Manual No.'10•SCM-DB-093D

MHI

DRAFT

DATA BOOK

INVERTER MULTI-SPLIT SYSTEM RESIDENTIAL AIR CONDITIONERS

(Split system, air to air heat pump type)

(OUTDOOR UNIT)
SCM40ZJ-S
45ZJ-S
50ZJ-S
71ZJ-S

In this DATA BOOK, the outdoor units only is shown. Please see the '10・SCM-DB-092D concerning the indoor units.

MITSUBISHI HEAVY INDUSTRIES, LTD.

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Wall mounted type (SRK**ZJX-S)	○	○	○	○	○
Wall mounted type (SRK**ZJ-S)	○	○	○	○	
Floor standing type (SRF)		○	○	○	
Ceiling concealed type (SRR)		○	○	○	○
Ceiling cassette-4way compact type (FDTC)		○	○	○	○
Outdoor unit to be combined (FDC)	SCM40ZJ-S,45ZJ-S,50ZJ-S,71ZJ-S				

■How to read the model name

Outdoor unit
Example: SCM 40 Z J-S

- J-S — Series code
- Z — Inveter type
- 40 — Product capacity
- SCM — Model name (Outdoor unit)

1. SPECIFICATIONS

Adapted to **RoHS** directive

Item				Model	SCM40ZJ-S
Cooling capacity (1)				W	4000 (1800 (Min.)～5900 (Max.))
Heating capacity (1)				W	4500 (1400 (Min.)～6900 (Max.))
Power supply					1 Phase, 220～240 V, 50Hz
Operation data (1)	Power consumption		Cooling	kW	0.84 (0.49～1.90)
			Heating		0.90 (0.47～2.30)
	Running current		Cooling	A	3.9 / 3.7 / 3.5 (220/ 230/ 240 V)
			Heating		4.1 / 4.0 / 3.8 (220/ 230/ 240 V)
	Inrush current				4.1 / 4.0 / 3.8 (220/ 230/ 240 V)
	COP		Cooling		4.76
			Heating		5.00
	Noise level	Cooling	Sound level	dB (A)	47
			Power level	dB	60
		Heating	Sound level	dB (A)	48
			Power level	dB	62
Exterior dimensions (Height x Width x Depth)				mm	640 x 850 x 290
Exterior appearance (Munsell color)					Stucco white (4.2Y 7.5/1.1) near equivalent
Net weight				kg	47
Refrigerant equipment	Compressor type & Q'ty				RM-T5113MDE2 (Twin rotary type) x 1
	Motor (Starting method)			kW	1.4 (Line starting)
	Refrigerant oil			ℓ	0.45 (DIAMOND FREEZE MA68)
	Refrigerant (4)			kg	R410A 2 (Pre-Charged up to the piping length of 30m)
	Heat exchanger				M fins & inner grooved tubing
	Refrigerant control				Capillary tubes + Electronic expansion valve
	Device control				Microcomputer control
Air handling equipment	Fan type & Q'ty				Propeller fan x 1
	Motor			W	34
	Air flow		Cooling	CMM	40.0
			Heating		40.0
Shock & vibration absorber					Cushion rubber (for compressor)
Electric heater					Crank case heater (220V 20W)
Safety devices					Compressor overheat protection, Overcurrent protection, Frost protection, Serial signal error protection, Outdoor fan motor error protection, Heating & Cooling overload protection
Installation data	Refrigerant piping size (O.D)			mm	Liquid line: ϕ6.35 (1/4") × 2
					Gas line: ϕ9.52 (3/8") × 2
	Connecting method				Flare connecting
	Insulation for piping				Necessary (Both sides), independent
	Length for one indoor unit			m	Max. 25
	Total length for all rooms				Max. 30
	Vertical height difference between outdoor unit and indoor unit				Max. 15 (Outdoor unit is higher) Max. 15 (Outdoor unit is higher)
	Height difference of the indoor units				Max. 25
Recommended breaker size				A	25
Connection wiring	Size x Core number				1.5mm^2 x 4 cores (Including earth cable)
	Connecting method				Terminal block (Screw fixing type)
Accessories (included)					Installation sheet, Elbow, Grommet
Indoor unit to be combined					SRK20,25,35ZJX-S SRK20,25,35ZJ-S SRF25,35ZJX-S SRR25,35ZJ-S FDTC25,35VD
Number of connectable indoor units					2
Total of indoor units				kW	Max. 6

Note (1) The data are measured at the following conditions. The pipe length for one indoor unit is 7.5m.

Item / Operation	Indoor air temperature		Outdoor air temperature		Standards
	DB	WB	DB	WB	
Cooling	27˚C	19˚C	35˚C	24˚C	ISO-T1, JIS C 9612
Heating	20˚C	—	7˚C	6˚C	

(2) This air-conditioner is manufactured and tested in conformity with the ISO.
(3) The operation data are applied to the 220/230/240V districts respectively.
(4) The refrigerant quantity to be charged includes the refrigerant in 30m connecting piping.
(Purging is not required even for the short piping.)

RWC000Z235Δ D

Adapted to **RoHS** directive

Item				Model	SCM45ZJ-S
Cooling capacity (1)				W	4500 (1800 (Min.)～6400 (Max.))
Heating capacity (1)				W	5600 (1400 (Min.)～7400 (Max.))
Power supply					1 Phase, 220～240 V, 50Hz
Operation data (1)	Power consumption		Cooling	kW	1.04 (0.49～2.14)
			Heating		1.20 (0.47～2.57)
	Running current		Cooling	A	4.8 / 4.6 / 4.4 (220/ 230/ 240 V)
			Heating		5.5 / 5.3 / 5.1 (220/ 230/ 240 V)
	Inrush current				5.5 / 5.3 / 5.1 (220/ 230/ 240 V)
	COP		Cooling		4.33
			Heating		4.67
	Noise level	Cooling	Sound level	dB (A)	47
			Power level	dB	60
		Heating	Sound level	dB (A)	49
			Power level	dB	62
Exterior dimensions (Height x Width x Depth)				mm	640 x 850 x 290
Exterior appearance (Munsell color)					Stucco white (4.2Y 7.5/1.1) near equivalent
Net weight				kg	47
Refrigerant equipment	Compressor type & Q'ty				RM-T5113MDE2 (Twin rotary type) x 1
	Motor (Starting method)			kW	1.4 (Line starting)
	Refrigerant oil			ℓ	0.45 (DIAMOND FREEZE MA68)
	Refrigerant (4)			kg	R410A 2 (Pre-Charged up to the piping length of 30m)
	Heat exchanger				M fins & inner grooved tubing
	Refrigerant control				Capillary tubes + Electronic expansion valve
	Device control				Microcomputer control
Air handling equipment	Fan type & Q'ty				Propeller fan x 1
	Motor			W	34
	Air flow		Cooling	CMM	40.0
			Heating		40.0
Shock & vibration absorber					Cushion rubber (for compressor)
Electric heater					Crank case heater (220V 20W)
Safety devices					Compressor overheat protection, Overcurrent protection, Frost protection, Serial signal error protection, Outdoor fan motor error protection, Heating & Cooling overload protection
Installation data	Refrigerant piping size (O.D)			mm	Liquid line: ϕ6.35 (1/4") × 2
					Gas line: ϕ9.52 (3/8") × 2
	Connecting method				Flare connecting
	Insulation for piping				Necessary (Both sides), independent
	Length for one indoor unit			m	Max. 25
	Total length for all rooms				Max. 30
	Vertical height difference between outdoor unit and indoor unit				Max. 15 (Outdoor unit is higher) Max. 15 (Outdoor unit is lower)
	Height difference of the indoor units				Max. 25
Recommended breaker size				A	25
Connection wiring	Size x Core number				1.5mm^2 x 4 cores (Including earth cable)
	Connecting method				Terminal block (Screw fixing type)
Accessories (included)					Installation sheet, Elbow, Grommet
Indoor unit to be combined					SRK20,25,35ZJX-S SRK20,25,35ZJ-S SRF25,35ZJX-S SRR25,35ZJ-S FDTC25,35VD
Number of connectable indoor units					2
Total of indoor units				kW	Max. 7

Note (1) The data are measured at the following conditions. The pipe length for one indoor unit is 7.5m.

Item / Operation	Indoor air temperature		Outdoor air temperature		Standards
	DB	WB	DB	WB	
Cooling	27˚C	19˚C	35˚C	24˚C	ISO-T1, JIS C 9612
Heating	20˚C	—	7˚C	6˚C	

(2) This air-conditioner is manufactured and tested in conformity with the ISO.
(3) The operation data are applied to the 220/230/240V districts respectively.
(4) The refrigerant quantity to be charged includes the refrigerant in 30m connecting piping.
(Purging is not required even for the short piping.)

RWC000Z235Ⓓ

Adapted to **RoHS** directive

Item				Model	SCM50ZJ-S
Cooling capacity (1)				W	5000 (1800 (Min.)～7100 (Max.))
Heating capacity (1)				W	6000 (1400 (Min.)～7500 (Max.))
Power supply					1 Phase, 220～240 V, 50Hz
Operation data (1)	Power consumption		Cooling	kW	1.08 (0.50～2.15)
			Heating		1.31 (0.48～2.58)
	Running current		Cooling	A	5.0 / 4.7 / 4.5 (220/ 230/ 240 V)
			Heating		6.0 / 5.8 / 5.5 (220/ 230/ 240 V)
	Inrush current				6.0 / 5.8 / 5.5 (220/ 230/ 240 V)
	COP		Cooling		4.63
			Heating		4.58
	Noise level	Cooling	Sound level	dB (A)	49
			Power level	dB	62
		Heating	Sound level	dB (A)	52
			Power level	dB	65
Exterior dimensions (Height x Width x Depth)				mm	640 x 850 x 290
Exterior appearance (Munsell color)					Stucco white (4.2Y 7.5/1.1) near equivalent
Net weight				kg	48
Refrigerant equipment	Compressor type & Q'ty				RM-T5113MDE2 (Twin rotary type) x 1
	Motor (Starting method)			kW	1.4 (Line starting)
	Refrigerant oil			ℓ	0.45 (DIAMOND FREEZE MA68)
	Refrigerant (4)			kg	R410A 2.5 (Pre-Charged up to the piping length of 40m)
	Heat exchanger				M fins & inner grooved tubing
	Refrigerant control				Capillary tubes + Electronic expansion valve
	Device control				Microcomputer control
Air handling equipment	Fan type & Q'ty				Propeller fan x 1
	Motor			W	34
	Air flow		Cooling	CMM	41.0
			Heating		41.0
Shock & vibration absorber					Cushion rubber (for compressor)
Electric heater					Crank case heater (220V 20W)
Safety devices					Compressor overheat protection, Overcurrent protection, Frost protection, Serial signal error protection, Outdoor fan motor error protection, Heating & Cooling overload protection
Installation data	Refrigerant piping size (O.D)			mm	Liquid line: ϕ6.35 (1/4") × 3
					Gas line: ϕ9.52 (3/8") × 3
	Connecting method				Flare connecting
	Insulation for piping				Necessary (Both sides), independent
	Length for one indoor unit			m	Max. 25
	Total length for all rooms				Max. 40
	Vertical height difference between outdoor unit and indoor unit				Max. 15 (Outdoor unit is higher) Max. 15 (Outdoor unit is lower)
	Height difference of the indoor units				Max. 25
Recommended breaker size				A	25
Connection wiring	Size x Core number				1.5mm^2 x 4 cores (Including earth cable)
	Connecting method				Terminal block (Screw fixing type)
Accessories (included)					Union : (ϕ9.52→ϕ12.7) × 1, Installation sheet, Elbow, Grommet
Indoor unit to be combined					SRK20,25,35,50ZJX-S SRK20,25,35,50ZJ-S SRF25,35,50ZJX-S SRR25,35,50ZJ-S FDTC25,35,50VD
Number of connectable indoor units					Min. 2～Max. 3
Total of indoor units				kW	Max. 8.5

Note (1) The data are measured at the following conditions. The pipe length for one indoor unit is 7.5m.

Item / Operation	Indoor air temperature		Outdoor air temperature		Standards
	DB	WB	DB	WB	
Cooling	27˚C	19˚C	35˚C	24˚C	ISO-T1, JIS C 9612
Heating	20˚C	—	7˚C	6˚C	

(2) This air-conditioner is manufactured and tested in conformity with the ISO.
(3) The operation data are applied to the 220/230/240V districts respectively.
(4) The refrigerant quantity to be charged includes the refrigerant in 40m connecting piping.
(Purging is not required even for the short piping.)

RWC000Z235D

Adapted to **RoHS** directive

Item				Model	SCM71ZJ-S
Cooling capacity (1)				W	7100 (1800 (Min.)～8800 (Max.))
Heating capacity (1)				W	8600 (1500 (Min.)～9400 (Max.))
Power supply					1 Phase, 220～240 V, 50Hz
Operation data (1)	Power consumption		Cooling	kW	1.74 (0.48～2.75)
			Heating		2.00 (0.60～3.35)
	Running current		Cooling	A	8.0 / 7.6 / 7.3 (220/ 230/ 240 V)
			Heating		9.2 / 8.8 / 8.4 (220/ 230/ 240 V)
	Inrush current				9.2 / 8.8 / 8.4 (220/ 230/ 240 V)
	COP		Cooling		4.08
			Heating		4.30
	Noise level	Cooling	Sound level	dB (A)	52
			Power level	dB	65
		Heating	Sound level	dB (A)	54
			Power level	dB	66
Exterior dimensions (Height x Width x Depth)				mm	750 x 880 x 340
Exterior appearance (Munsell color)					Stucco white (4.2Y 7.5/1.1) near equivalent
Net weight				kg	62
Refrigerant equipment	Compressor type & Q'ty				RM-T5118MDE2 (Twin rotary type) x 1
	Motor (Starting method)			kW	1.4 (Line starting)
	Refrigerant oil			ℓ	0.675 (DIAMOND FREEZE MA68)
	Refrigerant (4)			kg	R410A 3.15 (Pre-Charged up to the piping length of 40m)
	Heat exchanger				M fins & inner grooved tubing
	Refrigerant control				Capillary tubes + Electronic expansion valve
	Device control				Microcomputer control
Air handling equipment	Fan type & Q'ty				Propeller fan x 1
	Motor			W	86
	Air flow		Cooling	CMM	56.0
			Heating		56.0
Shock & vibration absorber					Cushion rubber (for compressor)
Electric heater					Crank case heater (220V 20W)
Safety devices					Compressor overheat protection, Overcurrent protection, Frost protection, Serial signal error protection, Outdoor fan motor error protection, Heating & Cooling overload protection
Installation data	Refrigerant piping size (O.D)			mm	Liquid line: ϕ6.35 (1/4") × 4
					Gas line: ϕ9.52 (3/8") × 4
	Connecting method				Flare connecting
	Insulation for piping				Necessary (Both sides), independent
	Length for one indoor unit			m	Max. 25
	Total length for all rooms				Max. 70
	Vertical height difference between outdoor unit and indoor unit				Max. 20 (Outdoor unit is higher) Max. 20 (Outdoor unit is lower)
	Height difference of the indoor units				Max. 25
Recommended breaker size				A	25
Connection wiring	Size x Core number				1.5mm^2 x 4 cores (Including earth cable)
	Connecting method				Terminal block (Screw fixing type)
Accessories (included)					Union : (ϕ9.52→ϕ12.7) × 2, Installation sheet, Elbow, Grommet × 2
Indoor unit to be combined					SRK20,25,35,50,60ZJX-S SRK20,25,35,50ZJ-S SRF25,35,50ZJX-S SRR25,35,50,60ZJ-S FDTC25,35,50,60VD
Number of connectable indoor units					Min. 2～Max. 4
Total of indoor units				kW	Max. 12.5

Note (1) The data are measured at the following conditions. The pipe length for one indoor unit is 7.5m.

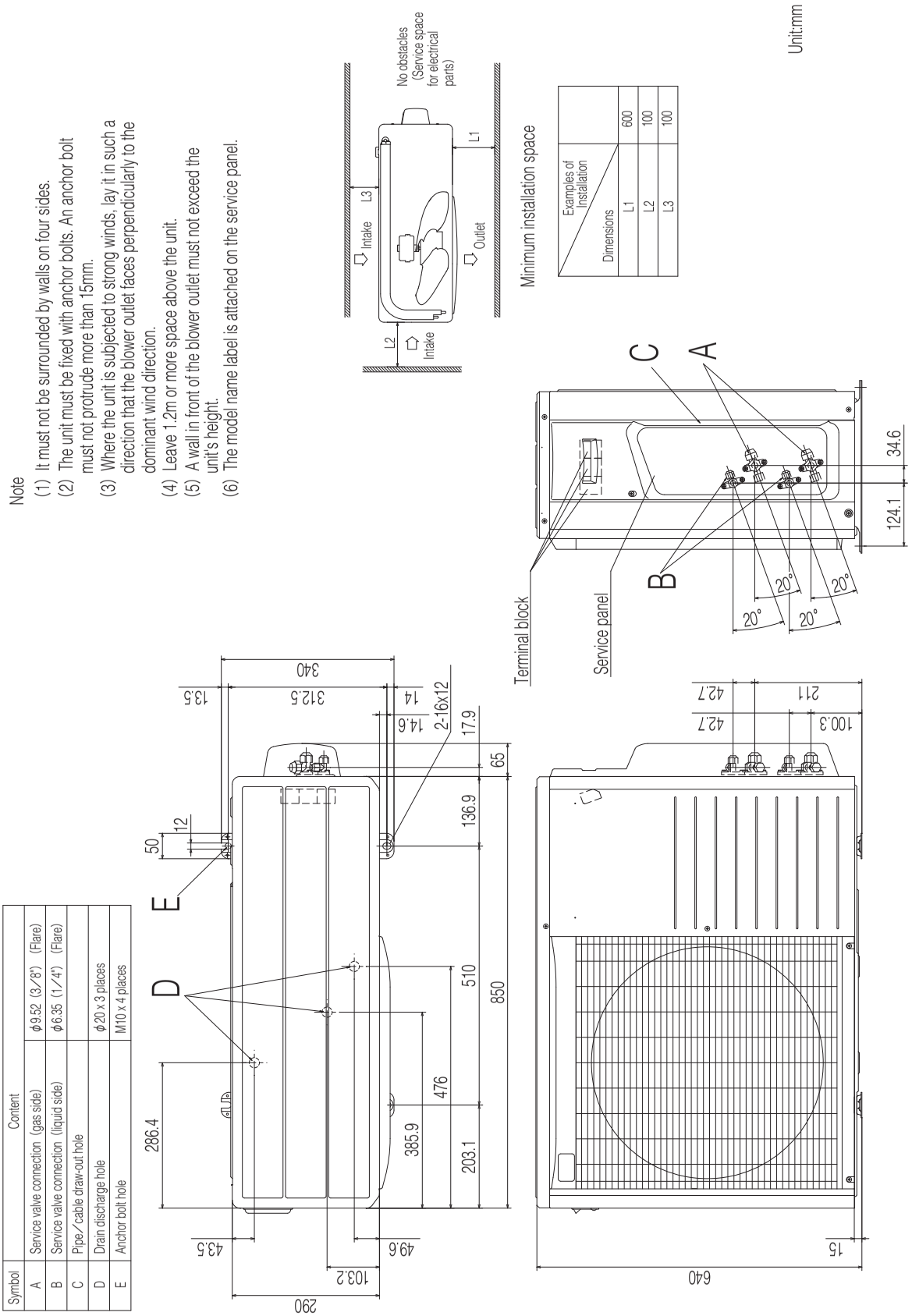
Item / Operation	Indoor air temperature		Outdoor air temperature		Standards
	DB	WB	DB	WB	
Cooling	27˚C	19˚C	35˚C	24˚C	ISO-T1, JIS C 9612
Heating	20˚C	—	7˚C	6˚C	

(2) This air-conditioner is manufactured and tested in conformity with the ISO.
(3) The operation data are applied to the 220/230/240V districts respectively.
(4) The refrigerant quantity to be charged includes the refrigerant in 40m connecting piping.
(Purging is not required even for the short piping.)

RWC000Z235D

2. EXTERIOR DIMENSIONS

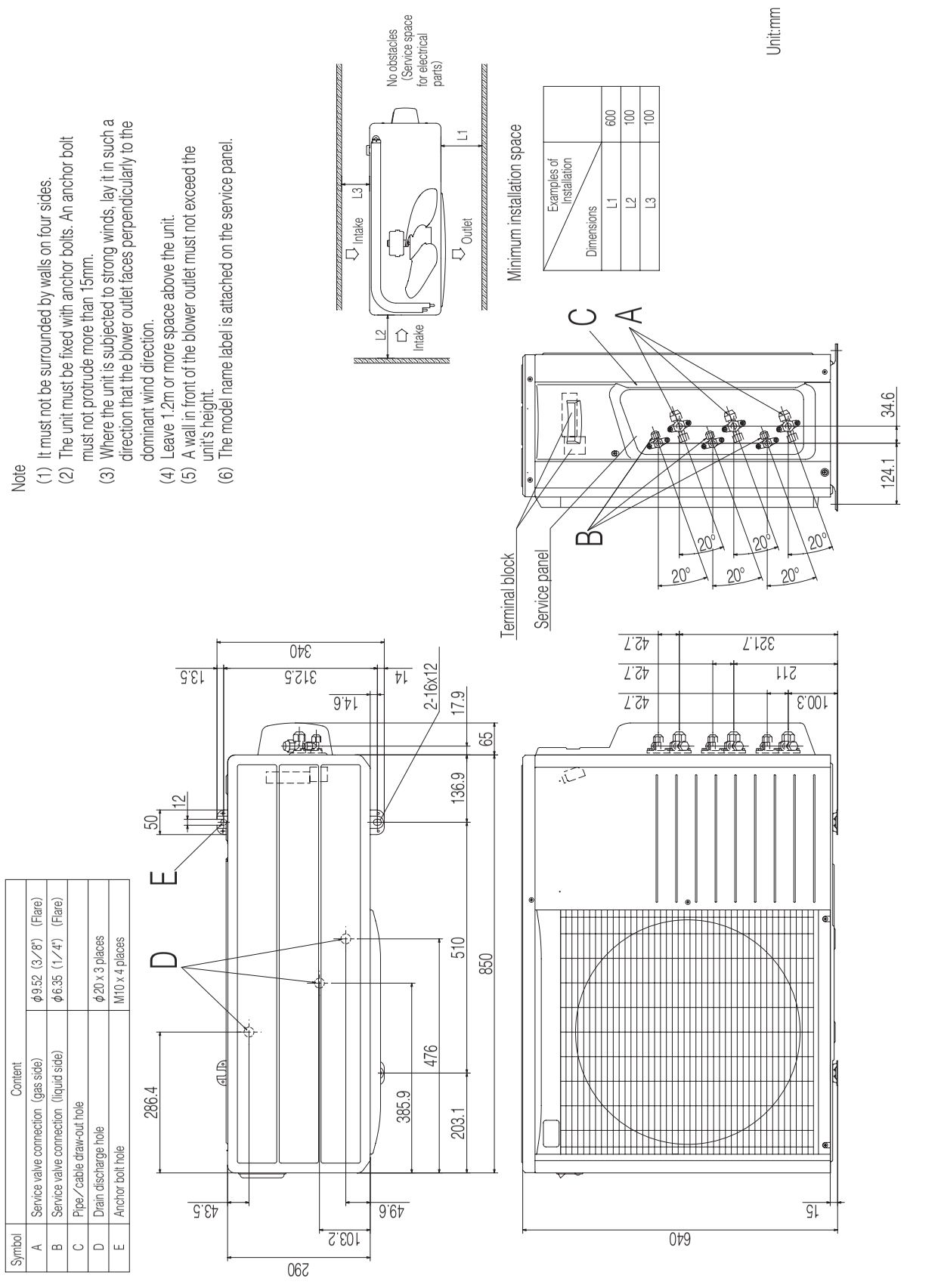
Models SCM40ZJ-S, 45ZJ-S



Symbol	Content	
A	Service valve connection (gas side)	ϕ9.52 (3/8") (Flare)
B	Service valve connection (liquid side)	ϕ6.35 (1/4") (Flare)
C	Pipe/cable draw-out hole	
D	Drain discharge hole	ϕ20 x 3 places
E	Anchor bolt hole	M10 x 4 places

RWC000Z231

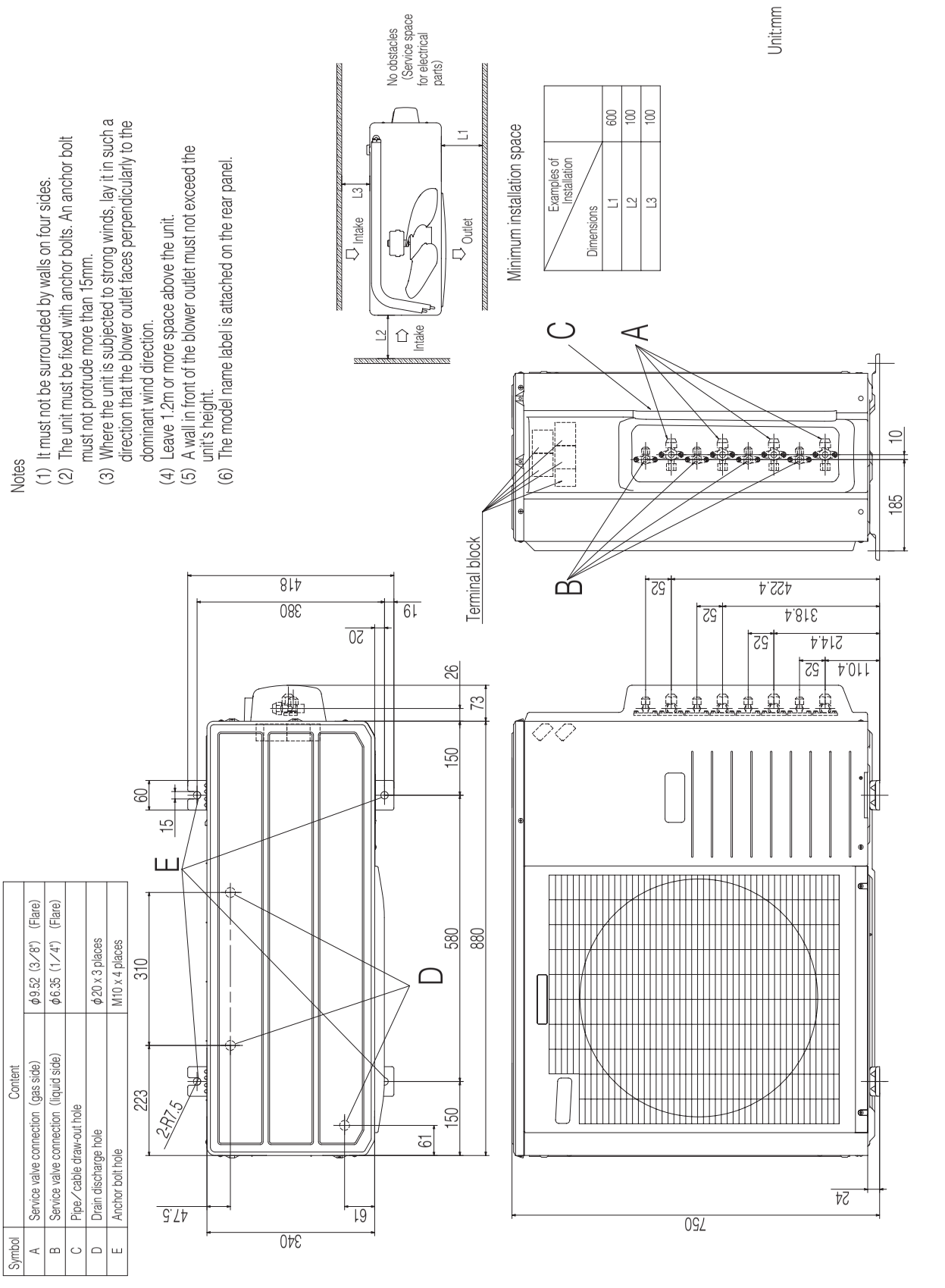
Model SCM50ZJ-S



Symbol	Content	
A	Service valve connection (gas side)	ϕ9.52 (3/8") (Flare)
B	Service valve connection (liquid side)	ϕ6.35 (1/4") (Flare)
C	Pipe/cable draw-out hole	
D	Drain discharge hole	ϕ20 x 3 places
E	Anchor bolt hole	M10 x 4 places

RWC000Z233

Model SCM71ZJ-S



Symbol	Content	
A	Service valve connection (gas side)	ϕ9.52 (3/8") (Flare)
B	Service valve connection (liquid side)	ϕ6.35 (1/4") (Flare)
C	Pipe/cable draw-out hole	ϕ20 x 3 places
D	Drain discharge hole	M10 x 4 places
E	Anchor bolt hole	

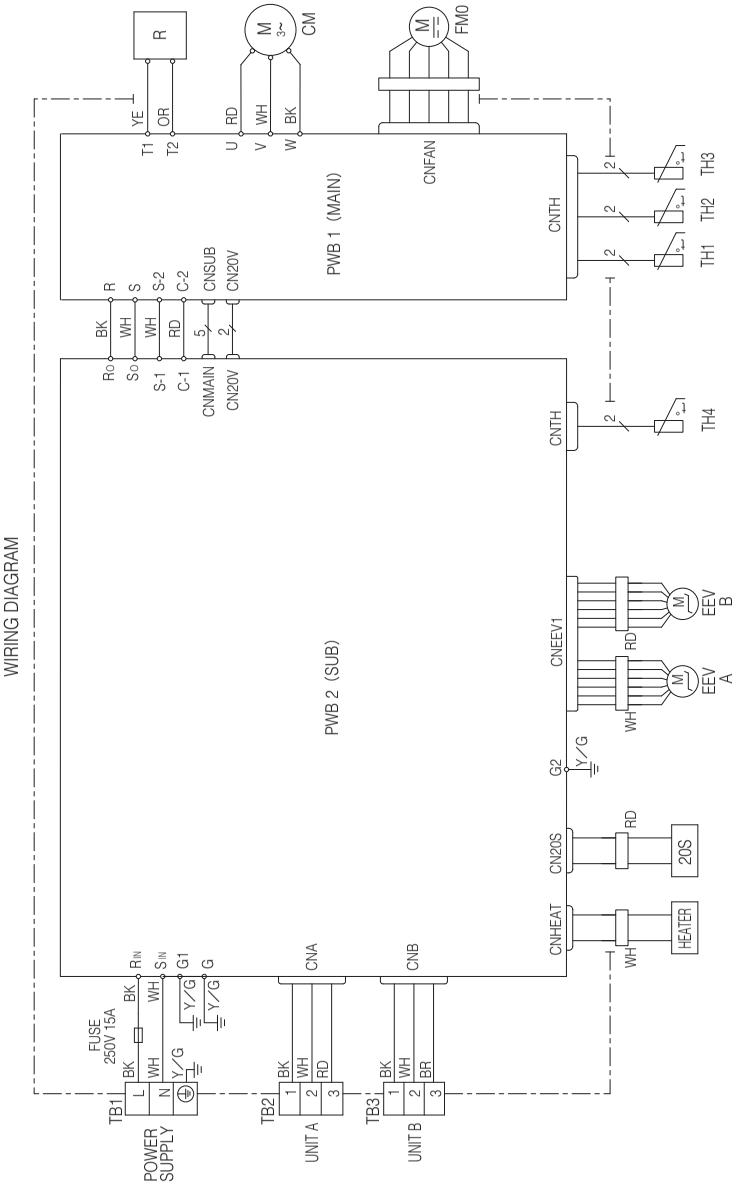
RWC000Z229

3. ELECTRICAL WIRINGS

Models SCM40ZJ-S, 45ZJ-S

Indication lamp	Color	Function
Led e (1)	Red	Warning lamp
Self diagnosis function by led e		
1 Time flash	Current cut	
2 Time flash	Trouble of outdoor unit	
3 Time flash	Over current	
4 Time flash	Transmission error	
5 Time flash	Over heat of compressor	
6 Time flash	Error of signal transmission	
7 Time flash	Lock of compressor	
8 Time flash	Sensor error (Except discharge pipe sensor)	
Light on	Outdoor fan motor error	
Four sec light and four sec off	Discharge pipe sensor error	
Caution • When the compressor does not run Immediately after hitting on the button,wait for 5 to 10 minutes. (There is possibility of delayed start.) • High voltage is produced in the control box. don't touch electrical parts in the control box for 5 minutes after cutting power supply.		

WIRING DIAGRAM



Meaning of Marks

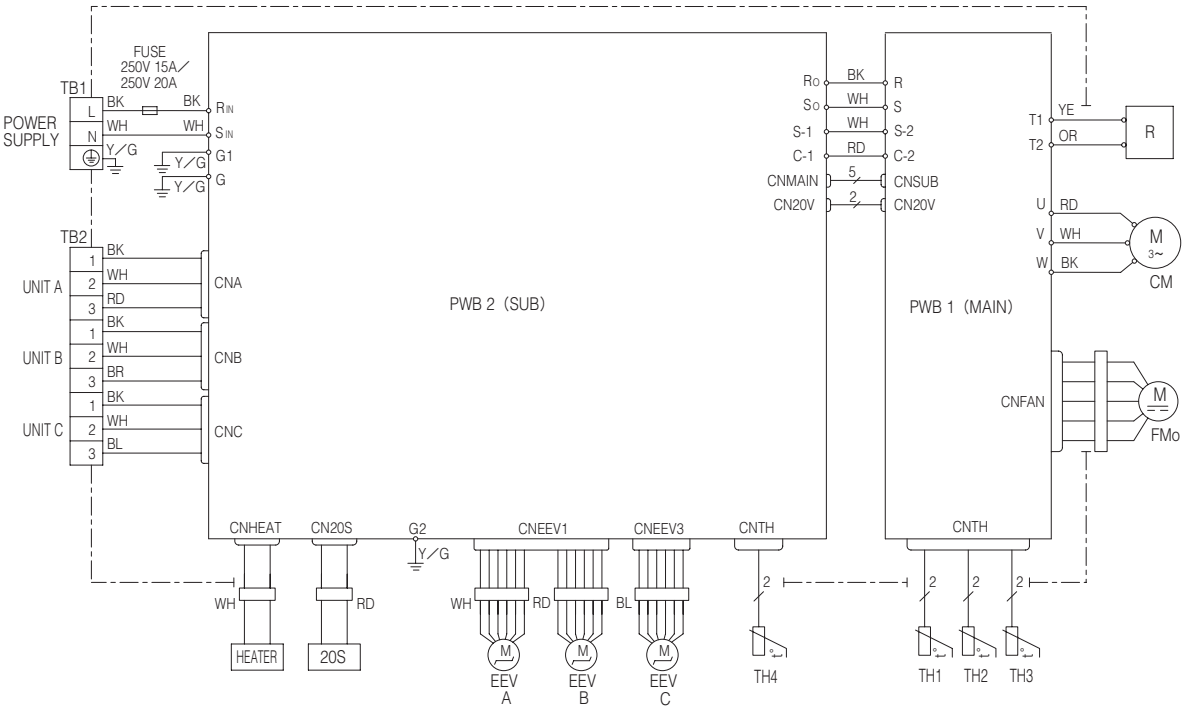
Item	Description	Item	Description
CNA-CN20S	Connector	R	Reactor
20S	4 Way valve (coil)	TB1-TB3	Terminal block
CM	Compressor motor	Th1	Heat exchanger sensor (outdoor unit)
EEV A,EEV B	Electric expansion valve (coil)	Th2	Outdoor air temp. sensor
FMo	Fan motor	Th3	Discharge pipe temp. sensor
HEATER	Crank case heater	Th4	Suction pipe temp. sensor

Color Marks

Mark	Color	Mark	Color
BK	Black	YE	Yellow
RD	Red	Y/G	Yellow/Green
WH	White		
OR	Orange		
BR	Brown		

RWC000Z232

WIRING DIAGRAM



Indication lamp	Color	Function
Led e (1)	Red	Warning lamp
Self diagnosis function by led e		
1 Time flash	Current cut	
2 Time flash	Trouble of outdoor unit	
3 Time flash	Over current	
4 Time flash	Transmission error	
5 Time flash	Over heat of compressor	
6 Time flash	Error of signal transmission	
7 Time flash	Lock of compressor	
8 Time flash	Sensor error (Except discharge pipe sensor)	
Light on	Outdoor fan motor error	
Four sec light and four sec off	Discharge pipe sensor error	

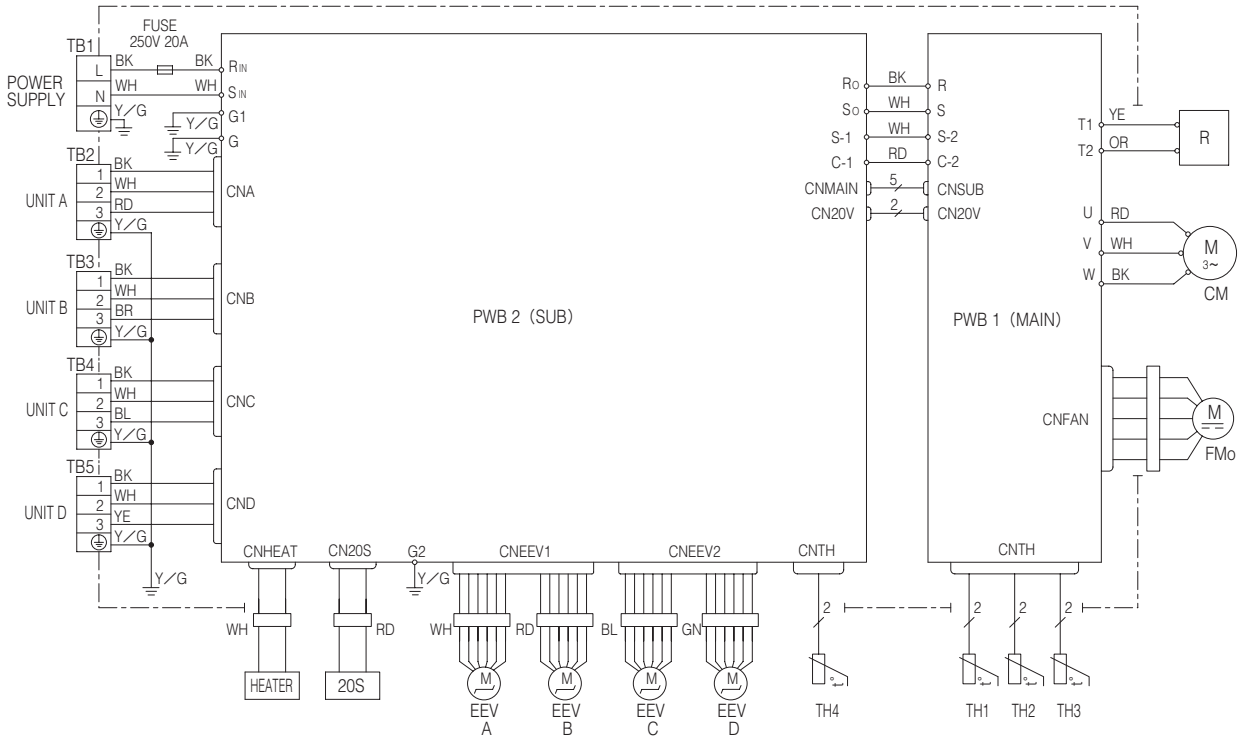
Caution
- When the compressor does not run Immediately after hitting on the button,wait for 5 to 10 minutes. (There is possibility of delayed start.)
- High voltage is produced in the control box. don't touch electrical parts in the control box for 5 minutes after cutting power supply.

Color Marks

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

Meaning of Marks

Item	Description	Item	Description
CNA-CN20S	Connector	R	Reactor
20S	4 Way valve (coil)	TB1,TB2	Terminal block
CM	Compressor motor	Th1	Heat exchanger sensor (outdoor unit)
EEV A,EEV B EEV C	Electric expansion valve (coil)	Th2	Outdoor air temp. sensor
FMo	Fan motor	Th3	Discharge pipe temp. sensor
HEATER	Crank case heater	Th4	Suction pipe temp. sensor



Indication lamp	Color	Function
Led e (1)	Red	Warning lamp
Self diagnosis function by led e		
1 Time flash	Current cut	
2 Time flash	Trouble of outdoor unit	
3 Time flash	Over current	
4 Time flash	Transmission error	
5 Time flash	Over heat of compressor	
6 Time flash	Error of signal transmission	
7 Time flash	Lock of compressor	
8 Time flash	Sensor error (Except discharge pipe sensor)	
Light on	Outdoor fan motor error	
Four sec light and four sec off	Discharge pipe sensor error	

Caution ・When the compressor does not run Immediately after hitting on the button,wait for 5 to 10 minutes. (There is possibility of delayed start.)

・High voltage is produced in the control box. don't touch electrical parts in the control box for 5 minutes after cutting power supply.

Color Marks

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

Meaning of Marks

Item	Description	Item	Description
CNA-CN20S	Connector	R	Reactor
20S	4 Way valve (coil)	TB1~5	Terminal block
CM	Compressor motor	Th1	Heat exchanger sensor (outdoor unit)
EEV A,EEV B EEV C,EEV D	Electric expansion valve (coil)	Th2	Outdoor air temp. sensor
FMo	Fan motor	Th3	Discharge pipe temp. sensor
HEATER	Crank case heater	Th4	Suction pipe temp. sensor

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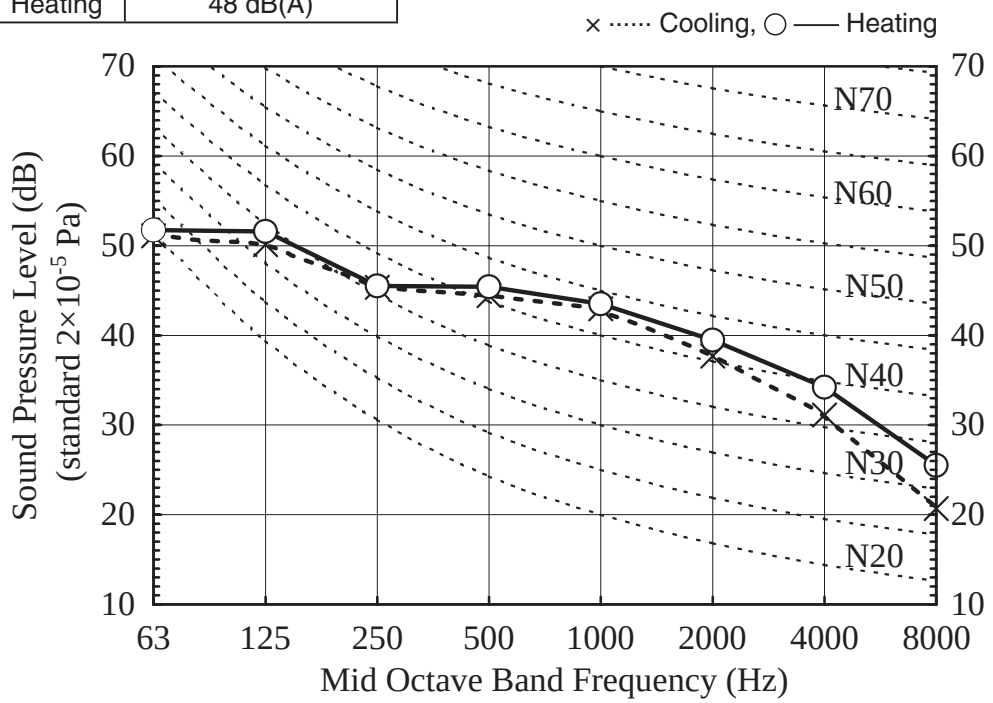
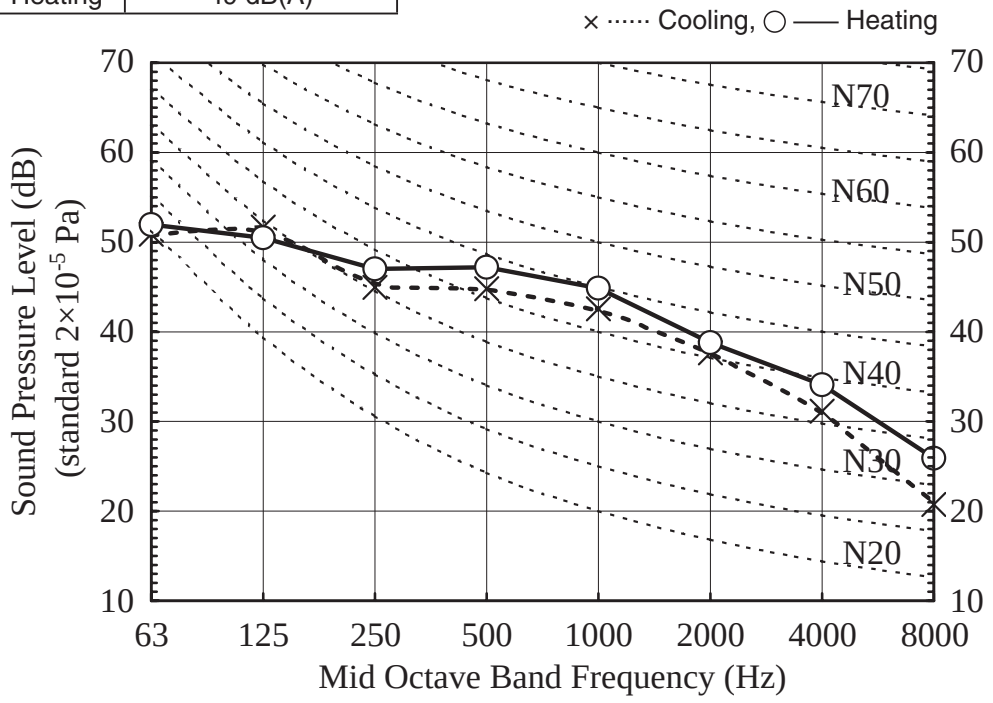
4. NOISE LEVELS

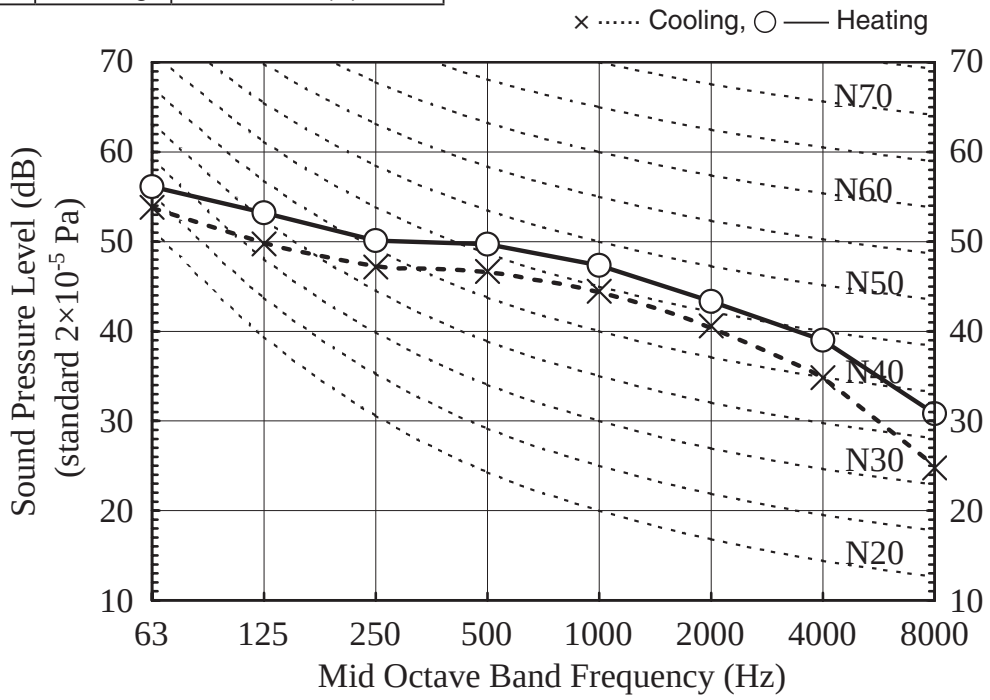
Model	SCM40ZJ-S	
Noise Level	Cooling	47 dB(A)
	Heating	48 dB(A)



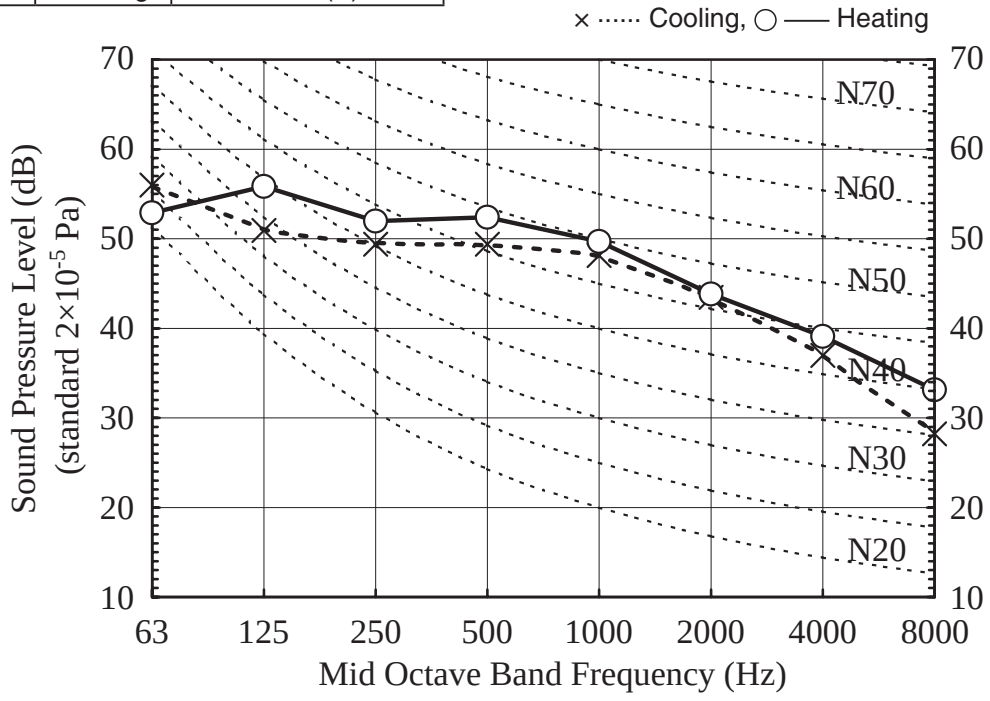
Model	SCM45ZJ-S	
Noise Level	Cooling	47 dB(A)
	Heating	49 dB(A)



Model	SCM50ZJ-S	
Noise Level	Cooling	49 dB(A)
	Heating	52 dB(A)

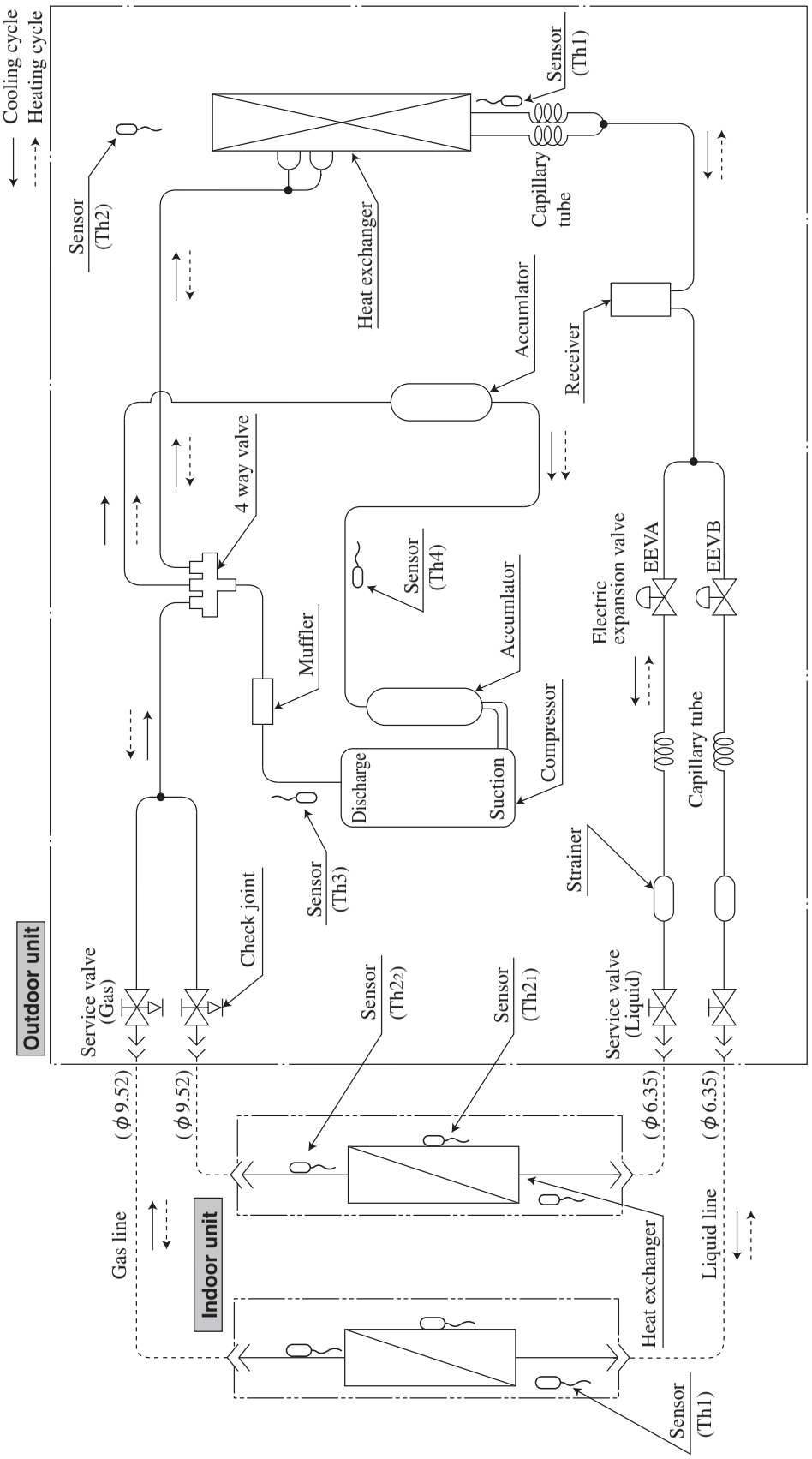


Model	SCM71ZJ-S	
Noise Level	Cooling	52 dB(A)
	Heating	54 dB(A)

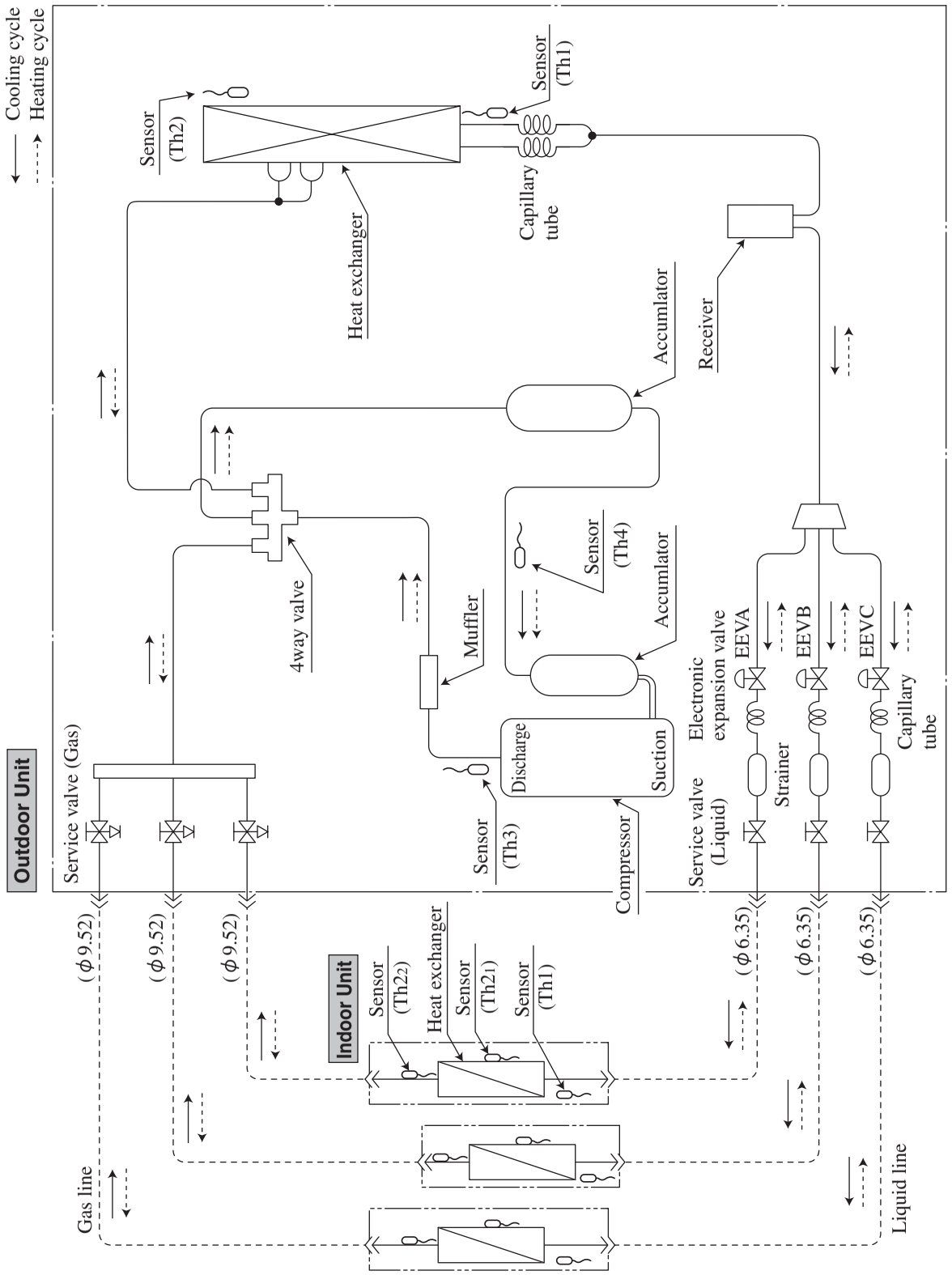


5. PIPING SYSTEMS

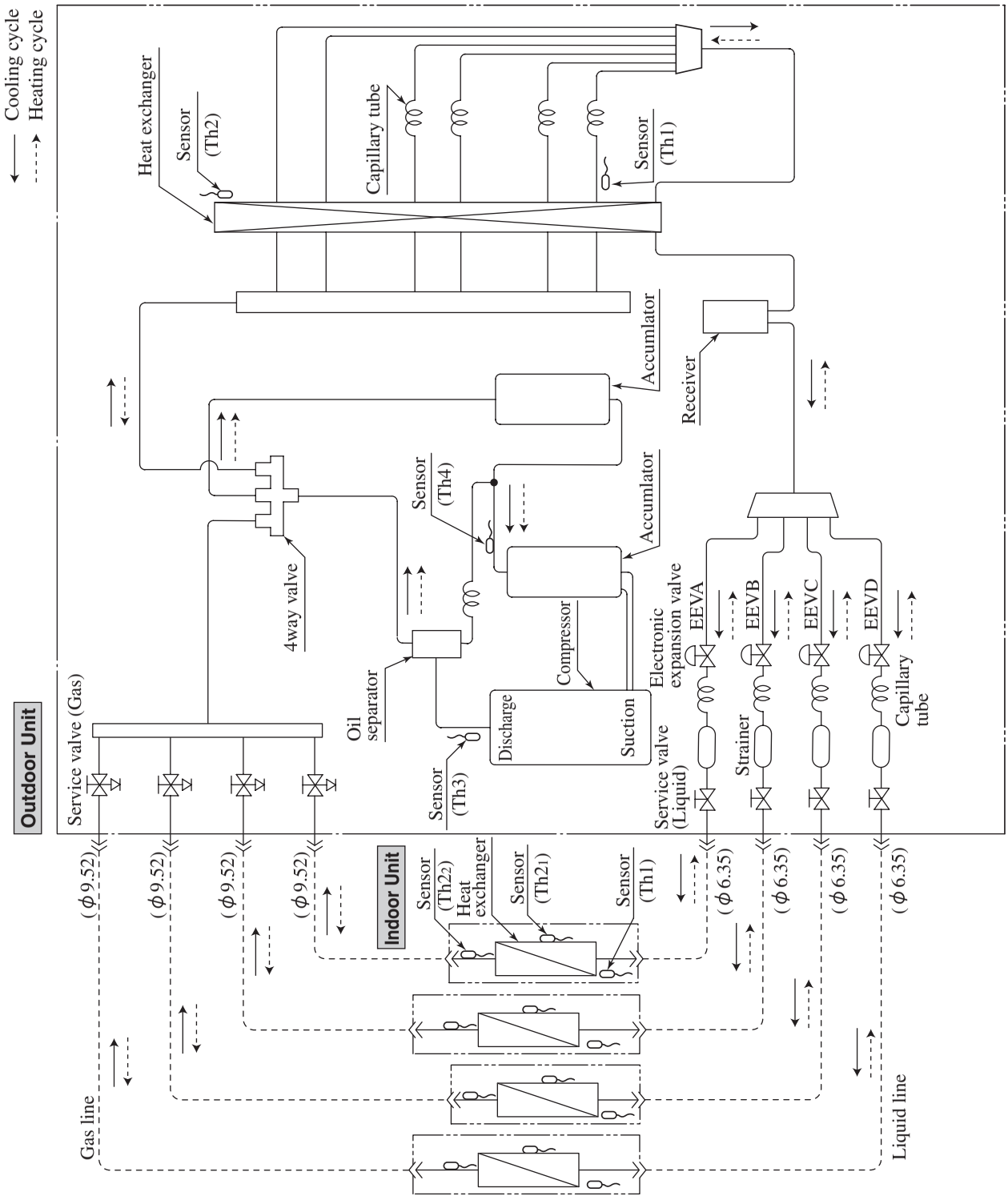
Models SCM40ZJ-S, 45ZJ-S



Model SCM50ZJ-S



Model SCM71ZJ-S



6. APPLICATION DATAS

(1) Models SCM40ZJ-S, 45ZJ-S

RPC012A915

MULTI TYPE AIR CONDITIONER
R410A REFRIGERANT USED

• This installation manual deals with outdoor units and general installation specifications only. For indoor units, refer to the respective installation manuals supplied with the units.
• When install the unit, be sure to check whether the selection of installation place, power supply specifications, usage limitation (piping length, height differences between indoor and outdoor units, power supply voltage and etc.) and installation spaces.

SAFETY PRECAUTIONS

- We recommend you to read this "SAFETY PRECAUTIONS" carefully before the installation work in order to gain full advantage of the functions of the unit and to avoid malfunction due to mishandling.
- The precautions described below are divided into ⚠ **WARNING** and ⚠ **CAUTION**. The matters with possibilities leading to serious consequences such as death or serious personal injury due to erroneous handling are listed in the ⚠ **WARNING** and the matters with possibilities leading to personal injury or damage of the unit due to erroneous handling including probability leading to serious consequences in some cases are listed in ⚠ **CAUTION**. These are very important precautions for safety. Be sure to observe all of them without fail.
- Be sure to confirm no anomaly on the equipment by commissioning after completed installation and explain the operating methods as well as the maintenance methods of this equipment to the user according to the owner's manual.
- Keep the installation manual together with owner's manual at a place where any user can read at any time. Moreover if necessary, ask to hand them to a new user.
- For installing qualified personnel, take precautions in respect to themselves by using suitable protective clothing, groves, etc., and then perform the installation works.
- Please pay attention not to fall down the tools, etc. when installing the unit at the high position.
- If unusual noise can be heard during operation, consult the dealer.
- Symbols which appear frequently in the text have the following meaning:

❗	Observe instructions with great care	⃠	Strictly prohibited	⏚	Provide proper earthing

⚠ WARNING

❗
- **Installation must be carried out by the qualified installer.**
  If you install the system by yourself, it may cause serious trouble such as water leaks, electric shocks, fire and personal injury, as a result of a system malfunction.
- **Install the system in full accordance with the instruction manual.**
  Incorrect installation may cause bursts, personal injury, water leaks, electric shocks and fire.
- **Be sure to use only for household and residence.**
  If this appliance is installed in inferior environment such as machine shop and etc., it can cause malfunction.
- **Use the original accessories and the specified components for installation.**
  If parts other than those prescribed by us are used, It may cause water leaks, electric shocks, fire and personal injury.
- **Install the unit in a location with good support.**
  Unsuitable installation locations can cause the unit to fall and cause material damage and personal injury.
- **Ensure the unit is stable when installed, so that it can withstand earthquakes and strong winds.**
  Unsuitable installation locations can cause the unit to fall and cause material damage and personal injury.
- **Ventilate the working area well in the event of refrigerant leakage during installation.**
  If the refrigerant comes into contact with naked flames, poisonous gas is produced.
- **Use the prescribed pipes, flare nuts and tools for R410A.**
  Using existing parts (for R22 or R407C) can cause the unit failure and serious accidents due to burst of the refrigerant circuit.
- **Tighten the flare nut by torque wrench with specified method.**
  If the flare nut were tightened with excess torque, this may cause burst and refrigerant leakage after a long period.
- **Do not open the operation valves for liquid line and gas line until completed refrigerant piping work, air tightness test and evacuation.**
  If the compressor is operated in state of opening operation valves before completed connection of refrigerant piping work, air can be sucked into refrigerant circuit, which can cause bust or personal injury due to anomalously high pressure in the refrigerant.
- **The electrical installation must be carried out by the qualified electrician in accordance with "the norm for electrical work" and "national wiring regulation", and the system must be connected to the dedicated circuit.**
  Power supply with insufficient capacity and incorrect function done by improper work can cause electric shocks and fire.
- **Be sure to shut off the power before starting electrical work.**
  Failure to shut off the power can cause electric shocks, unit failure or incorrect function of equipment.
- **Be sure to use the cables conformed to safety standard and cable ampacity for power distribution work.**
  Unconformable cables can cause electric leak, anomalous heat production or fire.
- **This appliance must be connected to main power supply by means of a circuit breaker or switch (fuse:16A) with a contact separation of at least 3mm.**
- **Use the prescribed cables for electrical connection, tighten the cables securely in terminal block and relieve the cables correctly to prevent overloading the terminal blocks.**
  Loose connections or cable mountings can cause anomalous heat production or fire.
- **Arrange the wiring in the control box so that it cannot be pushed up further into the box. Install the service panel correctly.**
  Incorrect installation may result in overheating and fire.
- **Be sure to fix up the service panels.**
  Incorrect fixing can cause electric shocks or fire due to intrusion of dust or water.
- **Be sure to switch off the power supply in the event of installation, inspection or servicing.**
  If the power supply is not shut off, there is a risk of electric shocks, unit failure or personal injury due to the unexpected start of fan.
- **Stop the compressor before disconnecting refrigerant pipes in case of pump down operation.**
  If disconnecting refrigerant pipes in state of opening operation valves before compressor stopping, air can be sucked, which can cause burst or personal injury due to anomalously high pressure in the refrigerant circuit
- **Only use prescribed optional parts. The installation must be carried out by the qualified installer.**
  If you install the system by yourself, it can cause serious trouble such as water leaks, electric shocks, fire.

⃠
- **Ensure that no air enters in the refrigerant circuit when the unit is installed and removed.**
  If air enters in the refrigerant circuit, the pressure in the refrigerant circuit becomes too high, which can cause burst and personal injury.
- **Do not processing, splice the power cord, or share a socket with other power plugs.**
  This may cause fire or electric shock due to defecting contact, defecting insulation and over-current etc.
- **Do not bundling, winding or processing for the power cord. Or, do not deforming the power plug due to tread it.**
  This may cause fire or heating.
- **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 shocks.
- **Do not perform any change of protective device itself or its setup condition.**
  The forced operation by short-circuiting protective device of pressure switch and temperature controller or the use of non specified component can cause fire or burst.

⏚
- **Carry out the electrical work for ground lead with care.**
  Do not connect the ground lead to the gas line, water line, lightning conductor or telephone line's ground lead. Incorrect grounding can cause unit faults such as electric shocks due to short-circuiting.

⚠ CAUTION

❗
- **Use the circuit breaker with sufficient breaking capacity.**
  If the breaker does not have sufficient breaking capacity, it can cause the unit malfunction and fire.
- **Earth leakage breaker must be installed.**
  If the earth leakage breaker is not installed, it can cause electric shocks.
- **Install isolator or disconnect switch on the power supply wiring in accordance with the local codes and regulations.**
- **After maintenance, all wiring, wiring ties and the like, should be returned to their original state and wiring route, and the necessary clearance from all metal parts should be secured.**
- **Secure a space for installation, inspection and maintenance specified in the manual.**
  Insufficient space can result in accident such as personal injury due to falling from the installation place.
- **Take care when carrying the unit by hand.**
  If the unit weights more than 20kg, it must be carried by two or more persons. Do not carry by the plastic straps, always use the carry handle when carrying the unit by hand. Use gloves to minimize the risk of cuts by the aluminum fins.
- **Dispose of any packing materials correctly.**
  Any remaining packing materials can cause personal injury as it contains nails and wood. And to avoid danger of suffocation, be sure to keep the plastic wrapper away from children and to dispose after tear it up.
- **Be sure to insulate the refrigerant pipes so as not to condense the ambient air moisture on them.**
  Insufficient insulation can cause condensation, which can lead to moisture damage on the ceiling, floor, furniture and any other valuables.
- **When perform the air conditioner operation (cooling or drying operation) in which ventilator is installed in the room. In this case, using the air conditioner in parallel with the ventilator, there is the possibility that drain water may backflow in accordance with the room lapse into the negative pressure status. Therefore, set up the opening port such as incorporate the air into the room that may appropriate to ventilation (For example; Open the door a little). In addition, just as above, so set up the opening port if the room lapse into negative pressure status due to register of the wind for the high rise apartment etc.**

⃠
- **Do not install the unit in the locations listed below.**
  - Locations where carbon fiber, metal powder or any powder is floating.
  - Locations where any substances that can affect the unit such as sulphide gas, chloride gas, acid and alkaline can occur.
  - Vehicles and ships.
  - Locations where cosmetic or special sprays are often used.
  - Locations with direct exposure of oil mist and steam such as kitchen and machine plant.
  - Locations where any machines which generate high frequency harmonics are used.
  - Locations with salty atmospheres such as coastlines.
  - Locations with heavy snow (If installed, be sure to provide base flame and snow hood mentioned in the manual).
  - Locations where the unit is exposed to chimney smoke.
  - Locations at high altitude (more than 1000m high).
  - Locations with ammonic atmospheres.
  - Locations where heat radiation from other heat source can affect the unit.
  - Locations without good air circulation.
  - Locations with any obstacles which can prevent inlet and outlet air of the unit.
  - Locations where short circuit of air can occur (in case of multiple units installation).
  - Locations where strong air blows against the air outlet of outdoor unit.

  It can cause remarkable decrease in performance, corrosion and damage of components, malfunction and fire.
- **Do not install the outdoor unit in the locations listed below.**
  - Locations where discharged hot air or operating sound of the outdoor unit can bother neighborhood.
  - Locations where outlet air of the outdoor unit blows directly to plants.
  - Locations where vibration can be amplified and transmitted due to insufficient strength of structure.
  - Locations where vibration and operation sound generated by the outdoor unit can affect seriously (on the wall or at the place near bed room).
  - Locations where an equipment affected by high harmonics is placed (TV set or radio receiver is placed within 1m).
  - Locations where drainage cannot run off safely.

  It can affect surrounding environment and cause a claim.

⚠ CAUTION

- **Do not install the unit near the location where leakage of combustible gases can occur.**
  If leaked gases accumulate around the unit, it can cause fire.
- **Do not install the unit where corrosive gas (such as sulfurous acid gas etc.) or combustible gas (such as thinner and petroleum gases) can accumulate or collect, or where volatile combustible substances are handled.**
  Corrosive gas can cause corrosion of heat exchanger, breakage of plastic parts and etc. And combustible gas can cause fire.
- **Do not install nor use the system close to the equipment that generates electromagnetic fields or high frequency harmonics.**
  Equipment such as inverters, standby generators, medical high frequency equipments and telecommunication equipments can affect the system, and cause malfunctions and breakdowns. The system can also affect medical equipment and telecommunication equipment, and obstruct its function or cause jamming.
- **Do not install the outdoor unit in a location where insects and small animals can inhabit.**
  Insects and small animals can enter the electric parts and cause damage or fire. Instruct the user to keep the surroundings clean.
- **Do not use the base flame for outdoor unit which is corroded or damaged due to long periods of operation.**
  Using an old and damage base flame can cause the unit falling down and cause personal injury.
- **Do not use any materials other than a fuse with the correct rating in the location where fuses are to be used.**
  Connecting the circuit with copper wire or other metal thread can cause unit failure and fire.
- **Do not touch any buttons with wet hands.**
  It can cause electric shocks.
- **Do not touch any refrigerant pipes with your hands when the system is in operation.**
  During operation the refrigerant pipes become extremely hot or extremely cold depending the operating condition, and it can cause burn injury or frost injury.
- **Do not touch the suction or aluminum fin on the outdoor unit.**
  This may cause injury.
- **Do not put anything on the outdoor unit and operating unit.**
  This may cause damage the objects or injury due to falling to the object.

Check before installation work

- Model name and power source
- Refrigerant piping length
- Piping, wiring and miscellaneous small parts
- Indoor unit installation manual

Accessories for outdoor unit	Q'ty
① Grommet (Heat pump type only)	1
② Drain elbow (Heat pump type only)	1

Option parts	Q'ty
ⓐ Sealing plate	1
ⓑ Sleeve	1
ⓒ Inclination plate	1
ⓓ Putty	1
ⓔ Drain hose (extension hose)	1
ⓕ Piping cover (for insulation of connection piping)	1

Necessary tools for the installation work			
1	Plus headed driver	9	Wrench key (Hexagon) [4m/m]
2	Knife	10	Vacuum pump
3	Saw	11	Vacuum pump adapter (Anti-reverse flow type) (Designed specifically for R410A)
4	Tape measure	12	Gauge manifold (Designed specifically for R410A)
5	Hammer	13	Charge hose (Designed specifically for R410A)
6	Spanner wrench	14	Flaring tool set (Designed specifically for R410A)
7	Torque wrench [14.0～62.0N·m (1.4～6.2kgf·m)]	15	Gas leak detector (Designed specifically for R410A)
8	Hole core drill (65mm in diameter)	16	Gauge for projection adjustment (Used when flare is made by using conventional flare tool)

1 SELECTION OF INSTALLATION LOCATION

Install at location that meets the following conditions after getting approval from the customer.

- Where the following installation space is available, and where air does not gather.
- Where rain and sunlight do not directly hit the unit, and where there is enough air circulation.
- Also, where the unit cannot be buried by snow.
  a location which can sustain the weight of the unit, and where noises and vibrations are not enhanced.
- Where blasts of cold or hot air and noise do not bother the neighbors.
- Where the unit does not receive heat radiation from other heat sources.
- Where there are no obstructions (animals, plants, etc.) to the suction inlet and blowing outlet.
- Where water may drain out.

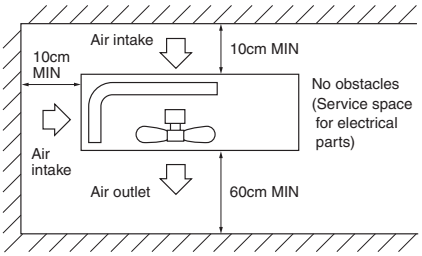
※ Please avoid the following locations.

- Where there is constant exposure to harsh winds such as the top floors of a building. Also, locations with exposure to salty air.
- Where there are oil splashes, vapor, and smoke.
- Where there are possibilities of flammable gas leaks.

① Installation Space (on a flat surface)

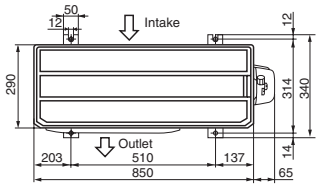
◎Blowing out port and suction port on the back side of the unit can be installed at a distance of 10cm from walls.
(In case the barrier is 1.2m or above in height, or is overhead, the sufficient space between the unit and wall shall be secured.)

○When the unit is installed, the space of the following dimension and above shall be secured.

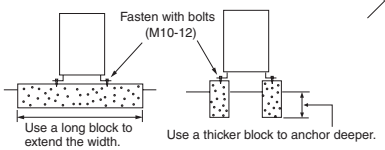


Installation

① Anchor bolt fixed position



② Notabilia for installation

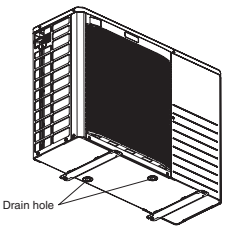


- In installing the unit, fix the unit's legs with bolts specified on the left.
- The protrusion of an anchor bolt on the front side must be kept within 15 mm.
- Securely install the unit so that it does not fall over during earthquakes or strong winds, etc.
- Refer to the above illustrations for information regarding concrete foundations.
- Install the unit in a level area. (With a gradient of 5 mm or less.)
  Improper installation can result in a compressor failure, broken piping within the unit and abnormal noise generation.

2 INSTALLATION OF OUTDOOR UNIT

Drainage

- There are 2 holes in the bottom panel of the outdoor unit to drain condensation.
- Install the outdoor unit so it will be horizontal.
- Also, secure the legs of the unit to a firm foundation to prevent any instabilities.
- Secure it firmly so the unit will not fall during earthquakes and from sudden gusts of wind.
- In areas where the temperatures drop below 0˚C for several continuous days, do not install a drain elbow. (water discharge could stop due to freezing.)



Connection of the power supply cable and the connecting cables for indoor and outdoor units.

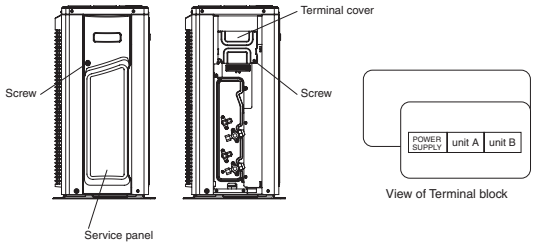
- This multi-type room air conditioner receives its power from outside.
- To ensure correct connections, mark each ends of the cables with number, A and B. It is important to use the same number the corresponding cables and pipes.
- An earth leakage breaker and a circuit breaker must be installed. Their capacities are 25A.

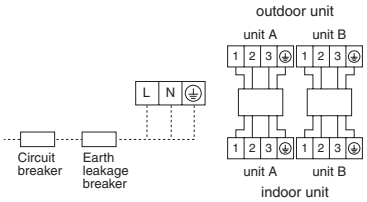
①Remove the service panel. (Remove the screw of the service panel.)
②Remove the terminal cover. (Remove the screw of the terminal cover.)
③Connect the power supply cable and the connection wire securely to the terminal block.

〔POWER SUPPLY CODE〕
CENELEC code for cables requiring fields cables. H05RNR3G4.0
〔INTERCONNECTING WIRING CODE〕
CENELEC code for cables requiring fields cables. H05RNR4G1.5

1) In wiring, make sure that the wire terminal numbers of outdoor unit terminal block are match to the wire terminal numbers of indoor unit terminal block.
2) Terminal number A of the outdoor unit is used for A indoor unit and terminal number B for B indoor unit respectively.

④After connecting the wire, use wiring clamps to secure the wiring.
⑤Fit the terminal cover and the service panel.

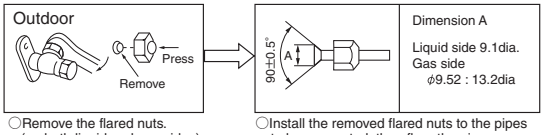




3 CONNECTION OF REFRIGERANT PIPINGS

[Connection of pipes]
NOTE

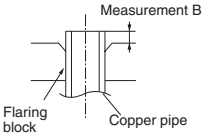
- Cover the pipes with tape so that dust and sand do not enter the pipe until they are connected.
- When connecting the pipes to the outdoor unit, be careful about the discharge of fluorocarbon gas or oil.
- Make sure to match the pipes between the indoor unit and the outdoor unit with the correct operation valves.



○Remove the flared nuts. (on both liquid and gas sides)
○Install the removed flared nuts to the pipes to be connected, then flare the pipes.

Copper pipe diameter	Measurement B (mm)		
	Clutch typr flare tool for R410A	Conventional (R22) flare tool	
		Clutch type	Wing nut type
ϕ6.35	0.0～0.5	1.0～1.5	1.5～2.0
ϕ9.52	0.0～0.5	1.0～1.5	1.5～2.0

Use a flare tool designed for R410A or a conventional flare tool. Please note that measurement B (protrusion from the flaring block) will vary depending on the type of a flare tool in use.
If a conventional flare tool is used, please use copper pipe gauge or a similar instrument to check protrusion so that you can keep measurement B to a correct value.

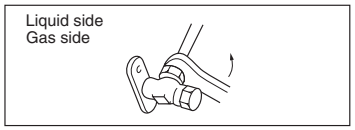


⚠ CAUTION
Do not apply excess torque to the flared nuts. Otherwise, the flared nuts may crack depending on the conditions and refrigerant leak may occur.

⚠ CAUTION
Do not apply refrigerating machine oil to the flared surface.

Connection

Outdoor

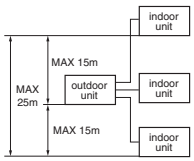


○Connect the pipes on both liquid and gas sides.
○Tighten the nuts to the following torque.
Liquid side : 14.0～18.0N･m (1.4～1.8kgf･m)
Gas side (ϕ9.52): 33.0～42.0N･m (3.3～4.2kgf･m)

Gas Leakage Test

- Ensure that there are no gas leaks from the pipe joints by using a leak detector or soap water.

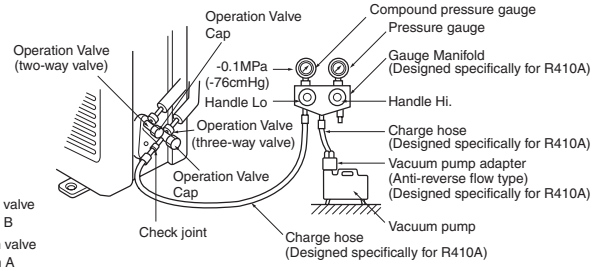
[Limit]

piping length	one indoor unit all indoor unit	MAX 25m MAX 30m
hight difference		
length of chargeless refrigerant pipe	30m	

4 AIR PURGING

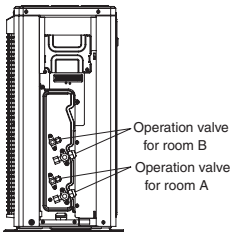
NOTE : Fully open the operation valves (on both liquid and gas sides) after completing air purging.

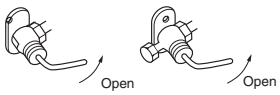
- Since the system uses service ports differing in diameter from those found on the conventional models, a charge hose (for R22) presently in use is not applicable. Please use one designed specifically for R410A.
- Remove the cap on both gas and liquid sides before starting operation.
- After completing the operation, do not forget to tighten the cap (gas may leak).
- Please use an anti-reverse flow type vacuum pump adapter so as to prevent vacuum pump oil from running back into the system. Oil running back into an air-conditioning system may cause the refrigerant cycle to break down.
- Conduct air purging for all connected indoor units.



Procedure

(1) Secure all flare nuts on both indoor and outdoor sides to prevent leaks from the pipes.
(2) Connect the operation valves, charge hose, manifold valve and vacuum pump as shown in the right figure.
(3) Fully open the handle Lo for the manifold valve, and pump a vacuum for 15 minutes. Ensure that the meter is indicating -0.1MPa (-76cmHg).
(4) After vacuuming, fully open the operation valve (both liquid and gas sides) with a hexagon wrench.





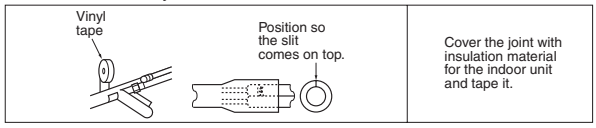
(5) Remove the charge hose from service port.
(6) Repeat the above steps (1) ~ (5) for all connected indoor units.
(7) Ensure that there are no gas leaks from the joints in the indoor and outdoor units.

Securely tighten the operation valve cap and the check joint blind nut after adjustment.

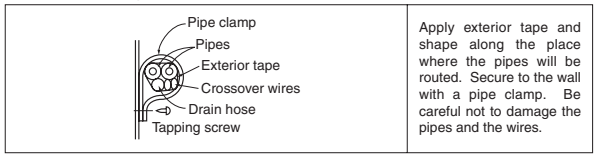
Operation valve size (mm)	Operation valve cap tightening torque (N·m)	Check joint blind nut tightening torque (N·m)
ϕ6.35 (1/4")	20～30	10～12
ϕ9.52 (3/8")		

5 HEAT INSULATION FOR JOINTS

Heat insulation for joints



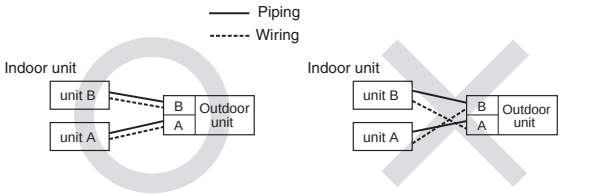
Finish and fixing



7 BEWARE OF WRONG CONNECTIONS IN REFRIGERANT PIPING AND WIRING

- Make sure to match the piping and wiring from each unit to the outdoor unit.
- Be careful because if connections are wrong, normal operation cannot be achieved and may damage the compressor.

[Correct connections] [Example of wrong connections]



EARTHING WORK

○ Earth work shall be carried out without fail in order to prevent electric shock and noise generation.
○ The connection of the earth cable to the following substances causes dangerous failures, therefore it shall never be done. (City water pipe, Town gas pipe, TV antenna, lightning conductor, telephoneline, etc.)

6 TEST RUN AND HANDLING INSTRUCTIONS

Installation test check points

Check the following points again after completion of the installation, and before turning on the power.
Conduct a test run again and ensure that the unit operates properly.
At the same time, explain to the customer how to use the unit and how to take care of the unit following the installation manual.
If the compressor does not operate after the operation has started, wait for 5-10 minutes. (This may be due to delayed start.)
(Three-minutes restart preventive timer)
When the air conditioner is restarted or when changing the operation, the unit will not start operating for approximately 3minutes. This is to protect the unit and it is not a malfunction.

After installation

- ☐ The power supply voltage is correct as the rating.
- ☐ No gas leaks from the joints of the operation valve.
- ☐ Power cables and crossover wires are securely fixed to the terminal board.
- ☐ Each indoor and outdoor unit is properly connected (no wrong wiring or piping).
- ☐ Operation valve is fully open.
- ☐ Refrigerant has been additionally charged (when the total pipe length exceeds the refrigerant charged pipe length).
- ☐ The pipe joints for indoor and outdoor pipes have been insulated.
- ☐ Earthing work has been conducted properly.

Test run

- ☐ Air conditioning and heating are normal.
- ☐ No abnormal noise.
- ☐ Water drains smoothly.
- ☐ Protective functions are not working.
- ☐ Operation of the unit has been explained to the customer.
- ☐ The remote control is normal.

Operation of indicator lamps

INDICATION LAMP	COLOR	FUNCTION
LED E (1)	RED	WARNING LAMP
SELF DIAGNOSIS FUNCTION BY LED E		
1 TIME FLASH	CURRENT CUT	
2 TIME FLASH	TROUBLE OF OUTDOOR UNIT	
3 TIME FLASH	OVER CURRENT	
4 TIME FLASH	TRANSMISSION ERROR IN OUTDOOR UNIT PCB	
5 TIME FLASH	OVER HEAT OF COMPRESSOR	
6 TIME FLASH	ERROR OF SIGNAL TRANSMISSION	
7 TIME FLASH	LOCK OF COMPRESSOR	
8 TIME FLASH	SENSOR ERROR (EXCEPT DISCHARGE PIPE SENSOR)	
LIGHT ON	OUTDOOR FAN MOTOR ERROR	
FOUR SEC LIGHT AND FOUR SEC OFF	DISCHARGE PIPE SENSOR ERROR	

(2) Model SCM50ZJ-S

(3) Model SCM71ZJ-S

RPC012A913 A

MULTI TYPE AIR CONDITIONER
R410A REFRIGERANT USED

• This installation manual deals with outdoor units and general installation specifications only. For indoor units, refer to manual No.'10 · SCM-DB-092D.
• When install the unit, be sure to check whether the selection of installation place, power supply specifications, usage limitation (piping length, height differences between indoor and outdoor units, power supply voltage and etc.) and installation spaces.

SAFETY PRECAUTIONS

- We recommend you to read this "SAFETY PRECAUTIONS" carefully before the installation work in order to gain full advantage of the functions of the unit and to avoid malfunction due to mishandling.
- The precautions described below are divided into ⚠ **WARNING** and ⚠ **CAUTION**. The matters with possibilities leading to serious consequences such as death or serious personal injury due to erroneous handling are listed in the ⚠ **WARNING** and the matters with possibilities leading to personal injury or damage of the unit due to erroneous handling including probability leading to serious consequences in some cases are listed in ⚠ **CAUTION**. These are very important precautions for safety. Be sure to observe all of them without fail.
- Be sure to confirm no anomaly on the equipment by commissioning after completed installation and explain the operating methods as well as the maintenance methods of this equipment to the user according to the owner's manual.
- Keep the installation manual together with owner's manual at a place where any user can read at any time. Moreover if necessary, ask to hand them to a new user.
- For installing qualified personnel, take precautions in respect to themselves by using suitable protective clothing, groves, etc., and then perform the installation works.
- Please pay attention not to fall down the tools, etc. when installing the unit at the high position.
- If unusual noise can be heard during operation, consult the dealer.
- Symbols which appear frequently in the text have the following meaning:

❗	Observe instructions with great care	⃠	Strictly prohibited	⏚	Provide proper earthing

⚠ WARNING

❗
- **Installation must be carried out by the qualified installer.**
  If you install the system by yourself, it may cause serious trouble such as water leaks, electric shocks, fire and personal injury, as a result of a system malfunction.
- **Install the system in full accordance with the instruction manual.**
  Incorrect installation may cause bursts, personal injury, water leaks, electric shocks and fire.
- **Be sure to use only for household and residence.**
  If this appliance is installed in inferior environment such as machine shop and etc., it can cause malfunction.
- **Use the original accessories and the specified components for installation.**
  If parts other than those prescribed by us are used, It may cause water leaks, electric shocks, fire and personal injury.
- **Install the unit in a location with good support.**
  Unsuitable installation locations can cause the unit to fall and cause material damage and personal injury.
- **Ensure the unit is stable when installed, so that it can withstand earthquakes and strong winds.**
  Unsuitable installation locations can cause the unit to fall and cause material damage and personal injury.
- **Ventilate the working area well in the event of refrigerant leakage during installation.**
  If the refrigerant comes into contact with naked flames, poisonous gas is produced.
- **Use the prescribed pipes, flare nuts and tools for R410A.**
  Using existing parts (for R22 or R407C) can cause the unit failure and serious accidents due to burst of the refrigerant circuit.
- **Tighten the flare nut by torque wrench with specified method.**
  If the flare nut were tightened with excess torque, this may cause burst and refrigerant leakage after a long period.
- **Do not open the operation valves for liquid line and gas line until completed refrigerant piping work, air tightness test and evacuation.**
  If the compressor is operated in state of opening operation valves before completed connection of refrigerant piping work, air can be sucked into refrigerant circuit, which can cause bust or personal injury due to anomalously high pressure in the refrigerant.
- **The electrical installation must be carried out by the qualified electrician in accordance with "the norm for electrical work" and "national wiring regulation", and the system must be connected to the dedicated circuit.**
  Power supply with insufficient capacity and incorrect function done by improper work can cause electric shocks and fire.
- **Be sure to shut off the power before starting electrical work.**
  Failure to shut off the power can cause electric shocks, unit failure or incorrect function of equipment.
- **Be sure to use the cables conformed to safety standard and cable ampacity for power distribution work.**
  Unconformable cables can cause electric leak, anomalous heat production or fire.
- **This appliance must be connected to main power supply by means of a circuit breaker or switch (fuse:16A) with a contact separation of at least 3mm.**
- **Use the prescribed cables for electrical connection, tighten the cables securely in terminal block and relieve the cables correctly to prevent overloading the terminal blocks.**
  Loose connections or cable mountings can cause anomalous heat production or fire.
- **Arrange the wiring in the control box so that it cannot be pushed up further into the box. Install the service panel correctly.**
  Incorrect installation may result in overheating and fire.
- **Be sure to fix up the service panels.**
  Incorrect fixing can cause electric shocks or fire due to intrusion of dust or water.
- **Be sure to switch off the power supply in the event of installation, inspection or servicing.**
  If the power supply is not shut off, there is a risk of electric shocks, unit failure or personal injury due to the unexpected start of fan.
- **Stop the compressor before disconnecting refrigerant pipes in case of pump down operation.**
  If disconnecting refrigerant pipes in state of opening operation valves before compressor stopping, air can be sucked, which can cause burst or personal injury due to anomalously high pressure in the refrigerant circuit
- **Only use prescribed optional parts. The installation must be carried out by the qualified installer.**
  If you install the system by yourself, it can cause serious trouble such as water leaks, electric shocks, fire.

⃠
- **Ensure that no air enters in the refrigerant circuit when the unit is installed and removed.**
  If air enters in the refrigerant circuit, the pressure in the refrigerant circuit becomes too high, which can cause burst and personal injury.
- **Do not processing, splice the power cord, or share a socket with other power plugs.**
  This may cause fire or electric shock due to defecting contact, defecting insulation and over-current etc.
- **Do not bundling, winding or processing for the power cord. Or, do not deforming the power plug due to tread it.**
  This may cause fire or heating.
- **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 shocks.
- **Do not perform any change of protective device itself or its setup condition.**
  The forced operation by short-circuiting protective device of pressure switch and temperature controller or the use of non specified component can cause fire or burst.

⏚
- **Carry out the electrical work for ground lead with care.**
  Do not connect the ground lead to the gas line, water line, lightning conductor or telephone line's ground lead. Incorrect grounding can cause unit faults such as electric shocks due to short-circuiting.

⚠ CAUTION

❗
- **Use the circuit breaker with sufficient breaking capacity.**
  If the breaker does not have sufficient breaking capacity, it can cause the unit malfunction and fire.
- **Earth leakage breaker must be installed.**
  If the earth leakage breaker is not installed, it can cause electric shocks.
- **Install isolator or disconnect switch on the power supply wiring in accordance with the local codes and regulations.**
- **After maintenance, all wiring, wiring ties and the like, should be returned to their original state and wiring route, and the necessary clearance from all metal parts should be secured.**
- **Secure a space for installation, inspection and maintenance specified in the manual.**
  Insufficient space can result in accident such as personal injury due to falling from the installation place.
- **Take care when carrying the unit by hand.**
  If the unit weights more than 20kg, it must be carried by two or more persons. Do not carry by the plastic straps, always use the carry handle when carrying the unit by hand. Use gloves to minimize the risk of cuts by the aluminum fins.
- **Dispose of any packing materials correctly.**
  Any remaining packing materials can cause personal injury as it contains nails and wood. And to avoid danger of suffocation, be sure to keep the plastic wrapper away from children and to dispose after tear it up.
- **Be sure to insulate the refrigerant pipes so as not to condense the ambient air moisture on them.**
  Insufficient insulation can cause condensation, which can lead to moisture damage on the ceiling, floor, furniture and any other valuables.
- **When perform the air conditioner operation (cooling or drying operation) in which ventilator is installed in the room. In this case, using the air conditioner in parallel with the ventilator, there is the possibility that drain water may backflow in accordance with the room lapse into the negative pressure status. Therefore, set up the opening port such as incorporate the air into the room that may appropriate to ventilation (For example; Open the door a little). In addition, just as above, so set up the opening port if the room lapse into negative pressure status due to register of the wind for the high rise apartment etc.**

⃠
- **Do not install the unit in the locations listed below.**
  - Locations where carbon fiber, metal powder or any powder is floating.
  - Locations where any substances that can affect the unit such as sulphide gas, chloride gas, acid and alkaline can occur.
  - Vehicles and ships.
  - Locations where cosmetic or special sprays are often used.
  - Locations with direct exposure of oil mist and steam such as kitchen and machine plant.
  - Locations where any machines which generate high frequency harmonics are used.
  - Locations with salty atmospheres such as coastlines.
  - Locations with heavy snow (If installed, be sure to provide base flame and snow hood mentioned in the manual).
  - Locations where the unit is exposed to chimney smoke.
  - Locations at high altitude (more than 1000m high).
  - Locations with ammonic atmospheres.
  - Locations where heat radiation from other heat source can affect the unit.
  - Locations without good air circulation.
  - Locations with any obstacles which can prevent inlet and outlet air of the unit.
  - Locations where short circuit of air can occur (in case of multiple units installation).
  - Locations where strong air blows against the air outlet of outdoor unit.

  It can cause remarkable decrease in performance, corrosion and damage of components, malfunction and fire.
- **Do not install the outdoor unit in the locations listed below.**
  - Locations where discharged hot air or operating sound of the outdoor unit can bother neighborhood.
  - Locations where outlet air of the outdoor unit blows directly to plants.
  - Locations where vibration can be amplified and transmitted due to insufficient strength of structure.
  - Locations where vibration and operation sound generated by the outdoor unit can affect seriously (on the wall or at the place near bed room).
  - Locations where an equipment affected by high harmonics is placed (TV set or radio receiver is placed within 1m).
  - Locations where drainage cannot run off safely.

  It can affect surrounding environment and cause a claim.

⚠ CAUTION

- **Do not install the unit near the location where leakage of combustible gases can occur.**
  If leaked gases accumulate around the unit, it can cause fire.
- **Do not install the unit where corrosive gas (such as sulfurous acid gas etc.) or combustible gas (such as thinner and petroleum gases) can accumulate or collect, or where volatile combustible substances are handled.**
  Corrosive gas can cause corrosion of heat exchanger, breakage of plastic parts and etc. And combustible gas can cause fire.
- **Do not install nor use the system close to the equipment that generates electromagnetic fields or high frequency harmonics.**
  Equipment such as inverters, standby generators, medical high frequency equipments and telecommunication equipments can affect the system, and cause malfunctions and breakdowns. The system can also affect medical equipment and telecommunication equipment, and obstruct its function or cause jamming.
- **Do not install the outdoor unit in a location where insects and small animals can inhabit.**
  Insects and small animals can enter the electric parts and cause damage or fire. Instruct the user to keep the surroundings clean.
- **Do not use the base flame for outdoor unit which is corroded or damaged due to long periods of operation.**
  Using an old and damage base flame can cause the unit falling down and cause personal injury.
- **Do not use any materials other than a fuse with the correct rating in the location where fuses are to be used.**
  Connecting the circuit with copper wire or other metal thread can cause unit failure and fire.
- **Do not touch any buttons with wet hands.**
  It can cause electric shocks.
- **Do not touch any refrigerant pipes with your hands when the system is in operation.**
  During operation the refrigerant pipes become extremely hot or extremely cold depending the operating condition, and it can cause burn injury or frost injury.
- **Do not touch the suction or aluminum fin on the outdoor unit.**
  This may cause injury.
- **Do not put anything on the outdoor unit and operating unit.**
  This may cause damage the objects or injury due to falling to the object.

Check before installation work

- Model name and power source
- Refrigerant piping length
- Piping, wiring and miscellaneous small parts
- Indoor unit installation manual

Accessories for outdoor unit	Q'ty
① Grommet (Heat pump type only)	2
② Drain elbow (Heat pump type only)	1
③ Variable diameter joint ϕ9.52⇒ϕ12.7	2

Note: Provide flare nuts when using the variable diameter joint (for ϕ12.7).

Option parts	Q'ty
ⓐ Sealing plate	1
ⓑ Sleeve	1
ⓒ Inclination plate	1
ⓓ Putty	1
ⓔ Drain hose (extension hose)	1
ⓕ Piping cover (for insulation of connection piping)	1

Necessary tools for the installation work	
1	Plus headed driver
2	Knife
3	Saw
4	Tape measure
5	Hammer
6	Spanner wrench
7	Torque wrench [14.0～62.0N·m (1.4～6.2kgf·m)]
8	Hole core drill (65mm in diameter)
9	Wrench key (Hexagon) [4m/m]
10	Vacuum pump
11	Vacuum pump adapter (Anti-reverse flow type) (Designed specifically for R410A)
12	Gauge manifold (Designed specifically for R410A)
13	Charge hose (Designed specifically for R410A)
14	Flaring tool set (Designed specifically for R410A)
15	Gas leak detector (Designed specifically for R410A)
16	Gauge for projection adjustment (Used when flare is made by using conventional flare tool)

CAUTION • This model requires a minimum of 2 indoor units.

1 SELECTION OF INSTALLATION LOCATION

Install at location that meets the following conditions after getting approval from the customer.

- Where the following installation space is available, and where air does not gather.
- Where rain and sunlight do not directly hit the unit, and where there is enough air circulation.
- Also, where the unit cannot be buried by snow.
  a location which can sustain the weight of the unit, and where noises and vibrations are not enhanced.
- Where blasts of cold or hot air and noise do not bother the neighbors.
- Where the unit does not receive heat radiation from other heat sources.
- Where there are no obstructions (animals, plants, etc.) to the suction inlet and blowing outlet.
- Where water may drain out.

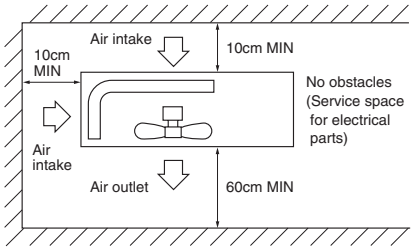
※ Please avoid the following locations.

- Where there is constant exposure to harsh winds such as the top floors of a building. Also, locations with exposure to salty air.
- Where there are oil splashes, vapor, and smoke.
- Where there are possibilities of flammable gas leaks.

① Installation Space (on a flat surface)

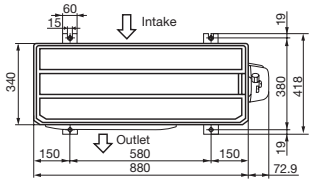
◎Blowing out port and suction port on the back side of the unit can be installed at a distance of 10cm from walls.
(In case the barrier is 1.2m or above in height, or is overhead, the sufficient space between the unit and wall shall be secured.)

○When the unit is installed, the space of the following dimension and above shall be secured.

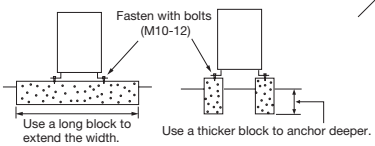


Installation

① Anchor bolt fixed position



② Notabilia for installation

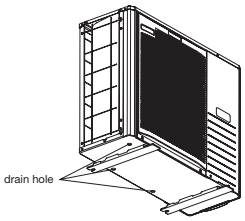


- In installing the unit, fix the unit's legs with bolts specified on the left.
- The protrusion of an anchor bolt on the front side must be kept within 15 mm.
- Securely install the unit so that it does not fall over during earthquakes or strong winds, etc.
- Refer to the above illustrations for information regarding concrete foundations.
- Install the unit in a level area. (With a gradient of 5 mm or less.)
  Improper installation can result in a compressor failure, broken piping within the unit and abnormal noise generation.

2 INSTALLATION OF OUTDOOR UNIT

Drainage

- There are 3 holes in the bottom panel of the outdoor unit to drain condensation.
- Install the outdoor unit so it will be horizontal.
- Also, secure the legs of the unit to a firm foundation to prevent any instabilities.
- Secure it firmly so the unit will not fall during earthquakes and from sudden gusts of wind.
- In areas where the temperatures drop below 0˚C for several continuous days, do not install a drain elbow. (water discharge could stop due to freezing.)



Connection of the power supply cable and the connecting cables for indoor and outdoor units.

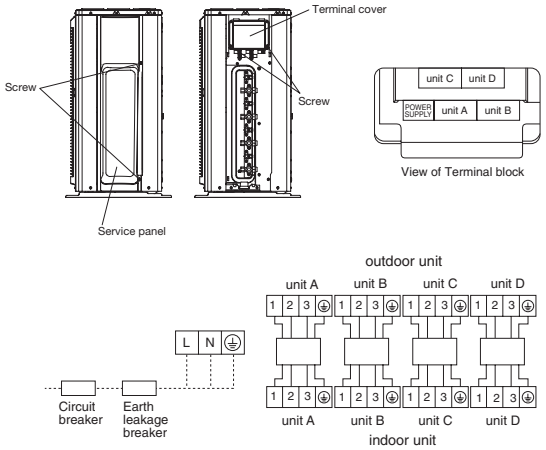
- This multi-type room air conditioner receives its power from outside.
- To ensure correct connections, mark each ends of the cables with number, A to D. It is important to use the same number the corresponding cables and pipes.
- An earth leakage breaker and a circuit breaker must be installed. Their capacities are 25A.

①Remove the service panel.(Remove the 2 sets screws of the service panel.)
②Remove the terminal cover.(Remove the 2 sets screws of the terminal cover.)
③Connect the power supply cable and the connection wire securely to the terminal block.

〔POWER SUPPLY CODE〕
CENELEC code for cables requiring fields cables. H05RNR3G4.0
〔INTERCONNECTING WIRING CODE〕
CENELEC code for cables requiring fields cables. H05RNR4G1.5

1) In wiring, make sure that the wire terminal numbers of outdoor unit terminal block are match to the wire terminal numbers of indoor unit terminal block.
2) Terminal number A of the outdoor unit is used for A indoor unit and terminal number B for B indoor unit respectively.

④After connecting the wire, use wiring clamps to secure the wiring.
⑤Fit the terminal cover and the service panel.

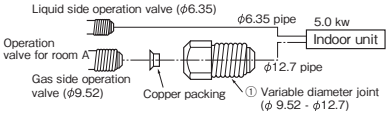


3 CONNECTION OF REFRIGERANT PIPINGS

- Regarding the change in the sizes of gas side pipes (usage of the variable joints); If a 5.0, 6.0 kw class indoor unit (gas side pipe 12.7) is going to be connected to the operation valves (9.52), variable joints available as accessories must be applied to the gas side operation valves.
- Securely fit the copper packing between the operation valve and the variable diameter joint to prevent shifting.

[Examples of use of variable diameter joints]

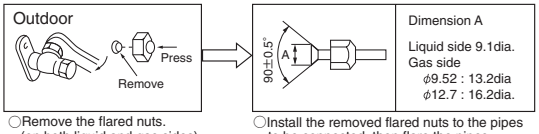
●Connection of indoor unit of Class 5.0 to A unit.



[Connection of pipes]

NOTE

- Cover the pipes with tape so that dust and sand do not enter the pipe until they are connected.
- When connecting the pipes to the outdoor unit, be careful about the discharge of fluorocarbon gas or oil.
- Make sure to match the pipes between the indoor unit and the outdoor unit with the correct operation valves.

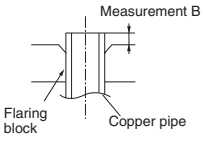


○Remove the flared nuts. (on both liquid and gas sides)

○Install the removed flared nuts to the pipes to be connected, then flare the pipes.

Copper pipe diameter	Measurement B (mm)		
	Clutch type flare tool for R410A	Conventional (R22) flare tool	
		Clutch type	Wing nut type
ϕ6.35	0.0～0.5	1.0～1.5	1.5～2.0
ϕ9.52	0.0～0.5	1.0～1.5	1.5～2.0
ϕ12.7	0.0～0.5	1.0～1.5	2.0～2.5

Use a flare tool designed for R410A or a conventional flare tool. Please note that measurement B (protrusion from the flaring block) will vary depending on the type of a flare tool in use.
If a conventional flare tool is used, please use a copper pipe gauge or a similar instrument to check protrusion so that you can keep measurement B to a correct value.

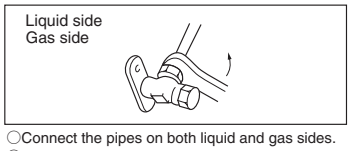


⚠ CAUTION
Do not apply excess torque to the flared nuts. Otherwise, the flared nuts may crack depending on the conditions and refrigerant leak may occur.

⚠ CAUTION
Do not apply refrigerating machine oil to the flared surface.

Connection

Outdoor



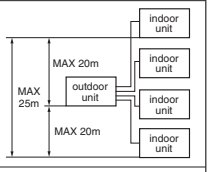
○Connect the pipes on both liquid and gas sides.
○Tighten the nuts to the following torque.
Liquid side : 14.0～18.0N･m (1.4～1.8kgf･m)
Gas side (ϕ9.52): 33.0～42.0N･m (3.3～4.2kgf･m)
(ϕ12.7): 49.0～61.0N･m (4.9～6.1kgf･m)

- When the total refrigerant pipe lenght for all the rooms exceeds the lenght of the uncharged pipe (40m), additional refrigerant is required. (If 40m or less, additional charge is not required.) Additional charge amount per meter = 20g/m

Gas Leakage Test

- Ensure that there are no gas leaks from the pipe joints by using a leak detector or soap water.

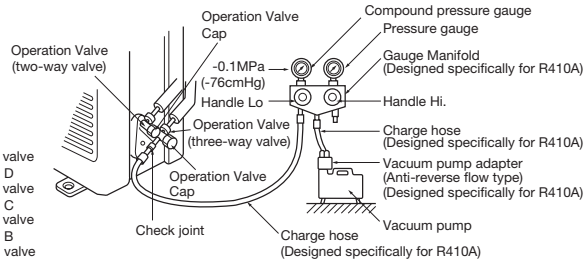
[Limit]

piping length	one indoor unit / all indoor unit	MAX 25m / MAX 70m
hight difference		
length of chargeless refrigerant pipe	40m	

4 AIR PURGING

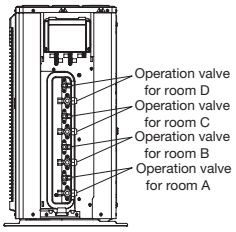
NOTE : Fully open the operation valves (on both liquid and gas sides) after completing air purging.

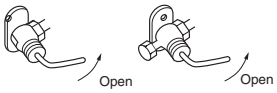
- Since the system uses service ports differing in diameter from those found on the conventional models, a charge hose (for R22) presently in use is not applicable. Please use one designed specifically for R410.A.
- Remove the cap on both gas and liquid sides before starting operation.
- After completing the operation, do not forget to tighten the cap (gas may leak).
- Please use an anti-reverse flow type vacuum pump adapter so as to prevent vacuum pump oil from running back into the system. Oil running back into an air-conditioning system may cause the refrigerant cycle to break down.
- Conduct air purging for all connected indoor units.



Procedure

(1) Secure all flare nuts on both indoor and outdoor sides to prevent leaks from the pipes.
(2) Connect the operation valves, charge hose, manifold valve and vacuum pump as shown in the right figure.
(3) Fully open the handle Lo for the manifold valve, and pump a vacuum for 15 minutes. Ensure that the meter is indicating -0.1MPa (-76cmHg).
(4) After vacuuming, fully open the operation valve (both liquid and gas sides) with a hexagon wrench.





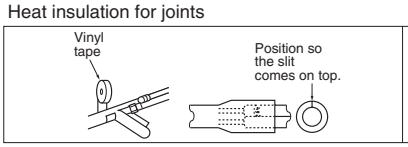
(5) Remove the charge hose from service port.
(6) Repeat the above steps (1) ~ (5) for all connected indoor units.
(7) Ensure that there are no gas leaks from the joints in the indoor and outdoor units.

Securely tighten the operation valve cap and the check joint blind nut after adjustment.

Operation valve size (mm)	Operation valve cap tightening torque (N·m)	Check joint blind nut tightening torque (N·m)
ϕ6.35 (1/4")	20～30	10～12
ϕ9.52 (3/8")		
ϕ12.7 (1/2")	25～35	

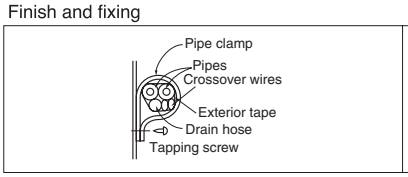
5 HEAT INSULATION FOR JOINTS

Heat insulation for joints



Cover the joint with insulation material for the indoor unit and tape it.

Finish and fixing

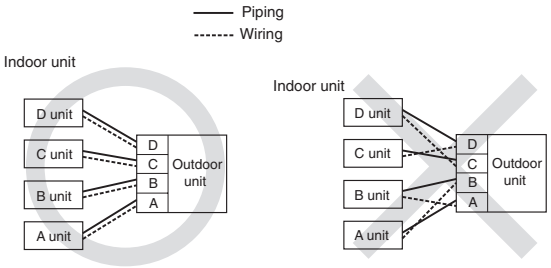


Apply exterior tape and shape along the place where the pipes will be routed. Secure to the wall with a pipe clamp. Be careful not to damage the pipes and the wires.

7 BEWARE OF WRONG CONNECTIONS IN REFRIGERANT PIPING AND WIRING.

- Make sure to match the piping and wiring from each unit to the outdoor unit.
- Be careful because if connections are wrong, normal operation cannot be achieved and may damage the compressor.

[Correct connections] [Example of wrong connections]



EARTHING WORK

○ Earth work shall be carried out without fail in order to prevent electric shock and noise generation.
○ The connection of the earth cable to the following substances causes dangerous failures, therefore it shall never be done. (City water pipe, Town gas pipe, TV antenna, lightning conductor, telephoneline, etc.)

6 TEST RUN AND HANDLING INSTRUCTIONS

Installation test check points

Check the following points again after completion of the installation, and before turning on the power.
Conduct a test run again and ensure that the unit operates properly.
At the same time, explain to the customer how to use the unit and how to take care of the unit following the installation manual.
If the compressor does not operate after the operation has started, wait for 5-10 minutes. (This may be due to delayed start.)
(Three-minute restart preventive timer)
When the air conditioner is restarted or when changing the operation, the unit will not start operating for approximately 3minutes. This is to protect the unit and it is not a malfunction.

After installation

- ☐ The power supply voltage is correct as the rating.
- ☐ No gas leaks from the joints of the operation valve.
- ☐ Power cables and crossover wires are securely fixed to the terminal board.
- ☐ Each indoor and outdoor unit is properly connected (no wrong wiring or piping).
- ☐ Operation valve is fully open.
- ☐ Refrigerant has been additionally charged (when the total pipe length exceeds the refrigerant charged pipe length).
- ☐ The pipe joints for indoor and outdoor pipes have been insulated.
- ☐ Earthing work has been conducted properly.

Test run

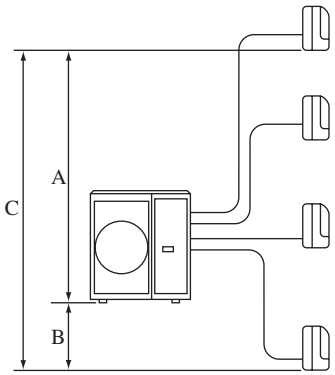
- ☐ Air conditioning and heating are normal.
- ☐ No abnormal noise.
- ☐ Water drains smoothly.
- ☐ Protective functions are not working.
- ☐ Operation of the unit has been explained to the customer.
- ☐ The remote control is normal.

Operation of indicator lamps

INDICATION LAMP	COLOR	FUNCTION
LED E (1)	RED	WARNING LAMP
SELF DIAGNOSIS FUNCTION BY LED E		
1 TIME FLASH	CURRENT CUT	
2 TIME FLASH	TROUBLE OF OUTDOOR UNIT	
3 TIME FLASH	OVER CURRENT	
4 TIME FLASH	TRANSMISSION ERROR IN OUTDOOR UNIT PCB	
5 TIME FLASH	OVER HEAT OF COMPRESSOR	
6 TIME FLASH	ERROR OF SIGNAL TRANSMISSION	
7 TIME FLASH	LOCK OF COMPRESSOR	
8 TIME FLASH	SENSOR ERROR (EXCEPT DISCHARGE PIPE SENSOR)	
LIGHT ON	OUTDOOR FAN MOTOR ERROR	
FOUR SEC LIGHT AND FOUR SEC OFF	DISCHARGE PIPE SENSOR ERROR	

7. RANGE OF USAGE & LIMITATIONS

Item \ Models			SCM40ZJ-S	SCM45ZJ-S	SCM50ZJ-S	SCM71ZJ-S
Indoor intake air temperature (Upper, lower limits)		Cooling	Approximately 18 to 32℃			
		Heating	Approximately 15 to 30℃			
Outdoor air temperature (Upper, lower limits)		Cooling	Approximately -15 to 43℃			
		Heating	Approximately -15 to 24℃			
Indoor units that can be used in combination	Number of connected units		2 units		2 to 3 units	2 to 4 units
	Total of indoor Units (class kW)		6.0kW	7.0kW	8.5kW	12.5kW
Total length for all rooms			Max. 30m		Max. 40m	Max. 70m
Length for one indoor unit			Max. 25m			
Difference in height between indoor and outdoor units	When indoor unit is above outdoor unit (A)		Max. 15m			Max. 20m
	When indoor unit is below outdoor unit (B)		Max. 15m			Max. 20m
Difference in height between indoor units (C)			Max. 25m			
Compressor stop/start frequency	1 cycle time		6 min or more (from stop to stop or from start to start)			
	Stop time		3 min or more			
Power source voltage	Voltage fluctuation		Within ±10% of rated voltage			
	Voltage drop during start		Within ±15% of rated voltage			
	Interval unbalance		Within ±3% of rated voltage			



8. TABLE OF INDOOR UNIT COMBINATIONS

- The combinations of the indoor units is indicated by numbers. They are read as follows.
  (Example) SRK20ZJX-S→20 SRK25ZJX-S→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

	SCM40ZJ-S	SCM45ZJ-S	SCM50ZJ-S	SCM71ZJ-S
MIN	2	2	2	2
MAX	2	2	3	4

(1) Model SCM40ZJ-S

(a) Indoor unit SRK∗∗ZJX-S models only

<Cooling>

Indoor unit combination		Cooling capacity (kW)					Power consumption (W)			Standard current (A)		
		Room cooling capacity (kW)		Total capacity (kW)			Min.	Standard	Max.	220V	230V	240V
		A	B	Min.	Standard	Max.						
1 room	20	2.0	-	1.8	2.0	2.8	490	530	880	2.4	2.3	2.2
	25	2.5	-	1.8	2.5	3.4	490	670	1040	3.1	2.9	2.8
	35	3.5	-	1.8	3.5	3.9	490	970	1200	4.5	4.3	4.1
2 room	20 + 20	2.00	2.00	3.0	4.0	5.7	560	840	1750	3.9	3.7	3.5
	20 + 25	2.00	2.50	3.0	4.5	5.9	560	1040	1900	4.8	4.6	4.4
	20 + 35	1.89	3.31	3.0	5.2	5.9	560	1430	1900	6.6	6.3	6.0
	25 + 25	2.50	2.50	3.0	5.0	5.9	560	1280	1900	5.9	5.6	5.4
	25 + 35	2.17	3.03	3.0	5.2	5.9	560	1430	1900	6.6	6.3	6.0

<Heating>

Indoor unit combination		Heating capacity (kW)					Power consumption (W)			Standard current (A)		
		Room heating capacity (kW)		Total capacity (kW)			Min.	Standard	Max.	220V	230V	240V
		A	B	Min.	Standard	Max.						
1 room	20	3.0	-	1.4	3.0	3.7	470	750	1070	3.4	3.3	3.2
	25	3.4	-	1.4	3.4	4.2	470	920	1210	4.2	4.0	3.9
	35	4.5	-	1.4	4.5	5.0	470	1210	1450	5.6	5.3	5.1
2 room	20 + 20	2.25	2.25	2.0	4.5	6.9	530	900	2300	4.1	4.0	3.8
	20 + 25	2.49	3.11	2.0	5.6	6.9	530	1200	2300	5.5	5.3	5.1
	20 + 35	2.11	3.69	2.0	5.8	6.9	530	1290	2300	5.9	5.7	5.4
	25 + 25	2.90	2.90	2.0	5.8	6.9	530	1290	2300	5.9	5.7	5.4
	25 + 35	2.42	3.38	2.0	5.8	6.9	530	1290	2300	5.9	5.7	5.4

(b) Indoor unit except SRK∗∗ZJX-S models

<Cooling>

Indoor unit combination		Cooling capacity (kW)					Power consumption (W)			Standard current (A)		
		Room cooling capacity (kW)		Total capacity (kW)			Min.	Standard	Max.	220V	230V	240V
		A	B	Min.	Standard	Max.						
1 room	20	2.0	-	1.8	2.0	2.7	490	560	880	2.6	2.5	2.4
	25	2.5	-	1.8	2.5	3.2	490	710	1040	3.3	3.1	3.0
	35	3.5	-	1.8	3.5	3.7	490	1030	1200	4.7	4.5	4.3
2 room	20 + 20	2.00	2.00	3.0	4.0	5.6	560	880	1750	4.0	3.9	3.7
	20 + 25	2.00	2.50	3.0	4.5	5.8	560	1090	1900	5.0	4.8	4.6
	20 + 35	1.89	3.31	3.0	5.2	5.8	560	1500	1900	6.9	6.6	6.3
	25 + 25	2.50	2.50	3.0	5.0	5.8	560	1340	1900	6.2	5.9	5.6
	25 + 35	2.17	3.03	3.0	5.2	5.8	560	1500	1900	6.9	6.6	6.3

<Heating>

Indoor unit combination		Heating capacity (kW)					Power consumption (W)			Standard current (A)		
		Room heating capacity (kW)		Total capacity (kW)			Min.	Standard	Max.	220V	230V	240V
		A	B	Min.	Standard	Max.						
1 room	20	3.0	-	1.4	3.0	3.5	470	900	1070	4.1	4.0	3.8
	25	3.4	-	1.4	3.4	4.0	470	1070	1210	4.9	4.7	4.5
	35	4.5	-	1.4	4.5	4.8	470	1340	1450	6.2	5.9	5.6
2 room	20 + 20	2.25	2.25	2.0	4.5	6.7	530	930	2300	4.3	4.1	3.9
	20 + 25	2.49	3.11	2.0	5.6	6.7	530	1240	2300	5.7	5.4	5.2
	20 + 35	2.11	3.69	2.0	5.8	6.7	530	1330	2300	6.1	5.8	5.6
	25 + 25	2.90	2.90	2.0	5.8	6.7	530	1330	2300	6.1	5.8	5.6
	25 + 35	2.42	3.38	2.0	5.8	6.7	530	1330	2300	6.1	5.8	5.6

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(2) Model SCM45ZJ-S
(a) Indoor unit SRK∗∗ZJX-S models only

<Cooling>

Indoor unit combination		Cooling capacity (kW)					Power consumption (W)			Standard current (A)		
		Room cooling capacity (kW)		Total capacity (kW)			Min.	Standard	Max.	220V	230V	240V
		A	B	Min.	Standard	Max.						
1 room	20	2.0	-	1.8	2.0	2.8	490	530	880	2.4	2.3	2.2
	25	2.5	-	1.8	2.5	3.4	490	670	1040	3.1	2.9	2.8
	35	3.5	-	1.8	3.5	3.9	490	970	1200	4.5	4.3	4.1
2 room	20 + 20	2.00	2.00	3.0	4.0	5.7	560	840	1750	3.9	3.7	3.5
	20 + 25	2.00	2.50	3.0	4.5	5.9	560	1040	1900	4.8	4.6	4.4
	20 + 35	2.00	3.50	3.0	5.5	6.3	560	1490	2110	6.8	6.5	6.3
	25 + 25	2.50	2.50	3.0	5.0	6.2	560	1280	2050	5.9	5.6	5.4
	25 + 35	2.42	3.38	3.0	5.8	6.4	560	1740	2140	8.0	7.6	7.3
	35 + 35	2.90	2.90	3.0	5.8	6.4	560	1740	2140	8.0	7.6	7.3

<Heating>

Indoor unit combination		Heating capacity (kW)					Power consumption (W)			Standard current (A)		
		Room heating capacity (kW)		Total capacity (kW)			Min.	Standard	Max.	220V	230V	240V
		A	B	Min.	Standard	Max.						
1 room	20	3.0	-	1.4	3.0	3.7	470	750	1070	3.4	3.3	3.2
	25	3.4	-	1.4	3.4	4.2	470	920	1210	4.2	4.0	3.9
	35	4.5	-	1.4	4.5	5.0	470	1210	1450	5.6	5.3	5.1
2 room	20 + 20	2.25	2.25	2.0	4.5	7.4	530	900	2570	4.1	4.0	3.8
	20 + 25	2.49	3.11	2.0	5.6	7.4	530	1200	2570	5.5	5.3	5.1
	20 + 35	2.36	4.14	2.0	6.5	7.4	530	1500	2570	6.9	6.6	6.3
	25 + 25	3.25	3.25	2.0	6.5	7.4	530	1500	2570	6.9	6.6	6.3
	25 + 35	2.71	3.79	2.0	6.5	7.4	530	1500	2570	6.9	6.6	6.3
	35 + 35	3.25	3.25	2.0	6.5	7.4	530	1500	2570	6.9	6.6	6.3

(b) Indoor unit except SRK**ZJX-S models

<Cooling>

Indoor unit combination		Cooling capacity (kW)					Power consumption (W)			Standard current (A)		
		Room cooling capacity (kW)		Total capacity (kW)			Min.	Standard	Max.	220V	230V	240V
		A	B	Min.	Standard	Max.						
1 room	20	2.0	-	1.8	2.0	2.7	490	560	880	2.6	2.5	2.4
	25	2.5	-	1.8	2.5	3.2	490	710	1040	3.3	3.1	3.0
	35	3.5	-	1.8	3.5	3.7	490	1030	1200	4.7	4.5	4.3
2 room	20 + 20	2.00	2.00	3.0	4.0	5.6	560	880	1750	4.0	3.9	3.7
	20 + 25	2.00	2.50	3.0	4.5	5.8	560	1090	1900	5.0	4.8	4.6
	20 + 35	2.00	3.50	3.0	5.5	6.2	560	1560	2110	7.2	6.9	6.6
	25 + 25	2.50	2.50	3.0	5.0	6.1	560	1340	2050	6.2	5.9	5.6
	25 + 35	2.42	3.38	3.0	5.8	6.3	560	1820	2140	8.4	8.0	7.7
	35 + 35	2.90	2.90	3.0	5.8	6.3	560	1820	2140	8.4	8.0	7.7

<Heating>

Indoor unit combination		Heating capacity (kW)					Power consumption (W)			Standard current (A)		
		Room heating capacity (kW)		Total capacity (kW)			Min.	Standard	Max.	220V	230V	240V
		A	B	Min.	Standard	Max.						
1 room	20	3.0	-	1.4	3.0	3.5	470	900	1070	4.1	4.0	3.8
	25	3.4	-	1.4	3.4	4.0	470	1070	1210	4.9	4.7	4.5
	35	4.5	-	1.4	4.5	4.8	470	1340	1450	6.2	5.9	5.6
2 room	20 + 20	2.25	2.25	2.0	4.5	7.2	530	930	2570	4.3	4.1	3.9
	20 + 25	2.49	3.11	2.0	5.6	7.2	530	1240	2570	5.7	5.4	5.2
	20 + 35	2.36	4.14	2.0	6.5	7.2	530	1550	2570	7.1	6.8	6.5
	25 + 25	3.25	3.25	2.0	6.5	7.2	530	1550	2570	7.1	6.8	6.5
	25 + 35	2.71	3.79	2.0	6.5	7.2	530	1550	2570	7.1	6.8	6.5
	35 + 35	3.25	3.25	2.0	6.5	7.2	530	1550	2570	7.1	6.8	6.5

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(3) Model SCM50ZJ-S
(a) Indoor unit SRK∗∗ZJX-S models only

<Cooling>

Indoor unit combination		Cooling capacity (kW)						Power consumption (W)			Standard current (A)		
		Room cooling capacity (kW)			Total capacity (kW)			Min.	Standard	Max.	220V	230V	240V
		A	B	C	Min.	Standard	max.						
1 room	20	2.0	-	-	1.8	2.0	2.8	500	550	900	2.5	2.4	2.3
	25	2.5	-	-	1.8	2.5	3.4	500	720	1070	3.3	3.2	3.0
	35	3.5	-	-	1.8	3.5	3.9	500	1080	1230	5.0	4.7	4.5
	50	5.0	-	-	1.8	5.0	5.5	500	1700	2000	7.8	7.5	7.2
2 room	20 + 20	2.00	2.00	-	3.0	4.0	5.7	570	910	1800	4.2	4.0	3.8
	20 + 25	1.91	2.39	-	3.0	4.3	5.9	570	1070	1980	4.9	4.7	4.5
	20 + 35	1.82	3.18	-	3.0	5.0	6.2	570	1430	2070	6.6	6.3	6.0
	20 + 50	1.71	4.29	-	3.0	6.0	6.5	570	1960	2150	9.0	8.6	8.2
	25 + 25	2.35	2.35	-	3.0	4.7	6.2	570	1270	2070	5.8	5.6	5.3
	25 + 35	2.21	3.09	-	3.0	5.3	6.5	570	1600	2150	7.3	7.0	6.7
	25 + 50	2.00	4.00	-	3.0	6.0	6.5	570	1960	2150	9.0	8.6	8.2
	35 + 35	3.00	3.00	-	3.0	6.0	6.5	570	1960	2150	9.0	8.6	8.2
	35 + 50	2.47	3.53	-	3.0	6.0	6.5	570	1960	2150	9.0	8.6	8.2
3 room	20 + 20 + 20	1.67	1.67	1.67	3.4	5.0	7.1	690	1080	2150	5.0	4.7	4.5
	20 + 20 + 25	1.60	1.60	2.00	3.4	5.2	7.1	690	1160	2150	5.3	5.1	4.9
	20 + 20 + 35	1.49	1.49	2.61	3.4	5.6	7.1	690	1330	2150	6.1	5.8	5.6
	20 + 25 + 25	1.54	1.93	1.93	3.4	5.4	7.1	690	1260	2150	5.8	5.5	5.3
	20 + 25 + 35	1.45	1.81	2.54	3.4	5.8	7.1	690	1430	2150	6.6	6.3	6.0
	25 + 25 + 25	1.87	1.87	1.87	3.4	5.6	7.1	690	1330	2150	6.1	5.8	5.6
	25 + 25 + 35	1.76	1.76	2.47	3.4	6.0	7.1	690	1490	2150	6.8	6.5	6.3

<Heating>

Indoor unit combination		Heating capacity (kW)						Power consumption (W)			Standard current (A)		
		Room heating capacity (kW)			Total capacity (kW)			Min.	Standard	Max.	220V	230V	240V
		A	B	C	Min.	Standard	max.						
1 room	20	3.0	-	-	1.4	3.0	3.7	480	820	1100	3.8	3.6	3.5
	25	3.4	-	-	1.4	3.4	4.2	480	980	1240	4.5	4.3	4.1
	35	4.5	-	-	1.4	4.5	5.0	480	1280	1490	5.9	5.6	5.4
	50	5.8	-	-	1.4	5.8	6.2	480	1740	2260	8.0	7.6	7.3
2 room	20 + 20	2.95	2.95	-	2.0	5.9	7.3	540	1480	2580	6.8	6.5	6.2
	20 + 25	2.67	3.33	-	2.0	6.0	7.3	540	1530	2580	7.0	6.7	6.4
	20 + 35	2.29	4.01	-	2.0	6.3	7.3	540	1620	2580	7.4	7.1	6.8
	20 + 50	1.89	4.71	-	2.0	6.6	7.3	540	1710	2580	7.9	7.5	7.2
	25 + 25	3.05	3.05	-	2.0	6.1	7.3	540	1560	2580	7.2	6.9	6.6
	25 + 35	2.67	3.73	-	2.0	6.4	7.3	540	1650	2580	7.6	7.2	6.9
	25 + 50	2.20	4.40	-	2.0	6.6	7.3	540	1710	2580	7.9	7.5	7.2
	35 + 35	3.30	3.30	-	2.0	6.6	7.3	540	1710	2580	7.9	7.5	7.2
	35 + 50	2.72	3.88	-	2.0	6.6	7.3	540	1710	2580	7.9	7.5	7.2
3 room	20 + 20 + 20	2.00	2.00	2.00	3.0	6.0	7.5	600	1310	2580	6.0	5.8	5.5
	20 + 20 + 25	1.91	1.91	2.38	3.0	6.2	7.5	600	1400	2580	6.4	6.1	5.9
	20 + 20 + 35	1.76	1.76	3.08	3.0	6.6	7.5	600	1560	2580	7.2	6.9	6.6
	20 + 25 + 25	1.83	2.29	2.29	3.0	6.4	7.5	600	1470	2580	6.7	6.5	6.2
	20 + 25 + 35	1.70	2.13	2.98	3.0	6.8	7.5	600	1620	2580	7.4	7.1	6.8
	25 + 25 + 25	2.20	2.20	2.20	3.0	6.6	7.5	600	1560	2580	7.2	6.9	6.6
	25 + 25 + 35	2.06	2.06	2.88	3.0	7.0	7.5	600	1690	2580	7.8	7.4	7.1

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(b) Indoor unit except SRK∗∗ZJX-S models only

<Cooling>

Indoor unit combination		Cooling capacity (kW)						Power consumption (W)			Standard current (A)		
		Room cooling capacity (kW)			Total capacity (kW)			Min.	Standard	Max.	220V	230V	240V
		A	B	C	Min.	Standard	max.						
1 room	20	2.0	-	-	1.8	2.0	2.7	500	580	900	2.7	2.5	2.4
	25	2.5	-	-	1.8	2.5	3.2	500	760	1070	3.5	3.3	3.2
	35	3.5	-	-	1.8	3.5	3.7	500	1140	1230	5.2	5.0	4.8
	50	5.0	-	-	1.8	5.0	5.3	500	1790	2000	8.2	7.9	7.5
2 room	20 + 20	2.00	2.00	-	3.0	4.0	5.6	570	950	1800	4.4	4.2	4.0
	20 + 25	1.91	2.39	-	3.0	4.3	5.8	570	1110	1980	5.1	4.9	4.7
	20 + 35	1.82	3.18	-	3.0	5.0	6.1	570	1490	2070	6.8	6.5	6.3
	20 + 50	1.71	4.29	-	3.0	6.0	6.3	570	2040	2150	9.4	9.0	8.6
	25 + 25	2.35	2.35	-	3.0	4.7	6.1	570	1320	2070	6.1	5.8	5.6
	25 + 35	2.21	3.09	-	3.0	5.3	6.3	570	1660	2150	7.6	7.3	7.0
	25 + 50	2.00	4.00	-	3.0	6.0	6.3	570	2040	2150	9.4	9.0	8.6
	35 + 35	3.00	3.00	-	3.0	6.0	6.3	570	2040	2150	9.4	9.0	8.6
	35 + 50	2.47	3.53	-	3.0	6.0	6.3	570	2040	2150	9.4	9.0	8.6
3 room	20 + 20 + 20	1.67	1.67	1.67	3.4	5.0	6.9	690	1120	2150	5.3	5.1	4.9
	20 + 20 + 25	1.60	1.60	2.00	3.4	5.2	6.9	690	1200	2150	5.7	5.4	5.2
	20 + 20 + 35	1.49	1.49	2.61	3.4	5.6	6.9	690	1370	2150	6.5	6.2	5.9
	20 + 25 + 25	1.54	1.93	1.93	3.4	5.4	6.9	690	1300	2150	6.2	5.9	5.6
	20 + 25 + 35	1.45	1.81	2.54	3.4	5.8	6.9	690	1470	2150	7.0	6.7	6.4
	25 + 25 + 25	1.87	1.87	1.87	3.4	5.6	6.9	690	1370	2150	6.5	6.2	5.9
	25 + 25 + 35	1.76	1.76	2.47	3.4	6.0	6.9	690	1540	2150	7.3	7.0	6.7

<Heating>

Indoor unit combination		Heating capacity (kW)						Power consumption (W)			Standard current (A)		
		Room heating capacity (kW)			Total capacity (kW)			Min.	Standard	Max.	220V	230V	240V
		A	B	C	Min.	Standard	max.						
1 room	20	3.0	-	-	1.4	3.0	3.5	480	1020	1100	4.7	4.5	4.3
	25	3.4	-	-	1.4	3.4	4.0	480	1180	1240	5.4	5.2	5.0
	35	4.5	-	-	1.4	4.5	4.8	480	1470	1490	6.7	6.5	6.2
	50	5.8	-	-	1.4	5.8	6.0	480	1910	2260	8.8	8.4	8.0
2 room	20 + 20	2.95	2.95	-	2.0	5.9	7.0	540	1510	2580	6.9	6.6	6.4
	20 + 25	2.67	3.33	-	2.0	6.0	7.0	540	1560	2580	7.2	6.9	6.6
	20 + 35	2.29	4.01	-	2.0	6.3	7.0	540	1650	2580	7.6	7.2	6.9
	20 + 50	1.89	4.71	-	2.0	6.6	7.0	540	1740	2580	8.0	7.6	7.3
	25 + 25	3.05	3.05	-	2.0	6.1	7.0	540	1590	2580	7.3	7.0	6.7
	25 + 35	2.67	3.73	-	2.0	6.4	7.0	540	1680	2580	7.7	7.4	7.1
	25 + 50	2.20	4.40	-	2.0	6.6	7.0	540	1740	2580	8.0	7.6	7.3
	35 + 35	3.30	3.30	-	2.0	6.6	7.0	540	1740	2580	8.0	7.6	7.3
	35 + 50	2.72	3.88	-	2.0	6.6	7.0	540	1740	2580	8.0	7.6	7.3
3 room	20 + 20 + 20	2.00	2.00	2.00	3.0	6.0	7.3	600	1340	2580	6.3	6.1	5.8
	20 + 20 + 25	1.91	1.91	2.38	3.0	6.2	7.3	600	1430	2580	6.8	6.5	6.2
	20 + 20 + 35	1.76	1.76	3.08	3.0	6.6	7.3	600	1600	2580	7.6	7.2	6.9
	20 + 25 + 25	1.83	2.29	2.29	3.0	6.4	7.3	600	1510	2580	7.1	6.8	6.6
	20 + 25 + 35	1.70	2.13	2.98	3.0	6.8	7.3	600	1660	2580	7.9	7.5	7.2
	25 + 25 + 25	2.20	2.20	2.20	3.0	6.6	7.3	600	1600	2580	7.6	7.2	6.9
	25 + 25 + 35	2.06	2.06	2.88	3.0	7.0	7.3	600	1730	2580	8.2	7.8	7.5

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(4) Model SCM71ZJ-S
(a) Indoor unit SRK**ZJX-S models only

<Cooling>

Indoor unit combination		Cooling capacity (kW)							Power consumption (W)			Standard current (A)		
		Room cooling capacity (kW)				Total capacity (kW)			Min.	Standard	Max.	220V	230V	240V
		A	B	C	D	Min.	Standard	Max.						
1 room	20	2.0	-	-	-	1.8	2.0	2.8	480	500	950	2.3	2.2	2.1
	25	2.5	-	-	-	1.8	2.5	3.4	480	680	1080	3.1	3.0	2.9
	35	3.5	-	-	-	1.8	3.5	3.9	480	1010	1240	4.6	4.4	4.3
	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
2 room	20 + 20	2.00	2.00	-	-	3.0	4.0	6.1	550	850	1910	3.9	3.7	3.6
	20 + 25	2.00	2.50	-	-	3.0	4.5	6.4	550	1070	2060	4.9	4.7	4.5
	20 + 35	2.00	3.50	-	-	3.0	5.5	6.9	550	1470	2320	6.7	6.5	6.2
	20 + 50	1.94	4.86	-	-	3.0	6.8	7.7	550	2030	2750	9.3	8.9	8.5
	20 + 60	1.70	5.10	-	-	3.0	6.8	7.7	550	2030	2750	9.3	8.9	8.5
	25 + 25	2.50	2.50	-	-	3.0	5.0	6.8	550	1250	2270	5.7	5.5	5.3
	25 + 35	2.46	3.44	-	-	3.0	5.9	7.2	550	1660	2470	7.6	7.3	7.0
	25 + 50	2.27	4.53	-	-	3.0	6.8	7.7	550	2030	2750	9.3	8.9	8.5
	25 + 60	2.00	4.80	-	-	3.0	6.8	7.7	550	2030	2750	9.3	8.9	8.5
	35 + 35	3.40	3.40	-	-	3.0	6.8	7.6	550	2030	2680	9.3	8.9	8.5
	35 + 50	2.80	4.00	-	-	3.0	6.8	7.7	550	2030	2750	9.3	8.9	8.5
	35 + 60	2.51	4.29	-	-	3.0	6.8	7.7	550	2030	2750	9.3	8.9	8.5
	50 + 50	3.40	3.40	-	-	3.0	6.8	7.7	550	2030	2750	9.3	8.9	8.5
	50 + 60	3.09	3.71	-	-	3.0	6.8	7.7	550	2030	2750	9.3	8.9	8.5
	60 + 60	3.40	3.40	-	-	3.0	6.8	7.7	550	2030	2750	9.3	8.9	8.5
3 room	20 + 20 + 20	2.00	2.00	2.00	-	3.7	6.0	8.2	670	1380	2750	6.3	6.1	5.8
	20 + 20 + 25	2.00	2.00	2.50	-	3.7	6.5	8.2	670	1560	2750	7.2	6.9	6.6
	20 + 20 + 35	1.84	1.84	3.22	-	3.7	6.9	8.2	670	1830	2750	8.4	8.0	7.7
	20 + 20 + 50	1.53	1.53	3.83	-	3.7	6.9	8.2	670	1830	2750	8.4	8.0	7.7
	20 + 20 + 60	1.38	1.38	4.14	-	3.7	6.9	8.2	670	1830	2750	8.4	8.0	7.7
	20 + 25 + 25	1.94	2.43	2.43	-	3.7	6.8	8.2	670	1740	2750	8.0	7.6	7.3
	20 + 25 + 35	1.73	2.16	3.02	-	3.7	6.9	8.2	670	1830	2750	8.4	8.0	7.7
	20 + 25 + 50	1.45	1.82	3.63	-	3.7	6.9	8.2	670	1830	2750	8.4	8.0	7.7
	20 + 25 + 60	1.31	1.64	3.94	-	3.7	6.9	8.2	670	1830	2750	8.4	8.0	7.7
	20 + 35 + 35	1.53	2.68	2.68	-	3.7	6.9	8.2	670	1830	2750	8.4	8.0	7.7
	20 + 35 + 50	1.31	2.30	3.29	-	3.7	6.9	8.2	670	1830	2750	8.4	8.0	7.7
	20 + 35 + 60	1.20	2.10	3.60	-	3.7	6.9	8.2	670	1830	2750	8.4	8.0	7.7
	20 + 50 + 50	1.15	2.88	2.88	-	3.7	6.9	8.2	670	1830	2750	8.4	8.0	7.7
	25 + 25 + 25	2.30	2.30	2.30	-	3.7	6.9	8.2	670	1830	2750	8.4	8.0	7.7
	25 + 25 + 35	2.03	2.03	2.84	-	3.7	6.9	8.2	670	1830	2750	8.4	8.0	7.7
	25 + 25 + 50	1.73	1.73	3.45	-	3.7	6.9	8.2	670	1830	2750	8.4	8.0	7.7
	25 + 25 + 60	1.57	1.57	3.76	-	3.7	6.9	8.2	670	1830	2750	8.4	8.0	7.7
	25 + 35 + 35	1.82	2.54	2.54	-	3.7	6.9	8.2	670	1830	2750	8.4	8.0	7.7
	25 + 35 + 50	1.57	2.20	3.14	-	3.7	6.9	8.2	670	1830	2750	8.4	8.0	7.7
	25 + 35 + 60	1.44	2.01	3.45	-	3.7	6.9	8.2	670	1830	2750	8.4	8.0	7.7
	25 + 50 + 50	1.38	2.76	2.76	-	3.7	6.9	8.2	670	1830	2750	8.4	8.0	7.7
	35 + 35 + 35	2.30	2.30	2.30	-	3.7	6.9	8.2	670	1830	2750	8.4	8.0	7.7
	35 + 35 + 50	2.01	2.01	2.88	-	3.7	6.9	8.2	670	1830	2750	8.4	8.0	7.7

<Cooling>

Indoor unit combination		Cooling capacity (kW)							Power consumption (W)			Standard current (A)		
		Room cooling capacity (kW)				Total capacity (kW)			Min.	Standard	Max.	220V	230V	240V
		A	B	C	D	Min.	Standard	Max.						
4 room	20 + 20 + 20 + 20	1.73	1.73	1.73	1.73	4.4	6.9	8.8	890	1700	2750	7.8	7.5	7.2
	20 + 20 + 20 + 25	1.62	1.62	1.62	2.03	4.4	6.9	8.8	890	1700	2750	7.8	7.5	7.2
	20 + 20 + 20 + 35	1.49	1.49	1.49	2.62	4.4	7.1	8.8	890	1740	2750	8.0	7.6	7.3
	20 + 20 + 20 + 50	1.29	1.29	1.29	3.23	4.4	7.1	8.8	890	1740	2750	8.0	7.6	7.3
	20 + 20 + 20 + 60	1.18	1.18	1.18	3.55	4.4	7.1	8.8	890	1740	2750	8.0	7.6	7.3
	20 + 20 + 25 + 25	1.53	1.53	1.92	1.92	4.4	6.9	8.8	890	1700	2750	7.8	7.5	7.2
	20 + 20 + 25 + 35	1.42	1.42	1.78	2.49	4.4	7.1	8.8	890	1740	2750	8.0	7.6	7.3
	20 + 20 + 25 + 50	1.23	1.23	1.54	3.09	4.4	7.1	8.8	890	1740	2750	8.0	7.6	7.3
	20 + 20 + 25 + 60	1.14	1.14	1.42	3.41	4.4	7.1	8.8	890	1740	2750	8.0	7.6	7.3
	20 + 20 + 35 + 35	1.29	1.29	2.26	2.26	4.4	7.1	8.8	890	1740	2750	8.0	7.6	7.3
	20 + 20 + 35 + 50	1.14	1.14	1.99	2.84	4.4	7.1	8.8	890	1740	2750	8.0	7.6	7.3
	20 + 25+ 25 + 25	1.49	1.87	1.87	1.87	4.4	7.1	8.8	890	1740	2750	8.0	7.6	7.3
	20 + 25 + 25 + 35	1.35	1.69	1.69	2.37	4.4	7.1	8.8	890	1740	2750	8.0	7.6	7.3
	20 + 25 + 25 + 50	1.18	1.48	1.48	2.96	4.4	7.1	8.8	890	1740	2750	8.0	7.6	7.3
	20 + 25 + 35 + 35	1.23	1.54	2.16	2.16	4.4	7.1	8.8	890	1740	2750	8.0	7.6	7.3
	20 + 35 + 35 + 35	1.14	1.99	1.99	1.99	4.4	7.1	8.8	890	1740	2750	8.0	7.6	7.3
	25 + 25 + 25 + 25	1.78	1.78	1.78	1.78	4.4	7.1	8.8	890	1740	2750	8.0	7.6	7.3
	25 + 25 + 25 + 35	1.61	1.61	1.61	2.26	4.4	7.1	8.8	890	1740	2750	8.0	7.6	7.3
	25 + 25 + 25 + 50	1.42	1.42	1.42	2.84	4.4	7.1	8.8	890	1740	2750	8.0	7.6	7.3
	25 + 25 + 35 + 35	1.48	1.48	2.07	2.07	4.4	7.1	8.8	890	1740	2750	8.0	7.6	7.3

<Heating>

Indoor unit combination		Heating capacity (kW)							Power consumption (W)			Standard current (A)		
		Room heating capacity (kW)				Total capacity (kW)			Min.	Standard	Max.	220V	230V	240V
		A	B	C	D	Min.	Standard	Max.						
1 room	20	3.0	-	-	-	1.5	3.0	3.7	600	840	1330	3.9	3.7	3.5
	25	3.4	-	-	-	1.5	3.4	4.2	600	1000	1510	4.6	4.4	4.2
	35	4.5	-	-	-	1.5	4.5	5.0	600	1330	1790	6.1	5.8	5.6
	50	5.8	-	-	-	1.5	5.8	6.5	600	1780	2310	8.2	7.8	7.5
	60	6.8	-	-	-	1.5	6.8	7.5	600	2100	2660	9.6	9.2	8.8
2 room	20 + 20	2.70	2.70	-	-	2.1	5.4	7.4	630	1340	1870	6.2	5.9	5.6
	20 + 25	2.62	3.28	-	-	2.1	5.9	7.7	630	1530	2130	7.0	6.7	6.4
	20 + 35	2.51	4.39	-	-	2.1	6.9	8.3	630	1910	2650	8.8	8.4	8.0
	20 + 50	2.34	5.86	-	-	2.1	8.2	8.7	630	2430	3350	11.2	10.7	10.2
	20 + 60	2.05	6.15	-	-	2.1	8.2	8.7	630	2430	3350	11.2	10.7	10.2
	25 + 25	3.20	3.20	-	-	2.1	6.4	8.1	630	1700	2480	7.8	7.5	7.2
	25 + 35	3.08	4.32	-	-	2.1	7.4	8.6	630	2090	2910	9.6	9.2	8.8
	25 + 50	2.73	5.47	-	-	2.1	8.2	8.7	630	2430	3350	11.2	10.7	10.2
	25 + 60	2.41	5.79	-	-	2.1	8.2	8.7	630	2430	3350	11.2	10.7	10.2
	35 + 35	4.10	4.10	-	-	2.1	8.2	8.7	630	2430	3350	11.2	10.7	10.2
	35 + 50	3.38	4.82	-	-	2.1	8.2	8.7	630	2430	3350	11.2	10.7	10.2
	35 + 60	3.02	5.18	-	-	2.1	8.2	8.7	630	2430	3350	11.2	10.7	10.2
	50 + 50	4.10	4.10	-	-	2.1	8.2	8.7	630	2430	3350	11.2	10.7	10.2
	50 + 60	3.73	4.47	-	-	2.1	8.2	8.7	630	2430	3350	11.2	10.7	10.2
	60 + 60	4.10	4.10	-	-	2.1	8.2	8.7	630	2430	3350	11.2	10.7	10.2

<Heating>

Indoor unit combination		Heating capacity (kW)							Power consumption (W)			Standard current (A)		
		Room heating capacity (kW)				Total capacity (kW)			Min.	Standard	Max.	220V	230V	240V
		A	B	C	D	Min.	Standard	Max.						
3 room	20 + 20 + 20	2.57	2.57	2.57	-	3.2	7.7	9.1	660	1830	3350	8.4	8.0	7.7
	20 + 20 + 25	2.46	2.46	3.08	-	3.2	8.0	9.1	660	1930	3350	8.9	8.5	8.1
	20 + 20 + 35	2.24	2.24	3.92	-	3.2	8.4	9.1	660	2060	3350	9.5	9.0	8.7
	20 + 20 + 50	1.87	1.87	4.67	-	3.2	8.4	9.1	660	2060	3350	9.5	9.0	8.7
	20 + 20 + 60	1.68	1.68	5.04	-	3.2	8.4	9.1	660	2060	3350	9.5	9.0	8.7
	20 + 25 + 25	2.34	2.93	2.93	-	3.2	8.2	9.1	660	1990	3350	9.1	8.7	8.4
	20 + 25 + 35	2.10	2.63	3.68	-	3.2	8.4	9.1	660	2060	3350	9.5	9.0	8.7
	20 + 25 + 50	1.77	2.21	4.42	-	3.2	8.4	9.1	660	2060	3350	9.5	9.0	8.7
	20 + 25 + 60	1.60	2.00	4.80	-	3.2	8.4	9.1	660	2060	3350	9.5	9.0	8.7
	20 + 35 + 35	1.87	3.27	3.27	-	3.2	8.4	9.1	660	2060	3350	9.5	9.0	8.7
	20 + 35 + 50	1.60	2.80	4.00	-	3.2	8.4	9.1	660	2060	3350	9.5	9.0	8.7
	20 + 35 + 60	1.46	2.56	4.38	-	3.2	8.4	9.1	660	2060	3350	9.5	9.0	8.7
	20 + 50 + 50	1.40	3.50	3.50	-	3.2	8.4	9.1	660	2060	3350	9.5	9.0	8.7
	25 + 25 + 25	2.80	2.80	2.80	-	3.2	8.4	9.1	660	2060	3350	9.5	9.0	8.7
	25 + 25 + 35	2.47	2.47	3.46	-	3.2	8.4	9.1	660	2060	3350	9.5	9.0	8.7
	25 + 25 + 50	2.10	2.10	4.20	-	3.2	8.4	9.1	660	2060	3350	9.5	9.0	8.7
	25 + 25 + 60	1.91	1.91	4.58	-	3.2	8.4	9.1	660	2060	3350	9.5	9.0	8.7
	25 + 35 + 35	2.21	3.09	3.09	-	3.2	8.4	9.1	660	2060	3350	9.5	9.0	8.7
	25 + 35 + 50	1.91	2.67	3.82	-	3.2	8.4	9.1	660	2060	3350	9.5	9.0	8.7
	25 + 35 + 60	1.75	2.45	4.20	-	3.2	8.4	9.1	660	2060	3350	9.5	9.0	8.7
	25 + 50 + 50	1.68	3.36	3.36	-	3.2	8.4	9.1	660	2060	3350	9.5	9.0	8.7
	35 + 35 + 35	2.80	2.80	2.80	-	3.2	8.4	9.1	660	2060	3350	9.5	9.0	8.7
	35 + 35 + 50	2.45	2.45	3.50	-	3.2	8.4	9.1	660	2060	3350	9.5	9.0	8.7
4 room	20 + 20 + 20 + 20	2.10	2.10	2.10	2.10	3.6	8.4	9.4	800	1960	3350	9.0	8.6	8.2
	20 + 20 + 20 + 25	1.98	1.98	1.98	2.47	3.6	8.4	9.4	800	1960	3350	9.0	8.6	8.2
	20 + 20 + 20 + 35	1.79	1.79	1.79	3.13	3.6	8.5	9.4	800	1980	3350	9.1	8.7	8.3
	20 + 20 + 20 + 50	1.56	1.56	1.56	3.91	3.6	8.6	9.4	800	2000	3350	9.2	8.8	8.4
	20 + 20 + 20 + 60	1.43	1.43	1.43	4.30	3.6	8.6	9.4	800	2000	3350	9.2	8.8	8.4
	20 + 20 + 25 + 25	1.89	1.89	2.36	2.36	3.6	8.5	9.4	800	1980	3350	9.1	8.7	8.3
	20 + 20 + 25 + 35	1.70	1.70	2.13	2.98	3.6	8.5	9.4	800	1980	3350	9.1	8.7	8.3
	20 + 20 + 25 + 50	1.50	1.50	1.87	3.74	3.6	8.6	9.4	800	2000	3350	9.2	8.8	8.4
	20 + 20 + 25 + 60	1.38	1.38	1.72	4.13	3.6	8.6	9.4	800	2000	3350	9.2	8.8	8.4
	20 + 20 + 35 + 35	1.56	1.56	2.74	2.74	3.6	8.6	9.4	800	2000	3350	9.2	8.8	8.4
	20 + 20 + 35 + 50	1.38	1.38	2.41	3.44	3.6	8.6	9.4	800	2000	3350	9.2	8.8	8.4
	20 + 25+ 25 + 25	1.79	2.24	2.24	2.24	3.6	8.5	9.4	800	1980	3350	9.1	8.7	8.3
	20 + 25 + 25 + 35	1.64	2.05	2.05	2.87	3.6	8.6	9.4	800	2000	3350	9.2	8.8	8.4
	20 + 25 + 25 + 50	1.43	1.79	1.79	3.58	3.6	8.6	9.4	800	2000	3350	9.2	8.8	8.4
	20 + 25 + 35 + 35	1.50	1.87	2.62	2.62	3.6	8.6	9.4	800	2000	3350	9.2	8.8	8.4
	20 + 35 + 35 + 35	1.38	2.41	2.41	2.41	3.6	8.6	9.4	800	2000	3350	9.2	8.8	8.4
	25 + 25 + 25 + 25	2.13	2.13	2.13	2.13	3.6	8.5	9.4	800	1980	3350	9.1	8.7	8.3
	25 + 25 + 25 + 35	1.95	1.95	1.95	2.74	3.6	8.6	9.4	800	2000	3350	9.2	8.8	8.4
	25 + 25 + 25 + 50	1.72	1.72	1.72	3.44	3.6	8.6	9.4	800	2000	3350	9.2	8.8	8.4
	25 + 25 + 35 + 35	1.79	1.79	2.51	2.51	3.6	8.6	9.4	800	2000	3350	9.2	8.8	8.4

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(b) Indoor unit except SRKZJX-S models only**

<Cooling>

Indoor unit combination		Cooling capacity (kW)							Power consumption (W)			Standard current (A)		
		Room cooling capacity (kW)				Total capacity (kW)			Min.	Standard	Max.	220V	230V	240V
		A	B	C	D	Min.	Standard	Max.						
1 room	20	2.0	-	-	-	1.8	2.0	2.7	480	530	950	2.4	2.3	2.2
	25	2.5	-	-	-	1.8	2.5	3.2	480	730	1080	3.4	3.2	3.1
	35	3.5	-	-	-	1.8	3.5	3.7	480	1120	1240	5.1	4.9	4.7
	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
2 room	20 + 20	2.00	2.00	-	-	3.0	4.0	5.8	550	930	1910	4.3	4.1	3.9
	20 + 25	2.00	2.50	-	-	3.0	4.5	6.1	550	1170	2060	5.4	5.1	4.9
	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	6.8	7.3	550	2150	2750	9.9	9.4	9.0
	20 + 60	1.70	5.10	-	-	3.0	6.8	7.3	550	2150	2750	9.9	9.4	9.0
	25 + 25	2.50	2.50	-	-	3.0	5.0	6.5	550	1360	2270	6.2	6.0	5.7
	25 + 35	2.46	3.44	-	-	3.0	5.9	6.8	550	1780	2470	8.2	7.8	7.5
	25 + 50	2.27	4.53	-	-	3.0	6.8	7.3	550	2150	2750	9.9	9.4	9.0
	25 + 60	2.00	4.80	-	-	3.0	6.8	7.3	550	2150	2750	9.9	9.4	9.0
	35 + 35	3.40	3.40	-	-	3.0	6.8	7.2	550	2150	2680	9.9	9.4	9.0
	35 + 50	2.80	4.00	-	-	3.0	6.8	7.3	550	2150	2750	9.9	9.4	9.0
	35 + 60	2.51	4.29	-	-	3.0	6.8	7.3	550	2150	2750	9.9	9.4	9.0
	50 + 50	3.40	3.40	-	-	3.0	6.8	7.3	550	2150	2750	9.9	9.4	9.0
	50 + 60	3.09	3.71	-	-	3.0	6.8	7.3	550	2150	2750	9.9	9.4	9.0
	60 + 60	3.40	3.40	-	-	3.0	6.8	7.3	550	2150	2750	9.9	9.4	9.0
3 room	20 + 20 + 20	2.00	2.00	2.00	-	3.7	6.0	7.8	670	1450	2750	6.7	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	6.9	7.8	670	1910	2750	8.8	8.4	8.0
	20 + 20 + 50	1.53	1.53	3.83	-	3.7	6.9	7.8	670	1910	2750	8.8	8.4	8.0
	20 + 20 + 60	1.38	1.38	4.14	-	3.7	6.9	7.8	670	1910	2750	8.8	8.4	8.0
	20 + 25 + 25	1.94	2.43	2.43	-	3.7	6.8	7.8	670	1820	2750	8.4	8.0	7.7
	20 + 25 + 35	1.73	2.16	3.02	-	3.7	6.9	7.8	670	1910	2750	8.8	8.4	8.0
	20 + 25 + 50	1.45	1.82	3.63	-	3.7	6.9	7.8	670	1910	2750	8.8	8.4	8.0
	20 + 25 + 60	1.31	1.64	3.94	-	3.7	6.9	7.8	670	1910	2750	8.8	8.4	8.0
	20 + 35 + 35	1.53	2.68	2.68	-	3.7	6.9	7.8	670	1910	2750	8.8	8.4	8.0
	20 + 35 + 50	1.31	2.30	3.29	-	3.7	6.9	7.8	670	1910	2750	8.8	8.4	8.0
	20 + 35 + 60	1.20	2.10	3.60	-	3.7	6.9	7.8	670	1910	2750	8.8	8.4	8.0
	20 + 50 + 50	1.15	2.88	2.88	-	3.7	6.9	7.8	670	1910	2750	8.8	8.4	8.0
	25 + 25 + 25	2.30	2.30	2.30	-	3.7	6.9	7.8	670	1910	2750	8.8	8.4	8.0
	25 + 25 + 35	2.03	2.03	2.84	-	3.7	6.9	7.8	670	1910	2750	8.8	8.4	8.0
	25 + 25 + 50	1.73	1.73	3.45	-	3.7	6.9	7.8	670	1910	2750	8.8	8.4	8.0
	25 + 25 + 60	1.57	1.57	3.76	-	3.7	6.9	7.8	670	1910	2750	8.8	8.4	8.0
	25 + 35 + 35	1.82	2.54	2.54	-	3.7	6.9	7.8	670	1910	2750	8.8	8.4	8.0
	25 + 35 + 50	1.57	2.20	3.14	-	3.7	6.9	7.8	670	1910	2750	8.8	8.4	8.0
	25 + 35 + 60	1.44	2.01	3.45	-	3.7	6.9	7.8	670	1910	2750	8.8	8.4	8.0
	25 + 50 + 50	1.38	2.76	2.76	-	3.7	6.9	7.8	670	1910	2750	8.8	8.4	8.0
	35 + 35 + 35	2.30	2.30	2.30	-	3.7	6.9	7.8	670	1910	2750	8.8	8.4	8.0
	35 + 35 + 50	2.01	2.01	2.88	-	3.7	6.9	7.8	670	1910	2750	8.8	8.4	8.0

<Cooling>

Indoor unit combination		Cooling capacity (kW)							Power consumption (W)			Standard current (A)		
		Room cooling capacity (kW)				Total capacity (kW)			Min.	Standard	Max.	220V	230V	240V
		A	B	C	D	Min.	Standard	Max.						
4 room	20 + 20 + 20 + 20	1.73	1.73	1.73	1.73	4.4	6.9	8.3	890	1750	2750	8.0	7.7	7.4
	20 + 20 + 20 + 25	1.62	1.62	1.62	2.03	4.4	6.9	8.3	890	1750	2750	8.0	7.7	7.4
	20 + 20 + 20 + 35	1.49	1.49	1.49	2.62	4.4	7.1	8.3	890	1790	2750	8.2	7.9	7.5
	20 + 20 + 20 + 50	1.29	1.29	1.29	3.23	4.4	7.1	8.3	890	1790	2750	8.2	7.9	7.5
	20 + 20 + 20 + 60	1.18	1.18	1.18	3.55	4.4	7.1	8.3	890	1790	2750	8.2	7.9	7.5
	20 + 20 + 25 + 25	1.53	1.53	1.92	1.92	4.4	6.9	8.3	890	1750	2750	8.0	7.7	7.4
	20 + 20 + 25 + 35	1.42	1.42	1.78	2.49	4.4	7.1	8.3	890	1790	2750	8.2	7.9	7.5
	20 + 20 + 25 + 50	1.23	1.23	1.54	3.09	4.4	7.1	8.3	890	1790	2750	8.2	7.9	7.5
	20 + 20 + 25 + 60	1.14	1.14	1.42	3.41	4.4	7.1	8.3	890	1790	2750	8.2	7.9	7.5
	20 + 20 + 35 + 35	1.29	1.29	2.26	2.26	4.4	7.1	8.3	890	1790	2750	8.2	7.9	7.5
	20 + 20 + 35 + 50	1.14	1.14	1.99	2.84	4.4	7.1	8.3	890	1790	2750	8.2	7.9	7.5
	20 + 25 + 25 + 25	1.49	1.87	1.87	1.87	4.4	7.1	8.3	890	1790	2750	8.2	7.9	7.5
	20 + 25 + 25 + 35	1.35	1.69	1.69	2.37	4.4	7.1	8.3	890	1790	2750	8.2	7.9	7.5
	20 + 25 + 25 + 50	1.18	1.48	1.48	2.96	4.4	7.1	8.3	890	1790	2750	8.2	7.9	7.5
	20 + 25 + 35 + 35	1.23	1.54	2.16	2.16	4.4	7.1	8.3	890	1790	2750	8.2	7.9	7.5
	20 + 35 + 35 + 35	1.14	1.99	1.99	1.99	4.4	7.1	8.3	890	1790	2750	8.2	7.9	7.5
	25 + 25 + 25 + 25	1.78	1.78	1.78	1.78	4.4	7.1	8.3	890	1790	2750	8.2	7.9	7.5
	25 + 25 + 25 + 35	1.61	1.61	1.61	2.26	4.4	7.1	8.3	890	1790	2750	8.2	7.9	7.5
	25 + 25 + 25 + 50	1.42	1.42	1.42	2.84	4.4	7.1	8.3	890	1790	2750	8.2	7.9	7.5
	25 + 25 + 35 + 35	1.48	1.48	2.07	2.07	4.4	7.1	8.3	890	1790	2750	8.2	7.9	7.5

<Heating>

Indoor unit combination		Heating capacity (kW)							Power consumption (W)			Standard current (A)		
		Room heating capacity (kW)				Total capacity (kW)			Min.	Standard	Max.	220V	230V	240V
		A	B	C	D	Min.	Standard	Max.						
1 room	20	3.0	-	-	-	1.5	3.0	3.5	600	1060	1330	4.9	4.7	4.5
	25	3.4	-	-	-	1.5	3.4	4.0	600	1220	1510	5.6	5.4	5.1
	35	4.5	-	-	-	1.5	4.5	4.8	600	1510	1790	6.9	6.6	6.4
	50	5.8	-	-	-	1.5	5.8	6.2	600	1950	2310	9.0	8.6	8.2
	60	6.8	-	-	-	1.5	6.8	7.1	600	2240	2660	10.3	9.8	9.4
2 room	20 + 20	2.70	2.70	-	-	2.1	5.4	7.0	630	1370	1870	6.3	6.0	5.8
	20 + 25	2.62	3.28	-	-	2.1	5.9	7.3	630	1560	2130	7.2	6.9	6.6
	20 + 35	2.51	4.39	-	-	2.1	6.9	7.9	630	1950	2650	9.0	8.6	8.2
	20 + 50	2.34	5.86	-	-	2.1	8.2	8.3	630	2490	3350	11.4	10.9	10.5
	20 + 60	2.05	6.15	-	-	2.1	8.2	8.3	630	2490	3350	11.4	10.9	10.5
	25 + 25	3.20	3.20	-	-	2.1	6.4	7.7	630	1740	2480	8.0	7.6	7.3
	25 + 35	3.08	4.32	-	-	2.1	7.4	8.2	630	2130	2910	9.8	9.4	9.0
	25 + 50	2.73	5.47	-	-	2.1	8.2	8.3	630	2490	3350	11.4	10.9	10.5
	25 + 60	2.41	5.79	-	-	2.1	8.2	8.3	630	2490	3350	11.4	10.9	10.5
	35 + 35	4.10	4.10	-	-	2.1	8.2	8.3	630	2490	3350	11.4	10.9	10.5
	35 + 50	3.38	4.82	-	-	2.1	8.2	8.3	630	2490	3350	11.4	10.9	10.5
	35 + 60	3.02	5.18	-	-	2.1	8.2	8.3	630	2490	3350	11.4	10.9	10.5
	50 + 50	4.10	4.10	-	-	2.1	8.2	8.3	630	2490	3350	11.4	10.9	10.5
	50 + 60	3.73	4.47	-	-	2.1	8.2	8.3	630	2490	3350	11.4	10.9	10.5
	60 + 60	4.10	4.10	-	-	2.1	8.2	8.3	630	2490	3350	11.4	10.9	10.5

<Heating>

Indoor unit combination		Heating capacity (kW)							Power consumption (W)			Standard current (A)		
		Room heating capacity (kW)				Total capacity (kW)			Min.	Standard	Max.	220V	230V	240V
		A	B	C	D	Min.	Standard	Max.						
3 room	20 + 20 + 20	2.57	2.57	2.57	-	3.2	7.7	8.9	660	1870	3350	8.6	8.2	7.9
	20 + 20 + 25	2.46	2.46	3.08	-	3.2	8.0	8.9	660	1970	3350	9.0	8.7	8.3
	20 + 20 + 35	2.24	2.24	3.92	-	3.2	8.4	8.9	660	2100	3350	9.6	9.2	8.8
	20 + 20 + 50	1.87	1.87	4.67	-	3.2	8.4	8.9	660	2100	3350	9.6	9.2	8.8
	20 + 20 + 60	1.68	1.68	5.04	-	3.2	8.4	8.9	660	2100	3350	9.6	9.2	8.8
	20 + 25 + 25	2.34	2.93	2.93	-	3.2	8.2	8.9	660	2030	3350	9.3	8.9	8.5
	20 + 25 + 35	2.10	2.63	3.68	-	3.2	8.4	8.9	660	2100	3350	9.6	9.2	8.8
	20 + 25 + 50	1.77	2.21	4.42	-	3.2	8.4	8.9	660	2100	3350	9.6	9.2	8.8
	20 + 25 + 60	1.60	2.00	4.80	-	3.2	8.4	8.9	660	2100	3350	9.6	9.2	8.8
	20 + 35 + 35	1.87	3.27	3.27	-	3.2	8.4	8.9	660	2100	3350	9.6	9.2	8.8
	20 + 35 + 50	1.60	2.80	4.00	-	3.2	8.4	8.9	660	2100	3350	9.6	9.2	8.8
	20 + 35 + 60	1.46	2.56	4.38	-	3.2	8.4	8.9	660	2100	3350	9.6	9.2	8.8
	20 + 50 + 50	1.40	3.50	3.50	-	3.2	8.4	8.9	660	2100	3350	9.6	9.2	8.8
	25 + 25 + 25	2.80	2.80	2.80	-	3.2	8.4	8.9	660	2100	3350	9.6	9.2	8.8
	25 + 25 + 35	2.47	2.47	3.46	-	3.2	8.4	8.9	660	2100	3350	9.6	9.2	8.8
	25 + 25 + 50	2.10	2.10	4.20	-	3.2	8.4	8.9	660	2100	3350	9.6	9.2	8.8
	25 + 25 + 60	1.91	1.91	4.58	-	3.2	8.4	8.9	660	2100	3350	9.6	9.2	8.8
	25 + 35 + 35	2.21	3.09	3.09	-	3.2	8.4	8.9	660	2100	3350	9.6	9.2	8.8
	25 + 35 + 50	1.91	2.67	3.82	-	3.2	8.4	8.9	660	2100	3350	9.6	9.2	8.8
	25 + 35 + 60	1.75	2.45	4.20	-	3.2	8.4	8.9	660	2100	3350	9.6	9.2	8.8
	25 + 50 + 50	1.68	3.36	3.36	-	3.2	8.4	8.9	660	2100	3350	9.6	9.2	8.8
	35 + 35 + 35	2.80	2.80	2.80	-	3.2	8.4	8.9	660	2100	3350	9.6	9.2	8.8
	35 + 35 + 50	2.45	2.45	3.50	-	3.2	8.4	8.9	660	2100	3350	9.6	9.2	8.8
4 room	20 + 20 + 20 + 20	2.10	2.10	2.10	2.10	3.6	8.4	9.1	800	2010	3350	9.2	8.8	8.5
	20 + 20 + 20 + 25	1.98	1.98	1.98	2.47	3.6	8.4	9.1	800	2010	3350	9.2	8.8	8.5
	20 + 20 + 20 + 35	1.79	1.79	1.79	3.13	3.6	8.5	9.1	800	2030	3350	9.3	8.9	8.5
	20 + 20 + 20 + 50	1.56	1.56	1.56	3.91	3.6	8.6	9.1	800	2050	3350	9.4	9.0	8.6
	20 + 20 + 20 + 60	1.43	1.43	1.43	4.30	3.6	8.6	9.1	800	2050	3350	9.4	9.0	8.6
	20 + 20 + 25 + 25	1.89	1.89	2.36	2.36	3.6	8.5	9.1	800	2030	3350	9.3	8.9	8.5
	20 + 20 + 25 + 35	1.70	1.70	2.13	2.98	3.6	8.5	9.1	800	2030	3350	9.3	8.9	8.5
	20 + 20 + 25 + 50	1.50	1.50	1.87	3.74	3.6	8.6	9.1	800	2050	3350	9.4	9.0	8.6
	20 + 20 + 25 + 60	1.38	1.38	1.72	4.13	3.6	8.6	9.1	800	2050	3350	9.4	9.0	8.6
	20 + 20 + 35 + 35	1.56	1.56	2.74	2.74	3.6	8.6	9.1	800	2050	3350	9.4	9.0	8.6
	20 + 20 + 35 + 50	1.38	1.38	2.41	3.44	3.6	8.6	9.1	800	2050	3350	9.4	9.0	8.6
	20 + 25 + 25 + 25	1.79	2.24	2.24	2.24	3.6	8.5	9.1	800	2030	3350	9.3	8.9	8.5
	20 + 25 + 25 + 35	1.64	2.05	2.05	2.87	3.6	8.6	9.1	800	2050	3350	9.4	9.0	8.6
	20 + 25 + 25 + 50	1.43	1.79	1.79	3.58	3.6	8.6	9.1	800	2050	3350	9.4	9.0	8.6
	20 + 25 + 35 + 35	1.50	1.87	2.62	2.62	3.6	8.6	9.1	800	2050	3350	9.4	9.0	8.6
	20 + 35 + 35 + 35	1.38	2.41	2.41	2.41	3.6	8.6	9.1	800	2050	3350	9.4	9.0	8.6
	25 + 25 + 25 + 25	2.13	2.13	2.13	2.13	3.6	8.5	9.1	800	2030	3350	9.3	8.9	8.5
	25 + 25 + 25 + 35	1.95	1.95	1.95	2.74	3.6	8.6	9.1	800	2050	3350	9.4	9.0	8.6
	25 + 25 + 25 + 50	1.72	1.72	1.72	3.44	3.6	8.6	9.1	800	2050	3350	9.4	9.0	8.6
	25 + 25 + 35 + 35	1.79	1.79	2.51	2.51	3.6	8.6	9.1	800	2050	3350	9.4	9.0	8.6

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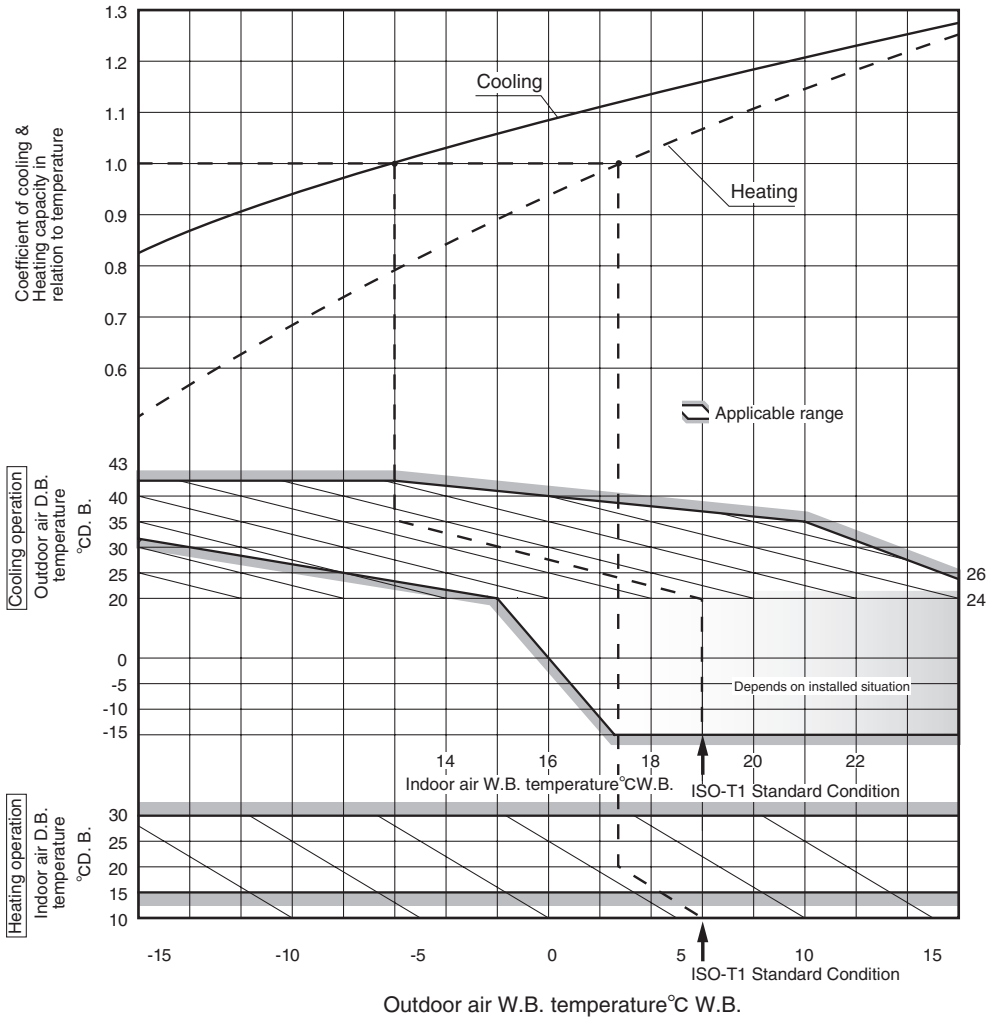
9. SELECTION CHARTS

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

INVERTER MULTI-SPLIT SYSTEM RESIDENTIAL AIR CONDITIONERS

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