyc COPcyc	
heating / Average heating / Warmer heating / Colder Cycling interval capacity for cooling for heating Degradation coefficient cooling Electric power input in power modes of off mode standby mode	Tbiv Tbiv Pcycc Pcych Cdc Cdc ther than 'act Poff Psb	-10 °C 2 °C - °C - kW - kW - kW 0.25 - - ive mode' 15 W	Operating limit temperature heating / Average heating / Warmer heating / Colder         Cycling interval efficiency for cooling for heating         Degradation coefficient heating         Annual electricity consumption cooling heating / Average	COPd Tol Tol Tol EERcyc COPcyc COPcyc	
heating / Average heating / Warmer heating / Colder Cycling interval capacity for cooling for heating Degradation coefficient cooling Electric power input in power modes of off mode	Tbiv Tbiv Pcycc Pcych Cdc Cdc ther than 'act Poff Psb Pto(cooling)	-10 °C 2 °C - °C - kW - kW - kW 0.25 - ive mode' 15 W 40 W	Operating limit temperature heating / Average heating / Warmer heating / Colder         Cycling interval efficiency for cooling for heating         Degradation coefficient heating         Annual electricity consumption cooling heating / Average heating / Warmer	COPd Tol Tol Tol Tol COPcyc COPcyc COPcyc	 -15 °C °C °C - °C        -
heating / Average heating / Warmer heating / Colder Cycling interval capacity for cooling for heating Degradation coefficient cooling Electric power input in power modes o off mode standby mode thermostat-off mode	Tbiv Tbiv Pcycc Pcych Cdc Cdc ther than 'act Poff Psb Pto(cooling) Pto(heating)	-10 °C 2 °C - °C - kW - kW 0.25 - ive mode' 15 W 15 W 40 W 50 W	Operating limit temperature heating / Average heating / Warmer heating / Colder         Cycling interval efficiency for cooling for heating         Degradation coefficient heating         Annual electricity consumption cooling heating / Average	COPd Tol Tol Tol EERcyc COPcyc COPcyc	
heating / Average heating / Warmer heating / Colder Cycling interval capacity for cooling for heating Degradation coefficient cooling Electric power input in power modes of off mode standby mode	Tbiv Tbiv Pcycc Pcych Cdc Cdc ther than 'act Poff Psb Pto(cooling)	-10 °C 2 °C - °C - kW - kW - kW 0.25 - ive mode' 15 W 40 W	Operating limit temperature heating / Average heating / Warmer heating / Colder         Cycling interval efficiency for cooling for heating         Degradation coefficient heating         Annual electricity consumption cooling heating / Average heating / Warmer	COPd Tol Tol Tol Tol COPcyc COPcyc COPcyc	 -15 °C °C °C - °C        -
heating / Average heating / Warmer heating / Colder Cycling interval capacity for cooling for heating Degradation coefficient cooling Electric power input in power modes of off mode standby mode thermostat-off mode	Tbiv Tbiv Pcycc Pcych Cdc Cdc ther than 'act Poff Psb Pto(cooling) Pto(heating) Pck	-10 °C 2 °C - °C - kW - kW 0.25 - ive mode' 15 W 15 W 40 W 50 W	Operating limit temperature heating / Average heating / Warmer heating / Colder         Cycling interval efficiency for cooling for heating         Degradation coefficient heating         Annual electricity consumption cooling heating / Average heating / Warmer	COPd Tol Tol Tol Tol COPcyc COPcyc COPcyc	 -15 °C °C °C - °C        -
heating / Average heating / Warmer heating / Colder Cycling interval capacity for cooling for heating Degradation coefficient cooling Electric power input in power modes or off mode standby mode thermostat-off mode crankcase heater mode	Tbiv Tbiv Pcycc Pcych Cdc Cdc ther than 'act Poff Psb Pto(cooling) Pto(heating) Pck	-10 °C 2 °C - °C - kW - kW 0.25 - ive mode' 15 W 15 W 40 W 50 W	Operating limit temperature         heating / Average         heating / Warmer         heating / Colder         Cycling interval efficiency         for cooling         for heating         Degradation coefficient         heating /         Annual electricity consumption         cooling         heating / Average         heating / Other items         Sound power level(indoor)	COPd Tol Tol Tol EERcyc COPcyc Cdh Qhe Qhe Qhe Qhe Qhe	
heating / Average heating / Warmer heating / Colder Cycling interval capacity for cooling for heating Degradation coefficient cooling Electric power input in power modes of off mode standby mode thermostat-off mode crankcase heater mode Capacity control(indicate one of three of	Tbiv Tbiv Pcycc Pcych Cdc Cdc ther than 'act Poff Psb Pto(cooling) Pto(heating) Pck Dptions)	-10 °C 2 °C - °C - kW - kW 0.25 - ive mode' 15 W 15 W 40 W 50 W	Operating limit temperature         heating / Average         heating / Warmer         heating / Colder         Cycling interval efficiency         for cooling         for heating         Degradation coefficient         heating         Annual electricity consumption         cooling         heating / Average         heating / Other         Other items         Sound power level(indoor)         Sound power level(outdoor)	COPd Tol Tol Tol EERcyc COPcyc Cdh Qce Qhe Qhe Qhe Qhe Lwa Lwa	
heating / Average heating / Warmer heating / Colder Cycling interval capacity for cooling for heating Degradation coefficient cooling Electric power input in power modes of off mode standby mode thermostat-off mode crankcase heater mode Capacity control(indicate one of three of fixed	Tbiv Tbiv Pcycc Pcych Cdc Cdc Cdc ther than 'act Poff Psb Pto(cooling) Pto(heating) Pck Dptions)	-10 °C 2 °C - °C - kW - kW 0.25 - ive mode' 15 W 15 W 40 W 50 W	Operating limit temperature         heating / Average         heating / Warmer         heating / Colder         Cycling interval efficiency         for cooling         for heating         Degradation coefficient         heating         Annual electricity consumption         cooling         heating / Average         heating / colder         Other items         Sound power level(indoor)         Sound power level(outdoor)         Global warming potential	COPd Tol Tol Tol EERcyc COPcyc Cdh Qhe Qhe Qhe Qhe Qhe	
heating / Average heating / Warmer heating / Colder Cycling interval capacity for cooling for heating Degradation coefficient cooling Electric power input in power modes of off mode standby mode thermostat-off mode crankcase heater mode Capacity control(indicate one of three of fixed staged	Tbiv Tbiv Pcycc Pcych Cdc ther than 'act Poff Psb Pto(cooling) Pto(heating) Pck options)	-10 °C 2 °C - °C - kW - kW 0.25 - ive mode' 15 W 15 W 40 W 50 W	Operating limit temperature         heating / Average         heating / Colder         Cycling interval efficiency         for cooling         for heating         Degradation coefficient         heating         Annual electricity consumption         cooling         heating / Average         heating / Varmer         heating / colder         Other items         Sound power level(indoor)         Sound power level(outdoor)         Global warming potential         Rated air flow(indoor)	COPd Tol Tol Tol EERcyc COPcyc Cdh Qce Qhe Qhe Qhe Qhe Lwa Lwa	
heating / Average heating / Warmer heating / Colder Cycling interval capacity for cooling for heating Degradation coefficient cooling Electric power input in power modes of off mode standby mode thermostat-off mode crankcase heater mode Capacity control(indicate one of three of fixed	Tbiv Tbiv Pcycc Pcych Cdc Cdc Cdc ther than 'act Poff Psb Pto(cooling) Pto(heating) Pck Dptions)	-10 °C 2 °C - °C - kW - kW 0.25 - ive mode' 15 W 15 W 40 W 50 W	Operating limit temperature         heating / Average         heating / Warmer         heating / Colder         Cycling interval efficiency         for cooling         for heating         Degradation coefficient         heating         Annual electricity consumption         cooling         heating / Average         heating / colder         Other items         Sound power level(indoor)         Sound power level(outdoor)         Global warming potential	COPd Tol Tol Tol EERcyc COPcyc Cdh Qce Qhe Qhe Qhe Qhe Lwa Lwa	
heating / Average heating / Warmer heating / Colder Cycling interval capacity for cooling for heating Degradation coefficient cooling Electric power input in power modes of off mode standby mode thermostat-off mode crankcase heater mode Capacity control(indicate one of three of fixed staged	Tbiv Tbiv Pcycc Pcych Cdc Cdc Ther than 'act Poff Psb Pto(cooling) Pto(heating) Pck Options)	-10 °C 2 °C - °C - kW - kW 0.25 - ive mode' 15 W 40 W 50 W 0 W	Operating limit temperature         heating / Average         heating / Colder         Cycling interval efficiency         for cooling         for heating         Degradation coefficient         heating         Annual electricity consumption         cooling         heating / Average         heating / Varmer         heating / colder         Other items         Sound power level(indoor)         Sound power level(outdoor)         Global warming potential         Rated air flow(indoor)	COPd Tol Tol Tol EERcyc COPcyc Cdh Qhe Qhe Qhe Qhe Qhe Qhe SWP - -	
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## INVERTER MULTI-SPLIT SYSTEM RESIDENTIAL AIR-CONDITIONERS



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