



TECHNICAL MANUAL

INVERTER MULTI-SPLIT SYSTEM RESIDENTIAL AIR-CONDITIONERS (Split system, air to air heat pump type)

(OUTDOOR UNIT)

SCM40ZS-S

45ZS-S

50ZS-S

(INDOOR UNIT)

Wall mounted type

SRK20ZMX-S

25ZMX-S

35ZMX-S

50ZMX-S

SRK20ZS-S

25ZS-S

35ZS-S

50ZS-S

SKM20ZSP-S

25ZSP-S

35ZSP-S

Floor standing type

SRF25ZMX-S

35ZMX-S

50ZMX-S

4way ceiling cassette type

FDTC25VF

35VF

50VF

Ceiling concealed type

SRR25ZM-S

35ZM-S

50ZM-S

Ceiling suspended type

FDE50VG

Duct connected Low/Middle static pressure type

FDUM50VF

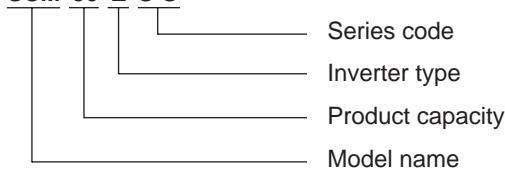
■ Table of models

Model \ Capacity	20	25	35	50
Wall mounted type (SRK * * ZMX-S)	○	○	○	○
Wall mounted type (SRK * * ZS-S)	○	○	○	○
Wall mounted type (SKM * * ZSP-S)	○	○	○	
Floor standing type (SRF)		○	○	○
Ceiling concealed type (SRR)		○	○	○
4way ceiling cassette type (FDTC)		○	○	○
Ceiling suspended type (FDE)				○
Duct connected Low/Middle static pressure type (FDUM)				○
Outdoor unit to be combined (SCM)	SCM40ZS-S, 45ZS-S, 50ZS-S			

■ How to read the model name

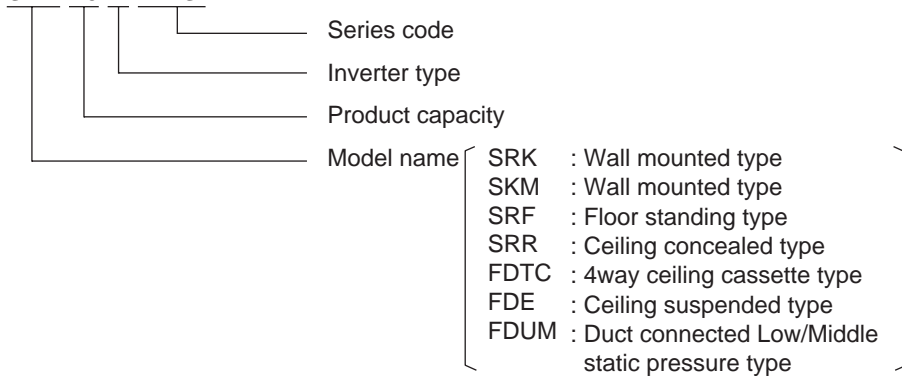
Outdoor unit

Example: **SCM 50 Z S-S**



Indoor unit

Example: **SRK 20 Z MX-S**



1. OUTDOOR UNITS

1.1 Specifications

Adapted to RoHS directive

Item		Model		SCM40ZS-S
Cooling capacity (1)		W		4000 (1500 (Min.)–5900 (Max.))
Heating capacity (1)		W		4500 (1300 (Min.)–6300 (Max.))
Power source				1 Phase, 220–240V, 50Hz
Operation data (1)	Power consumption	Cooling	kW	0.84 (0.59–2.13)
		Heating		0.90 (0.54–1.70)
	Running current	Cooling	A	4.2 / 4.0 / 3.8 (220 / 230 / 240V)
		Heating		4.4 / 4.2 / 4.0 (220 / 230 / 240V)
	Inrush current			4.4 / 4.2 / 4.0 (220 / 230 / 240V)
	COP		Cooling	4.76
			Heating	5.00
	Noise level	Cooling	Sound level	dB (A)
Power level			dB	62
Heating		Sound level	dB (A)	50
		Power level	dB	64
Exterior dimensions (Height x Width x Depth)		mm		595 x780 (+90) x 290
Exterior appearance (Munsell color)				Stucco white (4.2Y 7.5/1.1) near equivalent
Net weight		kg		42
Refrigerant equipment	Compressor type & Q'ty			RMT5111MFE2 (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 1.9 (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	24
	Air flow	Cooling	m ³ /min	32.5
Heating		32.5		
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: φ 6.35 (1/4") x 2 Gas line: φ 9.52 (3/8") x 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)
IP number				IPX4
Accessories (included)				Installation sheet, Elbow, Grommet
Indoor unit to be combined				SRK20,25,35ZMX-S SRK20,25,35ZS-S SKM20,25,35ZSP-S SRF25,35ZMX-S SRR25,35ZM-S FDTC25,35VF
Number of connectable indoor units				2
Total of indoor units		kW		Max. 6

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

The pipe length for one indoor unit is 5m.


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.)

RWC000Z291 

Adapted to RoHS directive

Item		Model	SCM45ZS-S	
Cooling capacity (1)		W	4500 (1500 (Min.)–6400 (Max.))	
Heating capacity (1)		W	5300 (1300 (Min.)–6500 (Max.))	
Power source			1 Phase, 220–240V, 50Hz	
Operation data (1)	Power consumption	Cooling	kW	1.04 (0.59–2.30)
		Heating		1.15 (0.54–1.92)
	Running current	Cooling	A	5.0 / 4.8 / 4.6 (220 / 230 / 240V)
		Heating		5.4 / 5.2 / 5.0 (220 / 230 / 240V)
	Inrush current			5.4 / 5.2 / 5.0 (220 / 230 / 240V)
	COP	Cooling		4.33
		Heating		4.61
	Noise level	Cooling	Sound level	dB (A)
Power level			dB	62
Heating		Sound level	dB (A)	51
		Power level	dB	64
Exterior dimensions (Height x Width x Depth)		mm	595 x 780 (+90) x 290	
Exterior appearance (Munsell color)			Stucco white (4.2Y 7.5/1.1) near equivalent	
Net weight		kg	42	
Refrigerant equipment	Compressor type & Q'ty		RMT5111MFE2 (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 1.9 (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	24
	Air flow	Cooling	m ³ /min	32.5
Heating		32.5		
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: φ 6.35 (1/4") x 2 Gas line: φ 9.52 (3/8") x 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)	
IP number			IPX4	
Accessories (included)			Installation sheet, Elbow, Grommet	
Indoor unit to be combined			SRK20,25,35ZMX-S SRK20,25,35ZS-S SKM20,25,35ZSP-S SRF25,35ZMX-S SRR25,35ZM-S FDTC25,35VF	
Number of connectable indoor units			2	
Total of indoor units		kW	Max. 7	

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


The pipe length for one indoor unit is 5m.

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.)

RWC000Z291 

Adapted to RoHS directive

Item		Model	SCM50ZS-S			
Cooling capacity (1)		W	5000 (1800 (Min.)–7100 (Max.))			
Heating capacity (1)		W	6000 (1400 (Min.)–7500 (Max.))			
Power source			1 Phase, 220–240V, 50Hz			
Operation data (1)	Power consumption	Cooling	kW	1.05 (0.60–2.15)		
		Heating		1.24 (0.55–2.58)		
	Running current	Cooling	A	5.2 / 5.0 / 4.8 (220 / 230 / 240V)		
		Heating		6.2 / 5.9 / 5.7 (220 / 230 / 240V)		
	Inrush current			6.2 / 5.9 / 5.7 (220 / 230 / 240V)		
	COP	Cooling		4.76		
		Heating		4.84		
	Noise level	Cooling	Sound level	dB (A)	49	
Power level			dB	62		
Heating		Sound level	dB (A)	51		
		Power level	dB	64		
Exterior dimensions (Height x Width x Depth)		mm	640 x 850 (+65) x 290			
Exterior appearance (Munsell color)			Stucco white (4.2Y 7.5/1.1) near equivalent			
Net weight		kg	48.5			
Refrigerant equipment	Compressor type & Q'ty		RMT5113MFE2 (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	m³/min	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: φ 6.35 (1/4") x 3 Gas line: φ 9.52 (3/8") x 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)			
IP number			IPX4			
Accessories (included)			Union : (φ 9.52 → φ 12.7) x 1, Installation sheet, Elbow, Grommet			
Indoor unit to be combined			SRK20,25,35,50ZMX-S SRK20,25,35,50ZS-S SKM20,25,35ZSP-S SRF25,35,50ZMX-S SRR25,35,50ZM-S FDT25,35,50VF FDE50VG,FDUM50VF			
Number of connectable indoor units			Min. 2–Max. 3			
Total of indoor units		kW	Max. 8.5			
Notes (1) The data are measured at the following conditions. The pipe length for one indoor unit is 5m.						
Operation	Item	Indoor air temperature		Outdoor air temperature		Standards
		DB	WB	DB	WB	
	Cooling	27°C	19°C	35°C	24°C	
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.)						

RWC000Z291 

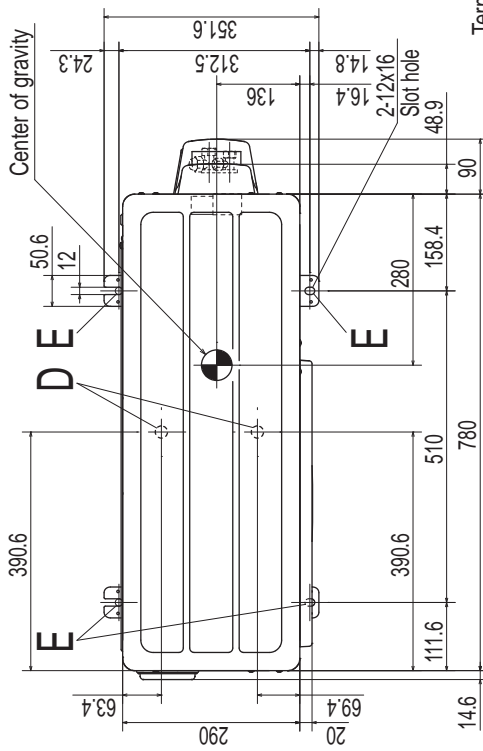
1.2 Exterior dimensions

Models SCM40ZS-S, 45ZS-S

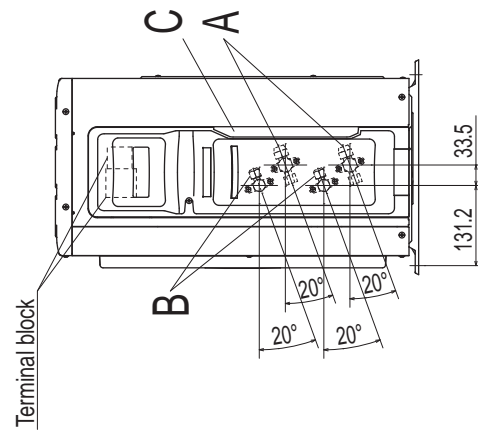
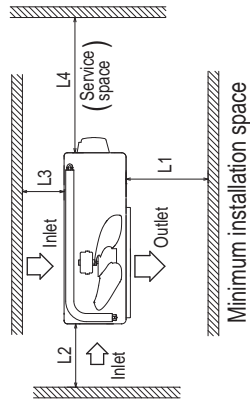
Notes

- (1) The unit must not be surrounded by walls on the four sides.
- (2) The unit must be fixed with anchor bolts. An anchor bolt must not protrude more than 15mm.
- (3) If the unit is installed in the location where there is a possibility of strong winds, place the unit such that the direction of air from the outlet gets perpendicular to the wind direction.
- (4) Leave 200mm or more space above the unit.
- (5) The wall height on the outlet side should be 1200mm or less.
- (6) The model name label is attached on the right side of the unit.

Symbol	Content
A	Service valve connection (gas side) $\phi 9.52$ (3/8") (Flare)
B	Service valve connection (liquid side) $\phi 6.35$ (1/4") (Flare)
C	Pipes/cable draw-out hole
D	Drain discharge hole $\phi 20 \times 2$ places
E	Anchor bolt hole M10-12x4 places



Installation space	Unit:mm
L1	280 or more
L2	100 or more
L3	80 or more
L4	250 or more



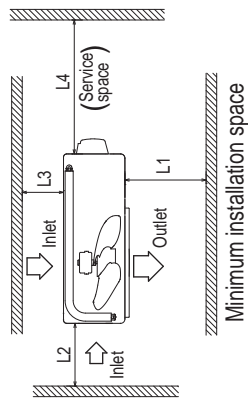
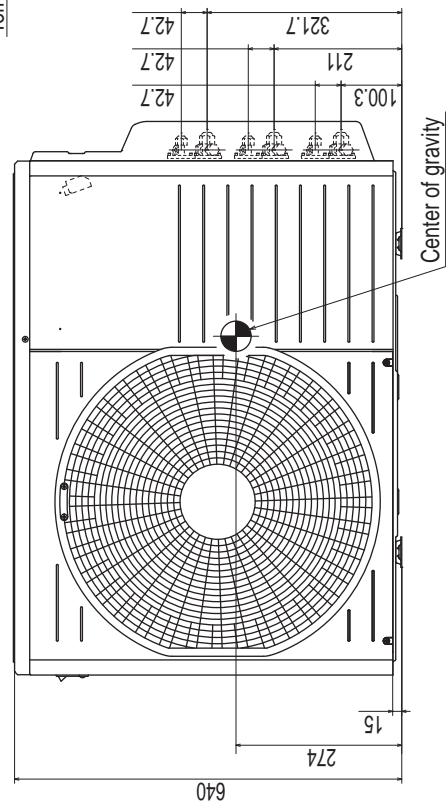
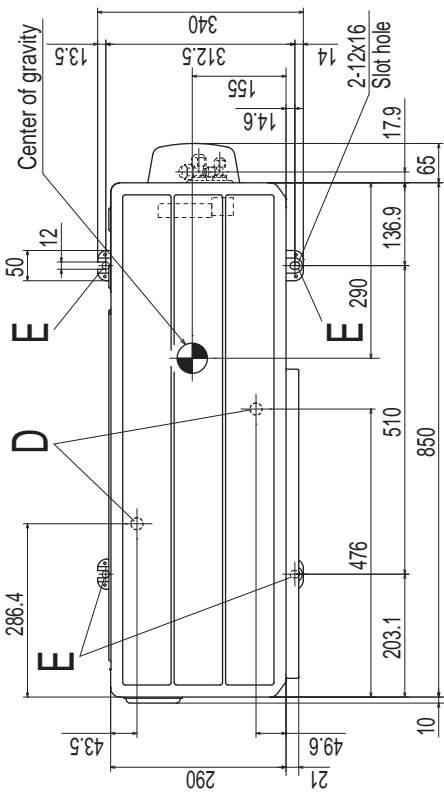
RWC000Z293

Model SCM50ZS-S

Notes

- (1) The unit must not be surrounded by walls on the four sides.
- (2) The unit must be fixed with anchor bolts. An anchor bolt must not protrude more than 15mm.
- (3) If the unit is installed in the location where there is a possibility of strong winds, place the unit such that the direction of air from the outlet gets perpendicular to the wind direction.
- (4) Leave 200mm or more space above the unit.
- (5) The wall height on the outlet side should be 1200mm or less.
- (6) The model name label is attached on the right side of the unit.

Symbol	Content
A	Service valve connection (gas side) ϕ 9.52 (3/8") (Flare)
B	Service valve connection (liquid side) ϕ 6.35 (1/4") (Flare)
C	Pipe/cable draw-out hole
D	Drain discharge hole ϕ 20x2 places
E	Anchor bolt hole M10-12x4 places



Installation space	Minimum installation space
L1	600 or more
L2	100 or more
L3	100 or more
L4	No obstacles (Service space or electrical parts)

Unit:mm

RWC000Z296

1.3 Electrical wiring

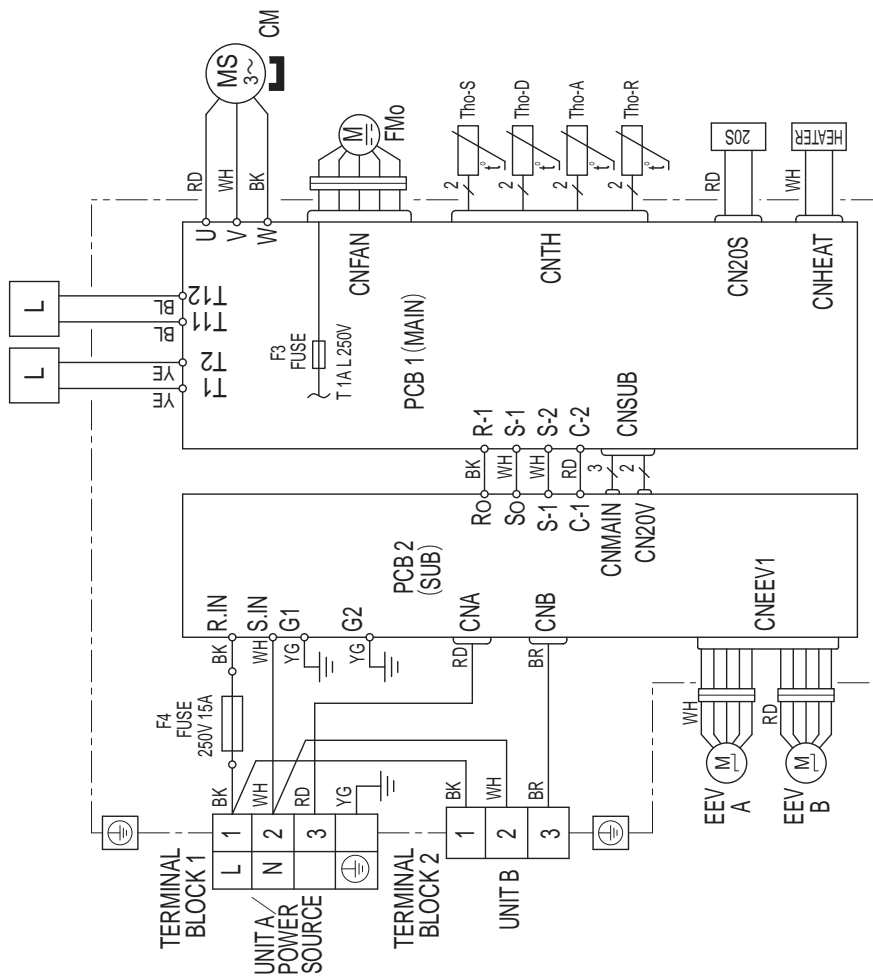
Models SCM40ZS-S, 45ZS-S

Meaning of marks

Item	Description	Item	Description
CN20S	Connector	20S	4 Way valve (coil)
CN20V		CM	Compressor motor
CNA		EEV A,EEV B	Electric expansion valve (coil)
CNB		FMo	Fan motor
CNEEV1	Connector	L	Reactor
CNFAN		Tho-R	Heat exchanger sensor (outdoor unit)
CNHEAT		Tho-A	Outdoor air temp. sensor
CNMAIN		Tho-D	Discharge pipe temp. sensor
CNSUB		Tho-S	Suction pipe temp. sensor
CNTH			

Color marks

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



RWC000Z294

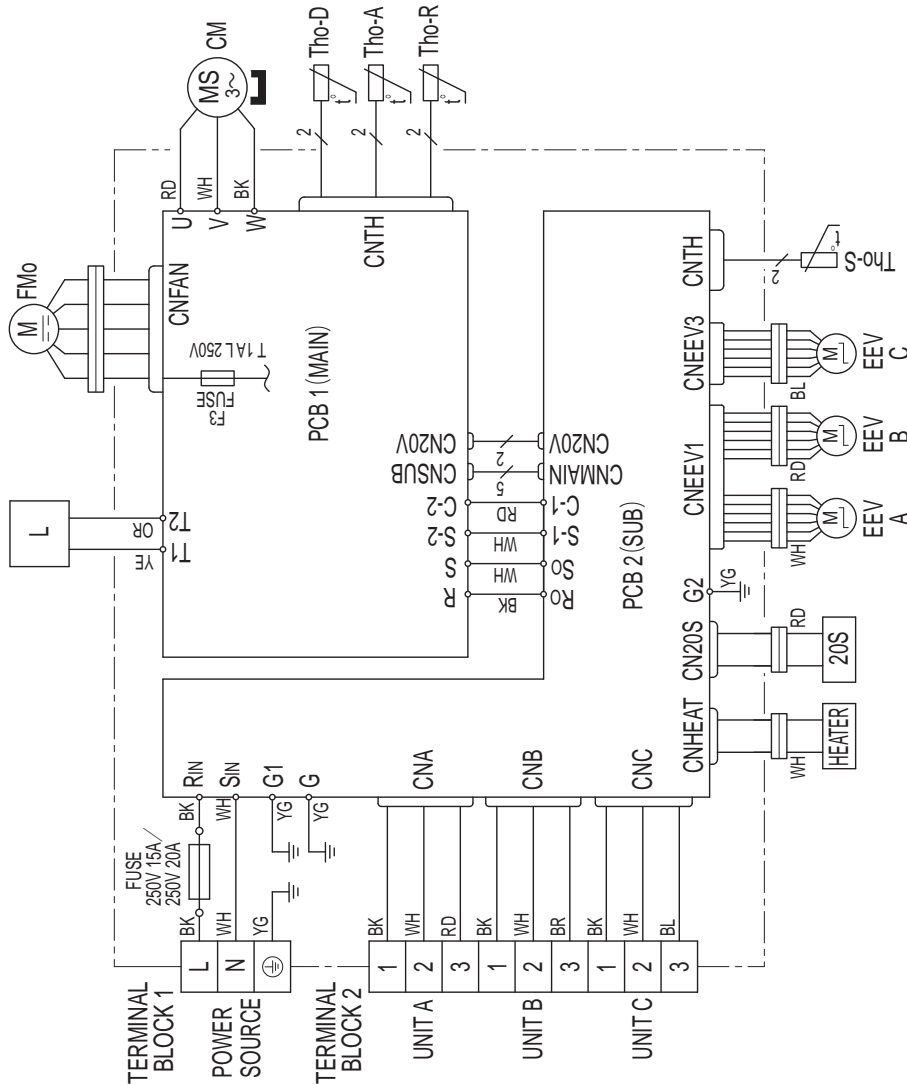
Model SCM50ZS-S

Meaning of marks

Item	Description	Item	Description
CN20S	Connector	20S	4 Way valve (coil)
CN20V		CM	Compressor motor
CNA		EEV A, EEV B	Electric expansion valve (coil)
CNB		EEV C	
CNC		FMo	Fan motor
CNFAN		L	Reactor
CNEEV1		Tho-R	Heat exchanger temp. sensor (outdoor unit)
CNEEV3		Tho-A	Outdoor air temp. sensor
CNHEAT		Tho-D	Discharge pipe temp. sensor
CNMAIN		Tho-S	Suction pipe temp. sensor
CNTH			
CNSUB			

Color marks

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



RWC000Z295

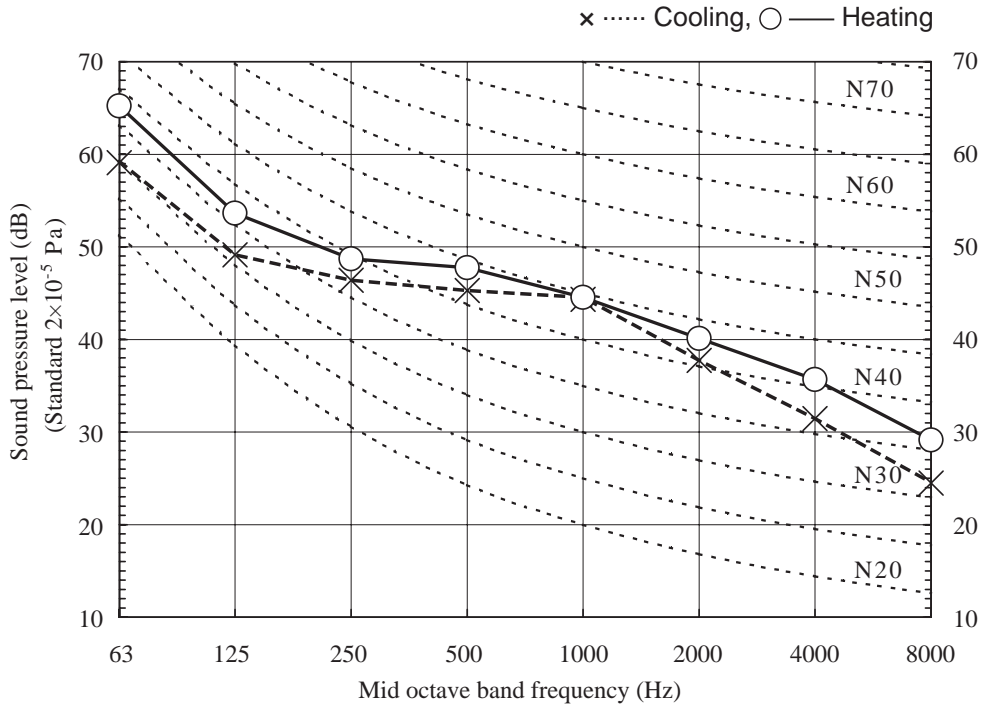
1.4 Noise level

● Mike position: at highest noise level in position as mentioned below
Distance from front side 1m.

Model SCM40ZS-S

Noise Level	Cooling	48 dB(A)
	Heating	50 dB(A)

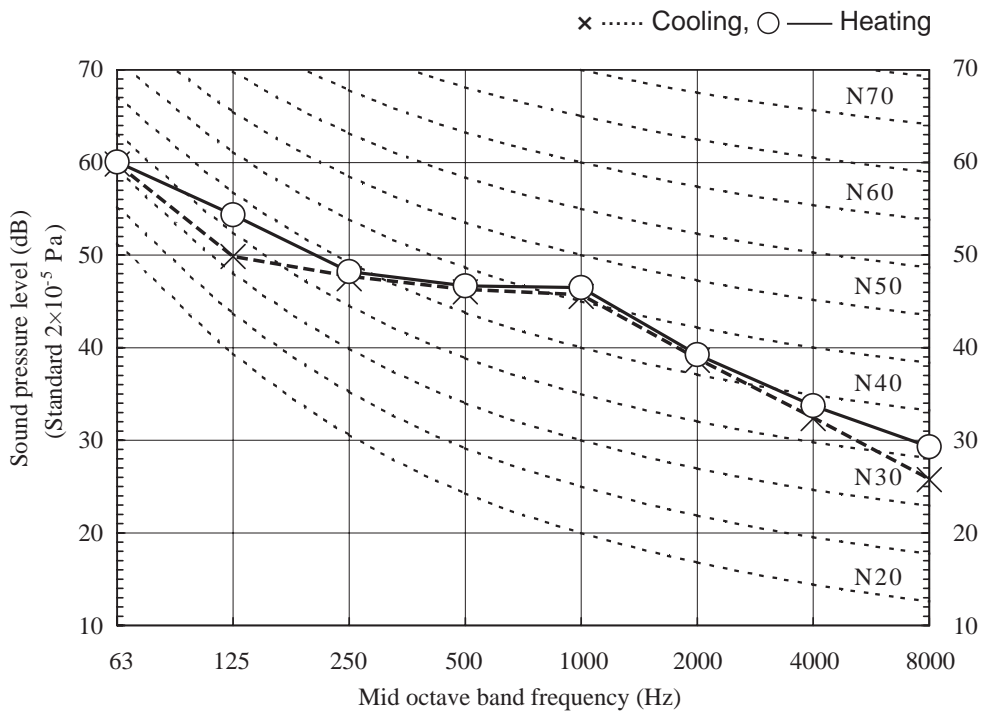
Condition	ISO-T1, JIS C 9612
-----------	--------------------



Model SCM45ZS-S

Noise Level	Cooling	49 dB(A)
	Heating	51 dB(A)

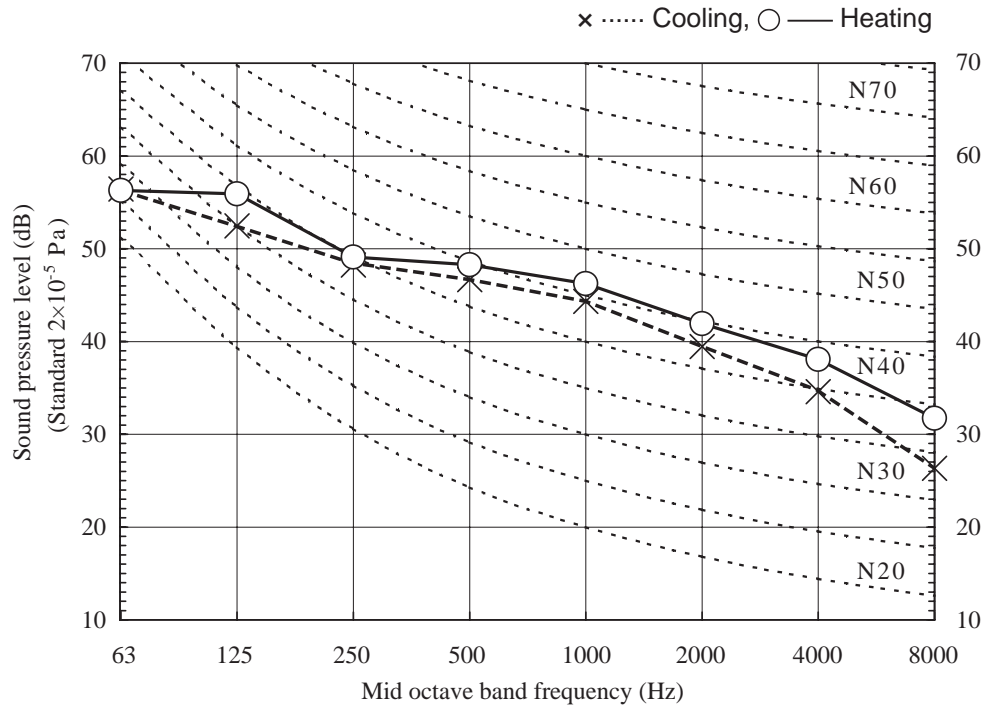
Condition	ISO-T1, JIS C 9612
-----------	--------------------



Model SCM50ZS-S

Noise Level	Cooling	49 dB(A)
	Heating	51 dB(A)

Condition	ISO-T1, JIS C 9612
-----------	--------------------



1.5 Application data

RPC012A200

Models SCM40ZS-S, 45ZS-S, 50ZS-S

Model SCM40,45,50,60
R410A REFRIGERANT USED

• This installation manual deals with an outdoor unit installation only. For an indoor unit installation, refer to page 81.

NOTE This model requires a minimum of 2 indoor units.

SAFETY PRECAUTIONS

- Before installation, read the "SAFETY PRECAUTIONS" carefully and strictly follow it during the installation work in order to protect yourself.
- The precautionary items mentioned below are distinguished into two levels, **WARNING** and **CAUTION**.
 - WARNING** Indicates a potentially hazardous situation which, if not avoided, can result in serious consequences such as death or severe injury.
 - CAUTION** Indicates a potentially hazardous situation which, if not avoided, can result in personal injury or property damage.
- Both mention the important items to protect your health and safety. Therefore, strictly follow them by any means.
- Be sure to confirm no operation problem on the equipment after completing the installation. If unusual noise can be heard during the test run, consult the dealer.
- Be sure to explain the operating methods as well as the maintenance methods of this equipment to the user according to the user's manual.
- Be sure to keep the installation manual together with user's manual at a place where it is easily accessible to the user any time. Moreover, ask the user to hand the manuals to a new user, whenever required.




WARNING

- **Be sure to use only for residential purpose.**
If this unit is installed in inferior environment such as machine shop, vehicle (like ship), warehouse, etc., it can malfunction.
- **Installation must be carried out by the qualified installer completely in accordance with the installation manual.**
Installation by non qualified person or incorrect installation can cause serious troubles such as water leak, electric shock, fire and personal injury.
- **Be sure to wear protective goggles and gloves while performing installation work.**
Improper safety measures can result in personal injury.
- **Use the original accessories and the specified components for the installation.**
Using parts other than those prescribed may cause water leak, electric shock, fire and personal injury.
- **Do not install the unit near the location where leakage of flammable gases can occur.**
If leaked gases accumulate around the unit, it can cause fire resulting in property damage and personal injury.
- **When installing the unit in small rooms, make sure that refrigerant density does not exceed the limit (Reference: ISO5149) in the event of leakage.**
If refrigerant density exceeds the limit, consult the dealer and install the ventilation system. Otherwise lack of oxygen can occur resulting in serious accident.
- **Install the unit in a location where unit will remain stable, horizontal and free of any vibration transmission.**
Unsuitable installation location can cause the unit to fall resulting in material damage and personal injury.
- **Do not run the unit with removed panels or protections.**
Touching rotating equipments, hot surfaces or high voltage parts can cause personal injury due to entrapment, burn or electric shock.
- **This unit is designed specifically for R410A.**
Using any other refrigerant can cause unit failure and personal injury.
- **Do not vent R410A into atmosphere.**
R410A is a fluorinated greenhouse gas with a Global Warming Potential(GWP)=2088.
- **Make sure that no air enters the refrigerant circuit when the unit is installed and removed.**
If air enters the refrigerant circuit, the pressure in the refrigerant circuit will become too high, which can cause burst and personal injury.
- **Be sure to use the prescribed pipes, flare nuts and tools for R410A.**
Using existing parts (for R22 or R407C) can cause refrigerant circuit burst resulting in unit failure and personal injury.
- **Be sure to connect both liquid and gas connecting pipes properly before operating the compressor. Do not open the liquid and gas service valves before completing piping work, and evacuation.**
If the compressor is operated when connecting pipes are not connected and service valves are open, air can be sucked into the refrigerant circuit which can cause anomalous high pressure resulting in burst or personal injury.
- **Be sure to tighten the flare nuts to specified torque using the torque wrench.**
Tightening flare nuts with excess torque can cause burst and refrigerant leakage after a long period.
- **During pump down work, be sure to stop the compressor before closing service valves and removing connecting pipes.**
If the connecting pipes are removed when the compressor is in operation and service valves are open, air can be sucked into the refrigerant circuit which can cause anomalous high pressure resulting in burst or personal injury.
- **In the event of refrigerant leakage during installation, be sure to ventilate the working area properly.**
If the refrigerant comes into contact with naked flames, poisonous gases will be produced.
- **Electrical work must be carried out by the qualified electrician, strictly in accordance with national or regional electricity regulations.**
Incorrect installation can cause electric shock, fire or personal injury.
- **Make sure that earth leakage breaker and circuit breaker of appropriate capacities are installed.**
Circuit breaker should be able to disconnect all poles under over current. Absence of appropriate breakers can cause electric shock, personal injury or property damage.
- **Be sure to switch off the power source in the event of installation, maintenance or service.**
If the power source is not switched off, there is a risk of electric shock, unit failure or personal injury.
- **Be sure to tighten the cables securely in terminal block and relieve the cables properly to prevent overloading the terminal blocks.**
Loose connections or cable mountings can cause anomalous heat production or fire.
- **Do not process, splice or modify the power cable, or share the socket with other power plugs.**
Improper power cable or power plug can cause fire or electric shock due to poor connection, insufficient insulation or over-current.
- **Do not perform any change in protective device or its setup condition yourself.**
Changing protective device specifications can cause electric shock, fire or burst.
- **Be sure to clamp the cables properly so that they do not touch any internal component of the unit.**
If cables touch any internal component, it can cause overheating and fire.
- **Be sure to install service cover properly.**
Improper installation can cause electric shock or fire due to intrusion of dust or water.
- **Be sure to use the prescribed power and connecting cables for electrical work.**
Using improper cables can cause electric leak, anomalous heat production or fire.
- **This appliance must be connected to main power source by means of a circuit breaker or switch with a contact separation of at least 3mm.**
Improper electrical work can cause unit failure or personal injury.
- **When plugging this unit, a plug conforming to the IEC60884-1 must be used.**
Using improper plug can cause electric shock or fire.
- **Be sure to connect the power source cable with power source properly.**
Improper connection can cause intrusion of dust or water resulting in electric shock or fire.

CAUTION

- **Take care when carrying the unit by hand.**
If the unit weight is more than 20kg, it must be carried by two or more persons. Do not carry the unit by the plastic straps. Always use the carry handle.
- **Do not install the outdoor unit in a location where insects and small animals can inhabit.**
Insects and small animals can enter the electrical parts and cause damage resulting in fire or personal injury. Instruct the user to keep the surroundings clean.
- **If the outdoor unit is installed at height, make sure that there is enough space for installation, maintenance and service.**
Insufficient space can result in personal injury due to falling from the height.
- **Do not install the unit near the location where neighbours are bothered by noise or air generating from the unit.**
It can affect surrounding environment and cause a claim.
- **Do not install in the locations where unit is directly exposed to corrosive gases (like sulphide gas, chloride gas), sea breeze or salty atmosphere.**
It can cause corrosion of heat exchanger and damage to plastic parts.
- **Do not install the unit close to the equipments that generate electromagnetic waves and/or high-harmonic waves.**
Equipment such as inverters, standby generators, medical high frequency equipments and telecommunication equipments can affect the system, and cause malfunctions and breakdowns. The system can also affect medical equipment and telecommunication equipment, and obstruct its function or cause jamming.
- **Do not install the unit in the locations where:**
 - There are heat sources nearby.
 - Unit is directly exposed to rain or sunlight.
 - There is any obstacle which can prevent smooth air circulation from inlet and outlet side of the unit.
 - Unit is directly exposed to oil mist and steam such as kitchen.
 - Chemical substances like ammonia (organic fertilizer), calcium chloride (snow melting agent) and acid (sulfurous acid etc.), which can harm the unit, will generate or accumulate.
 - Drain water can not be discharged properly.
 - TV set or radio receiver is placed within 1m.
 - Height above sea level is more than 1000m.
 - It can cause performance degradation, corrosion and damage of components, unit malfunction and fire.
- **Dispose of all packing materials properly.**
Packing materials contain nails and wood which can cause personal injury. Keep the polybag away from children to avoid the risk of suffocation.
- **Do not put anything on the outdoor unit.**
Object may fall causing property damage or personal injury.
- **Do not touch the aluminum fin of the outdoor unit.**
Aluminium fin temperature is high during heating operation. Touching fin can cause burn.
- **Do not touch any refrigerant pipe with your hands when the system is in operation.**
During operation the refrigerant pipes become extremely hot or extremely cold depending on the operating condition. Touching pipes can cause personal injury like burn (hot/cold).
- **Install isolator or disconnect switch on the power source wiring in accordance with the local codes and regulations.**
The isolator should be locked in OFF state in accordance with EN60204-1.

1. ACCESSORIES AND TOOLS

Standard accessories (Supplied with outdoor unit)		Q'ty	Locally procured parts		Tools for installation work		
(1)	Drain grommet 	1	(a)	Anchor bolt(M10-M12)x4 pcs	Plus headed driver	Spanner wrench	Vacuum pump*
(2)	Drain elbow 	1	(b)	Putty	Knife	Torque wrench [14.0-62.0N/m(1.4-6.2kgf*m)]	Gauge manifold *
(3)	Variable diameter joint  SCM50 ø9.52→ø12.7	1	(c)	Electrical tape	Saw	Wrench key (Hexagon) [4m/m]	Charge hose *
			(d)	Connecting pipe	Tape measure	Flaring tool set *	Vacuum pump adapter* (Anti-reverse flow type)
			(e)	Connecting cable	Power cable	Flare adjustment gauge	Gas leak detector *
			(f)	Power cable			
			(g)	Clamp and screw (for finishing work)			

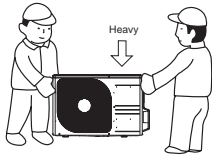
*Designed specifically for R410A

2. OUTDOOR UNIT INSTALLATION

NOTE Do not step on a top and the service cover of the unit.

1. Haulage

- Always carry or move the unit with two or more persons.
 - The right hand side of the unit as viewed from the front (outlet side) is heavier.
- A person carrying the right hand side must take care of this fact. A person carrying the left hand side must hold the handle provided on the front panel of the unit with his right hand and the corner column section of the unit with his left hand.



CAUTION

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

2. Selecting the installation location

Select the suitable installation location where:

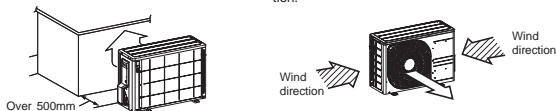
- Unit will be stable, horizontal and free of any vibration transmission.
- There is no obstacle which can prevent smooth air circulation from inlet and outlet side of the unit.
- There is enough space for service and maintenance of unit.
- Neighbours are not bothered by noise or air generating from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

NOTE

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

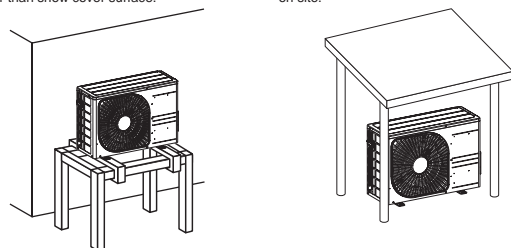
(1) Location of strong wind

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



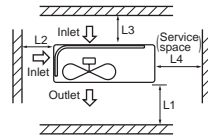
(2) Location of snow accumulation

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



3. Installation space

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



	Installation space (mm)	
	Model SCM40/45	Model SCM50/60
L1	280 or more	600 or more
L2	100 or more	100 or more
L3	80 or more	100 or more
L4	250 or more	No obstacles (Service space or electrical parts)

NOTE

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

CAUTION

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

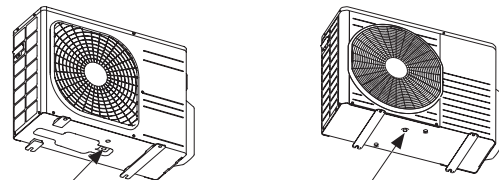
4. Drain piping work (If necessary)

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

- (1) Install drain elbow and drain grommet.
- (2) Seal around the drain elbow and drain grommet with putty or adequate caulking material.

<SCM40/45>

<SCM50/60>



Do not put a grommet on this hole.

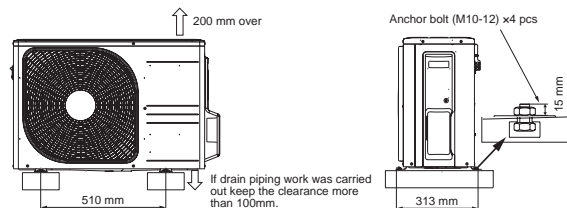
This is a supplementary drain hole to discharge drain water, when a large amount of it is gathered.

CAUTION

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

5. Installation

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



CAUTION

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

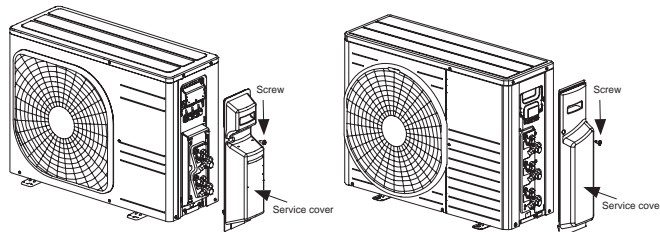
3. PREPARATION FOR WORK

1. Removing service cover

Remove the screw. Slide service cover downwards and remove it.

<SCM40/45>

<SCM50/60>

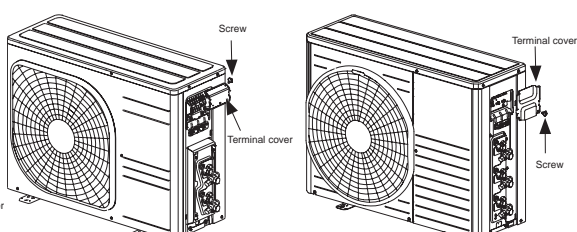


2. Removing terminal cover

Remove the screw and take out terminal cover.

<SCM40/45>

<SCM50/60>



4. CONNECTING PIPING WORK

1. Restrictions on unit installation

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

	Model SCM40/45	Model SCM50/60
pipng length	one indoor unit MAX 25m all indoor unit MAX 30m	one indoor unit MAX 25m all indoor unit MAX 40m
height difference		

2. Preparation of connecting pipe

2.1. Selecting connecting pipe

Select connecting pipe according to the following table.

Indoor unit	Model 20/25/35	Model 50/60
Gas pipe	ø9.52	ø12.7
Liquid pipe	ø6.35	ø6.35

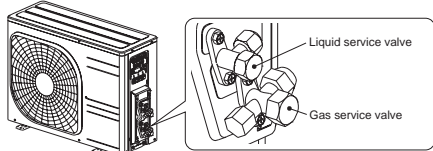
- Pipe wall thickness must be greater than or equal to 0.8 mm.
- Pipe material must be O-type (Phosphorus deoxidized seamless copper pipe ICS 23.040.15, ICS 77.150.30).

2.2. Cutting connecting pipe

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

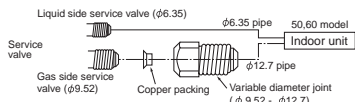
3. Piping work

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



3.1. Flaring pipe

- (1) <SCM40/45>
Take out flare nuts from the service valves of outdoor unit and engage them onto connecting pipes.
<SCM50/60>
Take out flare nuts from the service valves of outdoor unit. If a 5.0, 6.0 kw class indoor unit (gas side pipe 12.7) is going to be connected to the service valves (9.52), variable joints available as accessories must be applied to the gas side service valves. Securely fit the copper packing between the service valve and the variable diameter joint to prevent shifting. Engage flare nuts onto connecting pipes.



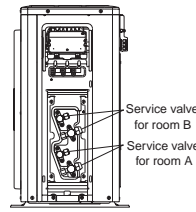
- (2) Flare the pipes according to table and figure shown below. Flare dimensions for R410A are different from those for conventional refrigerant. Although it is recommended to use the flaring tools designed specifically for R410A, conventional flaring tools can also be used by adjusting the measurement of protrusion B with a flare adjustment gauge.

Copper pipe outer diameter	A	Rigid (clutch) type	
		R410A	Conventional
ø6.35	0 -0.4	0-0.5	1.0-1.5
ø9.52	9.1		
ø12.7	13.2		
ø12.7	16.6		

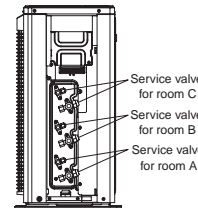
3.2. Connecting pipes

- (1) Connect pipes on both liquid and gas sides.

<SCM40/45>

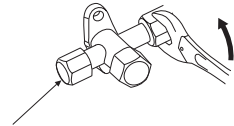


<SCM 50/60>



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

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



Do not hold the valve cap area with a spanner

CAUTION

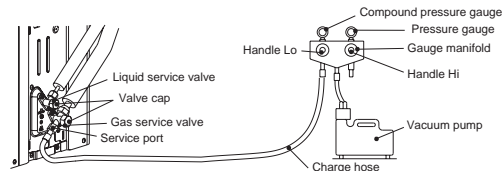
- Do not apply refrigerating machine oil to the flared surface. It can cause refrigerant leakage.
- Do not apply excess torque to the flared nuts. The flared nuts may crack resulting in refrigerant leakage.

4. Evacuation

- (1) Connect vacuum pump to gauge manifold. Connect charge hose of gauge manifold to a service port of outdoor unit.
- (2) Run the vacuum pump for at least one hour after the vacuum gauge shows -0.1MPa (-76cm Hg).
- (3) Confirm that the vacuum gauge indicator does not rise even if the system is left for 15 minutes or more. Vacuum gauge indicator will rise if the system has moisture left inside or has a leakage point. Check the system for the leakage point. If leakage point is found, repair it and return to (1) again.
- (4) Close the Handle Lo and stop the vacuum pump. Keep this state for a few minutes to make sure that the compound pressure gauge pointer does not swing back.
- (5) Remove valve caps from liquid service valve and gas service valve.
- (6) Turn the liquid service valve's rod 90 degree counterclockwise with a hexagonal wrench key to open valve. Close it after 5 seconds, and check for gas leakage. Using soapy water, check for gas leakage from indoor unit's flare and outdoor unit's flare and valve rods. Wipe off all the water after completing the check.
- (7) Disconnect charging hose from gas service valve's service port and fully open liquid and gas service valves. (Do not attempt to turn valve rod beyond its stop.)
- (8) Tighten service valve caps and service port cap to the specified torque shown in the table below.

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

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



CAUTION

- To prevent the entering of different oil into the refrigeration system, do not use tools designed for any other refrigerant type (R22, R407C, etc.).
- To prevent vacuum pump oil from entering into the refrigerant system, use a counterflow prevention adapter.

5. ELECTRICAL WIRING WORK

WARNING

- Make sure that all the electrical work is carried out in accordance with the national or regional electrical standards.
- Make sure that the earth leakage breaker and circuit breaker of appropriate capacities are installed (Refer to the table given below).
- Do not turn on the power until the electrical work is completed.
- Do not use a condensive capacitor for power factor improvement under any circumstances. (It does not improve power factor. Moreover, it can cause an abnormal overheat accident).

Breaker specifications

Model	Phase	Earth leakage breaker	Circuit breaker
SCM40/45/50/60	Single phase	Leakage current: 30mA, 0.1sec or less	Over current: 25A

Main fuse specification

Model	Specification	Parts No.
SCM40/45/50	250V 15A	SSA564A136
SCM60	250V 20A	SSA564A136A

1.Preparing cable

- (1) Selecting cable

Select the power source cable and connecting cable in accordance with the specifications mentioned below.

- (a) Power source cable

3-core* 4.0mm² or more, conformed with 60245 IEC57(CENELEC H05RN-F)
When selecting the power source cable length, make sure that voltage drop is less than 2%. If the wire length gets longer, increase the wire diameter.

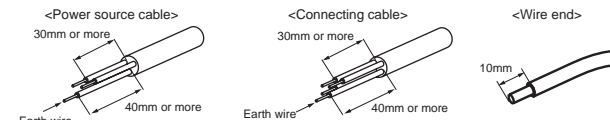
- (b) Connecting cable

4-core* 1.5mm², conformed with 60245 IEC57(CENELEC H05RN-F)

* 1 Earth wire is included (Yellow/Green).

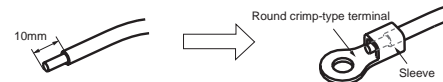
- (2) Arrange each wire length as shown below.

Make sure that each wire is stripped 10mm from the end.



- (3) Attach round crimp-type terminal to each wire as shown in the below.

Select the size of round crimp-type terminal after considering the specifications of terminal block and wire diameter.



CAUTION

- Power source cable and connecting cable must conform to the specifications mentioned in the manual. Using cables with wrong specifications may result in unit malfunction.

5. ELECTRICAL WIRING WORK

2. Connecting cable

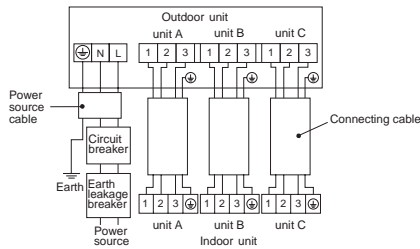
- (1) Remove the service cover and the terminal cover.
- (2) Connect the cables according to the instructions and figures given below.
 - (a) Connect the earth wire of power source cable.

An earth wire must be connected before connecting the other wires of power source cable. Keep the earth wire longer than the remaining two wires of power source cable.
 - (b) Connect the remaining two wires (N and L) of power source cable.
 - (c) Connect the wires of connecting cables. Make sure that for each wire, outdoor and indoor side terminal numbers match. Terminal number A of the outdoor unit is used for A indoor unit and terminal number B for B indoor unit respectively.

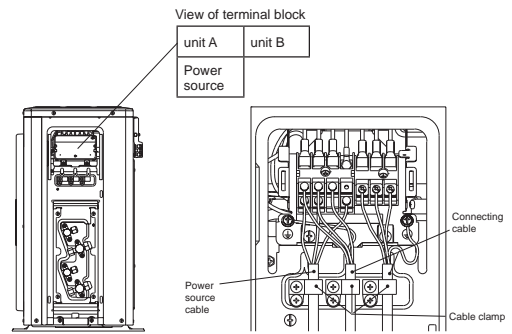
Earth wire shall be Yellow/Green (Y/G) in color and longer than other wires for safety reason.
- (3) Fasten the cables properly with cable clamps so that no external force may work on terminal connections.

Moreover, make sure that cables do not touch the piping, etc. When cables are connected, make sure that all electrical components within the electrical component box are free of loose connector coupling or terminal connection.

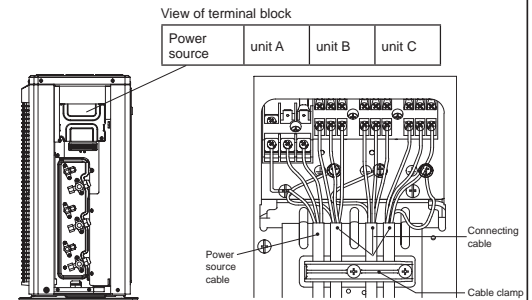
<Circuit diagram>



<SCM40/45>



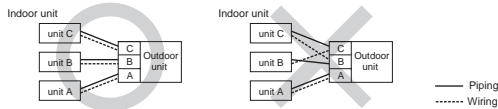
<SCM 50/60>



6. FINISHING WORK

NOTE

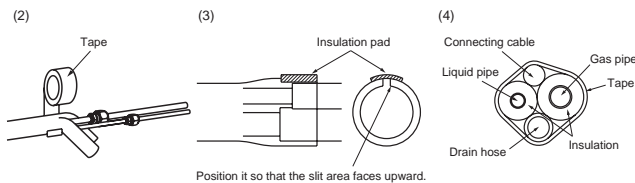
- Make sure to match the piping and wiring from each unit to the outdoor unit.
- Be careful because if connections are wrong, normal operation cannot be achieved and may damage the compressor.



1. Heating and condensation prevention

- (1) Dress the connecting pipes (both liquid and gas pipes) with insulation to prevent it from heating and dew condensation.

Use the heat insulating material which can withstand 120°C or higher temperature. Make sure that insulation is wrapped tightly around the pipes and no gap is left between them.
- (2) Wrap the refrigerant pipings of indoor unit with indoor unit heat insulation using tape.
- (3) Cover the flare-connected joints (indoor side) with the indoor unit heat insulation and wrap it with an insulation pad (standard accessory provided with indoor unit).
- (4) Wrap the connecting pipes, connecting cable and drain hose with the tape.



NOTE

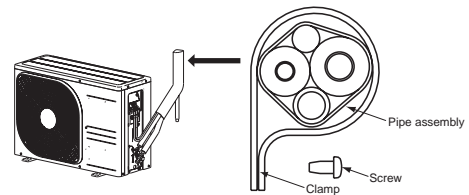
Locations where relative humidity exceeds 70%, both liquid and gas pipes need to be dressed with 20mm or thicker heat insulation materials.

CAUTION

- Improper insulation can cause condensate(water) formation during cooling operation. Condensate can leak or drip causing damage to household property.
- Poor heat insulating capacity can cause pipe outer surface to reach high temperature during heating operation. It can cause cable deterioration and personal injury.

2. Finishing work

- (1) Make sure that the exterior portion of connecting pipes, connecting cable and drain hose is wrapped properly with tape. Shape the connecting pipes to match with the contours of the pipe assembly route.
- (2) Fix the pipe assembly with the wall using clamps and screws. Pipe assembly should be anchored every 1.5m or less to isolate the vibration.
- (3) Install the terminal cover and the service cover securely. Water may enter the unit if service cover is not installed properly, resulting in unit malfunction and failure.

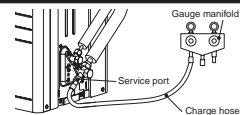


CAUTION

Make sure that the connecting pipes do not touch the components within the unit. If pipes touch the internal components, it may generate abnormal sounds and/or vibrations.

7. PUMP DOWN

- (1) Connect charge hose of gauge manifold to a service port of outdoor unit.
- (2) Close the liquid service valves for all connected indoor units with hexagonal wrench key.
- (3) Fully open the gas service valves with hexagonal wrench key.
- (4) Carry out forced cooling operation for all connected indoor units (For forced cooling operation procedure, refer to indoor unit installation manual).
- (5) When the low pressure gauge becomes 0.01MPa, close the gas service valves and stop forced cooling operation.



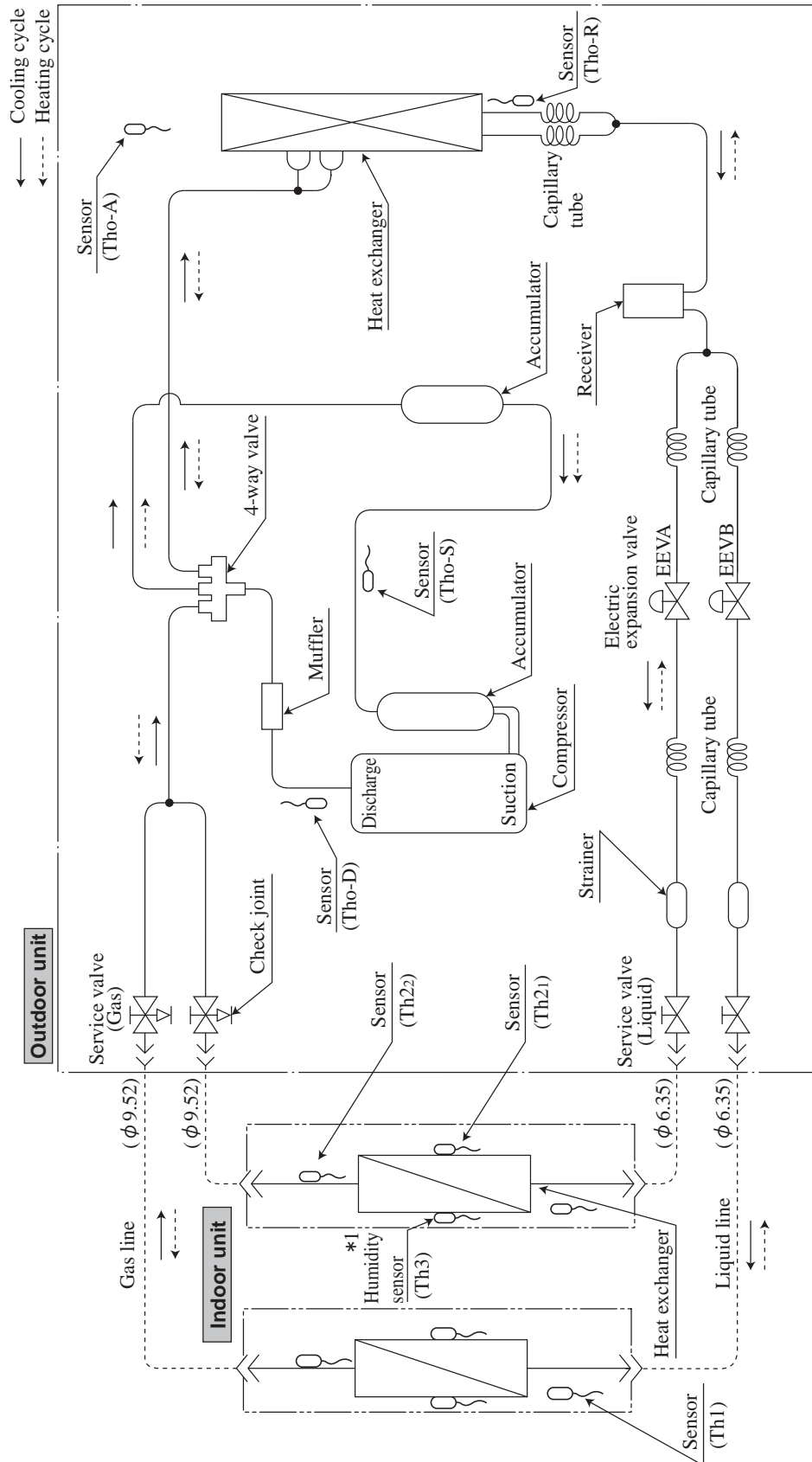
8. INSTALLATION TEST CHECK POINTS

After finishing the installation work, check the following points again before turning on the power. Conduct test run (Refer to indoor unit installation manual) and ensure that the unit operates properly.

Power source voltage complies with the rated voltage of air-conditioner.		No gas leaks from the joints of the service valves.	
Earth leakage breaker and circuit breaker are installed.		Indoor and outdoor side pipe joints have been insulated.	
Power cable and connecting cable are securely fixed to the terminal block.		Drain hose (if installed) is fixed properly.	
Both liquid and gas service valves are fully open.		Screw of the service cover is tightened properly.	

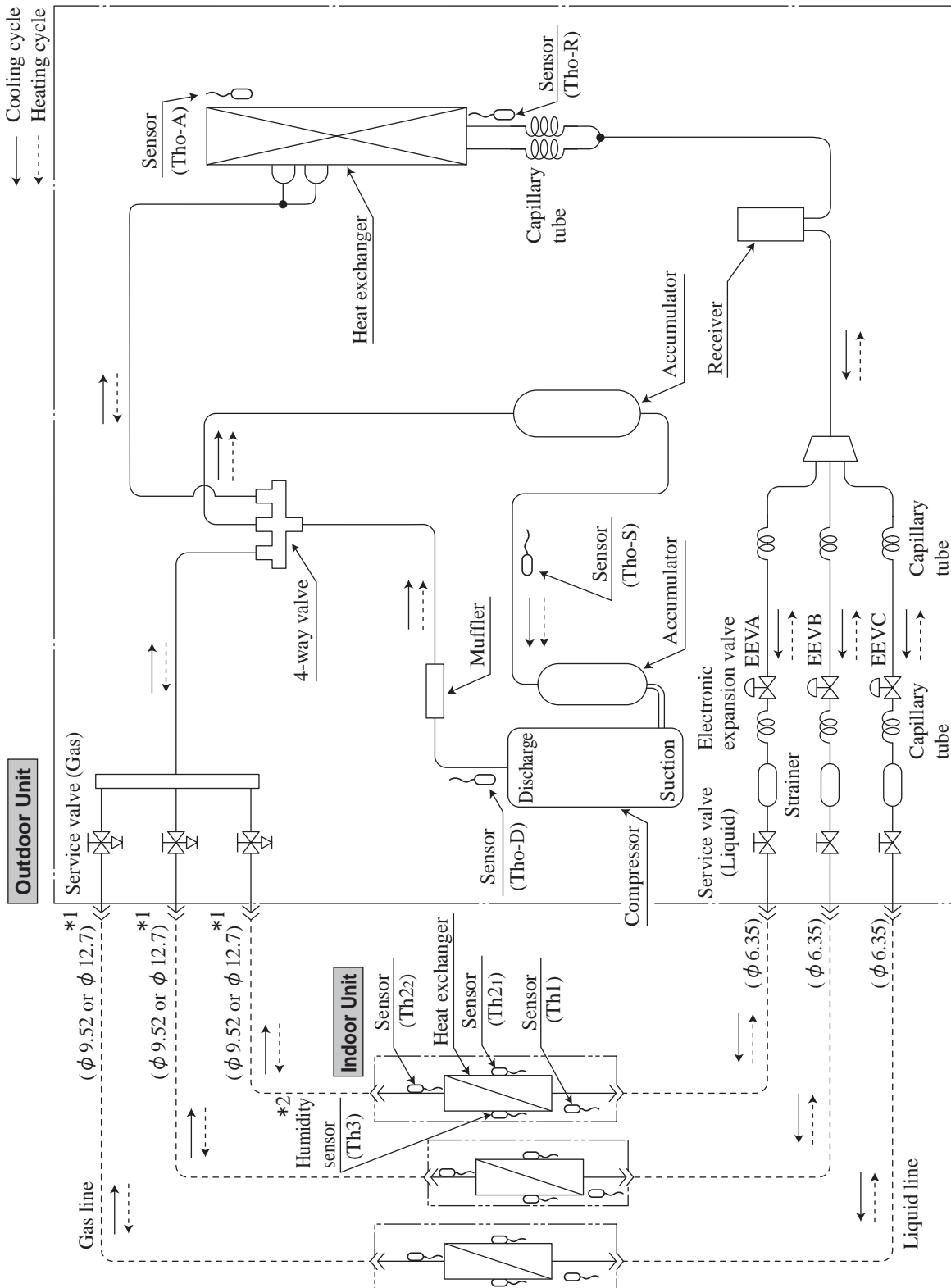
3. PIPING SYSTEMS

Models SCM40ZS-S, 45ZS-S



*1 Humidity sensor
SRK35ZMX-S, SRK35ZS-S and SRF series only.

Model SCM50ZS-S



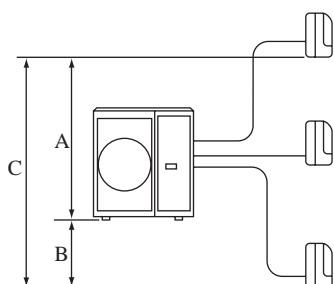
*2 Humidity sensor
SRK50ZMX-S, SRK35, 50ZS-S and SRF series only.

*1 Gas line
Model 20, 25, 35 : ϕ 9.52
Model 50 : ϕ 12.7

4. RANGE OF USAGE & LIMITATIONS

Item		Model	SCM40ZS-S	SCM45ZS-S	SCM50ZS-S
Indoor intake air temperature (Upper, lower limits)	Cooling		Approximately 18 to 32°C		
	Heating		Approximately 15 to 30°C		
Outdoor air temperature (Upper, lower limits)	Cooling		Approximately -15 to 43°C		
	Heating		Approximately -15 to 24°C		
Indoor units that can be used in combination	Number of connected units		2 units		2 to 3 units
	Total of indoor Units (class kW)		4.0–6.0kW	4.5–7.0kW	5.0–8.5kW
Total length for all rooms			Max. 30m		Max. 40m
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		
	When indoor unit is below outdoor unit (B)		Max. 15m		
Difference in height between indoor units (C)			Max. 25m		
Compressor stop/start frequency	1 cycle time		10 min. or more (from stop to stop or from start to start)		
	Stop time		3 min. or more		
Power source voltage	Voltage fluctuation		Within $\pm 10\%$ of rated voltage		
	Voltage drop during start		Within $\pm 15\%$ of rated voltage		
	Interval unbalance		Within $\pm 3\%$ of rated voltage		
Power cable length			32m ⁽¹⁾		

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



5. TABLE OF INDOOR UNIT COMBINATIONS

- The combinations of the indoor units is indicated by numbers. They are read as follows.
(Example) SRK20ZMX-S → 20 SRK25ZMX-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**

	SCM40ZS-S,45ZS-S	SCM50ZS-S
MIN	2	2
MAX	2	3

(1) Model SCM40ZS-S

(a) Indoor unit SRK * * ZMX-S models only

<Cooling>

Indoor unit combination		Cooling capacity (kW)					Power consumption (W)			Standard current (A)		
		Indoor unit capacity (kW)		Total capacity (kW)			Min.	Standard	Max.	220V	230V	240V
		A	B	Min.	Standard	Max.						
1 unit	20	2.0	-	1.5	2.0	2.8	560	590	880	2.9	2.8	2.7
	25	2.5	-	1.5	2.5	3.4	560	670	1040	3.3	3.2	3.1
	35	3.5	-	1.5	3.5	3.9	560	970	1200	4.8	4.6	4.4
2 units	20 + 20	2.00	2.00	3.0	4.0	5.7	600	840	1750	4.2	4.0	3.8
	20 + 25	2.00	2.50	3.0	4.5	5.9	600	1040	2030	5.0	4.8	4.6
	20 + 35	1.89	3.31	3.0	5.2	5.9	600	1430	2030	6.7	6.4	6.2
	25 + 25	2.50	2.50	3.0	5.0	5.9	600	1280	2030	6.1	5.8	5.6
	25 + 35	2.17	3.03	3.0	5.2	5.9	600	1430	2030	6.7	6.4	6.2

<Heating>

Indoor unit combination		Heating capacity (kW)					Power consumption (W)			Standard current (A)		
		Indoor unit capacity (kW)		Total capacity (kW)			Min.	Standard	Max.	220V	230V	240V
		A	B	Min.	Standard	Max.						
1 unit	20	3.0	-	1.3	3.0	3.7	520	750	1070	3.7	3.5	3.4
	25	3.4	-	1.3	3.4	4.2	520	920	1210	4.5	4.3	4.1
	35	4.5	-	1.3	4.5	5.0	520	1210	1450	5.9	5.6	5.4
2 units	20 + 20	2.25	2.25	2.0	4.5	6.3	550	900	1700	4.4	4.2	4.0
	20 + 25	2.36	2.94	2.0	5.3	6.3	550	1150	1700	5.4	5.2	5.0
	20 + 35	2.11	3.69	2.0	5.8	6.3	550	1290	1700	6.0	5.8	5.5
	25 + 25	2.90	2.90	2.0	5.8	6.3	550	1290	1700	6.0	5.8	5.5
	25 + 35	2.42	3.38	2.0	5.8	6.3	550	1290	1700	6.0	5.8	5.5

(b) Indoor unit SKM * * ZSP-S models only

<Cooling>

Indoor unit combination		Cooling capacity (kW)					Power consumption (W)			Standard current (A)		
		Indoor unit capacity (kW)		Total capacity (kW)			Min.	Standard	Max.	220V	230V	240V
		A	B	Min.	Standard	Max.						
1 unit	20	2.0	-	1.5	2.0	2.7	560	650	880	3.2	3.1	3.0
	25	2.5	-	1.5	2.5	3.2	560	830	1040	4.1	4.0	3.8
	35	3.5	-	1.5	3.5	3.7	560	1100	1200	5.5	5.2	5.0
2 units	20 + 20	2.00	2.00	3.0	4.0	5.6	600	1050	1750	5.2	5.0	4.8
	20 + 25	2.00	2.50	3.0	4.5	5.8	600	1300	2030	6.3	6.0	5.8
	20 + 35	1.89	3.31	3.0	5.2	5.8	600	1600	2030	7.5	7.2	6.9
	25 + 25	2.50	2.50	3.0	5.0	5.8	600	1420	2030	6.7	6.4	6.2
	25 + 35	2.17	3.03	3.0	5.2	5.8	600	1600	2030	7.5	7.2	6.9

<Heating>

Indoor unit combination		Heating capacity (kW)					Power consumption (W)			Standard current (A)		
		Indoor unit capacity (kW)		Total capacity (kW)			Min.	Standard	Max.	220V	230V	240V
		A	B	Min.	Standard	Max.						
1 unit	20	3.0	-	1.3	3.0	3.5	520	950	1070	4.6	4.4	4.2
	25	3.4	-	1.3	3.4	4.0	520	1020	1210	5.0	4.8	4.6
	35	4.5	-	1.3	4.5	4.8	520	1390	1450	6.8	6.5	6.2
2 units	20 + 20	2.25	2.25	2.0	4.5	6.1	550	1020	1700	5.0	4.8	4.6
	20 + 25	2.36	2.94	2.0	5.3	6.1	550	1310	1700	6.2	5.9	5.7
	20 + 35	2.11	3.69	2.0	5.8	6.1	550	1400	1700	6.5	6.3	6.0
	25 + 25	2.90	2.90	2.0	5.8	6.1	550	1400	1700	6.5	6.3	6.0
	25 + 35	2.42	3.38	2.0	5.8	6.1	550	1400	1700	6.5	6.3	6.0

(c) Indoor unit except SRK * * ZMX-S and SKM * * ZSP-S models

<Cooling>

Indoor unit combination		Cooling capacity (kW)					Power consumption (W)			Standard current (A)		
		Indoor unit capacity (kW)		Total capacity (kW)			Min.	Standard	Max.	220V	230V	240V
		A	B	Min.	Standard	Max.						
1 unit	20	2.0	-	1.5	2.0	2.7	560	620	880	3.1	3.0	2.8
	25	2.5	-	1.5	2.5	3.2	560	710	1040	3.5	3.4	3.2
	35	3.5	-	1.5	3.5	3.7	560	1030	1200	5.1	4.9	4.7
2 units	20 + 20	2.00	2.00	3.0	4.0	5.6	600	880	1750	4.4	4.2	4.0
	20 + 25	2.00	2.50	3.0	4.5	5.8	600	1090	2030	5.3	5.0	4.8
	20 + 35	1.89	3.31	3.0	5.2	5.8	600	1500	2030	7.0	6.7	6.5
	25 + 25	2.50	2.50	3.0	5.0	5.8	600	1340	2030	6.4	6.1	5.8
	25 + 35	2.17	3.03	3.0	5.2	5.8	600	1500	2030	7.0	6.7	6.5

<Heating>

Indoor unit combination		Heating capacity (kW)					Power consumption (W)			Standard current (A)		
		Indoor unit capacity (kW)		Total capacity (kW)			Min.	Standard	Max.	220V	230V	240V
		A	B	Min.	Standard	Max.						
1 unit	20	3.0	-	1.3	3.0	3.5	520	900	1070	4.4	4.2	4.0
	25	3.4	-	1.3	3.4	4.0	520	1070	1210	5.2	5.0	4.8
	35	4.5	-	1.3	4.5	4.8	520	1340	1450	6.5	6.3	6.0
2 units	20 + 20	2.25	2.25	2.0	4.5	6.1	550	930	1700	4.5	4.3	4.2
	20 + 25	2.36	2.94	2.0	5.3	6.1	550	1240	1700	5.9	5.6	5.4
	20 + 35	2.11	3.69	2.0	5.8	6.1	550	1330	1700	6.2	5.9	5.7
	25 + 25	2.90	2.90	2.0	5.8	6.1	550	1330	1700	6.2	5.9	5.7
	25 + 35	2.42	3.38	2.0	5.8	6.1	550	1330	1700	6.2	5.9	5.7

(2) Model SCM45ZS-S

(a) Indoor unit SRK * * ZMX-S models only

<Cooling>

Indoor unit combination		Cooling capacity (kW)					Power consumption (W)			Standard current (A)		
		Indoor unit capacity (kW)		Total capacity (kW)			Min.	Standard	Max.	220V	230V	240V
		A	B	Min.	Standard	Max.						
1 unit	20	2.0	-	1.5	2.0	2.8	560	590	880	2.9	2.8	2.7
	25	2.5	-	1.5	2.5	3.4	560	670	1040	3.3	3.2	3.1
	35	3.5	-	1.5	3.5	3.9	560	970	1200	4.8	4.3	4.4
2 units	20 + 20	2.00	2.00	3.0	4.0	5.7	600	840	1750	4.2	4.0	3.8
	20 + 25	2.00	2.50	3.0	4.5	5.9	600	1040	2030	5.0	4.8	4.6
	20 + 35	2.00	3.50	3.0	5.5	6.3	600	1490	2160	7.0	6.7	6.4
	25 + 25	2.50	2.50	3.0	5.0	6.2	600	1280	2110	6.1	5.8	5.6
	25 + 35	2.42	3.38	3.0	5.8	6.4	600	1740	2200	8.0	7.6	7.3
	35 + 35	2.90	2.90	3.0	5.8	6.4	600	1740	2200	8.0	7.6	7.3

<Heating>

Indoor unit combination		Heating capacity (kW)					Power consumption (W)			Standard current (A)		
		Indoor unit capacity (kW)		Total capacity (kW)			Min.	Standard	Max.	220V	230V	240V
		A	B	Min.	Standard	Max.						
1 unit	20	3.0	-	1.3	3.0	3.7	520	750	1070	3.7	3.5	3.4
	25	3.4	-	1.3	3.4	4.2	520	920	1210	4.5	4.3	4.1
	35	4.5	-	1.3	4.5	5.0	520	1210	1450	5.9	5.6	5.4
2 units	20 + 20	2.25	2.25	2.0	4.5	6.5	550	900	1900	4.4	4.2	4.0
	20 + 25	2.36	2.94	2.0	5.3	6.5	550	1150	1900	5.4	5.2	5.0
	20 + 35	2.18	3.82	2.0	6.0	6.5	550	1500	1900	6.9	6.6	6.3
	25 + 25	3.00	3.00	2.0	6.0	6.5	550	1500	1900	6.9	6.6	6.3
	25 + 35	2.50	3.50	2.0	6.0	6.5	550	1500	1900	6.9	6.6	6.3
	35 + 35	3.00	3.00	2.0	6.0	6.5	550	1500	1900	6.9	6.6	6.3

(b) Indoor unit SKM * * ZSP-S models only

<Cooling>

Indoor unit combination		Cooling capacity (kW)					Power consumption (W)			Standard current (A)		
		Indoor unit capacity (kW)		Total capacity (kW)			Min.	Standard	Max.	220V	230V	240V
		A	B	Min.	Standard	Max.						
1 unit	20	2.0	-	1.5	2.0	2.7	560	650	880	3.2	3.1	3.0
	25	2.5	-	1.5	2.5	3.2	560	830	1040	4.1	4.0	3.8
	35	3.5	-	1.5	3.5	3.7	560	1100	1200	5.5	5.2	5.0
2 units	20 + 20	2.00	2.00	3.0	4.0	5.6	600	1050	1750	5.2	5.0	4.8
	20 + 25	2.00	2.50	3.0	4.5	5.8	600	1300	2030	6.3	6.0	5.8
	20 + 35	2.00	3.50	3.0	5.5	6.2	600	1650	2160	7.7	7.4	7.1
	25 + 25	2.50	2.50	3.0	5.0	6.1	600	1380	2110	6.5	6.3	6.0
	25 + 35	2.42	3.38	3.0	5.8	6.3	600	1900	2200	8.7	8.3	8.0
	35 + 35	2.90	2.90	3.0	5.8	6.3	600	1900	2200	8.7	8.3	8.0

<Heating>

Indoor unit combination		Heating capacity (kW)					Power consumption (W)			Standard current (A)		
		Indoor unit capacity (kW)		Total capacity (kW)			Min.	Standard	Max.	220V	230V	240V
		A	B	Min.	Standard	Max.						
1 unit	20	3.0	-	1.3	3.0	3.5	520	950	1070	4.6	4.4	4.2
	25	3.4	-	1.3	3.4	4.0	520	1020	1210	5.0	4.8	4.6
	35	4.5	-	1.3	4.5	4.8	520	1390	1450	6.8	6.5	6.2
2 units	20 + 20	2.25	2.25	2.0	4.5	6.3	550	1020	1900	5.0	4.8	4.6
	20 + 25	2.36	2.94	2.0	5.3	6.3	550	1310	1900	6.4	6.1	5.9
	20 + 35	2.18	3.82	2.0	6.0	6.3	550	1600	1900	7.3	7.0	6.7
	25 + 25	3.00	3.00	2.0	6.0	6.3	550	1600	1900	7.3	7.0	6.7
	25 + 35	2.50	3.35	2.0	6.0	6.3	550	1600	1900	7.3	7.0	6.7
	35 + 35	3.00	3.00	2.0	6.0	6.3	550	1600	1900	7.3	7.0	6.7

(c) Indoor unit except SRK * * ZMX-S and SKM * * ZSP-S models

<Cooling>

Indoor unit combination		Cooling capacity (kW)					Power consumption (W)			Standard current (A)		
		Indoor unit capacity (kW)		Total capacity (kW)			Min.	Standard	Max.	220V	230V	240V
		A	B	Min.	Standard	Max.						
1 unit	20	2.0	-	1.5	2.0	2.7	560	620	880	3.1	3.0	2.8
	25	2.5	-	1.5	2.5	3.2	560	710	1040	3.5	3.4	3.2
	35	3.5	-	1.5	3.5	3.7	560	1030	1200	5.1	4.9	4.7
2 units	20 + 20	2.00	2.00	3.0	4.0	5.6	600	880	1750	4.4	4.2	4.0
	20 + 25	2.00	2.50	3.0	4.5	5.8	600	1090	2030	5.3	5.0	4.8
	20 + 35	2.00	3.50	3.0	5.5	6.2	600	1560	2160	7.3	7.0	6.7
	25 + 25	2.50	2.50	3.0	5.0	6.1	600	1340	2110	6.4	6.1	5.8
	25 + 35	2.42	3.38	3.0	5.8	6.3	600	1820	2200	8.4	8.0	7.7
	35 + 35	2.90	2.90	3.0	5.8	6.3	600	1820	2200	8.4	8.0	7.7

<Heating>

Indoor unit combination		Heating capacity (kW)					Power consumption (W)			Standard current (A)		
		Indoor unit capacity (kW)		Total capacity (kW)			Min.	Standard	Max.	220V	230V	240V
		A	B	Min.	Standard	Max.						
1 unit	20	3.0	-	1.3	3.0	3.5	520	900	1070	4.4	4.2	4.0
	25	3.4	-	1.3	3.4	4.0	520	1070	1210	5.2	5.0	4.8
	35	4.5	-	1.3	4.5	4.8	520	1340	1450	6.5	6.3	6.0
2 units	20 + 20	2.25	2.25	2.0	4.5	6.3	550	930	1900	4.5	4.3	4.2
	20 + 25	2.36	2.94	2.0	5.3	6.3	550	1240	1900	6.0	5.8	5.5
	20 + 35	2.18	3.82	2.0	6.0	6.3	550	1550	1900	7.1	6.8	6.5
	25 + 25	3.00	3.00	2.0	6.0	6.3	550	1550	1900	7.1	6.8	6.5
	25 + 35	2.50	3.50	2.0	6.0	6.3	550	1550	1900	7.1	6.8	6.5
	35 + 35	3.00	3.00	2.0	6.0	6.3	550	1550	1900	7.1	6.8	6.5

(3) Model SCM50ZS-S

(a) Indoor unit SRK * * ZMX-S models only

<Cooling>

Indoor unit combination		Cooling capacity (kW)						Power consumption (W)			Standard current (A)		
		Indoor unit capacity (kW)			Total capacity (kW)			Min.	Standard	Max.	220V	230V	240V
		A	B	C	Min.	Standard	max.						
1 unit	20	2.0	-	-	1.8	2.0	2.8	500	550	900	2.7	2.6	2.5
	25	2.5	-	-	1.8	2.5	3.4	500	720	1070	3.6	3.4	3.3
	35	3.5	-	-	1.8	3.5	3.9	500	1080	1230	5.4	5.1	4.9
	50	5.0	-	-	1.8	5.0	5.5	500	1700	2000	8.0	7.6	7.3
2 units	20 + 20	2.00	2.00	-	3.0	4.0	5.7	570	910	1800	4.5	4.3	4.2
	20 + 25	1.91	2.39	-	3.0	4.3	5.9	570	1070	1980	5.3	5.1	4.9
	20 + 35	1.82	3.18	-	3.0	5.0	6.2	570	1430	2070	6.9	6.6	6.3
	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	6.2	5.9	5.7
	25 + 35	2.21	3.09	-	3.0	5.3	6.5	570	1600	2150	7.6	7.2	6.9
	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 units	20 + 20 + 20	1.67	1.67	1.67	3.4	5.0	7.1	690	1050	2150	5.2	5.0	4.8
	20 + 20 + 25	1.60	1.60	2.00	3.4	5.2	7.1	690	1160	2150	5.7	5.5	5.2
	20 + 20 + 35	1.49	1.49	2.61	3.4	5.6	7.1	690	1330	2150	6.5	6.2	5.9
	20 + 25 + 25	1.54	1.93	1.93	3.4	5.4	7.1	690	1260	2150	6.2	5.9	5.6
	20 + 25 + 35	1.45	1.81	2.54	3.4	5.8	7.1	690	1430	2150	6.9	6.6	6.3
	25 + 25 + 25	1.87	1.87	1.87	3.4	5.6	7.1	690	1330	2150	6.5	6.2	5.9
	25 + 25 + 35	1.76	1.76	2.47	3.4	6.0	7.1	690	1490	2150	7.1	6.9	6.5

<Heating>

Indoor unit combination		Heating capacity (kW)						Power consumption (W)			Standard current (A)		
		Indoor unit capacity (kW)			Total capacity (kW)			Min.	Standard	Max.	220V	230V	240V
		A	B	C	Min.	Standard	max.						
1 unit	20	3.0	-	-	1.4	3.0	3.7	480	820	1100	4.1	3.9	3.7
	25	3.4	-	-	1.4	3.4	4.2	480	980	1240	4.9	4.7	4.5
	35	4.5	-	-	1.4	4.5	5.0	480	1280	1490	6.3	6.0	5.8
	50	5.8	-	-	1.4	5.8	6.2	480	1740	2260	8.0	7.6	7.3
2 units	20 + 20	2.95	2.95	-	2.0	5.9	7.3	540	1480	2580	7.1	6.8	6.5
	20 + 25	2.67	3.33	-	2.0	6.0	7.3	540	1530	2580	7.3	6.9	6.7
	20 + 35	2.29	4.01	-	2.0	6.3	7.3	540	1620	2580	7.6	7.2	6.9
	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	7.4	7.0	6.8
	25 + 35	2.67	3.73	-	2.0	6.4	7.3	540	1650	2580	7.7	7.3	7.0
	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 units	20 + 20 + 20	2.00	2.00	2.00	3.0	6.0	7.5	600	1240	2580	6.2	5.9	5.7
	20 + 20 + 25	1.91	1.91	2.38	3.0	6.2	7.5	600	1400	2580	6.8	6.5	6.2
	20 + 20 + 35	1.76	1.76	3.08	3.0	6.6	7.5	600	1560	2580	7.4	7.0	6.8
	20 + 25 + 25	1.83	2.29	2.29	3.0	6.4	7.5	600	1470	2580	7.0	6.7	6.5
	20 + 25 + 35	1.70	2.13	2.98	3.0	6.8	7.5	600	1620	2580	7.6	7.2	6.9
	25 + 25 + 25	2.20	2.20	2.20	3.0	6.6	7.5	600	1560	2580	7.4	7.0	6.8
	25 + 25 + 35	2.06	2.06	2.88	3.0	7.0	7.5	600	1690	2580	7.8	7.5	7.2

(b) Indoor unit SKM * * ZSP-S models only

<Cooling>

Indoor unit combination		Cooling capacity (kW)						Power consumption (W)			Standard current (A)		
		Indoor unit capacity (kW)			Total capacity (kW)			Min.	Standard	Max.	220V	230V	240V
		A	B	C	Min.	Standard	max.						
1 unit	20	2.0	-	-	1.8	2.0	2.7	500	610	900	3.0	2.9	2.8
	25	2.5	-	-	1.8	2.5	3.2	500	800	1070	4.0	3.8	3.7
	35	3.5	-	-	1.8	3.5	3.7	500	1170	1230	5.8	5.6	5.3
2 units	20 + 20	2.00	2.00	-	3.0	4.0	5.6	570	1000	1800	5.0	4.8	4.6
	20 + 25	1.91	2.39	-	3.0	4.3	5.8	570	1150	1980	5.7	5.5	5.2
	20 + 35	1.82	3.18	-	3.0	5.0	6.1	570	1530	2070	7.4	7.0	6.7
	25 + 25	2.35	2.35	-	3.0	4.7	6.1	570	1520	2070	7.4	7.1	6.8
	25 + 35	2.21	3.09	-	3.0	5.3	6.3	570	1720	2150	8.1	7.8	7.5
	35 + 35	3.00	3.00	-	3.0	6.0	6.3	570	2050	2150	9.4	9.0	8.6
3 units	20 + 20 + 20	1.67	1.67	1.67	3.4	5.0	6.9	690	1160	2150	5.8	5.5	5.3
	20 + 20 + 25	1.60	1.60	2.00	3.4	5.2	6.9	690	1250	2150	6.2	5.9	5.6
	20 + 20 + 35	1.49	1.49	2.61	3.4	5.6	6.9	690	1400	2150	6.8	6.5	6.2
	20 + 25 + 25	1.54	1.93	1.93	3.4	5.4	6.9	690	1350	2150	6.6	6.3	6.0
	20 + 25 + 35	1.45	1.81	2.54	3.4	5.8	6.9	690	1500	2150	7.2	6.9	6.6
	25 + 25 + 25	1.87	1.87	1.87	3.4	5.6	6.9	690	1400	2150	6.8	6.5	6.2
	25 + 25 + 35	1.76	1.76	2.47	3.4	6.0	6.9	690	1600	2150	7.7	7.3	7.0

<Heating>

Indoor unit combination		Heating capacity (kW)						Power consumption (W)			Standard current (A)		
		Indoor unit capacity (kW)			Total capacity (kW)			Min.	Standard	Max.	220V	230V	240V
		A	B	C	Min.	Standard	max.						
1 unit	20	3.0	-	-	1.4	3.0	3.5	480	1040	1100	5.2	4.9	4.7
	25	3.4	-	-	1.4	3.4	4.0	480	1200	1240	6.0	5.7	5.5
	35	4.5	-	-	1.4	4.5	5.0	480	1490	1490	7.4	7.0	6.7
2 units	20 + 20	2.95	2.95	-	2.0	5.9	7.0	540	1530	2580	7.3	7.0	6.7
	20 + 25	2.67	3.33	-	2.0	6.0	7.0	540	1580	2580	7.5	7.2	6.9
	20 + 35	2.29	4.01	-	2.0	6.3	7.0	540	1670	2580	7.8	7.5	7.2
	25 + 25	3.05	3.05	-	2.0	6.1	7.0	540	1610	2580	7.6	7.3	7.0
	25 + 35	2.67	3.73	-	2.0	6.4	7.0	540	1700	2580	7.9	7.6	7.3
	35 + 35	3.30	3.30	-	2.0	6.6	7.0	540	1760	2580	8.1	7.8	7.4
3 units	20 + 20 + 20	2.00	2.00	2.00	3.0	6.0	7.3	600	1360	2580	6.8	6.5	6.2
	20 + 20 + 25	1.91	1.91	2.38	3.0	6.2	7.3	600	1450	2580	7.0	6.7	6.4
	20 + 20 + 35	1.76	1.76	3.08	3.0	6.6	7.3	600	1620	2580	7.6	7.3	7.0
	20 + 25 + 25	1.83	2.29	2.29	3.0	6.4	7.3	600	1530	2580	7.3	7.0	6.7
	20 + 25 + 35	1.70	2.13	2.98	3.0	6.8	7.3	600	1680	2580	7.9	7.5	7.2
	25 + 25 + 25	2.20	2.20	2.20	3.0	6.6	7.3	600	1620	2580	7.6	7.3	7.0
	25 + 25 + 35	2.06	2.06	2.88	3.0	7.0	7.3	600	1750	2580	8.1	7.7	7.4

(c) Indoor unit except SRK * * ZMX-S and SKM * * ZSP-S models

<Cooling>

Indoor unit combination		Cooling capacity (kW)						Power consumption (W)			Standard current (A)		
		Indoor unit capacity (kW)			Total capacity (kW)			Min.	Standard	Max.	220V	230V	240V
		A	B	C	Min.	Standard	max.						
1 unit	20	2.0	-	-	1.8	2.0	2.7	500	580	900	2.9	2.8	2.6
	25	2.5	-	-	1.8	2.5	3.2	500	760	1070	3.8	3.6	3.5
	35	3.5	-	-	1.8	3.5	3.7	500	1140	1230	5.7	5.4	5.2
	50	5.0	-	-	1.8	5.0	5.3	500	1790	2000	8.4	8.0	7.7
2 units	20 + 20	2.00	2.00	-	3.0	4.0	5.6	570	950	1800	4.7	4.5	4.3
	20 + 25	1.91	2.39	-	3.0	4.3	5.8	570	1110	1980	5.5	5.3	5.1
	20 + 35	1.82	3.18	-	3.0	5.0	6.1	570	1490	2070	7.2	6.9	6.6
	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	6.4	6.2	5.9
	25 + 35	2.21	3.09	-	3.0	5.3	6.3	570	1660	2150	7.9	7.5	7.2
	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
3 units	20 + 20 + 20	1.67	1.67	1.67	3.4	5.0	6.9	690	1120	2150	5.6	5.3	4.5
	20 + 20 + 25	1.60	1.60	2.00	3.4	5.2	6.9	690	1200	2150	5.9	5.7	5.4
	20 + 20 + 35	1.49	1.49	2.61	3.4	5.6	6.9	690	1370	2150	6.6	6.4	6.1
	20 + 25 + 25	1.54	1.93	1.93	3.4	5.4	6.9	690	1300	2150	6.3	6.1	5.8
	20 + 25 + 35	1.45	1.81	2.54	3.4	5.8	6.9	690	1470	2150	7.1	6.8	6.5
	25 + 25 + 25	1.87	1.87	1.87	3.4	5.6	6.9	690	1370	2150	6.6	6.4	6.1
	25 + 25 + 35	1.76	1.76	2.47	3.4	6.0	6.9	690	1540	2150	7.4	7.0	6.8

<Heating>

Indoor unit combination		Heating capacity (kW)						Power consumption (W)			Standard current (A)		
		Indoor unit capacity (kW)			Total capacity (kW)			Min.	Standard	Max.	220V	230V	240V
		A	B	C	Min.	Standard	max.						
1 unit	20	3.0	-	-	1.4	3.0	3.5	480	1020	1100	5.1	4.9	4.6
	25	3.4	-	-	1.4	3.4	4.0	480	1180	1240	5.9	5.6	5.4
	35	4.5	-	-	1.4	4.5	4.8	480	1470	1490	7.3	6.9	6.7
	50	5.8	-	-	1.4	5.8	6.0	480	1910	2260	8.8	8.4	8.0
2 units	20 + 20	2.95	2.95	-	2.0	5.9	7.0	540	1510	2580	7.2	6.9	6.6
	20 + 25	2.67	3.33	-	2.0	6.0	7.0	540	1560	2580	7.4	7.1	6.8
	20 + 35	2.29	4.01	-	2.0	6.3	7.0	540	1650	2580	7.7	7.4	7.1
	20 + 50	1.89	4.71	-	2.0	6.6	7.0	540	1740	2580	8.0	7.7	7.4
	25 + 25	3.05	3.05	-	2.0	6.1	7.0	540	1590	2580	7.5	7.2	6.9
	25 + 35	2.67	3.73	-	2.0	6.4	7.0	540	1680	2580	7.8	7.5	7.2
	25 + 50	2.20	4.40	-	2.0	6.6	7.0	540	1740	2580	8.0	7.7	7.4
	35 + 35	3.30	3.30	-	2.0	6.6	7.0	540	1740	2580	8.0	7.7	7.4
3 units	20 + 20 + 20	2.00	2.00	2.00	3.0	6.0	7.3	600	1340	2580	6.7	6.4	6.1
	20 + 20 + 25	1.91	1.91	2.38	3.0	6.2	7.3	600	1430	2580	6.9	6.6	6.4
	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	7.2	6.9	6.6
	20 + 25 + 35	1.70	2.13	2.98	3.0	6.8	7.3	600	1660	2580	7.8	7.4	7.1
	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	8.0	7.7	7.3

(12) Outdoor unit inspection points
Models SCM40ZS-S,45ZS-S

⚠ CAUTION- HIGH VOLTAGE

High voltage is produced in the control box. Don't touch electrical parts in the control box for 5 minutes after the unit is stopped.

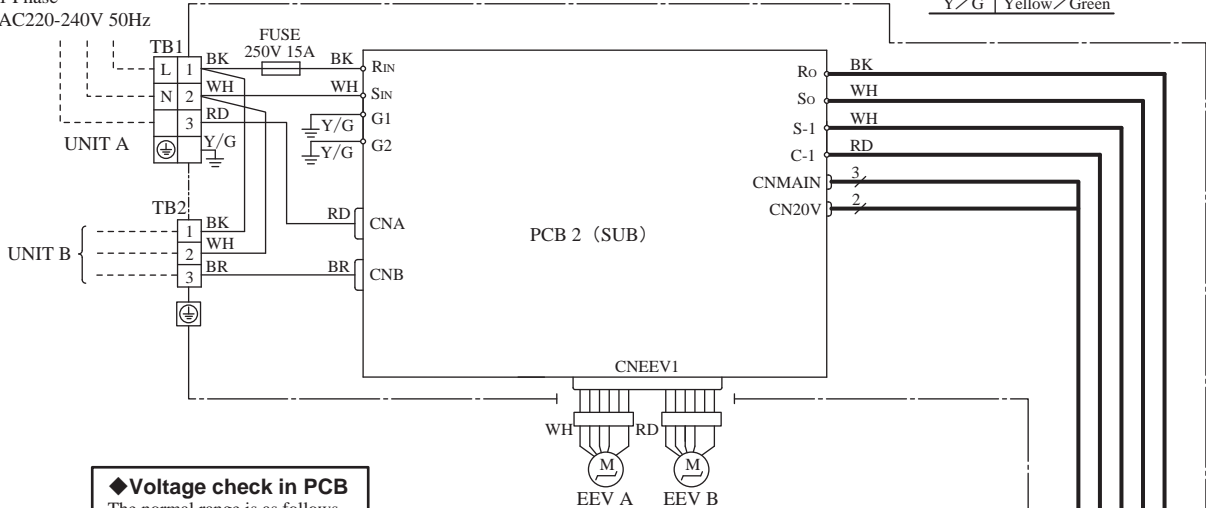
◆ Power source and serial signal inspection

- ① to ②: AC220/230/240V
- ② to ③: Normal if the voltage oscillates between DC0 and approx. 20V

Color marks

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

Power source
 1 Phase
 AC220-240V 50Hz

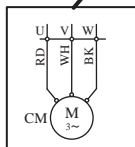
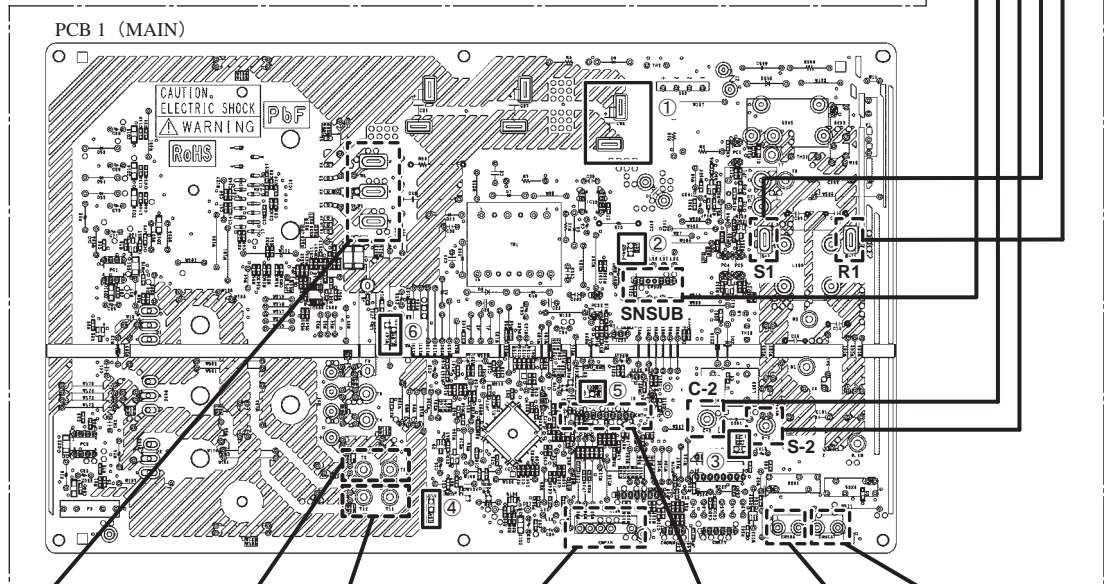


◆ Voltage check in PCB

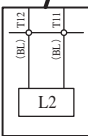
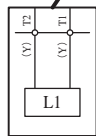
The normal range is as follows.

Display	Voltage range
① DC280V	DC230V - DC310V
② DC 20V	DC 18V - DC 22V
③ DC 13V	DC 12V - DC 14V
④ DC 15V	DC 14V - DC 16V
⑤ DC 5V	DC 4V - DC 6V
⑥ DC 2.5V	DC 2.3V - DC 2.5V

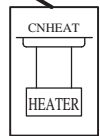
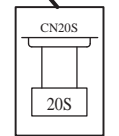
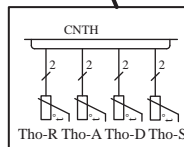
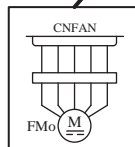
◆ Inspection of electronic expansion valve
 See page 219.



◆ Inspection power transistor
 Remove the fasten terminal and test output voltage



◆ Inspection of outdoor fan motor
 See page 219.



◆ Inspection of resistance value of sensor
 Remove the connector and check the resistance value. See the section of sensor characteristics on page 209.

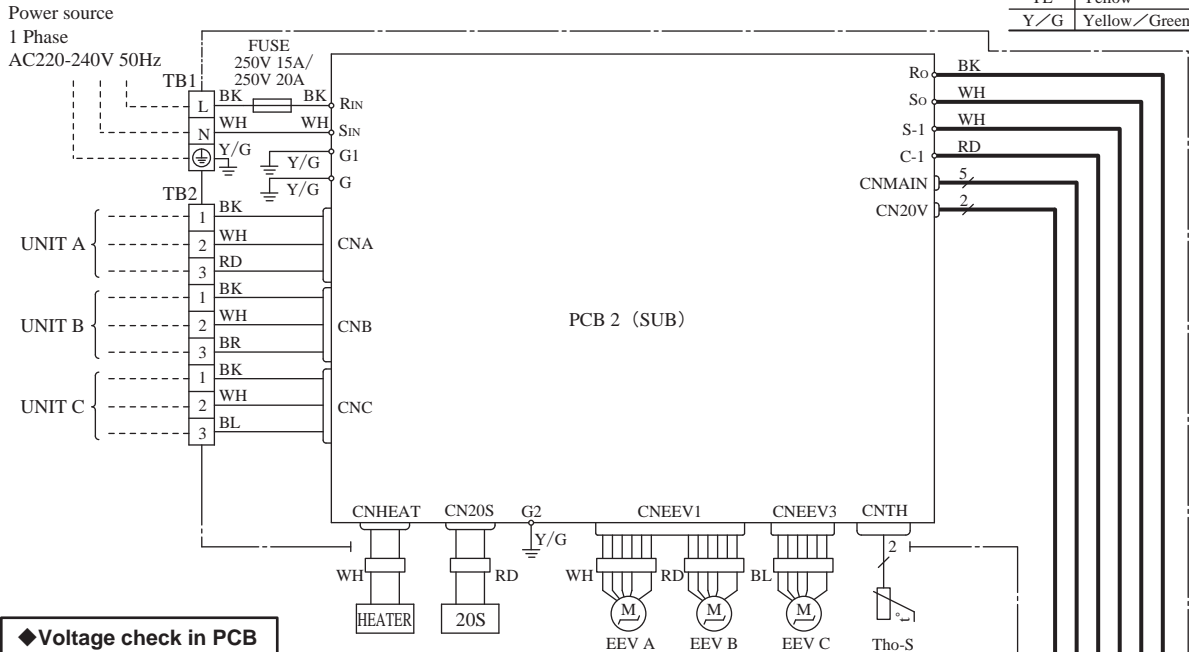
Model SCM50ZS-S

Color marks

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

⚠ CAUTION- HIGH VOLTAGE
 High voltage is produced in the control box. Don't touch electrical parts in the control box for 5 minutes after the unit is stopped.

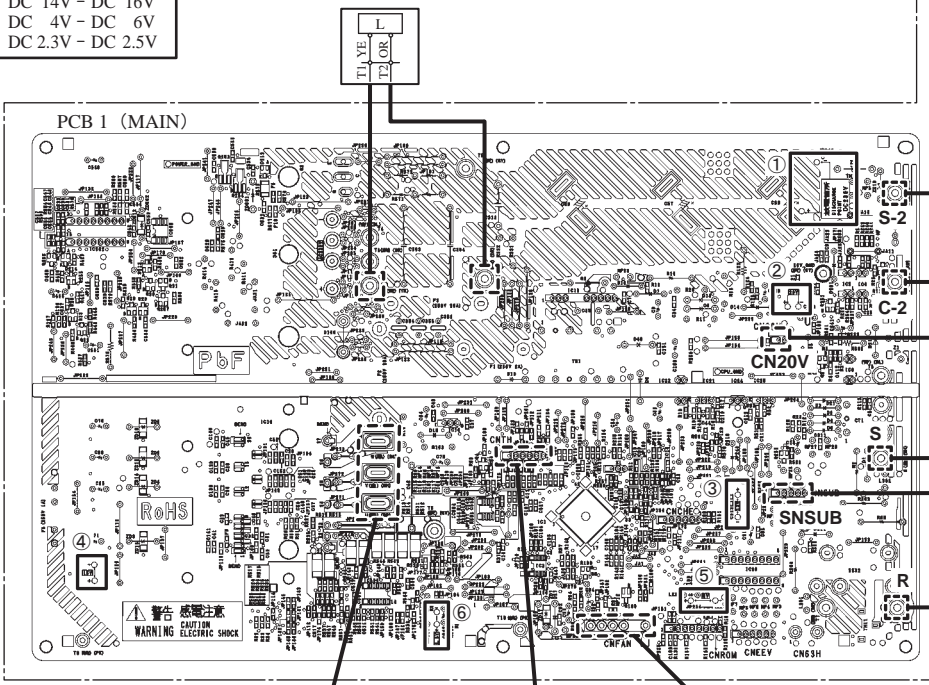
◆ Power source and serial signal inspection
 ① to ②: AC220/230/240V
 ② to ③ : Normal if the voltage oscillates between DC0 and approx. 20V



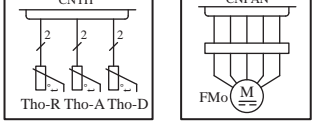
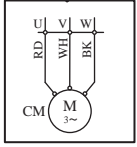
◆ Voltage check in PCB
 The normal range is as follows.
 Display Voltage range
 ①DC280V DC230V - DC310V
 ②DC 20V DC 18V - DC 22V
 ③DC 13V DC 12V - DC 14V
 ④DC 15V DC 14V - DC 16V
 ⑤DC 5V DC 4V - DC 6V
 ⑥DC 2.5V DC 2.3V - DC 2.5V

◆ Inspection of electronic expansion valve
 See page 219.

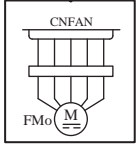
◆ Inspection of resistance value of sensor
 Remove the connector and check the resistance value. See the section of sensor characteristics on page



◆ Inspection power transistor
 Remove the fasten terminal and test output voltage



◆ Inspection of outdoor fan motor
 See page 219.

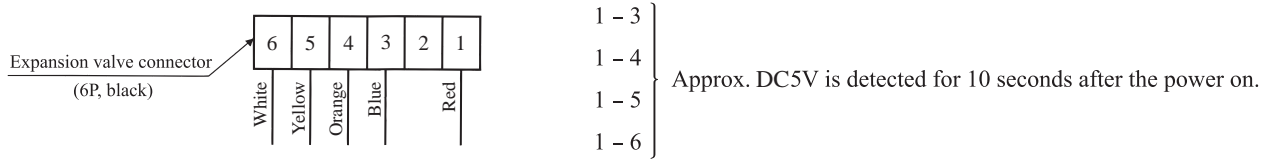


◆ Inspection of resistance value of sensor
 Remove the connector and check the resistance value. See the section of sensor characteristics on page 209.

(a) Inspection of electronic expansion valve

Electronic expansion valve operates for approx. 10 seconds after the power on, in order to determine its aperture. Check the operating sound and voltage during the period of time. (Voltage cannot be checked during operation in which only the aperture change occurs.)

- (i) If it is heard the sound of operating electronic expansion valve, it is almost normal.
- (ii) If the operating sound is not heard, check the output voltage.



- (iii) If voltage is detected, the outdoor sub PCB is normal.
- (iv) If the expansion valve does not operate (no operating sound) while voltage is detected, the expansion valve is defective.

• Inspection of electronic expansion valve as a separate unit

Measure the resistance between terminals with an analog tester.

Measuring point	Resistance when normal
1-6	46 ± 4Ω (at 20°C)
1-4	
1-3	
1-5	

(b) Outdoor fan motor check procedure

- When the outdoor fan motor error is detected, diagnose which of the outdoor fan motor or outdoor main PCB is defective.
- Diagnose this only after confirming that the indoor unit is normal.

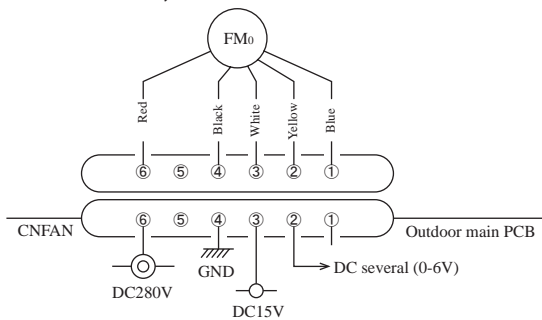
(i) Outdoor main PCB output check

- 1) Turn off the power.
- 2) Disconnect the outdoor fan motor connector CNFAN.
- 3) When the outdoor unit is operated by inserting the power source plug and pressing (ON) the backup switch for more than 5 seconds, if the voltage of pin No. ② in the following figure is output for 30 seconds at 20 seconds after turning “ON” the backup switch, the outdoor main PCB is normal but the fan motor is defective.

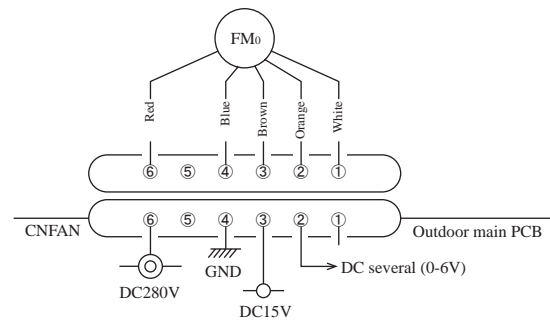
If the voltage is not detected, the outdoor main PCB is defective but the fan motor is normal.

Note (1) The voltage is output 3 times repeatedly. If it is not detected, the indoor unit displays the error message.

Models SCM40, 45



Model SCM50



Measuring point	Resistance when normal
⑥ - ④	DC280V
③ - ④	DC15V
② - ④	DC several V(0-6V)

(ii) Fan motor resistance check

Models SCM40, 45

Measuring point	Resistance when normal
⑥-④(Red - Black)	20 MΩ or higher
③-④(White - Black)	20 kΩ or higher

Model SCM50

Measuring point	Resistance when normal
⑥-④(Red - Blue)	20 MΩ or higher
③-④(Brown - Blue)	20 kΩ or higher

Notes(1) Remove the fan motor and measure it without power connected to it.

- (2) If the measured value is below the value when the motor is normal, it means that the fan motor is faulty.

11. TECHNICAL INFORMATION

(1) Model SCM40ZS-S

Information to identify the model(s) to which the information relates to				If function includes heating: Indicate the heating season the information relates to. Indicated values should relate to one heating season at a time. Include at least the heating season 'Average'			
Indoor unit model name		SRK20ZMX-S x 2		Average (mandatory)		Yes	
Outdoor unit model name		SCM40ZS-S		Warmer (if designated)		No	
Function (indicate if present)				Colder (if designated)			
cooling		Yes					
heating		Yes					
Item	symbol	value	unit	Item	symbol	value	class
Design load				Seasonal efficiency and energy efficiency class			
cooling	Pdesignc	4.00	kW	cooling	SEER	6.31	A++
heating / Average	Pdesignh	3.30	kW	heating / Average	SCOP/A	4.05	A+
heating / Warmer	Pdesignh	-	kW	heating / Warmer	SCOP/W	-	-
heating / Colder	Pdesignh	-	kW	heating / Colder	SCOP/C	-	-
Declared capacity at outdoor temperature Tdesignh				Back up heating capacity at outdoor temperature Tdesignh			
heating / Average (-10°C)	Pdh	3.30	kW	heating / Average (-10°C)	elbu	0	kW
heating / Warmer (2°C)	Pdh	-	kW	heating / Warmer (2°C)	elbu	-	kW
heating / Colder (-22°C)	Pdh	-	kW	heating / Colder (-22°C)	elbu	-	kW
Declared capacity for cooling, at indoor temperature 27(19)°C and outdoor temperature Tj				Declared energy efficiency ratio, at indoor temperature 27(19)°C and outdoor temperature Tj			
Tj=35°C	Pdc	4.00	kW	Tj=35°C	EERd	4.70	-
Tj=30°C	Pdc	2.80	kW	Tj=30°C	EERd	7.00	-
Tj=25°C	Pdc	3.00	kW	Tj=25°C	EERd	8.80	-
Tj=20°C	Pdc	3.20	kW	Tj=20°C	EERd	8.00	-
Declared capacity for heating / Average season, at indoor temperature 20°C and outdoor temperature Tj				Declared coefficient of performance / Average season, at indoor temperature 20°C and outdoor temperature Tj			
Tj=-7°C	Pdh	3.00	kW	Tj=-7°C	COPd	2.85	-
Tj=2°C	Pdh	1.80	kW	Tj=2°C	COPd	3.95	-
Tj=7°C	Pdh	1.80	kW	Tj=7°C	COPd	5.50	-
Tj=12°C	Pdh	2.60	kW	Tj=12°C	COPd	7.00	-
Tj=bivalent temperature	Pdh	3.30	kW	Tj=bivalent temperature	COPd	2.65	-
Tj=operating limit	Pdh	3.30	kW	Tj=operating limit	COPd	2.65	-
Declared capacity for heating / Warmer season, at indoor temperature 20°C and outdoor temperature Tj				Declared coefficient of performance / Warmer season, at indoor temperature 20°C and outdoor temperature Tj			
Tj=2°C	Pdh	-	kW	Tj=2°C	COPd	-	-
Tj=7°C	Pdh	-	kW	Tj=7°C	COPd	-	-
Tj=12°C	Pdh	-	kW	Tj=12°C	COPd	-	-
Tj=bivalent temperature	Pdh	-	kW	Tj=bivalent temperature	COPd	-	-
Tj=operating limit	Pdh	-	kW	Tj=operating limit	COPd	-	-
Declared capacity for heating / Colder season, at indoor temperature 20°C and outdoor temperature Tj				Declared coefficient of performance / Colder season, at indoor temperature 20°C and outdoor temperature Tj			
Tj=-7°C	Pdh	-	kW	Tj=-7°C	COPd	-	-
Tj=2°C	Pdh	-	kW	Tj=2°C	COPd	-	-
Tj=7°C	Pdh	-	kW	Tj=7°C	COPd	-	-
Tj=12°C	Pdh	-	kW	Tj=12°C	COPd	-	-
Tj=bivalent temperature	Pdh	-	kW	Tj=bivalent temperature	COPd	-	-
Tj=operating limit	Pdh	-	kW	Tj=operating limit	COPd	-	-
Tj=-15°C	Pdh	-	kW	Tj=-15°C	COPd	-	-
Bivalent temperature				Operating limit temperature			
heating / Average	Tbiv	-10	°C	heating / Average	Tol	-15	°C
heating / Warmer	Tbiv	-	°C	heating / Warmer	Tol	-	°C
heating / Colder	Tbiv	-	°C	heating / Colder	Tol	-	°C
Cycling interval capacity				Cycling interval efficiency			
for cooling	Pcycc	-	kW	for cooling	EERcyc	-	-
for heating	Pcyh	-	kW	for heating	COPcyc	-	-
Degradation coefficient				Degradation coefficient			
cooling	Cdc	0.25	-	heating	Cdh	0.25	-
Electric power input in power modes other than 'active mode'				Annual electricity consumption			
off mode	Poff	8	W	cooling	Qce	222	kWh/a
standby mode	Psb	8	W	heating / Average	Qhe	1140	kWh/a
thermostat-off mode	Pto	22	W	heating / Warmer	Qhe	-	kWh/a
crankcase heater mode	Pck	0	W	heating / colder	Qhe	-	kWh/a
Capacity control (indicate one of three options)				Other items			
fixed		No		Sound power level (indoor)	Lwa	53	dB(A)
staged		No		Sound power level (outdoor)	Lwa	62	dB(A)
variable		Yes		Global warming potential	GWP	1975	kgCO2eq.
				Rated air flow (indoor)	-	690	m3/h
				Rated air flow (outdoor)	-	1950	m3/h
Contact details for obtaining more information	Name and address of the manufacturer or of its authorised representative Mitsubishi Heavy Industries Air-Conditioning Europe, Ltd. 7 Roundwood Avenue, Stockley Park, Uxbridge, Middlesex, UB11 1AX United Kingdom						

Information to identify the model(s) to which the information relates to				If function includes heating: Indicate the heating season the information relates to. Indicated values should relate to one heating season at a time. Include at least the heating season 'Average'					
Indoor unit model name		SRK20ZS-S x 2		Average(mandatory)		Yes			
Outdoor unit model name		SCM40ZS-S		Warmer(if designated)		No			
Function(indicate if present)				Colder(if designated)				No	
cooling		Yes							
heating		Yes							
Item	symbol	value	unit	Item	symbol	value	class		
Design load				Seasonal efficiency and energy efficiency class					
cooling	Pdesignc	4.00	kW	cooling	SEER	5.72	A+		
heating / Average	Pdesignh	3.60	kW	heating / Average	SCOP/A	4.04	A+		
heating / Warmer	Pdesignh	-	kW	heating / Warmer	SCOP/W	-	-		
heating / Colder	Pdesignh	-	kW	heating / Colder	SCOP/C	-	-		
Declared capacity at outdoor temperature Tdesignh				Back up heating capacity at outdoor temperature Tdesignh					
heating / Average (-10°C)	Pdh	3.60	kW	heating / Average (-10°C)	elbu	0	kW		
heating / Warmer (2°C)	Pdh	-	kW	heating / Warmer (2°C)	elbu	-	kW		
heating / Colder (-22°C)	Pdh	-	kW	heating / Colder (-22°C)	elbu	-	kW		
Declared capacity for cooling, at indoor temperature 27(19)°C and outdoor temperature Tj				Declared energy efficiency ratio, at indoor temperature 27(19)°C and outdoor temperature Tj					
Tj=35°C	Pdc	4.00	kW	Tj=35°C	EERd	3.80	-		
Tj=30°C	Pdc	2.90	kW	Tj=30°C	EERd	5.95	-		
Tj=25°C	Pdc	2.80	kW	Tj=25°C	EERd	8.30	-		
Tj=20°C	Pdc	3.20	kW	Tj=20°C	EERd	7.20	-		
Declared capacity for heating / Average season, at indoor temperature 20°C and outdoor temperature Tj				Declared coefficient of performance / Average season, at indoor temperature 20°C and outdoor temperature Tj					
Tj=-7°C	Pdh	3.00	kW	Tj=-7°C	COPd	2.75	-		
Tj=2°C	Pdh	1.90	kW	Tj=2°C	COPd	4.10	-		
Tj=7°C	Pdh	2.10	kW	Tj=7°C	COPd	5.35	-		
Tj=12°C	Pdh	2.80	kW	Tj=12°C	COPd	6.45	-		
Tj=bivalent temperature	Pdh	3.60	kW	Tj=bivalent temperature	COPd	2.30	-		
Tj=operating limit	Pdh	3.30	kW	Tj=operating limit	COPd	2.35	-		
Declared capacity for heating / Warmer season, at indoor temperature 20°C and outdoor temperature Tj				Declared coefficient of performance / Warmer season, at indoor temperature 20°C and outdoor temperature Tj					
Tj=2°C	Pdh	-	kW	Tj=2°C	COPd	-	-		
Tj=7°C	Pdh	-	kW	Tj=7°C	COPd	-	-		
Tj=12°C	Pdh	-	kW	Tj=12°C	COPd	-	-		
Tj=bivalent temperature	Pdh	-	kW	Tj=bivalent temperature	COPd	-	-		
Tj=operating limit	Pdh	-	kW	Tj=operating limit	COPd	-	-		
Declared capacity for heating / Colder season, at indoor temperature 20°C and outdoor temperature Tj				Declared coefficient of performance / Colder season, at indoor temperature 20°C and outdoor temperature Tj					
Tj=-7°C	Pdh	-	kW	Tj=-7°C	COPd	-	-		
Tj=2°C	Pdh	-	kW	Tj=2°C	COPd	-	-		
Tj=7°C	Pdh	-	kW	Tj=7°C	COPd	-	-		
Tj=12°C	Pdh	-	kW	Tj=12°C	COPd	-	-		
Tj=bivalent temperature	Pdh	-	kW	Tj=bivalent temperature	COPd	-	-		
Tj=operating limit	Pdh	-	kW	Tj=operating limit	COPd	-	-		
Tj=-15°C	Pdh	-	kW	Tj=-15°C	COPd	-	-		
Bivalent temperature				Operating limit temperature					
heating / Average	Tbiv	-10	°C	heating / Average	Tol	-15	°C		
heating / Warmer	Tbiv	-	°C	heating / Warmer	Tol	-	°C		
heating / Colder	Tbiv	-	°C	heating / Colder	Tol	-	°C		
Cycling interval capacity				Cycling interval efficiency					
for cooling	Pcycc	-	kW	for cooling	EERcyc	-	-		
for heating	Pcyh	-	kW	for heating	COPcyc	-	-		
Degradation coefficient				Degradation coefficient					
cooling	Cdc	0.25	-	heating	Cdh	0.25	-		
Electric power input in power modes other than 'active mode				Annual electricity consumption					
off mode	Poff	9	W	cooling	Qce	245	kWh/a		
standby mode	Psb	9	W	heating / Average	Qhe	1249	kWh/a		
thermostat-off mode	Pto	14	W	heating / Warmer	Qhe	-	kWh/a		
crankcase heater mode	Pck	0	W	heating / colder	Qhe	-	kWh/a		
Capacity control(indicate one of three options)				Other items					
fixed		No		Sound power level(indoor)	Lwa	50	dB(A)		
staged		No		Sound power level(outdoor)	Lwa	62	dB(A)		
variable		Yes		Global warming potential	GWP	1975	kgCO2eq.		
				Rated air flow(indoor)		558	m3/h		
				Rated air flow(outdoor)		1950	m3/h		
Contact details for obtaining more information	Name and address of the manufacturer or of its authorised representative								
	Mitsubishi Heavy Industries Air-Conditioning Europe, Ltd. 7 Roundwood Avenue, Stockley Park, Uxbridge, Middlesex, UB11 1AX United Kingdom								

Information to identify the model(s) to which the information relates to				If function includes heating: Indicate the heating season the information relates to. Indicated values should relate to one heating season at a time. Include at least the heating season 'Average'			
Indoor unit model name		SKM20ZSP-S x 2		Average(mandatory)		Yes	
Outdoor unit model name		SCM40ZS-S		Warmer(if designated)		No	
Function(indicate if present)				Colder(if designated)			
cooling		Yes					
heating		Yes					
Item		symbol value unit		Item		symbol value class	
Design load				Seasonal efficiency and energy efficiency class			
cooling		Pdesignc 4.00 kW		cooling		SEER 5.70 A+	
heating / Average		Pdesignh 3.60 kW		heating / Average		SCOP/A 4.02 A+	
heating / Warmer		Pdesignh - kW		heating / Warmer		SCOP/W - -	
heating / Colder		Pdesignh - kW		heating / Colder		SCOP/C - -	
Declared capacity at outdoor temperature Tdesignh				Back up heating capacity at outdoor temperature Tdesignh			
heating / Average (-10°C)		Pdh 3.60 kW		heating / Average (-10°C)		elbu 0 kW	
heating / Warmer (2°C)		Pdh - kW		heating / Warmer (2°C)		elbu - kW	
heating / Colder (-22°C)		Pdh - kW		heating / Colder (-22°C)		elbu - kW	
Declared capacity for cooling, at indoor temperature 27(19)°C and outdoor temperature Tj				Declared energy efficiency ratio, at indoor temperature 27(19)°C and outdoor temperature Tj			
Tj=35°C		Pdc 4.00 kW		Tj=35°C		EERd 3.75 -	
Tj=30°C		Pdc 2.90 kW		Tj=30°C		EERd 5.85 -	
Tj=25°C		Pdc 2.80 kW		Tj=25°C		EERd 8.20 -	
Tj=20°C		Pdc 3.20 kW		Tj=20°C		EERd 7.10 -	
Declared capacity for heating / Average season, at indoor temperature 20°C and outdoor temperature Tj				Declared coefficient of performance / Average season, at indoor temperature 20°C and outdoor temperature Tj			
Tj=-7°C		Pdh 3.00 kW		Tj=-7°C		COPd 2.75 -	
Tj=2°C		Pdh 1.90 kW		Tj=2°C		COPd 4.10 -	
Tj=7°C		Pdh 2.10 kW		Tj=7°C		COPd 5.30 -	
Tj=12°C		Pdh 2.80 kW		Tj=12°C		COPd 6.35 -	
Tj=bivalent temperature		Pdh 3.60 kW		Tj=bivalent temperature		COPd 2.30 -	
Tj=operating limit		Pdh 3.30 kW		Tj=operating limit		COPd 2.35 -	
Declared capacity for heating / Warmer season, at indoor temperature 20°C and outdoor temperature Tj				Declared coefficient of performance / Warmer season, at indoor temperature 20°C and outdoor temperature Tj			
Tj=2°C		Pdh - kW		Tj=2°C		COPd - -	
Tj=7°C		Pdh - kW		Tj=7°C		COPd - -	
Tj=12°C		Pdh - kW		Tj=12°C		COPd - -	
Tj=bivalent temperature		Pdh - kW		Tj=bivalent temperature		COPd - -	
Tj=operating limit		Pdh - kW		Tj=operating limit		COPd - -	
Declared capacity for heating / Colder season, at indoor temperature 20°C and outdoor temperature Tj				Declared coefficient of performance / Colder season, at indoor temperature 20°C and outdoor temperature Tj			
Tj=-7°C		Pdh - kW		Tj=-7°C		COPd - -	
Tj=2°C		Pdh - kW		Tj=2°C		COPd - -	
Tj=7°C		Pdh - kW		Tj=7°C		COPd - -	
Tj=12°C		Pdh - kW		Tj=12°C		COPd - -	
Tj=bivalent temperature		Pdh - kW		Tj=bivalent temperature		COPd - -	
Tj=operating limit		Pdh - kW		Tj=operating limit		COPd - -	
Tj=-15°C		Pdh - kW		Tj=-15°C		COPd - -	
Bivalent temperature				Operating limit temperature			
heating / Average		Tbiv -10 °C		heating / Average		Tol -15 °C	
heating / Warmer		Tbiv - °C		heating / Warmer		Tol - °C	
heating / Colder		Tbiv - °C		heating / Colder		Tol - °C	
Cycling interval capacity				Cycling interval efficiency			
for cooling		Pcycc - kW		for cooling		EERcyc - -	
for heating		Pcyh - kW		for heating		COPcyc - -	
Degradation coefficient cooling				Degradation coefficient heating			
cooling		Cdc 0.25 -		heating		Cdh 0.25 -	
Electric power input in power modes other than 'active mode'				Annual electricity consumption			
off mode		Poff 8 W		cooling		Qce 246 kWh/a	
standby mode		Psb 8 W		heating / Average		Qhe 1253 kWh/a	
thermostat-off mode		Pto 13 W		heating / Warmer		Qhe - kWh/a	
crankcase heater mode		Pck 0 W		heating / colder		Qhe - kWh/a	
Capacity control(indicate one of three options)				Other items			
fixed		No		Sound power level(indoor)		Lwa 58 dB(A)	
staged		No		Sound power level(outdoor)		Lwa 62 dB(A)	
variable		Yes		Global warming potential		GWP 1975 kgCO2eq.	
				Rated air flow(indoor)		- 510 m3/h	
				Rated air flow(outdoor)		- 1950 m3/h	
Contact details for obtaining more information		Name and address of the manufacturer or of its authorised representative					
		Mitsubishi Heavy Industries Air-Conditioning Europe, Ltd. 7 Roundwood Avenue, Stockley Park, Uxbridge, Middlesex, UB11 1AX United Kingdom					

(2) Model SCM45ZS-S

Information to identify the model(s) to which the information relates to				If function includes heating: Indicate the heating season the information relates to. Indicated values should relate to one heating season at a time. Include at least the heating season 'Average'			
Indoor unit model name		SRK20ZMX-S + SRK25ZMX-S		Average(mandatory)		Yes	
Outdoor unit model name		SCM45ZS-S		Warmer(if designated)		No	
Function(indicate if present)				Colder(if designated)		No	
cooling		Yes					
heating		Yes					
Item	symbol	value	unit	Item	symbol	value	class
Design load				Seasonal efficiency and energy efficiency class			
cooling	Pdesignc	4.50	kW	cooling	SEER	6.43	A++
heating / Average	Pdesignh	4.10	kW	heating / Average	SCOP/A	4.11	A+
heating / Warmer	Pdesignh	-	kW	heating / Warmer	SCOP/W	-	-
heating / Colder	Pdesignh	-	kW	heating / Colder	SCOP/C	-	-
Declared capacity at outdoor temperature Tdesignh				Back up heating capacity at outdoor temperature Tdesignh			
heating / Average (-10°C)	Pdh	4.10	kW	heating / Average (-10°C)	elbu	0	kW
heating / Warmer (2°C)	Pdh	-	kW	heating / Warmer (2°C)	elbu	-	kW
heating / Colder (-22°C)	Pdh	-	kW	heating / Colder (-22°C)	elbu	-	kW
Declared capacity for cooling, at indoor temperature 27(19)°C and outdoor temperature Tj				Declared energy efficiency ratio, at indoor temperature 27(19)°C and outdoor temperature Tj			
Tj=35°C	Pdc	4.50	kW	Tj=35°C	EERd	4.30	-
Tj=30°C	Pdc	3.20	kW	Tj=30°C	EERd	6.75	-
Tj=25°C	Pdc	2.95	kW	Tj=25°C	EERd	9.15	-
Tj=20°C	Pdc	3.20	kW	Tj=20°C	EERd	8.00	-
Declared capacity for heating / Average season, at indoor temperature 20°C and outdoor temperature Tj				Declared coefficient of performance / Average season, at indoor temperature 20°C and outdoor temperature Tj			
Tj=-7°C	Pdh	3.60	kW	Tj=-7°C	COPd	2.85	-
Tj=2°C	Pdh	2.20	kW	Tj=2°C	COPd	4.00	-
Tj=7°C	Pdh	1.90	kW	Tj=7°C	COPd	5.50	-
Tj=12°C	Pdh	2.60	kW	Tj=12°C	COPd	7.00	-
Tj=bivalent temperature	Pdh	4.10	kW	Tj=bivalent temperature	COPd	2.50	-
Tj=operating limit	Pdh	4.10	kW	Tj=operating limit	COPd	2.55	-
Declared capacity for heating / Warmer season, at indoor temperature 20°C and outdoor temperature Tj				Declared coefficient of performance / Warmer season, at indoor temperature 20°C and outdoor temperature Tj			
Tj=2°C	Pdh	-	kW	Tj=2°C	COPd	-	-
Tj=7°C	Pdh	-	kW	Tj=7°C	COPd	-	-
Tj=12°C	Pdh	-	kW	Tj=12°C	COPd	-	-
Tj=bivalent temperature	Pdh	-	kW	Tj=bivalent temperature	COPd	-	-
Tj=operating limit	Pdh	-	kW	Tj=operating limit	COPd	-	-
Declared capacity for heating / Colder season, at indoor temperature 20°C and outdoor temperature Tj				Declared coefficient of performance / Colder season, at indoor temperature 20°C and outdoor temperature Tj			
Tj=-7°C	Pdh	-	kW	Tj=-7°C	COPd	-	-
Tj=2°C	Pdh	-	kW	Tj=2°C	COPd	-	-
Tj=7°C	Pdh	-	kW	Tj=7°C	COPd	-	-
Tj=12°C	Pdh	-	kW	Tj=12°C	COPd	-	-
Tj=bivalent temperature	Pdh	-	kW	Tj=bivalent temperature	COPd	-	-
Tj=operating limit	Pdh	-	kW	Tj=operating limit	COPd	-	-
Tj=-15°C	Pdh	-	kW	Tj=-15°C	COPd	-	-
Bivalent temperature				Operating limit temperature			
heating / Average	Tbiv	-10	°C	heating / Average	Tol	-15	°C
heating / Warmer	Tbiv	-	°C	heating / Warmer	Tol	-	°C
heating / Colder	Tbiv	-	°C	heating / Colder	Tol	-	°C
Cycling interval capacity				Cycling interval efficiency			
for cooling	Pcycc	-	kW	for cooling	EERcyc	-	-
for heating	Pcyh	-	kW	for heating	COPcyc	-	-
Degradation coefficient cooling				Degradation coefficient heating			
	Cdc	0.25	-		Cdh	0.25	-
Electric power input in power modes other than 'active mode				Annual electricity consumption			
off mode	Poff	8	W	cooling	Qce	245	kWh/a
standby mode	Psb	8	W	heating / Average	Qhe	1396	kWh/a
thermostat-off mode	Pto	23	W	heating / Warmer	Qhe	-	kWh/a
crankcase heater mode	Pck	0	W	heating / colder	Qhe	-	kWh/a
Capacity control(indicate one of three options)				Other items			
fixed		No		Sound power level(indoor)	Lwa	55	dB(A)
staged		No		Sound power level(outdoor)	Lwa	62	dB(A)
variable		Yes		Global warming potential	GWP	1975	kgCO2eq.
				Rated air flow(indoor)	-	750	m3/h
				Rated air flow(outdoor)	-	1950	m3/h
Contact details for obtaining more information	Name and address of the manufacturer or of its authorised representative Mitsubishi Heavy Industries Air-Conditioning Europe, Ltd. 7 Roundwood Avenue, Stockley Park, Uxbridge, Middlesex, UB11 1AX United Kingdom						

Information to identify the model(s) to which the information relates to				If function includes heating: Indicate the heating season the information relates to. Indicated values should relate to one heating season at a time. Include at least the heating season 'Average'			
Indoor unit model name		SRK20ZS-S + SRK25ZS-S		Average(mandatory)		Yes	
Outdoor unit model name		SCM45ZS-S		Warmer(if designated)		No	
Function(indicate if present)				Colder(if designated)			
cooling		Yes					
heating		Yes					
Item	symbol	value	unit	Item	symbol	value	class
Design load				Seasonal efficiency and energy efficiency class			
cooling	Pdesignc	4.50	kW	cooling	SEER	5.80	A+
heating / Average	Pdesignh	4.20	kW	heating / Average	SCOP/A	4.08	A+
heating / Warmer	Pdesignh	-	kW	heating / Warmer	SCOP/W	-	-
heating / Colder	Pdesignh	-	kW	heating / Colder	SCOP/C	-	-
Declared capacity at outdoor temperature Tdesignh				Back up heating capacity at outdoor temperature Tdesignh			
heating / Average (-10°C)	Pdh	4.20	kW	heating / Average (-10°C)	elbu	0	kW
heating / Warmer (2°C)	Pdh	-	kW	heating / Warmer (2°C)	elbu	-	kW
heating / Colder (-22°C)	Pdh	-	kW	heating / Colder (-22°C)	elbu	-	kW
Declared capacity for cooling, at indoor temperature 27(19)°C and outdoor temperature Tj				Declared energy efficiency ratio, at indoor temperature 27(19)°C and outdoor temperature Tj			
Tj=35°C	Pdc	4.50	kW	Tj=35°C	EERd	3.50	-
Tj=30°C	Pdc	3.30	kW	Tj=30°C	EERd	5.90	-
Tj=25°C	Pdc	2.80	kW	Tj=25°C	EERd	8.20	-
Tj=20°C	Pdc	3.20	kW	Tj=20°C	EERd	7.45	-
Declared capacity for heating / Average season, at indoor temperature 20°C and outdoor temperature Tj				Declared coefficient of performance / Average season, at indoor temperature 20°C and outdoor temperature Tj			
Tj=-7°C	Pdh	3.72	kW	Tj=-7°C	COPd	2.60	-
Tj=2°C	Pdh	2.26	kW	Tj=2°C	COPd	4.20	-
Tj=7°C	Pdh	2.10	kW	Tj=7°C	COPd	5.40	-
Tj=12°C	Pdh	2.82	kW	Tj=12°C	COPd	6.40	-
Tj=bivalent temperature	Pdh	4.20	kW	Tj=bivalent temperature	COPd	2.20	-
Tj=operating limit	Pdh	4.00	kW	Tj=operating limit	COPd	2.20	-
Declared capacity for heating / Warmer season, at indoor temperature 20°C and outdoor temperature Tj				Declared coefficient of performance / Warmer season, at indoor temperature 20°C and outdoor temperature Tj			
Tj=2°C	Pdh	-	kW	Tj=2°C	COPd	-	-
Tj=7°C	Pdh	-	kW	Tj=7°C	COPd	-	-
Tj=12°C	Pdh	-	kW	Tj=12°C	COPd	-	-
Tj=bivalent temperature	Pdh	-	kW	Tj=bivalent temperature	COPd	-	-
Tj=operating limit	Pdh	-	kW	Tj=operating limit	COPd	-	-
Declared capacity for heating / Colder season, at indoor temperature 20°C and outdoor temperature Tj				Declared coefficient of performance / Colder season, at indoor temperature 20°C and outdoor temperature Tj			
Tj=-7°C	Pdh	-	kW	Tj=-7°C	COPd	-	-
Tj=2°C	Pdh	-	kW	Tj=2°C	COPd	-	-
Tj=7°C	Pdh	-	kW	Tj=7°C	COPd	-	-
Tj=12°C	Pdh	-	kW	Tj=12°C	COPd	-	-
Tj=bivalent temperature	Pdh	-	kW	Tj=bivalent temperature	COPd	-	-
Tj=operating limit	Pdh	-	kW	Tj=operating limit	COPd	-	-
Tj=-15°C	Pdh	-	kW	Tj=-15°C	COPd	-	-
Bivalent temperature				Operating limit temperature			
heating / Average	Tbiv	-10	°C	heating / Average	Tol	-15	°C
heating / Warmer	Tbiv	-	°C	heating / Warmer	Tol	-	°C
heating / Colder	Tbiv	-	°C	heating / Colder	Tol	-	°C
Cycling interval capacity				Cycling interval efficiency			
for cooling	Pcycc	-	kW	for cooling	EERcyc	-	-
for heating	Pcyh	-	kW	for heating	COPcyc	-	-
Degradation coefficient				Degradation coefficient			
cooling	Cdc	0.25	-	heating	Cdh	0.25	-
Electric power input in power modes other than 'active mode				Annual electricity consumption			
off mode	Poff	9	W	cooling	Qce	272	kWh/a
standby mode	Psb	9	W	heating / Average	Qhe	1441	kWh/a
thermostat-off mode	Pto	14	W	heating / Warmer	Qhe	-	kWh/a
crankcase heater mode	Pck	0	W	heating / colder	Qhe	-	kWh/a
Capacity control(indicate one of three options)				Other items			
fixed		No		Sound power level(indoor)	Lwa	52	dB(A)
staged		No		Sound power level(outdoor)	Lwa	62	dB(A)
variable		Yes		Global warming potential	GWP	1975	kgCO2eq.
				Rated air flow(indoor)		594	m3/h
				Rated air flow(outdoor)		1950	m3/h
Contact details for obtaining more information	Name and address of the manufacturer or of its authorised representative Mitsubishi Heavy Industries Air-Conditioning Europe, Ltd. 7 Roundwood Avenue, Stockley Park, Uxbridge, Middlesex, UB11 1AX United Kingdom						

Information to identify the model(s) to which the information relates to				If function includes heating: Indicate the heating season the information relates to. Indicated values should relate to one heating season at a time. Include at least the heating season 'Average'			
Indoor unit model name		SKM20ZSP-S + SKM25ZSP-S		Average(mandatory)		Yes	
Outdoor unit model name		SCM45ZS-S		Warmer(if designated)		No	
Function(indicate if present)				Colder(if designated)			
cooling		Yes					
heating		Yes					
Item		symbol value unit		Item		symbol value class	
Design load				Seasonal efficiency and energy efficiency class			
cooling		Pdesignc 4.50 kW		cooling		SEER 5.77 A+	
heating / Average		Pdesignh 4.20 kW		heating / Average		SCOP/A 4.06 A+	
heating / Warmer		Pdesignh - kW		heating / Warmer		SCOP/W - -	
heating / Colder		Pdesignh - kW		heating / Colder		SCOP/C - -	
Declared capacity at outdoor temperature Tdesignh				Back up heating capacity at outdoor temperature Tdesignh			
heating / Average (-10°C)		Pdh 4.20 kW		heating / Average (-10°C)		elbu 0 kW	
heating / Warmer (2°C)		Pdh - kW		heating / Warmer (2°C)		elbu - kW	
heating / Colder (-22°C)		Pdh - kW		heating / Colder (-22°C)		elbu - kW	
Declared capacity for cooling, at indoor temperature 27(19)°C and outdoor temperature Tj				Declared energy efficiency ratio, at indoor temperature 27(19)°C and outdoor temperature Tj			
Tj=35°C		Pdc 4.50 kW		Tj=35°C		EERd 3.45 -	
Tj=30°C		Pdc 3.30 kW		Tj=30°C		EERd 5.75 -	
Tj=25°C		Pdc 2.80 kW		Tj=25°C		EERd 8.00 -	
Tj=20°C		Pdc 3.20 kW		Tj=20°C		EERd 7.25 -	
Declared capacity for heating / Average season, at indoor temperature 20°C and outdoor temperature Tj				Declared coefficient of performance / Average season, at indoor temperature 20°C and outdoor temperature Tj			
Tj=-7°C		Pdh 3.72 kW		Tj=-7°C		COPd 2.60 -	
Tj=2°C		Pdh 2.26 kW		Tj=2°C		COPd 4.15 -	
Tj=7°C		Pdh 2.10 kW		Tj=7°C		COPd 5.40 -	
Tj=12°C		Pdh 2.82 kW		Tj=12°C		COPd 6.40 -	
Tj=bivalent temperature		Pdh 4.20 kW		Tj=bivalent temperature		COPd 2.20 -	
Tj=operating limit		Pdh 4.00 kW		Tj=operating limit		COPd 2.20 -	
Declared capacity for heating / Warmer season, at indoor temperature 20°C and outdoor temperature Tj				Declared coefficient of performance / Warmer season, at indoor temperature 20°C and outdoor temperature Tj			
Tj=2°C		Pdh - kW		Tj=2°C		COPd - -	
Tj=7°C		Pdh - kW		Tj=7°C		COPd - -	
Tj=12°C		Pdh - kW		Tj=12°C		COPd - -	
Tj=bivalent temperature		Pdh - kW		Tj=bivalent temperature		COPd - -	
Tj=operating limit		Pdh - kW		Tj=operating limit		COPd - -	
Declared capacity for heating / Colder season, at indoor temperature 20°C and outdoor temperature Tj				Declared coefficient of performance / Colder season, at indoor temperature 20°C and outdoor temperature Tj			
Tj=-7°C		Pdh - kW		Tj=-7°C		COPd - -	
Tj=2°C		Pdh - kW		Tj=2°C		COPd - -	
Tj=7°C		Pdh - kW		Tj=7°C		COPd - -	
Tj=12°C		Pdh - kW		Tj=12°C		COPd - -	
Tj=bivalent temperature		Pdh - kW		Tj=bivalent temperature		COPd - -	
Tj=operating limit		Pdh - kW		Tj=operating limit		COPd - -	
Tj=-15°C		Pdh - kW		Tj=-15°C		COPd - -	
Bivalent temperature				Operating limit temperature			
heating / Average		Tbiv -10 °C		heating / Average		Tol -15 °C	
heating / Warmer		Tbiv - °C		heating / Warmer		Tol - °C	
heating / Colder		Tbiv - °C		heating / Colder		Tol - °C	
Cycling interval capacity				Cycling interval efficiency			
for cooling		Pcycc - kW		for cooling		EERcyc - -	
for heating		Pcych - kW		for heating		COPcyc - -	
Degradation coefficient				Degradation coefficient			
cooling		Cdc 0.25 -		heating		Cdh 0.25 -	
Electric power input in power modes other than 'active mode				Annual electricity consumption			
off mode		Poff 7 W		cooling		Qce 274 kWh/a	
standby mode		Psb 7 W		heating / Average		Qhe 1450 kWh/a	
thermostat-off mode		Pto 13 W		heating / Warmer		Qhe - kWh/a	
crankcase heater mode		Pck 0 W		heating / colder		Qhe - kWh/a	
Capacity control(indicate one of three options)				Other items			
fixed		No		Sound power level(indoor)		Lwa 58 dB(A)	
staged		No		Sound power level(outdoor)		Lwa 62 dB(A)	
variable		Yes		Global warming potential		GWP 1975 kgCO2eq.	
				Rated air flow(indoor)		- 510 m3/h	
				Rated air flow(outdoor)		- 1950 m3/h	
Contact details for obtaining more information		Name and address of the manufacturer or of its authorised representative					
		Mitsubishi Heavy Industries Air-Conditioning Europe, Ltd. 7 Roundwood Avenue, Stockley Park, Uxbridge, Middlesex, UB11 1AX United Kingdom					

(3) Model SCM50ZS-S

Information to identify the model(s) to which the information relates to				If function includes heating: Indicate the heating season the information relates to. Indicated values should relate to one heating season at a time. Include at least the heating season 'Average'			
Indoor unit model name		SRK25ZMX-S x 2		Average(mandatory)		Yes	
Outdoor unit model name		SCM50ZS-S		Warmer(if designated)		No	
Function(indicate if present)				Colder(if designated)			
cooling		Yes					
heating		Yes					
Item	symbol	value	unit	Item	symbol	value	class
Design load				Seasonal efficiency and energy efficiency class			
cooling	Pdesignc	5.00	kW	cooling	SEER	5.70	A+
heating / Average	Pdesignh	4.70	kW	heating / Average	SCOP/A	3.84	A
heating / Warmer	Pdesignh	-	kW	heating / Warmer	SCOP/W	-	-
heating / Colder	Pdesignh	-	kW	heating / Colder	SCOP/C	-	-
Declared capacity at outdoor temperature Tdesignh				Back up heating capacity at outdoor temperature Tdesignh			
heating / Average (-10°C)	Pdh	4.70	kW	heating / Average (-10°C)	elbu	0	kW
heating / Warmer (2°C)	Pdh	-	kW	heating / Warmer (2°C)	elbu	-	kW
heating / Colder (-22°C)	Pdh	-	kW	heating / Colder (-22°C)	elbu	-	kW
Declared capacity for cooling, at indoor temperature 27(19)°C and outdoor temperature Tj				Declared energy efficiency ratio, at indoor temperature 27(19)°C and outdoor temperature Tj			
Tj=35°C	Pdc	5.00	kW	Tj=35°C	EERd	3.80	-
Tj=30°C	Pdc	3.70	kW	Tj=30°C	EERd	5.80	-
Tj=25°C	Pdc	3.60	kW	Tj=25°C	EERd	8.30	-
Tj=20°C	Pdc	3.90	kW	Tj=20°C	EERd	7.50	-
Declared capacity for heating / Average season, at indoor temperature 20°C and outdoor temperature Tj				Declared coefficient of performance / Average season, at indoor temperature 20°C and outdoor temperature Tj			
Tj=-7°C	Pdh	4.00	kW	Tj=-7°C	COPd	2.75	-
Tj=2°C	Pdh	2.50	kW	Tj=2°C	COPd	3.60	-
Tj=7°C	Pdh	2.00	kW	Tj=7°C	COPd	5.30	-
Tj=12°C	Pdh	2.30	kW	Tj=12°C	COPd	6.30	-
Tj=bivalent temperature	Pdh	4.70	kW	Tj=bivalent temperature	COPd	2.55	-
Tj=operating limit	Pdh	4.70	kW	Tj=operating limit	COPd	2.45	-
Declared capacity for heating / Warmer season, at indoor temperature 20°C and outdoor temperature Tj				Declared coefficient of performance / Warmer season, at indoor temperature 20°C and outdoor temperature Tj			
Tj=2°C	Pdh	-	kW	Tj=2°C	COPd	-	-
Tj=7°C	Pdh	-	kW	Tj=7°C	COPd	-	-
Tj=12°C	Pdh	-	kW	Tj=12°C	COPd	-	-
Tj=bivalent temperature	Pdh	-	kW	Tj=bivalent temperature	COPd	-	-
Tj=operating limit	Pdh	-	kW	Tj=operating limit	COPd	-	-
Declared capacity for heating / Colder season, at indoor temperature 20°C and outdoor temperature Tj				Declared coefficient of performance / Colder season, at indoor temperature 20°C and outdoor temperature Tj			
Tj=-7°C	Pdh	-	kW	Tj=-7°C	COPd	-	-
Tj=2°C	Pdh	-	kW	Tj=2°C	COPd	-	-
Tj=7°C	Pdh	-	kW	Tj=7°C	COPd	-	-
Tj=12°C	Pdh	-	kW	Tj=12°C	COPd	-	-
Tj=bivalent temperature	Pdh	-	kW	Tj=bivalent temperature	COPd	-	-
Tj=operating limit	Pdh	-	kW	Tj=operating limit	COPd	-	-
Tj=-15°C	Pdh	-	kW	Tj=-15°C	COPd	-	-
Bivalent temperature				Operating limit temperature			
heating / Average	Tbiv	-10	°C	heating / Average	Tol	-15	°C
heating / Warmer	Tbiv	-	°C	heating / Warmer	Tol	-	°C
heating / Colder	Tbiv	-	°C	heating / Colder	Tol	-	°C
Cycling interval capacity				Cycling interval efficiency			
for cooling	Pcycc	-	kW	for cooling	EERcyc	-	-
for heating	Pcyh	-	kW	for heating	COPcyc	-	-
Degradation coefficient				Degradation coefficient			
cooling	Cdc	0.25	-	heating	Cdh	0.25	-
Electric power input in power modes other than 'active mode				Annual electricity consumption			
off mode	Poff	11	W	cooling	Qce	307	kWh/a
standby mode	Psb	11	W	heating / Average	Qhe	1714	kWh/a
thermostat-off mode	Pto	27	W	heating / Warmer	Qhe	-	kWh/a
crankcase heater mode	Pck	0	W	heating / colder	Qhe	-	kWh/a
Capacity control(indicate one of three options)				Other items			
fixed		No		Sound power level(indoor)	Lwa	55	dB(A)
staged		No		Sound power level(outdoor)	Lwa	62	dB(A)
variable		Yes		Global warming potential	GWP	1975	kgCO2eq.
				Rated air flow(indoor)	-	750	m3/h
				Rated air flow(outdoor)	-	2460	m3/h
Contact details for obtaining more information	Name and address of the manufacturer or of its authorised representative Mitsubishi Heavy Industries Air-Conditioning Europe, Ltd. 7 Roundwood Avenue, Stockley Park, Uxbridge, Middlesex, UB11 1AX United Kingdom						

Information to identify the model(s) to which the information relates to				If function includes heating: Indicate the heating season the information relates to. Indicated values should relate to one heating season at a time. Include at least the heating season 'Average'			
Indoor unit model name		SRK20ZMX-S x 3		Average(mandatory)		Yes	
Outdoor unit model name		SCM50ZS-S		Warmer(if designated)		No	
Function(indicate if present)				Colder(if designated)			
cooling		Yes					
heating		Yes					
Item	symbol	value	unit	Item	symbol	value	class
Design load				Seasonal efficiency and energy efficiency class			
cooling	Pdesignc	5.00	kW	cooling	SEER	6.73	A++
heating / Average	Pdesignh	4.70	kW	heating / Average	SCOP/A	4.02	A+
heating / Warmer	Pdesignh	-	kW	heating / Warmer	SCOP/W	-	-
heating / Colder	Pdesignh	-	kW	heating / Colder	SCOP/C	-	-
Declared capacity at outdoor temperature Tdesignh				Back up heating capacity at outdoor temperature Tdesignh			
heating / Average (-10°C)	Pdh	4.70	kW	heating / Average (-10°C)	elbu	0	kW
heating / Warmer (2°C)	Pdh	-	kW	heating / Warmer (2°C)	elbu	-	kW
heating / Colder (-22°C)	Pdh	-	kW	heating / Colder (-22°C)	elbu	-	kW
Declared capacity for cooling, at indoor temperature 27(19)°C and outdoor temperature Tj				Declared energy efficiency ratio, at indoor temperature 27(19)°C and outdoor temperature Tj			
Tj=35°C	Pdc	5.00	kW	Tj=35°C	EERd	4.80	-
Tj=30°C	Pdc	3.70	kW	Tj=30°C	EERd	7.10	-
Tj=25°C	Pdc	3.60	kW	Tj=25°C	EERd	9.90	-
Tj=20°C	Pdc	3.90	kW	Tj=20°C	EERd	9.10	-
Declared capacity for heating / Average season, at indoor temperature 20°C and outdoor temperature Tj				Declared coefficient of performance / Average season, at indoor temperature 20°C and outdoor temperature Tj			
Tj=-7°C	Pdh	4.00	kW	Tj=-7°C	COPd	2.80	-
Tj=2°C	Pdh	2.50	kW	Tj=2°C	COPd	3.90	-
Tj=7°C	Pdh	2.00	kW	Tj=7°C	COPd	5.30	-
Tj=12°C	Pdh	2.30	kW	Tj=12°C	COPd	6.60	-
Tj=bivalent temperature	Pdh	4.70	kW	Tj=bivalent temperature	COPd	2.55	-
Tj=operating limit	Pdh	4.70	kW	Tj=operating limit	COPd	2.45	-
Declared capacity for heating / Warmer season, at indoor temperature 20°C and outdoor temperature Tj				Declared coefficient of performance / Warmer season, at indoor temperature 20°C and outdoor temperature Tj			
Tj=2°C	Pdh	-	kW	Tj=2°C	COPd	-	-
Tj=7°C	Pdh	-	kW	Tj=7°C	COPd	-	-
Tj=12°C	Pdh	-	kW	Tj=12°C	COPd	-	-
Tj=bivalent temperature	Pdh	-	kW	Tj=bivalent temperature	COPd	-	-
Tj=operating limit	Pdh	-	kW	Tj=operating limit	COPd	-	-
Declared capacity for heating / Colder season, at indoor temperature 20°C and outdoor temperature Tj				Declared coefficient of performance / Colder season, at indoor temperature 20°C and outdoor temperature Tj			
Tj=-7°C	Pdh	-	kW	Tj=-7°C	COPd	-	-
Tj=2°C	Pdh	-	kW	Tj=2°C	COPd	-	-
Tj=7°C	Pdh	-	kW	Tj=7°C	COPd	-	-
Tj=12°C	Pdh	-	kW	Tj=12°C	COPd	-	-
Tj=bivalent temperature	Pdh	-	kW	Tj=bivalent temperature	COPd	-	-
Tj=operating limit	Pdh	-	kW	Tj=operating limit	COPd	-	-
Tj=-15°C	Pdh	-	kW	Tj=-15°C	COPd	-	-
Bivalent temperature				Operating limit temperature			
heating / Average	Tbiv	-10	°C	heating / Average	Tol	-15	°C
heating / Warmer	Tbiv	-	°C	heating / Warmer	Tol	-	°C
heating / Colder	Tbiv	-	°C	heating / Colder	Tol	-	°C
Cycling interval capacity				Cycling interval efficiency			
for cooling	Pcycc	-	kW	for cooling	EERcyc	-	-
for heating	Pcyh	-	kW	for heating	COPcyc	-	-
Degradation coefficient cooling				Degradation coefficient heating			
	Cdc	0.25	-		Cdh	0.25	-
Electric power input in power modes other than 'active mode				Annual electricity consumption			
off mode	Poff	12	W	cooling	Qce	261	kWh/a
standby mode	Psb	12	W	heating / Average	Qhe	1637	kWh/a
thermostat-off mode	Pto	26	W	heating / Warmer	Qhe	-	kWh/a
crankcase heater mode	Pck	0	W	heating / colder	Qhe	-	kWh/a
Capacity control(indicate one of three options)				Other items			
fixed		No		Sound power level(indoor)	Lwa	53	dB(A)
staged		No		Sound power level(outdoor)	Lwa	62	dB(A)
variable		Yes		Global warming potential	GWP	1975	kgCO2eq.
				Rated air flow(indoor)	-	690	m3/h
				Rated air flow(outdoor)	-	2460	m3/h
Contact details for obtaining more information	Name and address of the manufacturer or of its authorised representative Mitsubishi Heavy Industries Air-Conditioning Europe, Ltd. 7 Roundwood Avenue, Stockley Park, Uxbridge, Middlesex, UB11 1AX United Kingdom						

Information to identify the model(s) to which the information relates to				If function includes heating: Indicate the heating season the information relates to. Indicated values should relate to one heating season at a time. Include at least the heating season 'Average'			
Indoor unit model name		SRK25ZS-S x 2		Average(mandatory)		Yes	
Outdoor unit model name		SCM50ZS-S		Warmer(if designated)		No	
Function(indicate if present)				Colder(if designated)			
cooling		Yes					
heating		Yes					
Item	symbol	value	unit	Item	symbol	value	class
Design load				Seasonal efficiency and energy efficiency class			
cooling	Pdesignc	5.00	kW	cooling	SEER	5.60	A+
heating / Average	Pdesignh	4.75	kW	heating / Average	SCOP/A	3.94	A
heating / Warmer	Pdesignh	-	kW	heating / Warmer	SCOP/W	-	-
heating / Colder	Pdesignh	-	kW	heating / Colder	SCOP/C	-	-
Declared capacity at outdoor temperature Tdesignh				Back up heating capacity at outdoor temperature Tdesignh			
heating / Average (-10°C)	Pdh	4.75	kW	heating / Average (-10°C)	elbu	0	kW
heating / Warmer (2°C)	Pdh	-	kW	heating / Warmer (2°C)	elbu	-	kW
heating / Colder (-22°C)	Pdh	-	kW	heating / Colder (-22°C)	elbu	-	kW
Declared capacity for cooling, at indoor temperature 27(19)°C and outdoor temperature Tj				Declared energy efficiency ratio, at indoor temperature 27(19)°C and outdoor temperature Tj			
Tj=35°C	Pdc	5.00	kW	Tj=35°C	EERd	3.45	-
Tj=30°C	Pdc	3.70	kW	Tj=30°C	EERd	5.15	-
Tj=25°C	Pdc	3.20	kW	Tj=25°C	EERd	8.10	-
Tj=20°C	Pdc	3.65	kW	Tj=20°C	EERd	7.60	-
Declared capacity for heating / Average season, at indoor temperature 20°C and outdoor temperature Tj				Declared coefficient of performance / Average season, at indoor temperature 20°C and outdoor temperature Tj			
Tj=-7°C	Pdh	4.40	kW	Tj=-7°C	COPd	2.60	-
Tj=2°C	Pdh	2.60	kW	Tj=2°C	COPd	4.15	-
Tj=7°C	Pdh	2.20	kW	Tj=7°C	COPd	4.95	-
Tj=12°C	Pdh	3.70	kW	Tj=12°C	COPd	5.60	-
Tj=bivalent temperature	Pdh	4.75	kW	Tj=bivalent temperature	COPd	2.15	-
Tj=operating limit	Pdh	4.30	kW	Tj=operating limit	COPd	2.00	-
Declared capacity for heating / Warmer season, at indoor temperature 20°C and outdoor temperature Tj				Declared coefficient of performance / Warmer season, at indoor temperature 20°C and outdoor temperature Tj			
Tj=2°C	Pdh	-	kW	Tj=2°C	COPd	-	-
Tj=7°C	Pdh	-	kW	Tj=7°C	COPd	-	-
Tj=12°C	Pdh	-	kW	Tj=12°C	COPd	-	-
Tj=bivalent temperature	Pdh	-	kW	Tj=bivalent temperature	COPd	-	-
Tj=operating limit	Pdh	-	kW	Tj=operating limit	COPd	-	-
Declared capacity for heating / Colder season, at indoor temperature 20°C and outdoor temperature Tj				Declared coefficient of performance / Colder season, at indoor temperature 20°C and outdoor temperature Tj			
Tj=-7°C	Pdh	-	kW	Tj=-7°C	COPd	-	-
Tj=2°C	Pdh	-	kW	Tj=2°C	COPd	-	-
Tj=7°C	Pdh	-	kW	Tj=7°C	COPd	-	-
Tj=12°C	Pdh	-	kW	Tj=12°C	COPd	-	-
Tj=bivalent temperature	Pdh	-	kW	Tj=bivalent temperature	COPd	-	-
Tj=operating limit	Pdh	-	kW	Tj=operating limit	COPd	-	-
Tj=-15°C	Pdh	-	kW	Tj=-15°C	COPd	-	-
Bivalent temperature				Operating limit temperature			
heating / Average	Tbiv	-10	°C	heating / Average	Tol	-15	°C
heating / Warmer	Tbiv	-	°C	heating / Warmer	Tol	-	°C
heating / Colder	Tbiv	-	°C	heating / Colder	Tol	-	°C
Cycling interval capacity				Cycling interval efficiency			
for cooling	Pcycc	-	kW	for cooling	EERcyc	-	-
for heating	Pcyh	-	kW	for heating	COPcyc	-	-
Degradation coefficient				Degradation coefficient			
cooling	Cdc	0.25	-	heating	Cdh	0.25	-
Electric power input in power modes other than 'active mode				Annual electricity consumption			
off mode	Poff	10	W	cooling	Qce	313	kWh/a
standby mode	Psb	10	W	heating / Average	Qhe	1688	kWh/a
thermostat-off mode	Pto	14	W	heating / Warmer	Qhe	-	kWh/a
crankcase heater mode	Pck	0	W	heating / colder	Qhe	-	kWh/a
Capacity control(indicate one of three options)				Other items			
fixed		No		Sound power level(indoor)	Lwa	52	dB(A)
staged		No		Sound power level(outdoor)	Lwa	62	dB(A)
variable		Yes		Global warming potential	GWP	1975	kgCO2eq.
				Rated air flow(indoor)	-	594	m3/h
				Rated air flow(outdoor)	-	2460	m3/h
Contact details for obtaining more information	Name and address of the manufacturer or of its authorised representative Mitsubishi Heavy Industries Air-Conditioning Europe, Ltd. 7 Roundwood Avenue, Stockley Park, Uxbridge, Middlesex, UB11 1AX United Kingdom						

Information to identify the model(s) to which the information relates to				If function includes heating: Indicate the heating season the information relates to. Indicated values should relate to one heating season at a time. Include at least the heating season 'Average'			
Indoor unit model name		SRK20ZS-S x 3					
Outdoor unit model name		SCM50ZS-S					
Function(indicate if present)				Average(mandatory)			
cooling		Yes		Warmer(if designated)		No	
heating		Yes		Colder(if designated)		No	
Item	symbol	value	unit	Item	symbol	value	class
Design load				Seasonal efficiency and energy efficiency class			
cooling	Pdesignc	5.00	kW	cooling	SEER	6.57	A++
heating / Average	Pdesignh	4.75	kW	heating / Average	SCOP/A	3.95	A
heating / Warmer	Pdesignh	-	kW	heating / Warmer	SCOP/W	-	-
heating / Colder	Pdesignh	-	kW	heating / Colder	SCOP/C	-	-
Declared capacity at outdoor temperature Tdesignh				Back up heating capacity at outdoor temperature Tdesignh			
heating / Average (-10°C)	Pdh	4.75	kW	heating / Average (-10°C)	elbu	0	kW
heating / Warmer (2°C)	Pdh	-	kW	heating / Warmer (2°C)	elbu	-	kW
heating / Colder (-22°C)	Pdh	-	kW	heating / Colder (-22°C)	elbu	-	kW
Declared capacity for cooling, at indoor temperature 27(19)°C and outdoor temperature Tj				Declared energy efficiency ratio, at indoor temperature 27(19)°C and outdoor temperature Tj			
Tj=35°C	Pdc	5.00	kW	Tj=35°C	EERd	4.40	-
Tj=30°C	Pdc	3.70	kW	Tj=30°C	EERd	6.90	-
Tj=25°C	Pdc	3.20	kW	Tj=25°C	EERd	9.40	-
Tj=20°C	Pdc	3.65	kW	Tj=20°C	EERd	8.60	-
Declared capacity for heating / Average season, at indoor temperature 20°C and outdoor temperature Tj				Declared coefficient of performance / Average season, at indoor temperature 20°C and outdoor temperature Tj			
Tj=-7°C	Pdh	4.40	kW	Tj=-7°C	COPd	2.60	-
Tj=2°C	Pdh	2.60	kW	Tj=2°C	COPd	4.20	-
Tj=7°C	Pdh	2.20	kW	Tj=7°C	COPd	4.90	-
Tj=12°C	Pdh	3.70	kW	Tj=12°C	COPd	5.55	-
Tj=bivalent temperature	Pdh	4.75	kW	Tj=bivalent temperature	COPd	2.15	-
Tj=operating limit	Pdh	4.30	kW	Tj=operating limit	COPd	2.00	-
Declared capacity for heating / Warmer season, at indoor temperature 20°C and outdoor temperature Tj				Declared coefficient of performance / Warmer season, at indoor temperature 20°C and outdoor temperature Tj			
Tj=2°C	Pdh	-	kW	Tj=2°C	COPd	-	-
Tj=7°C	Pdh	-	kW	Tj=7°C	COPd	-	-
Tj=12°C	Pdh	-	kW	Tj=12°C	COPd	-	-
Tj=bivalent temperature	Pdh	-	kW	Tj=bivalent temperature	COPd	-	-
Tj=operating limit	Pdh	-	kW	Tj=operating limit	COPd	-	-
Declared capacity for heating / Colder season, at indoor temperature 20°C and outdoor temperature Tj				Declared coefficient of performance / Colder season, at indoor temperature 20°C and outdoor temperature Tj			
Tj=-7°C	Pdh	-	kW	Tj=-7°C	COPd	-	-
Tj=2°C	Pdh	-	kW	Tj=2°C	COPd	-	-
Tj=7°C	Pdh	-	kW	Tj=7°C	COPd	-	-
Tj=12°C	Pdh	-	kW	Tj=12°C	COPd	-	-
Tj=bivalent temperature	Pdh	-	kW	Tj=bivalent temperature	COPd	-	-
Tj=operating limit	Pdh	-	kW	Tj=operating limit	COPd	-	-
Tj=-15°C	Pdh	-	kW	Tj=-15°C	COPd	-	-
Bivalent temperature				Operating limit temperature			
heating / Average	Tbiv	-10	°C	heating / Average	Tol	-15	°C
heating / Warmer	Tbiv	-	°C	heating / Warmer	Tol	-	°C
heating / Colder	Tbiv	-	°C	heating / Colder	Tol	-	°C
Cycling interval capacity				Cycling interval efficiency			
for cooling	Pcycc	-	kW	for cooling	EERcyc	-	-
for heating	Pcych	-	kW	for heating	COPcyc	-	-
Degradation coefficient				Degradation coefficient			
cooling	Cdc	0.25	-	heating	Cdh	0.25	-
Electric power input in power modes other than 'active mode'				Annual electricity consumption			
off mode	Poff	11	W	cooling	Qce	267	kWh/a
standby mode	Psb	11	W	heating / Average	Qhe	1685	kWh/a
thermostat-off mode	Pto	22	W	heating / Warmer	Qhe	-	kWh/a
crankcase heater mode	Pck	0	W	heating / colder	Qhe	-	kWh/a
Capacity control(indicate one of three options)				Other items			
fixed		No		Sound power level(indoor)	Lwa	50	dB(A)
staged		No		Sound power level(outdoor)	Lwa	62	dB(A)
variable		Yes		Global warming potential	GWP	1975	kgCO2eq.
				Rated air flow(indoor)	-	558	m3/h
				Rated air flow(outdoor)	-	2460	m3/h
Contact details for obtaining more information		Name and address of the manufacturer or of its authorised representative					
		Mitsubishi Heavy Industries Air-Conditioning Europe, Ltd. 7 Roundwood Avenue, Stockley Park, Uxbridge, Middlesex, UB11 1AX United Kingdom					

Information to identify the model(s) to which the information relates to				If function includes heating: Indicate the heating season the information relates to. Indicated values should relate to one heating season at a time. Include at least the heating season 'Average'			
Indoor unit model name		SKM20ZSP-S x 3		Average(mandatory)		Yes	
Outdoor unit model name		SCM50ZS-S		Warmer(if designated)		No	
Function(indicate if present)				Colder(if designated)			
cooling		Yes					
heating		Yes					
Item	symbol	value	unit	Item	symbol	value	class
Design load				Seasonal efficiency and energy efficiency class			
cooling	Pdesignc	5.00	kW	cooling	SEER	5.94	A+
heating / Average	Pdesignh	4.75	kW	heating / Average	SCOP/A	3.93	A
heating / Warmer	Pdesignh	-	kW	heating / Warmer	SCOP/W	-	-
heating / Colder	Pdesignh	-	kW	heating / Colder	SCOP/C	-	-
Declared capacity at outdoor temperature Tdesignh				Back up heating capacity at outdoor temperature Tdesignh			
heating / Average (-10°C)	Pdh	4.75	kW	heating / Average (-10°C)	elbu	0	kW
heating / Warmer (2°C)	Pdh	-	kW	heating / Warmer (2°C)	elbu	-	kW
heating / Colder (-22°C)	Pdh	-	kW	heating / Colder (-22°C)	elbu	-	kW
Declared capacity for cooling, at indoor temperature 27(19)°C and outdoor temperature Tj				Declared energy efficiency ratio, at indoor temperature 27(19)°C and outdoor temperature Tj			
Tj=35°C	Pdc	5.00	kW	Tj=35°C	EERd	4.20	-
Tj=30°C	Pdc	3.70	kW	Tj=30°C	EERd	6.00	-
Tj=25°C	Pdc	3.20	kW	Tj=25°C	EERd	8.00	-
Tj=20°C	Pdc	3.65	kW	Tj=20°C	EERd	7.90	-
Declared capacity for heating / Average season, at indoor temperature 20°C and outdoor temperature Tj				Declared coefficient of performance / Average season, at indoor temperature 20°C and outdoor temperature Tj			
Tj=-7°C	Pdh	4.40	kW	Tj=-7°C	COPd	2.60	-
Tj=2°C	Pdh	2.60	kW	Tj=2°C	COPd	4.15	-
Tj=7°C	Pdh	2.20	kW	Tj=7°C	COPd	4.90	-
Tj=12°C	Pdh	3.70	kW	Tj=12°C	COPd	5.60	-
Tj=bivalent temperature	Pdh	4.75	kW	Tj=bivalent temperature	COPd	2.15	-
Tj=operating limit	Pdh	4.30	kW	Tj=operating limit	COPd	2.00	-
Declared capacity for heating / Warmer season, at indoor temperature 20°C and outdoor temperature Tj				Declared coefficient of performance / Warmer season, at indoor temperature 20°C and outdoor temperature Tj			
Tj=2°C	Pdh	-	kW	Tj=2°C	COPd	-	-
Tj=7°C	Pdh	-	kW	Tj=7°C	COPd	-	-
Tj=12°C	Pdh	-	kW	Tj=12°C	COPd	-	-
Tj=bivalent temperature	Pdh	-	kW	Tj=bivalent temperature	COPd	-	-
Tj=operating limit	Pdh	-	kW	Tj=operating limit	COPd	-	-
Declared capacity for heating / Colder season, at indoor temperature 20°C and outdoor temperature Tj				Declared coefficient of performance / Colder season, at indoor temperature 20°C and outdoor temperature Tj			
Tj=-7°C	Pdh	-	kW	Tj=-7°C	COPd	-	-
Tj=2°C	Pdh	-	kW	Tj=2°C	COPd	-	-
Tj=7°C	Pdh	-	kW	Tj=7°C	COPd	-	-
Tj=12°C	Pdh	-	kW	Tj=12°C	COPd	-	-
Tj=bivalent temperature	Pdh	-	kW	Tj=bivalent temperature	COPd	-	-
Tj=operating limit	Pdh	-	kW	Tj=operating limit	COPd	-	-
Tj=-15°C	Pdh	-	kW	Tj=-15°C	COPd	-	-
Bivalent temperature				Operating limit temperature			
heating / Average	Tbiv	-10	°C	heating / Average	Tol	-15	°C
heating / Warmer	Tbiv	-	°C	heating / Warmer	Tol	-	°C
heating / Colder	Tbiv	-	°C	heating / Colder	Tol	-	°C
Cycling interval capacity				Cycling interval efficiency			
for cooling	Pcycc	-	kW	for cooling	EERcyc	-	-
for heating	Pcyh	-	kW	for heating	COPcyc	-	-
Degradation coefficient				Degradation coefficient			
cooling	Cdc	0.25	-	heating	Cdh	0.25	-
Electric power input in power modes other than 'active mode				Annual electricity consumption			
off mode	Poff	10	W	cooling	Qce	295	kWh/a
standby mode	Psb	10	W	heating / Average	Qhe	1692	kWh/a
thermostat-off mode	Pto	16	W	heating / Warmer	Qhe	-	kWh/a
crankcase heater mode	Pck	0	W	heating / colder	Qhe	-	kWh/a
Capacity control(indicate one of three options)				Other items			
fixed		No		Sound power level(indoor)	Lwa	58	dB(A)
staged		No		Sound power level(outdoor)	Lwa	62	dB(A)
variable		Yes		Global warming potential	GWP	1975	kgCO2eq.
				Rated air flow(indoor)	-	510	m3/h
				Rated air flow(outdoor)	-	2460	m3/h
Contact details for obtaining more information	Name and address of the manufacturer or of its authorised representative Mitsubishi Heavy Industries Air-Conditioning Europe, Ltd. 7 Roundwood Avenue, Stockley Park, Uxbridge, Middlesex, UB11 1AX United Kingdom						

Information to identify the model(s) to which the information relates to				If function includes heating: Indicate the heating season the information relates to. Indicated values should relate to one heating season at a time. Include at least the heating season 'Average'					
Indoor unit model name		SKM25ZSP-S x 2		Average(mandatory)		Yes			
Outdoor unit model name		SCM50ZS-S		Warmer(if designated)		No			
Function(indicate if present)				Colder(if designated)				No	
cooling		Yes							
heating		Yes							
Item	symbol	value	unit	Item	symbol	value	class		
Design load				Seasonal efficiency and energy efficiency class					
cooling	Pdesignc	5.00	kW	cooling	SEER	5.11	A		
heating / Average	Pdesignh	4.75	kW	heating / Average	SCOP/A	3.92	A		
heating / Warmer	Pdesignh	-	kW	heating / Warmer	SCOP/W	-	-		
heating / Colder	Pdesignh	-	kW	heating / Colder	SCOP/C	-	-		
Declared capacity at outdoor temperature Tdesignh				Back up heating capacity at outdoor temperature Tdesignh					
heating / Average (-10°C)	Pdh	4.75	kW	heating / Average (-10°C)	elbu	0	kW		
heating / Warmer (2°C)	Pdh	-	kW	heating / Warmer (2°C)	elbu	-	kW		
heating / Colder (-22°C)	Pdh	-	kW	heating / Colder (-22°C)	elbu	-	kW		
Declared capacity for cooling, at indoor temperature 27(19)°C and outdoor temperature Tj				Declared energy efficiency ratio, at indoor temperature 27(19)°C and outdoor temperature Tj					
Tj=35°C	Pdc	5.00	kW	Tj=35°C	EERd	3.25	-		
Tj=30°C	Pdc	3.70	kW	Tj=30°C	EERd	4.85	-		
Tj=25°C	Pdc	3.20	kW	Tj=25°C	EERd	7.05	-		
Tj=20°C	Pdc	3.65	kW	Tj=20°C	EERd	6.70	-		
Declared capacity for heating / Average season, at indoor temperature 20°C and outdoor temperature Tj				Declared coefficient of performance / Average season, at indoor temperature 20°C and outdoor temperature Tj					
Tj=-7°C	Pdh	4.40	kW	Tj=-7°C	COPd	2.60	-		
Tj=2°C	Pdh	2.60	kW	Tj=2°C	COPd	4.10	-		
Tj=7°C	Pdh	2.20	kW	Tj=7°C	COPd	4.95	-		
Tj=12°C	Pdh	3.70	kW	Tj=12°C	COPd	5.60	-		
Tj=bivalent temperature	Pdh	4.75	kW	Tj=bivalent temperature	COPd	2.15	-		
Tj=operating limit	Pdh	4.30	kW	Tj=operating limit	COPd	2.00	-		
Declared capacity for heating / Warmer season, at indoor temperature 20°C and outdoor temperature Tj				Declared coefficient of performance / Warmer season, at indoor temperature 20°C and outdoor temperature Tj					
Tj=2°C	Pdh	-	kW	Tj=2°C	COPd	-	-		
Tj=7°C	Pdh	-	kW	Tj=7°C	COPd	-	-		
Tj=12°C	Pdh	-	kW	Tj=12°C	COPd	-	-		
Tj=bivalent temperature	Pdh	-	kW	Tj=bivalent temperature	COPd	-	-		
Tj=operating limit	Pdh	-	kW	Tj=operating limit	COPd	-	-		
Declared capacity for heating / Colder season, at indoor temperature 20°C and outdoor temperature Tj				Declared coefficient of performance / Colder season, at indoor temperature 20°C and outdoor temperature Tj					
Tj=-7°C	Pdh	-	kW	Tj=-7°C	COPd	-	-		
Tj=2°C	Pdh	-	kW	Tj=2°C	COPd	-	-		
Tj=7°C	Pdh	-	kW	Tj=7°C	COPd	-	-		
Tj=12°C	Pdh	-	kW	Tj=12°C	COPd	-	-		
Tj=bivalent temperature	Pdh	-	kW	Tj=bivalent temperature	COPd	-	-		
Tj=operating limit	Pdh	-	kW	Tj=operating limit	COPd	-	-		
Tj=-15°C	Pdh	-	kW	Tj=-15°C	COPd	-	-		
Bivalent temperature				Operating limit temperature					
heating / Average	Tbiv	-10	°C	heating / Average	Tol	-15	°C		
heating / Warmer	Tbiv	-	°C	heating / Warmer	Tol	-	°C		
heating / Colder	Tbiv	-	°C	heating / Colder	Tol	-	°C		
Cycling interval capacity				Cycling interval efficiency					
for cooling	Pcycc	-	kW	for cooling	EERcyc	-	-		
for heating	Pcyh	-	kW	for heating	COPcyc	-	-		
Degradation coefficient				Degradation coefficient					
cooling	Cdc	0.25	-	heating	Cdh	0.25	-		
Electric power input in power modes other than 'active mode				Annual electricity consumption					
off mode	Poff	9	W	cooling	Qce	343	kWh/a		
standby mode	Psb	9	W	heating / Average	Qhe	1698	kWh/a		
thermostat-off mode	Pto	13	W	heating / Warmer	Qhe	-	kWh/a		
crankcase heater mode	Pck	0	W	heating / colder	Qhe	-	kWh/a		
Capacity control(indicate one of three options)				Other items					
fixed		No		Sound power level(indoor)	Lwa	59	dB(A)		
staged		No		Sound power level(outdoor)	Lwa	62	dB(A)		
variable		Yes		Global warming potential	GWP	1975	kgCO2eq.		
				Rated air flow(indoor)	-	510	m3/h		
				Rated air flow(outdoor)	-	2460	m3/h		
Contact details for obtaining more information	Name and address of the manufacturer or of its authorised representative Mitsubishi Heavy Industries Air-Conditioning Europe, Ltd. 7 Roundwood Avenue, Stockley Park, Uxbridge, Middlesex, UB11 1AX United Kingdom								

INVERTER MULTI-SPLIT SYSTEM RESIDENTIAL AIR-CONDITIONERS



MITSUBISHI HEAVY INDUSTRIES THERMAL SYSTEMS, LTD.

16-5 Konan 2-chome, Minato-ku, Tokyo, 108-8215, Japan
<http://www.mhi-mth.co.jp/en/>

Because of our policy of continuous improvement, we reserve the right to make changes in all specifications without notice.

© Copyright MITSUBISHI HEAVY INDUSTRIES THERMAL SYSTEMS, LTD.