3. WALL MOUNTED TYPE ROOM AIR-CONDITIONER

(Split system, Air cooled cooling only type)

3.1 SRK20CD-S SRK20CC-S
SRK28CD-S SRK28CC-S
SRK40CD-S SRK40CC-S 266

3.2 SRK50CE-S
SRK56CE-S 280

3.3 SRK63CE-S
SRK71CE-S 289

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3.1.1 GENERAL INFORMATION

(1) Specific features

The “Mitsubishi Daiya” room air-conditioner: SRK series are of split and wall mounted type and the unit consists of indoor unit and outdoor unit with refrigerant precharged in factory. The indoor unit is composed of room air cooling equipment with operation control switch and the outdoor unit is composed of condensing unit with compressor.

(a) Remote control flap

The flap can be automatically controlled by operating wireless remote controller.

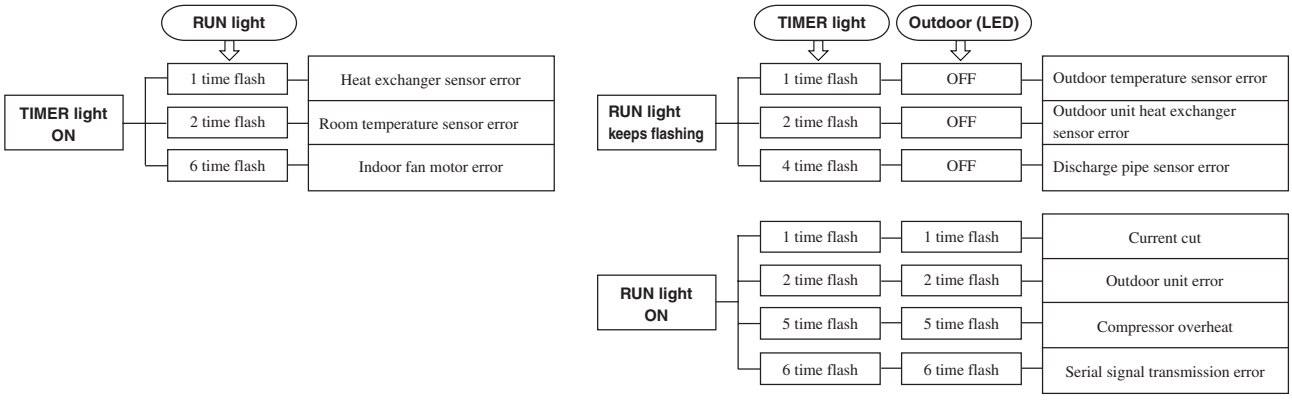
- Air scroll: Flap operation is automatically control.
- Swing: This will swing the flap up and down.
- Memory flap: Once the flap position is set, the unit memorizes the position and continues to operate at the same position from the next time.

(b) Automatic Operation

When the remote control switch is set on “auto (⧋)”, it will either automatically decide operation mode such as cooling and thermal dry, or operate in the operation mode before it has been turned to automatic control.

(c) Self diagnosis function

- We are constantly trying to do better service to our customers by installing such judges that show abnormality of operation as follows.



(2) How to read the model name

Example : SR K 40 C D - S

- S — R410A models
- D — Series No.
- C — Cooling only type
- 40 — Product capacity
- K — Wall mounted type
- SR — Split type room air-conditioner

Model SRK20CC-S (Indoor unit)
SRC20CC-S (Outdoor unit) **(220/230/240V)**

Item				Model	SRK20CC-S	SRC20CC-S
Cooling capacity(1)				W	2050	
Power source					1 Phase, 220–240V, 50Hz	
Operation data(1)	Cooling input			kW	0.63	
	Running current (Cooling)			A	3.1/3.0/2.9	
	Inrush current			A	18.9	
	COP				Cooling: 3.21	
	Noise level	Cooling	sound level	dB	38	48
			Power level		52	60
Exterior dimensions Height × Width × Depth				mm	250 × 815 × 247	540 × 720 × 290
Color					Cool white	Stucco white
Net weight				kg	9.0	32
Refrigerant equipment Compressor type & Q'ty					–	RM-B5077MNE4 (Rotary type) × 1
Motor				kW	–	0.65
Starting method					–	Line starting
Heat exchanger					Louver fins & inner grooved tubing	Straight fins & inner grooved tubing
Refrigerant control					Capillary tubes + Electric expansion valve	
Refrigerant(3)				kg	R410A 0.9 (Pre-Charged up to the piping length of 15m)	
Refrigerant oil				ℓ	0.35 (MA68)	
Deice control					MC control	
Air handling equipment type & Q'ty					Tangential fan × 1	Propeller fan × 1
Motor				W	14	12
Air flow (at High)			(Cooling)	CMM	7.5	26
Air filter, Q'ty					Polypropylene net (washable) × 2	–
Shock & vibration absorber					–	Cushion rubber (for compressor)
Electric heater					–	–
Operation control Operation switch					Wireless-Remote controller	–
Room temperature control					MC. Thermostat	–
Pilot lamp					RUN (Green), TIMER (Yellow), HI POWER (Green), ECONO (Orange)	
Safety equipment					Compressor: Overheat protection, overcurrent protection, Serial signal error protection, Indoor fan motor error protection	
Refrigerant piping	O.D			mm (in)	Liquid line: ϕ6.35 (1/4″) Gas line: ϕ9.52 (3/8″)	
	Connecting method				Flare connecting	
	Attached length of piping				Liquid line: 0.4 m Gas line : 0.33 m	–
	Insulation				Necessary (Both sides)	
Drain hose					Connectable	
Power source cord					2.5 m (3 cores with Earth)	
Connection wiring	Size × Core number				1.5 mm² × 4 cores (Including earth cable)	
	Connecting method				Terminal block (Screw fixing type)	
Accessories (included)					Mounting kit, Clean filter (Natural enzyme filter x1, Photocatalytic washable deodorizing filter x1)	
Optional parts					–	

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

Item / Operation	Indoor air temperature DB	Indoor air temperature WB	Outdoor air temperature DB	Outdoor air temperature WB	Standards
Cooling	27ºC	19ºC	35ºC	24ºC	ISO-T1, JIS C9612

The piping length is 7.5m.

(2) The operation data are applied to the 220/230/240V districts respectively.

(3) The refrigerant quantity to be charged includes the refrigerant in 15 m connecting piping.
(Purging is not required even in the short piping.)

Item				Model	SRK28CC-S	SRC28CC-S
Cooling capacity(1)				W	2550	
Power source					1 Phase, 220–240V, 50Hz	
Operation data(1)	Cooling input			kW	0.79	
	Running current (Cooling)			A	3.9/3.7/3.5	
	Inrush current			A	17.2	
	COP				Cooling: 3.21	
	Noise level	Cooling	sound level	dB	41	48
			Power level		55	60
Exterior dimensions Height × Width × Depth				mm	250 × 815 × 247	540 × 720 × 290
Color					Cool white	Stucco white
Net weight				kg	9.0	32
Refrigerant equipment Compressor type & Q'ty					–	5PS102DBA [Rotary type] × 1
Motor				kW	–	0.7
Starting method					–	Line starting
Heat exchanger					Louver fins & inner grooved tubing	Straight fins & inner grooved tubing
Refrigerant control					Capillary tubes + Electric expansion valve	
Refrigerant(3)				kg	R410A 0.9 (Pre-Charged up to the piping length of 15m)	
Refrigerant oil				ℓ	0.35 (RB68A)	
Deice control					MC control	
Air handling equipment type & Q'ty					Tangential fan × 1	Propeller fan × 1
Motor				W	14	15
Air flow (at High)			(Cooling)	CMM	8.0	30
Air filter, Q'ty					Polypropylene net (washable) × 2	–
Shock & vibration absorber					–	Cushion rubber (for compressor)
Electric heater					–	–
Operation control Operation switch					Wireless-Remote controller	–
Room temperature control					MC. Thermostat	–
Pilot lamp					RUN (Green), TIMER (Yellow), HI POWER (Green), ECONO (Orange)	
Safety equipment					Compressor: Overheat protection, overcurrent protection, Serial signal error protection, Indoor fan motor error protection	
Refrigerant piping	O.D			mm (in)	Liquid line: ϕ6.35 (1/4″) Gas line: ϕ9.52 (3/8″)	
	Connecting method				Flare connecting	
	Attached length of piping				Liquid line: 0.4 m Gas line : 0.33 m	–
	Insulation				Necessary (Both sides)	
Drain hose					Connectable	
Power source cord					2.5 m (3 cores with Earth)	
Connection wiring	Size × Core number				1.5 mm² × 4 cores (Including earth cable)	
	Connecting method				Terminal block (Screw fixing type)	
Accessories (included)					Mounting kit, Clean filter (Natural enzyme filter x1, Photocatalytic washable deodorizing filter x1)	
Optional parts					–	

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

Item / Operation	Indoor air temperature DB	Indoor air temperature WB	Outdoor air temperature DB	Outdoor air temperature WB	Standards
Cooling	27ºC	19ºC	35ºC	24ºC	ISO-T1, JIS C9612

The piping length is 7.5m.

(2) The operation data are applied to the 220/230/240V districts respectively.

(3) The refrigerant quantity to be charged includes the refrigerant in 15 m connecting piping.
(Purging is not required even in the short piping.)

Model SRK40CC-S (Indoor unit)
SRC40CC-S (Outdoor unit)

(220/230/240V)

Item				Model	SRK40CC-S	SRC40CC-S
Cooling capacity(1)				W	3600	
Power source					1 Phase, 220–240V, 50Hz	
Operation data(1)	Cooling input			kW	1.12	
	Running current (Cooling)			A	5.3/5.1/4.9	
	Inrush current			A	25.2	
	COP (Cooling)				Cooling: 3.21	
	Noise level	Cooling	sound level	dB	42	51
			Power level		56	63
Exterior dimensions Height × Width × Depth				mm	250 × 815 × 247	640 × 850 × 290
Color					Cool white	Stucco white
Net weight				kg	9.0	41
Refrigerant equipment Compressor type & Q'ty					–	5KS150DBB [Rotary type] × 1
Motor				kW	–	1.1
Starting method					–	Line starting
Heat exchanger					Louver fins & inner grooved tubing	Straight fins & inner grooved tubing
Refrigerant control					Capillary tubes + Electric expansion valve	
Refrigerant(3)				kg	R410A 1.17 (Pre-Charged up to the piping length of 15m)	
Refrigerant oil				ℓ	0.43 (RB68A)	
Deice control					MC control	
Air handling equipment type & Q'ty					Tangential fan × 1	Propeller fan × 1
Motor				W	14	35
Air flow (at High)			(Cooling)	CMM	9.0	38
Air filter, Q'ty					Polypropylene net (washable) × 2	–
Shock & vibration absorber					–	Cushion rubber (for compressor)
Electric heater					–	–
Operation control Operation switch					Wireless-Remote controller	–
Room temperature control					MC. Thermostat	–
Pilot lamp					RUN (Green), TIMER (Yellow), HI POWER (Green), ECONO (Orange)	
Safety equipment					Compressor: Overheat protection, overcurrent protection, Serial signal error protection, Indoor fan motor error protection	
Refrigerant piping	O.D			mm (in)	Liquid line: ϕ6.35 (1/4″) Gas line: ϕ12.7 (1/2″)	
	Connecting method				Flare connecting	
	Attached length of piping				Liquid line: 0.4 m Gas line : 0.33 m	–
	Insulation				Necessary (Both sides)	
Drain hose					Connectable	
Power source cord					2.5 m (3 cores with Earth)	
Connection wiring	Size × Core number				1.5 mm² × 4 cores (Including earth cable)	
	Connecting method				Terminal block (Screw fixing type)	
Accessories (included)					Mounting kit, Clean filter (Natural enzyme filter x1, Photocatalytic washable deodorizing filter x1)	
Optional parts					–	

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

Item / Operation	Indoor air temperature DB	Indoor air temperature WB	Outdoor air temperature DB	Outdoor air temperature WB	Standards
Cooling	27ºC	19ºC	35ºC	24ºC	ISO-T1, JIS C9612

The piping length is 7.5m.

(2) The operation data are applied to the 220/230/240V districts respectively.

(3) The refrigerant quantity to be charged includes the refrigerant in 15 m connecting piping.
(Purging is not required even in the short piping.)

3.1.2 SELECTION DATA

(1) Specifications

Model SRK20CD-S (Indoor unit)
SRC20CD-S (Outdoor unit) **(220/230/240V)**

Item				Model	SRK20CD-S	SRC20CD-S
Cooling capacity(1)				W	2050	
Power source					1 Phase, 220–240V, 50Hz	
Operation data(1)	Cooling input			kW	0.63	
	Running current (Cooling)			A	3.1/3.0/2.9	
	Inrush current			A	18.9	
	COP				Cooling: 3.21	
	Noise level	Cooling	sound level	dB	Hi 34, Me 28, Lo 26	46
			Power level		52	60
Exterior dimensions Height × Width × Depth				mm	250 × 815 × 249	540 × 720 × 290
Color					Cool white	Stucco white
Net weight				kg	9.0	32
Refrigerant equipment Compressor type & Q'ty					–	RM-B5077MNE4 (Rotary type) × 1
Motor				kW	–	0.65
Starting method					–	Line starting
Heat exchanger					Louver fins & inner grooved tubing	Straight fins & inner grooved tubing
Refrigerant control					Capillary tubes + Electronic expansion valve	
Refrigerant(3)				kg	R410A 0.9 (Pre-Charged up to the piping length of 15m)	
Refrigerant oil				ℓ	0.35 (MA68)	
Deice control					MC control	
Air handling equipment Fan type & Q'ty					Tangential fan × 1	Propeller fan × 1
Motor				W	14	12
Air flow (at High)			(Cooling)	CMM	7.5	26
Air filter, Q'ty					Polypropylene net (washable) × 2	–
Shock & vibration absorber					–	Cushion rubber (for compressor)
Electric heater					–	–
Operation control Operation switch					Wireless-Remote controller	–
Room temperature control					MC. Thermostat	–
Pilot lamp					RUN (Green), TIMER (Yellow), HI POWER (Green), ECONO (Orange)	
Safety equipment					Compressor: Overheat protection, overcurrent protection, Serial signal error protection, Indoor fan motor error protection, Frost protection	
Refrigerant piping	O.D			mm (in)	Liquid line: ϕ6.35 (1/4″) Gas line: ϕ9.52 (3/8″)	
	Connecting method				Flare connecting	
	Attached length of piping				Liquid line: 0.4 m Gas line : 0.33 m	–
	Insulation				Necessary (Both sides)	
Drain hose					Connectable	
Power source cord					2.5 m (3 cores with Earth)	
Connection wiring	Size × Core number				1.5 mm² × 4 cores (Including earth cable)	
	Connecting method				Terminal block (Screw fixing type)	
Accessories (included)					Mounting kit, Clean filter (Natural enzyme filter x2)	
Optional parts					–	

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

Item / Operation	Indoor air temperature DB	Indoor air temperature WB	Outdoor air temperature DB	Outdoor air temperature WB	Standards
Cooling	27ºC	19ºC	35ºC	24ºC	ISO-T1, JIS C9612

The piping length is 7.5m.

(2) The operation data are applied to the 220/230/240V districts respectively.

(3) The refrigerant quantity to be charged includes the refrigerant in 15 m connecting piping.
(Purging is not required even in the short piping.)

Model SRK28CD-S (Indoor unit)
SRC28CD-S (Outdoor unit)

(220/230/240V)

Item				Model	SRK28CD-S	SRC28CD-S
Cooling capacity(1)				W	2550	
Power source					1 Phase, 220–240V, 50Hz	
Operation data(1)	Cooling input			kW	0.79	
	Running current (Cooling)			A	3.9/3.7/3.5	
	Inrush current			A	17.2	
	COP				Cooling: 3.21	
	Noise level	Cooling	sound level	dB	Hi 39, Me 33, Lo 30	46
			Power level		55	60
Exterior dimensions Height × Width × Depth				mm	250 × 815 × 249	540 × 720 × 290
Color					Cool white	Stucco white
Net weight				kg	9.0	32
Refrigerant equipment Compressor type & Q'ty					–	5PS102DAB [Rotary type] × 1
Motor				kW	–	0.7
Starting method					–	Line starting
Heat exchanger					Louver fins & inner grooved tubing	Straight fins & inner grooved tubing
Refrigerant control					Capillary tubes + Electronic expansion valve	
Refrigerant(3)				kg	R410A 0.9 (Pre-Charged up to the piping length of 15m)	
Refrigerant oil				ℓ	0.35 (RB68A)	
Deice control					MC control	
Air handling equipment Fan type & Q'ty					Tangential fan × 1	Propeller fan × 1
Motor				W	14	15
Air flow (at High)			(Cooling)	CMM	8.0	30
Air filter, Q'ty					Polypropylene net (washable) × 2	–
Shock & vibration absorber					–	Cushion rubber (for compressor)
Electric heater					–	–
Operation control Operation switch					Wireless-Remote controller	–
Room temperature control					MC. Thermostat	–
Pilot lamp					RUN (Green), TIMER (Yellow), HI POWER (Green), ECONO (Orange)	
Safety equipment					Compressor: Overheat protection, overcurrent protection, Serial signal error protection, Indoor fan motor error protection, Frost protection	
Refrigerant piping	O.D			mm (in)	Liquid line: ϕ6.35 (1/4″) Gas line: ϕ9.52 (3/8″)	
	Connecting method				Flare connecting	
	Attached length of piping				Liquid line: 0.4 m Gas line : 0.33 m	–
	Insulation				Necessary (Both sides)	
Drain hose					Connectable	
Power source cord					2.5 m (3 cores with Earth)	
Connection wiring	Size × Core number				1.5 mm² × 4 cores (Including earth cable)	
	Connecting method				Terminal block (Screw fixing type)	
Accessories (included)					Mounting kit, Clean filter (Natural enzyme filter x2)	
Optional parts					–	

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

Item / Operation	Indoor air temperature DB	Indoor air temperature WB	Outdoor air temperature DB	Outdoor air temperature WB	Standards
Cooling	27ºC	19ºC	35ºC	24ºC	ISO-T1, JIS C9612

The piping length is 7.5m.

(2) The operation data are applied to the 220/230/240V districts respectively.

(3) The refrigerant quantity to be charged includes the refrigerant in 15 m connecting piping.
(Purging is not required even in the short piping.)

Model SRK40CD-S (Indoor unit)
SRC40CD-S (Outdoor unit)

(220/230/240V)

Item				Model	SRK40CD-S	SRC40CD-S
Cooling capacity(1)				W	3600	
Power source					1 Phase, 220–240V, 50Hz	
Operation data(1)	Cooling input			kW	1.12	
	Running current (Cooling)			A	5.3/5.1/4.9	
	Inrush current			A	25.2	
	COP				Cooling: 3.21	
	Noise level	Cooling	sound level	dB	Hi 40, Me 38, Lo 34	49
			Power level		56	63
Exterior dimensions Height × Width × Depth				mm	250 × 815 × 249	640 × 850 × 290
Color					Cool white	Stucco white
Net weight				kg	9.0	41
Refrigerant equipment Compressor type & Q'ty					–	5KS150DBB [Rotary type] × 1
Motor				kW	–	1.1
Starting method					–	Line starting
Heat exchanger					Louver fins & inner grooved tubing	Straight fins & inner grooved tubing
Refrigerant control					Capillary tubes + Electronic expansion valve	
Refrigerant(3)				kg	R410A 1.17 (Pre-Charged up to the piping length of 15m)	
Refrigerant oil				ℓ	0.43 (RB68A)	
Deice control					MC control	
Air handling equipment Fan type & Q'ty					Tangential fan × 1	Propeller fan × 1
Motor				W	14	35
Air flow (at High)			(Cooling)	CMM	9.0	38
Air filter, Q'ty					Polypropylene net (washable) × 2	–
Shock & vibration absorber					–	Cushion rubber (for compressor)
Electric heater					–	–
Operation control Operation switch					Wireless-Remote controller	–
Room temperature control					MC. Thermostat	–
Pilot lamp					RUN (Green), TIMER (Yellow), HI POWER (Green), ECONO (Orange)	
Safety equipment					Compressor: Overheat protection, overcurrent protection, Serial signal error protection, Indoor fan motor error protection, Frost protection	
Refrigerant piping O.D				mm (in)	Liquid line: ϕ6.35 (1/4″) Gas line: ϕ12.7 (1/2″)	
Connecting method					Flare connecting	
Attached length of piping					Liquid line: 0.4 m Gas line : 0.33 m	–
Insulation					Necessary (Both sides)	
Drain hose					Connectable	
Power source cord					2.5 m (3 cores with Earth)	
Connection wiring	Size × Core number				1.5 mm² × 4 cores (Including earth cable)	
	Connecting method				Terminal block (Screw fixing type)	
Accessories (included)					Mounting kit, Clean filter (Natural enzyme filter x2)	
Optional parts					–	

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

Item / Operation	Indoor air temperature DB	Indoor air temperature WB	Outdoor air temperature DB	Outdoor air temperature WB	Standards
Cooling	27ºC	19ºC	35ºC	24ºC	ISO-T1, JIS C9612

The piping length is 7.5m.

(2) The operation data are applied to the 220/230/240V districts respectively.

(3) The refrigerant quantity to be charged includes the refrigerant in 15 m connecting piping.
(Purging is not required even in the short piping.)

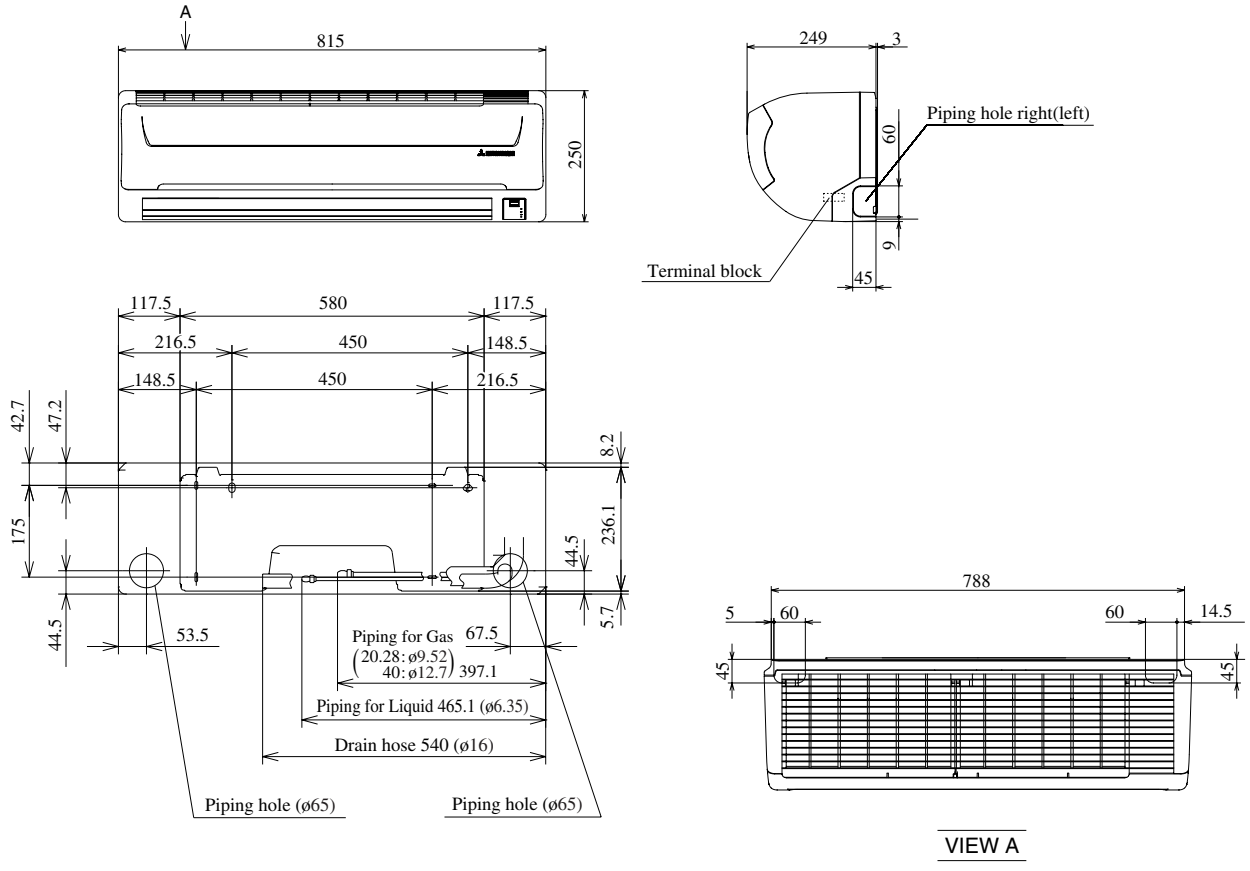
(2) Range of usage & limitations

Item \ Models	All models
Indoor return air temperature (Upper, lower limits)	Refer to the selection chart
Outdoor air temperature (Upper, lower limits)	
Refrigerant line (one way) length	Max. 15m
Vertical height difference between outdoor unit and indoor unit	Max. 10m (Outdoor unit is higher) Max. 10m (Outdoor unit is lower)
Power source voltage	Rating ± 10%
Voltage at starting	Min. 85% of rating
Frequency of ON-OFF cycle	Max. 10 times/h
ON and OFF interval	Max. 3 minutes

(3) Exterior dimensions

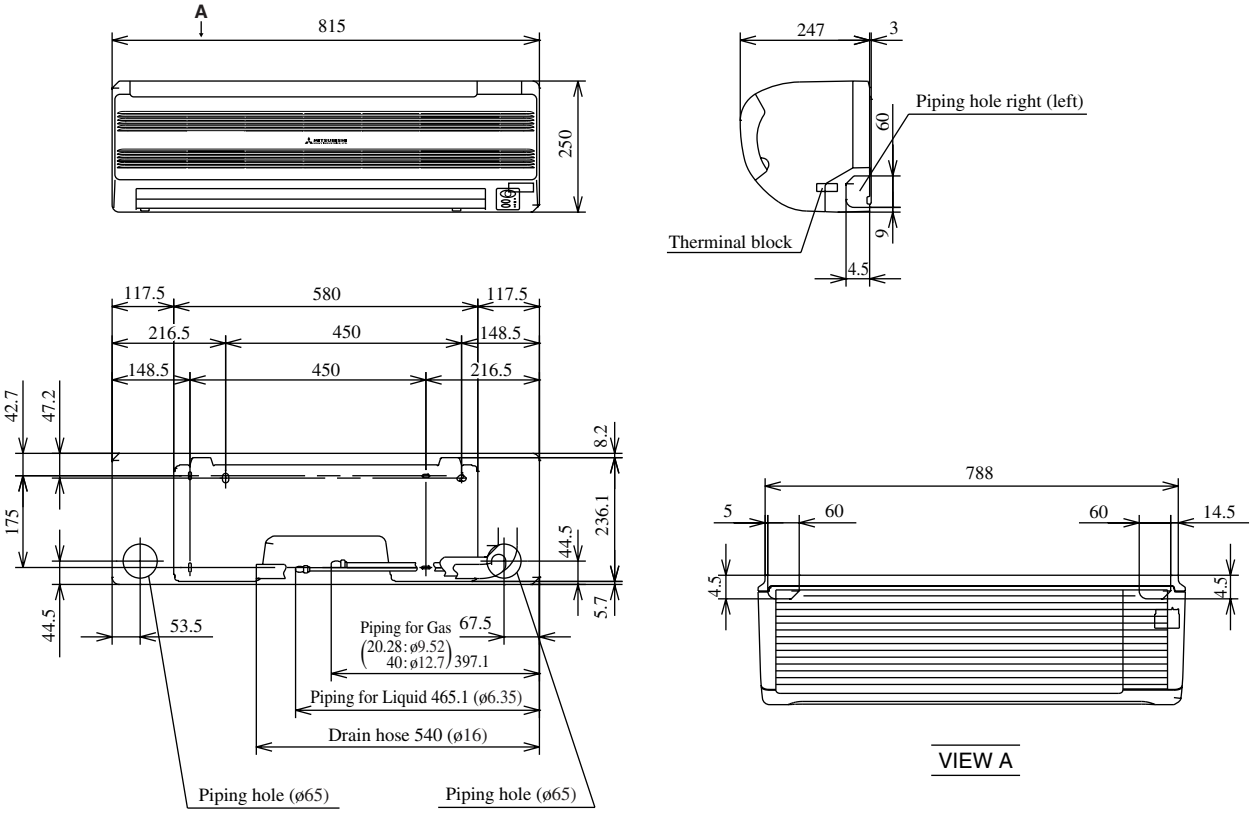
(a) Indoor unit
Models SRK20CD-S, 28CD-S,40CD-S

Unit: mm



Models SRK20CC-S, 28CC-S, 40CC-S

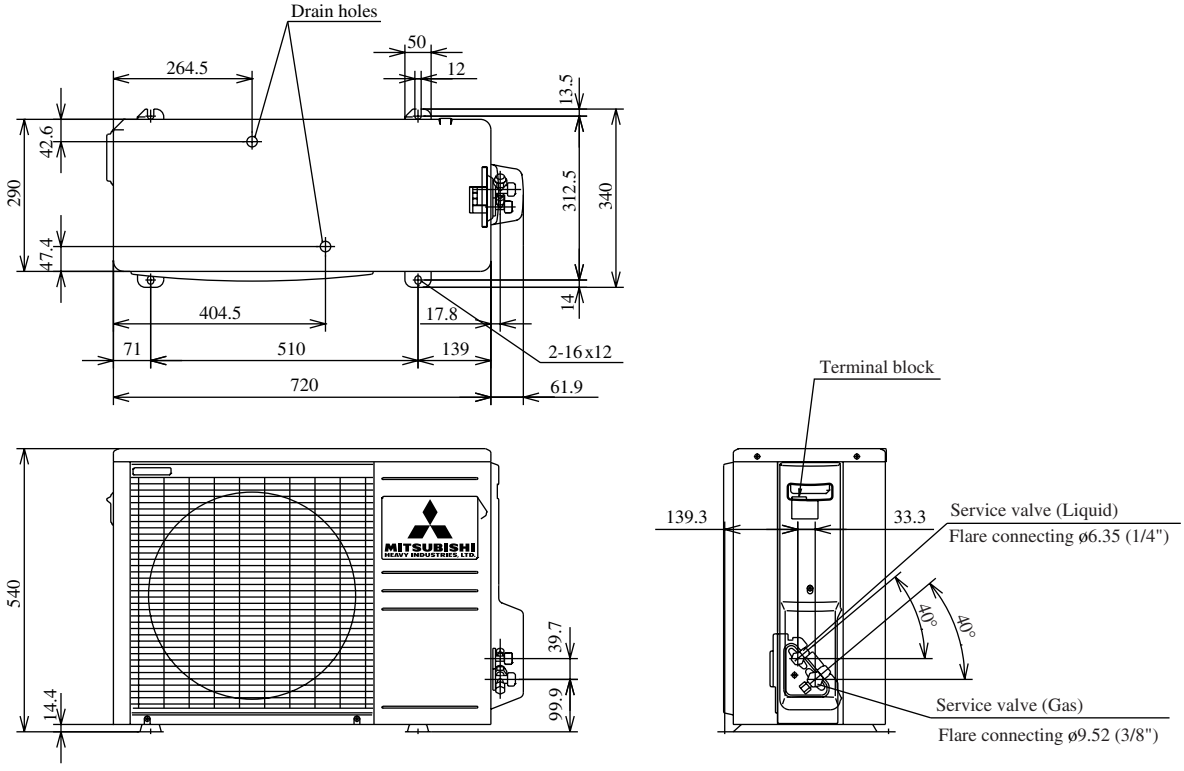
Unit: mm



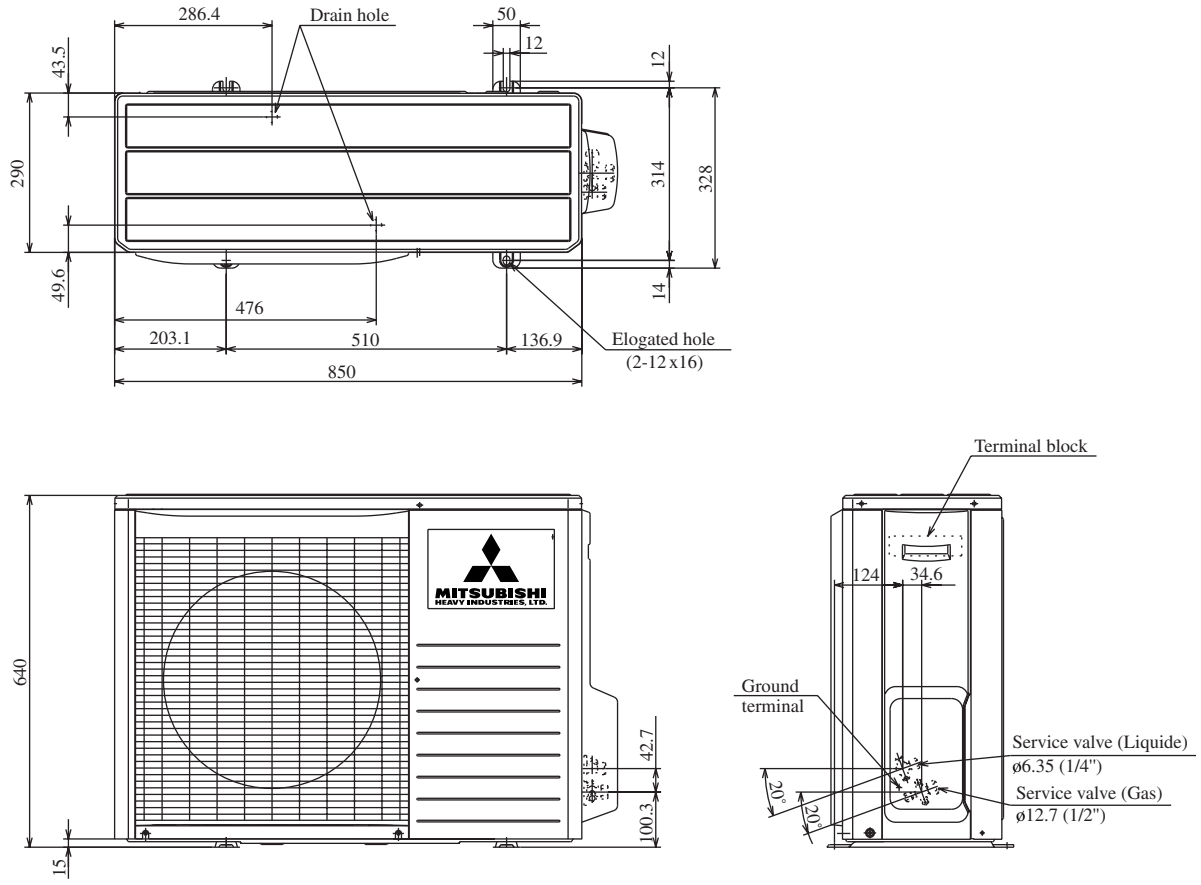
(b) Outdoor unit

Models SRC20CD-S, 28CD-S, 20CC-S, 28CC-S

Unit: mm

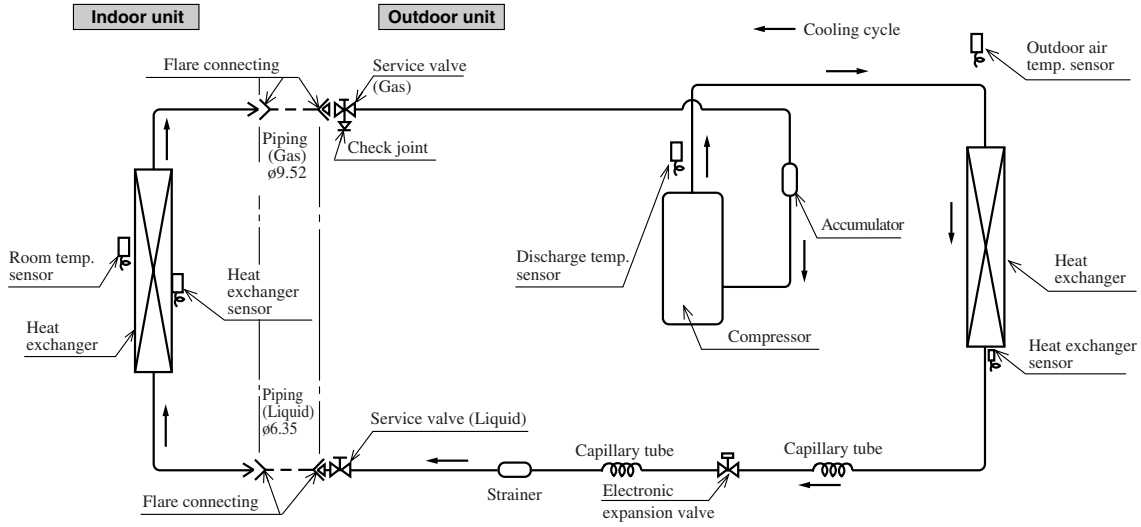


Models SRC40CD-S, 40CC-S

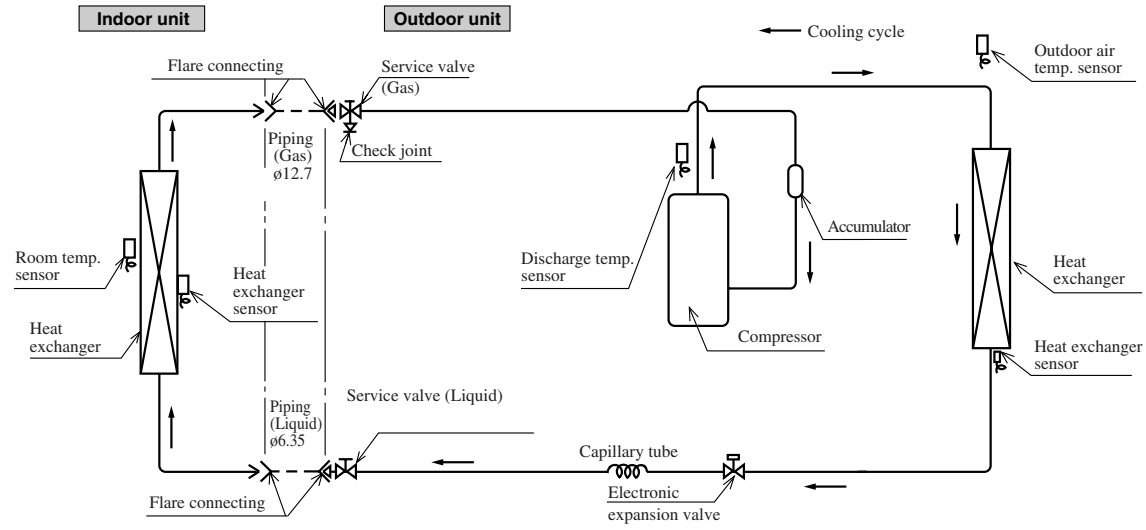


(4) Piping system

Models SRK20CD-S, 28CD-S, 20CC-S, 28CC-S



Models SRK40CD-S, 40CC-S

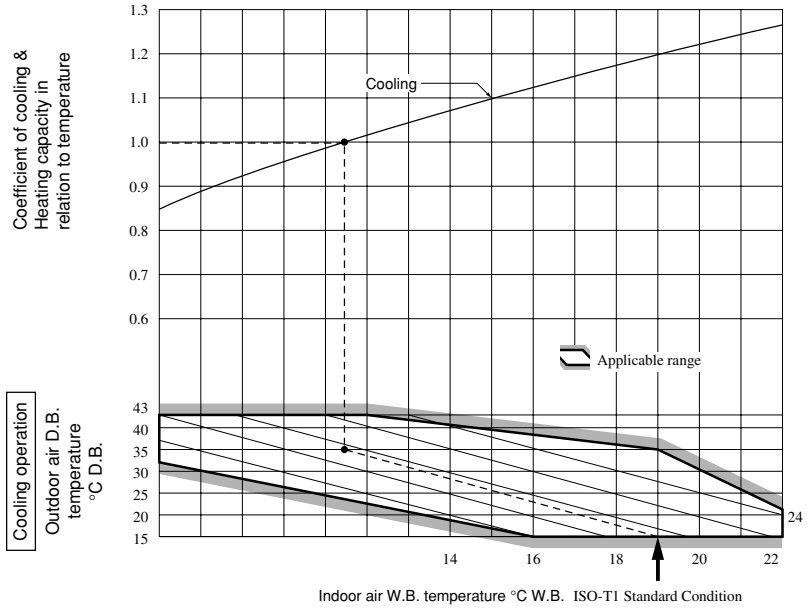


(5) Selection chart

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

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

(a) Coefficient of cooling capacity in relation to temperatures



(b) Correction of cooling capacity in relation to one way length of refrigerant piping

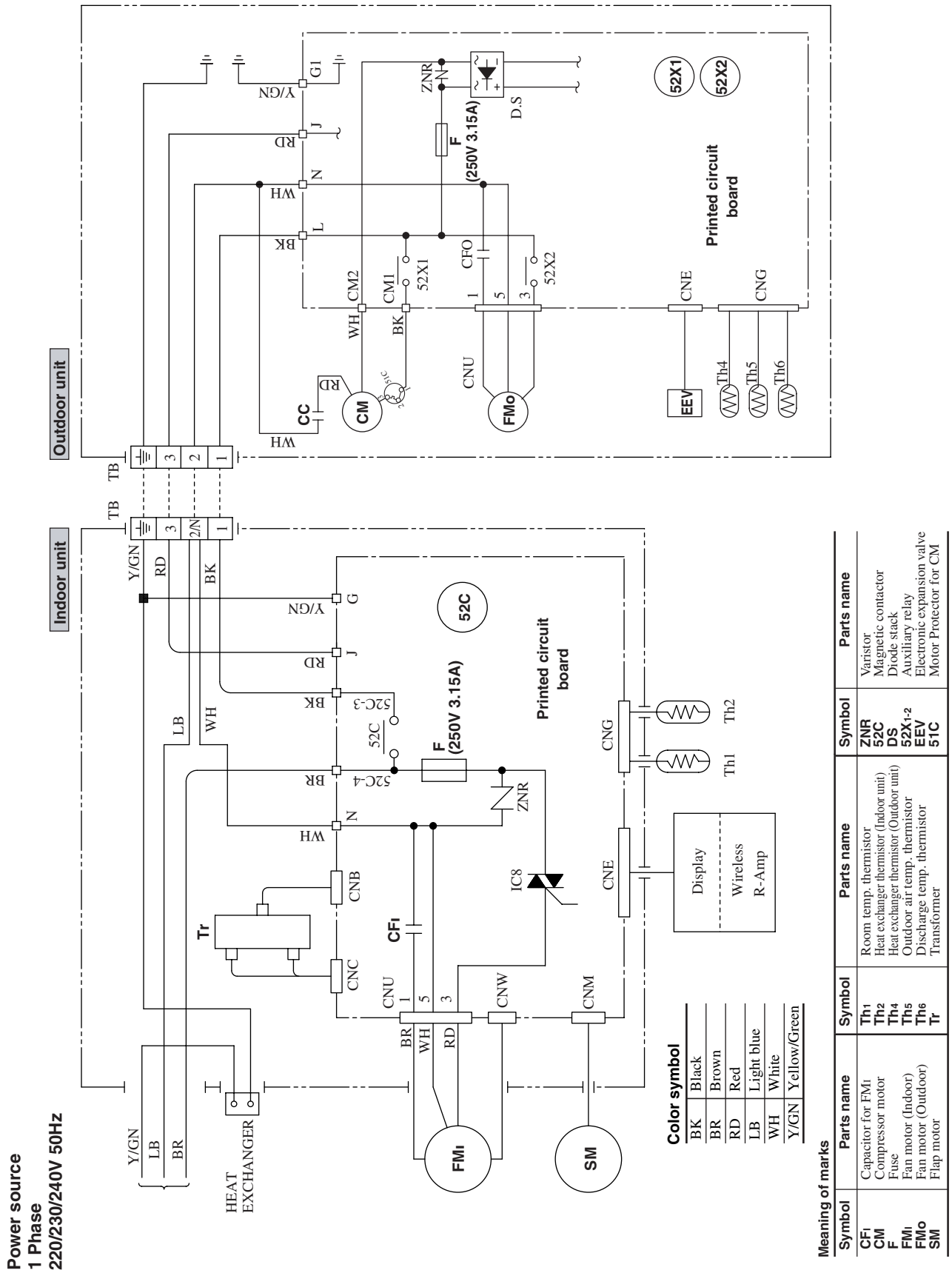
It is necessary to correct the cooling capacity in relation to the one way piping length between the indoor and outdoor units.

Piping length [m]	7	10	15
Cooling	1.0	0.99	0.975

3.1.3 ELECTRICAL DATA

(1) Electrical wiring

Models SRK20CD-S, 28CD-S, 40CD-S, 20CC-S, 28CC-S, 40CC-S



Meaning of marks

Symbol	Parts name	Symbol	Parts name	Symbol	Parts name
CFi	Capacitor for FMI	Th1	Room temp. thermistor	ZNR	Varistor
CM	Compressor motor	Th2	Heat exchanger thermistor (Indoor unit)	52C	Magnetic contactor
F	Fuse	Th4	Heat exchanger thermistor (Outdoor unit)	DS	Diode stack
FMi	Fan motor (Indoor)	Th5	Outdoor air temp. thermistor	52X1-2	Auxiliary relay
FMo	Fan motor (Outdoor)	Th6	Discharge temp. thermistor	EEV	Electronic expansion valve
SM	Flap motor	Tr	Transformer	51C	Motor Protector for CM

3.1.4 OUTLINE OF OPERATION CONTROL BY MICROCOMPUTER

Except for function relating to heating, same at the for SRK heat pump modes. Refer to Page 155.

3.1.5 APPLICATION DATA

The application data for the cooling only models are similar to those for the heat pump models. Refer to Page 166.

3.1.6 MAINTENANCE DATA

Same at the cooling/heating equipment SRK heat pump models. Refer to Page 174.

3.1.7 REFRIGERANT PIPING INSTALLATION/SERVICING MANUAL FOR AIR CONDITIONERS USING R410A

This is same as chapter 1.1.7 Refer to Page 59.

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3.2.1 GENERAL INFORMATION

(1) Specific features

The “Mitsubishi Daiya” room air-conditioner: SRK series are of split and wall mounted type and the unit consists of indoor unit and outdoor unit with refrigerant precharged in factory. The indoor unit is composed of room air cooling equipment with operation control switch and the outdoor unit is composed of condensing unit with compressor.

(a) Remote control flap

The flap can be automatically controlled by operating wireless remote controller.

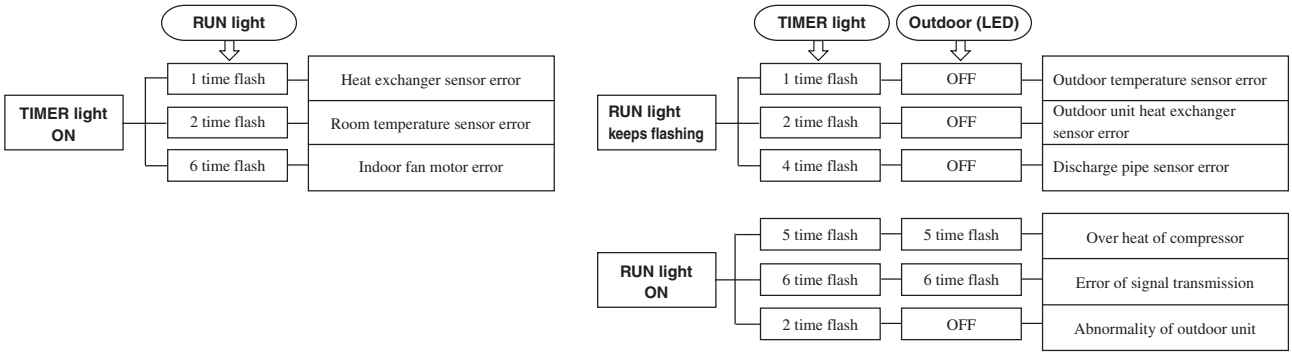
- Air scroll: Flap operation is automatically control.
- Swing: This will swing the flap up and down.
- Memory flap: Once the flap position is set, the unit memorizes the position and continues to operate at the same position from the next time.

(b) Automatic operation

When the remote control switch is set on “auto (⧋)”, it will either automatically decide operation mode such as cooling and thermal dry, or operate in the operation mode before it has been turned to automatic control.

(c) Self diagnosis function

- We are constantly trying to do better service to our customers by installing such judges that show abnormality of operation as follows.



(2) How to read the model name

Example : SR K 50 C E - S

- S: R410A models
- E: Series No.
- C: Cooling only type
- 50: Product capacity
- K: Wall mounted type
- SR: Split type room air-conditioner

3.2.2 SELECTION DATA

(1) Specifications

Model SRK50CE-S (Indoor unit)
SRC50CE-S (Outdoor unit)

(220/230/240V)

Item				Model	SRK50CE-S	SRC50CE-S
Cooling capacity(1)				W	4700	
Power source					1 Phase, 220-240V, 50Hz	
Operation data(1)	Cooling input			kW	1.41	
	Running current (Cooling)			A	6.5/6.3/6.0	
	Inrush current			A	39.6	
	COP				Cooling: 3.33	
	Noise level	Cooling	Sound level	dB	Hi 43, Me 39, Lo 34	47
			Power level		58	63
Exterior dimensions Height × Width × Depth				mm	298 × 840 × 259	640 × 850 × 290
Color					Cool white	Stucco white
Net weight				kg	12	44
Refrigerant equipment Compressor type & Q'ty					–	RM-B5118MNE5 (Rotary type) × 1
Motor				kW	–	1.4
Starting method					–	Line starting
Heat exchanger					Louver fins & inner grooved tubing	Straight fins & inner grooved tubing
Refrigerant control					Capillary tubes + Electronic expansion valve	
Refrigerant(3)				kg	R410A 1.4 (Pre-Charged up to the piping length of 15m)	
Refrigerant oil				ℓ	0.7 (MA68)	
Deice control					Microcomputer control	
Air handling equipment Fan type & Q'ty					Tangential fan × 1	Propeller fan × 1
Motor				W	27	35
Air flow (at High)			(Cooling)	CMM	10.0	38.0
Air filter, Q'ty					Polypropylene net (washable) × 2	–
Shock & vibration absorber					–	Cushion rubber (for compressor)
Electric heater					–	–
Operation control Operation switch					Wireless-Remote controller	–
Room temperature control					Microcomputer thermostat	–
Pilot lamp					RUN (Green), TIMER (Yellow), HI POWER (Green), ECONO (Orange)	
Safety equipment					Compressor: Overheat protection, Serial signal error protection, Indoor fan motor error protection, Frost protection	
Refrigerant piping	O.D			mm (in)	Liquid line: ϕ6.35 (1/4″) Gas line: ϕ12.7 (1/2″)	
	Connecting method				Flare connection	
	Attached length of piping				Liquid line: 0.54 m Gas line : 0.47 m	–
	Insulation				Necessary (Both sides)	
Drain hose					Connectable	
Power source cord					2 m (3 cores with earth)	
Connection wiring	Size × Core number				1.5 mm² × 4 cores (Including earth cable)	
	Connecting method				Terminal block (Screw fixing type)	
Accessories (included)					Mounting kit, Clean filter (Natural enzyme filter × 1, Photocatalytic washable deodorizing filter × 1)	
Optional parts					–	

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

Item / Operation	Indoor air temperature DB	Indoor air temperature WB	Outdoor air temperature DB	Outdoor air temperature WB	Standards
Cooling	27ºC	19ºC	35ºC	24ºC	ISO-T1, JIS C9612

The piping length is 7.5m.

(2) The operation data are applied to the 220/230/240V districts respectively.

(3) The refrigerant quantity to be charged includes the refrigerant in 15 m connecting piping.
(Purging is not required even for the short piping.)
If the piping length is longer, when it is 15 to 25 m, add 20 g refrigerant per meter.

Model SRK56CE-S (Indoor unit)
SRC56CE-S (Outdoor unit)

(220/230/240V)

Item				Model	SRK56CE-S	SRC56CE-S
Cooling capacity(1)				W	5100	
Power source					1 Phase, 220-240V, 50Hz	
Operation data(1)	Cooling input			kW	1.59	
	Running current (Cooling)			A	7.3/7.1/6.8	
	Inrush current			A	45.2	
	COP				Cooling: 3.21	
	Noise level	Cooling	Sound level	dB	Hi 44, Me 40, Lo 35	49
			Power level		59	64
Exterior dimensions Height × Width × Depth				mm	298 × 840 × 259	640 × 850 × 290
Color					Cool white	Stucco white
Net weight				kg	12	44
Refrigerant equipment Compressor type & Q'ty					–	RM-B5120MNE5 [Rotary type] × 1
Motor				kW	–	1.5
Starting method					–	Line starting
Heat exchanger					Louver fins & inner grooved tubing	Straight fins & inner grooved tubing
Refrigerant control					Capillary tubes + Electronic expansion valve	
Refrigerant(3)				kg	R410A 1.4 (Pre-Charged up to the piping length of 15m)	
Refrigerant oil				ℓ	0.7 (MA68)	
Deice control					Microcomputer control	
Air handling equipment Fan type & Q'ty					Tangential fan × 1	Propeller fan × 1
Motor				W	27	35
Air flow (at High)			(Cooling)	CMM	11.0	38.0
Air filter, Q'ty					Polypropylene net (washable) × 2	–
Shock & vibration absorber					–	Cushion rubber (for compressor)
Electric heater					–	–
Operation control Operation switch					Wireless-Remote controller	–
Room temperature control					Microcomputer thermostat	–
Pilot lamp					RUN (Green), TIMER (Yellow), HI POWER (Green), ECONO (Orange)	
Safety equipment					Compressor: Overheat protection, Serial signal error protection, Indoor fan motor error protection, Frost protection	
Refrigerant piping	O.D			mm (in)	Liquid line: ϕ6.35 (1/4″) Gas line: ϕ12.7 (1/2″)	
	Connecting method				Flare connection	
	Attached length of piping				Liquid line: 0.54 m Gas line : 0.47 m	–
	Insulation				Necessary (Both sides)	
Drain hose					Connectable	
Power source cord					2 m (3 cores with earth)	
Connection wiring	Size × Core number				1.5 mm² × 4 cores (Including earth cable)	
	Connecting method				Terminal block (Screw fixing type)	
Accessories (included)					Mounting kit, Clean filter (Natural enzyme filter × 1, Photocatalytic washable deodorizing filter × 1)	
Optional parts					–	

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

Item / Operation	Indoor air temperature DB	Indoor air temperature WB	Outdoor air temperature DB	Outdoor air temperature WB	Standards
Cooling	27ºC	19ºC	35ºC	24ºC	ISO-T1, JIS C9612

The piping length is 7.5m.

(2) The operation data are applied to the 220/230/240V districts respectively.

(3) The refrigerant quantity to be charged includes the refrigerant in 15 m connecting piping.
(Purging is not required even for the short piping.)
If the piping length is longer, when it is 15 to 25 m, add 20 g refrigerant per meter.

(2) Range of usage & limitations

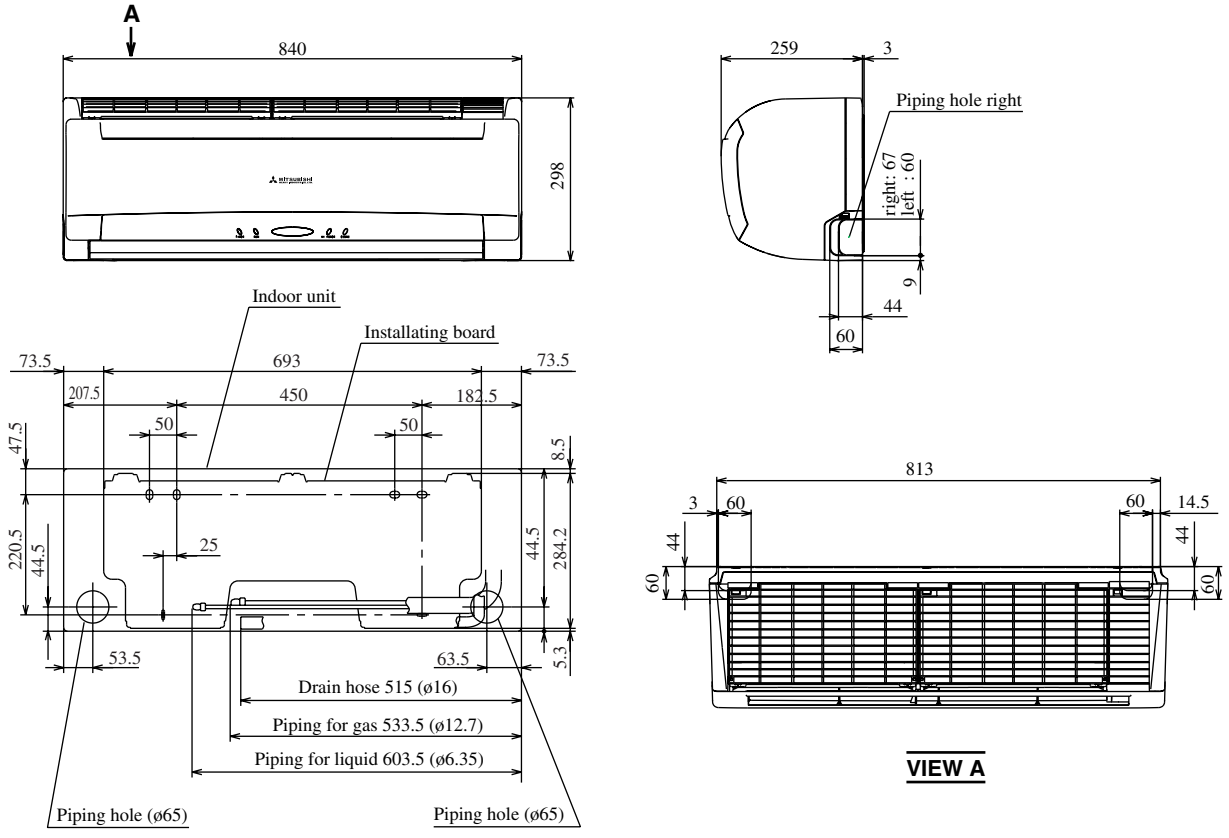
Item \ Models	All models
Indoor return air temperature (Upper, lower limits)	Refer to the selection chart
Outdoor air temperature (Upper, lower limits)	
Refrigerant line (one way) length	Max. 25m
Vertical height difference between outdoor unit and indoor unit	Max. 15m (Outdoor unit is higher) Max. 15m (Outdoor unit is lower)
Power source voltage	Rating ± 10%
Voltage at starting	Min. 85% of rating
Frequency of ON-OFF cycle	Max. 10 times/h
ON and OFF interval	Max. 3 minutes

(3) Exterior dimensions

(a) Indoor unit

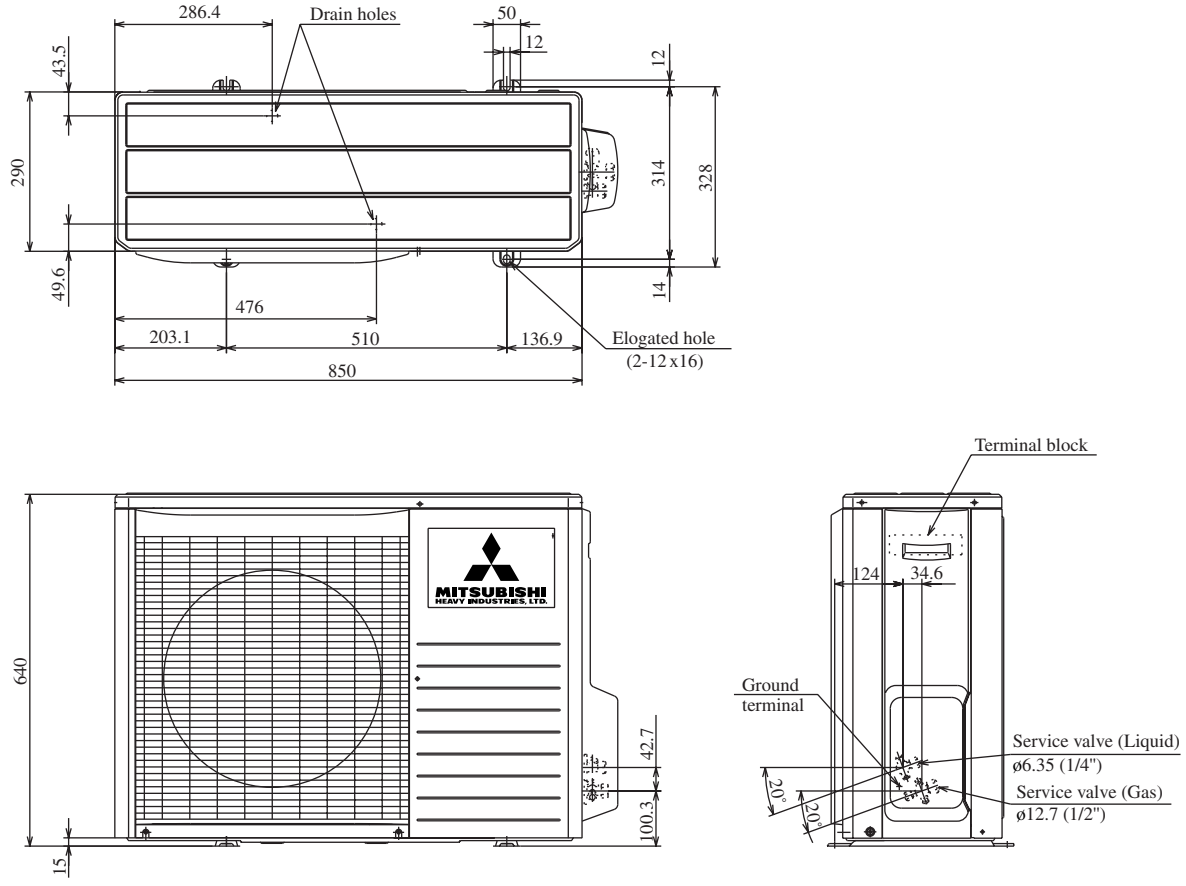
Models All models

Unit: mm



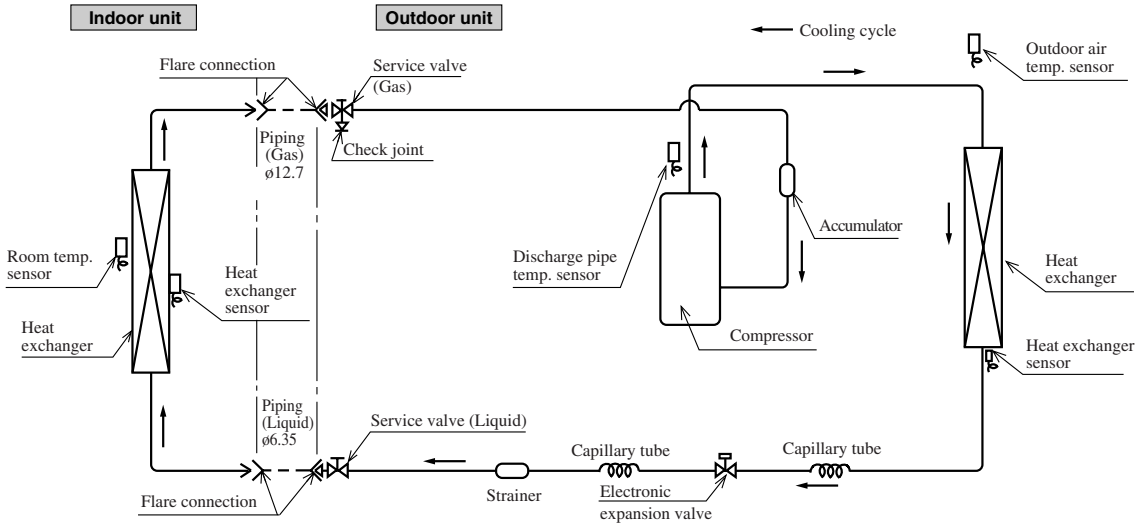
(b) Outdoor unit

Models All models



(4) Piping system

Models SRK50CE-S, 56CE-S

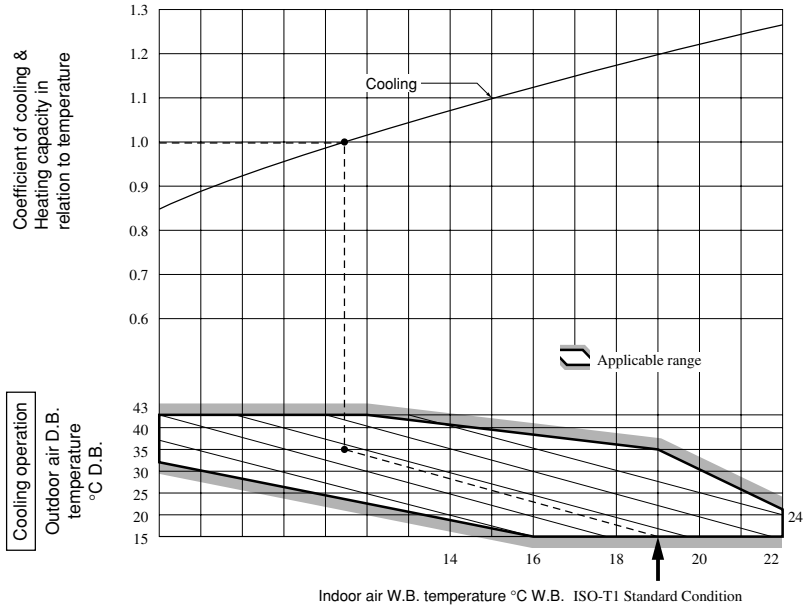


(5) Selection chart

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

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

(a) Coefficient of cooling capacity in relation to temperatures



(b) Correction of cooling capacity in relation to one way length of refrigerant piping

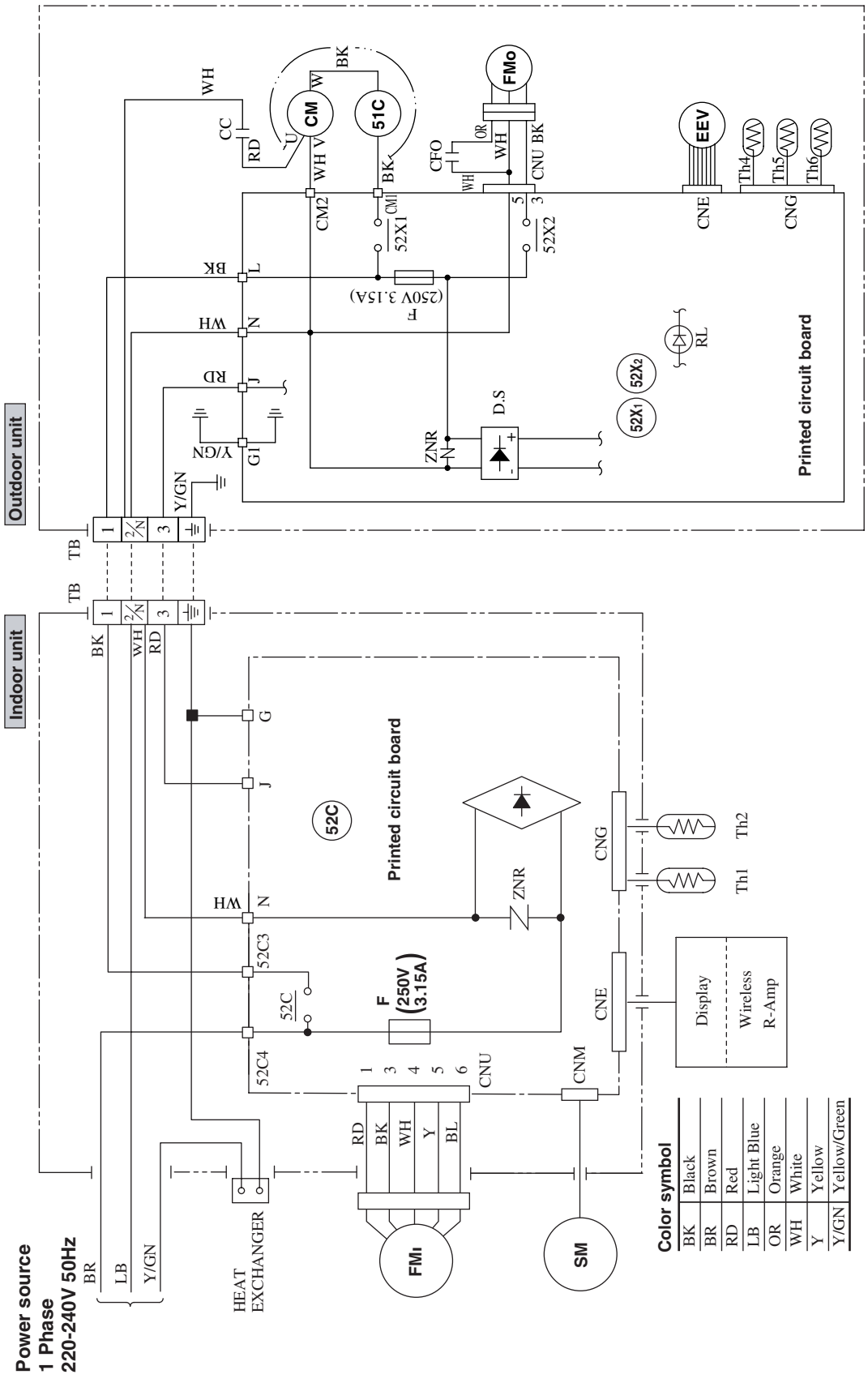
It is necessary to correct the cooling capacity in relation to the one way piping length between the indoor and outdoor units.

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

3.2.3 ELECTRICAL DATA

(1) Electrical wiring

Models SRK50CE-S, 56CE-S



Meaning of marks

Symbol	Parts name	Symbol	Parts name	Symbol	Parts name
CM	Compressor motor	Th1	Room temp. sensor	52C	Magnetic contactor
F	Fuse	Th2	Heat exchanger sensor (Indoor unit)	DS	Diode stack
FMI	Fan motor (Indoor)	Th4	Heat exchanger sensor (Outdoor unit)	52X1-2	Auxiliary relay
FMo	Fan motor (Outdoor)	Th5	Outdoor air temp. sensor	EEV	Electronic expansion valve
SM	Flap motor	Th6	Discharge pipe sensor	51C	Motor Protector for CM
RL	Inspection lamp	ZNR	Varistor	TB	Terminal block

3.2.4 OUTLINE OF OPERATION CONTROL BY MICROCOMPUTER

Except for function relating to heating, same at the for SRK heat pump models. Refer to Page 188.

3.2.5 APPLICATION DATA

The application data for the cooling only models are similar to those for the heat pump models. Refer to Page 199.

3.2.6 MAINTENANCE DATA

Same at the cooling/heating equipment SRK heat pump models. Refer to Page 207.

3.2.7 REFRIGERANT PIPING INSTALLATION/SERVICING MANUAL FOR AIR CONDITIONERS USING R410A

This is same as chapter 1.1.7. Refer to Page 59.

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3.3.1 GENERAL INFORMATION

(1) Specific features

The “Mitsubishi Daiya” room air-conditioner: SRK series are of split and wall mounted type and the unit consists of indoor unit and outdoor unit with refrigerant precharged in factory. The indoor unit is composed of room air cooling equipment with operation control switch and the outdoor unit is composed of condensing unit with compressor.

(a) Remote control flap & louver

The flap & louver can be automatically controlled by operating wireless remote control.

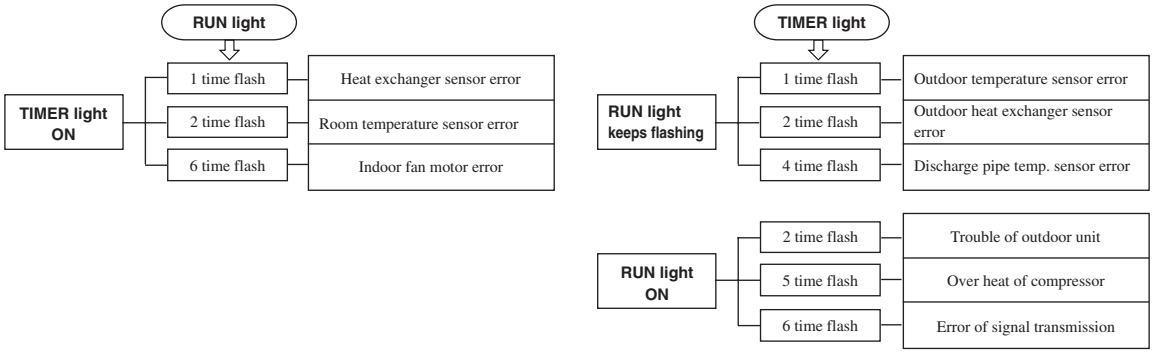
- Flap swing : The flaps swing up and down successively.
- Louver swing : The louvers swing left and right successively.
- Multi-directional Air Flow (up/down air scroll and left/right air scroll) : Activating both up/down air swing and left/right air swing at the same time results in a multi-directional air flow.
- Memory flap : Once the flap & louver position is set, the unit memorizes the position and continues to operate at the same position from the next time.

(b) Automatic operation

When the remote control switch is set on “auto(⟲)”, it will either automatically decide operation mode such as cooling and thermal dry, or operate in the operation mode before it has been turned to automatic control.

(c) Self diagnosis function

- We are constantly trying to do better service to our customers by installing such judges that show abnormality of operation as follows.



(2) How to read the model name

Example : SR K 63 C E - S

- S : R410A models
- E : Series No.
- C : Cooling only type
- 63 : Product capacity
- K : Wall mounted type
- SR : Split type room air-conditioner

3.3.2 SELECTION DATA

(1) Specifications

Model SRK63CE-S (Indoor unit)
SRC63CE-S (Outdoor unit)

(220/230/240V)

Item				Model	SRK63CE-S	SRC63CE-S
Cooling capacity(1)				W	6300	
Power source					1 Phase, 220-240V, 50Hz	
Operation data(1) (2)	Cooling input			kW	2.19	
	Running current (Cooling)			A	10.9/10.5/10.0	
	Inrush current			A	53	
	COP				Cooling: 2.88	
	Noise level	Cooling	Sound level	dB	Hi 44, Me 40, Lo 37	49
			Power level		59	65
Exterior dimensions Height × Width × Depth				mm	318 × 1098 × 248	640 × 850 × 290
Color					Yellowish white	Stucco white
Net weight				kg	15	47
Refrigerant equipment Compressor type & Q'ty					–	RM-B5125MNE5 (Rotary type) × 1
Motor				kW	–	1.9
Starting method					–	Line starting
Heat exchanger					Slit fins & inner grooved tubing	Straight fin & inner grooved tubing
Refrigerant control					Capillary tubes + Electric expansion valve	
Refrigerant(3)				kg	R410A 1.5 (Pre-charged up to the piping length of 15m)	
Refrigerant oil				ℓ	0.7 (MA68)	
Deice control					Microcomputer control	
Air handling equipment Fan type & Q'ty					Tangential fan × 1	Propeller fan × 1
Motor				W	46	43
Air flow (at High)			(Cooling)	CMM	18	42
Air filter, Q'ty					Polypropylene net (washable) × 2	–
Shock & vibration absorber					–	Cushion rubber (for compressor)
Electric heater					–	–
Operation control Operation switch					Wireless-Remote controller	–
Room temperature control					Microcomputer thermostat	–
Pilot lamp					RUN (Green), TIMER (Yellow), HI POWER (Green), ECONO (Orange)	
Safety equipment					Compressor: overheat protection, Frost protection, Serial signal error protection, Indoor fan motor error protection	
Refrigerant piping	O.D			mm (in)	Liquid line: ϕ6.35 (1/4″) Gas line: ϕ12.7 (1/2″)	
	Connecting method				Flare connecting	
	Attached length of piping				Liquid line: 0.70m Gas line : 0.63m	–
	Insulation				Necessary (Both sides)	
Drain hose					Connectable	
Power source supply					Terminal block (Screw fixing type)	
Connection wiring	Size × Core number				1.5 mm² × 4 cores (Including earth cable)	
	Connecting method				Terminal block (Screw fixing type)	
Accessories (included)					Mounting kit, Clean filter (Natural enzyme filter × 1, Photocatalytic washable deodorizing filter × 1)	
Optional parts					Wired-Remote control	

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

Item / Operation	Indoor air temperature DB	Indoor air temperature WB	Outdoor air temperature DB	Outdoor air temperature WB	Standards
Cooling	27ºC	19ºC	35ºC	24ºC	ISO-T1, JIS C9612

The piping length is 7.5m.

(2) The operation data are applied to the 220/230/240V districts respectively.

(3) The refrigerant quantity to be charged includes the refrigerant in 15 m connecting piping.
(Purging is not required even in the short piping.)
If the piping length is longer, when it is 15 to 25m, add 20g refrigerant per meter.

Model SRK71CE-S (Indoor unit)
SRC71CE-S (Outdoor unit)

(220/230/240V)

Item				Model	SRK71CE-S	SRC71CE-S
Cooling capacity(1)				W	7100	
Power source					1 Phase, 220-240V, 50Hz	
Operation data(1)	Cooling input			kW	2.21	
	Running current (Cooling)			A	11.0/10.6/10.1	
	Inrush current			A	49	
	COP				Cooling: 3.21	
	Noise level	Cooling	Sound level	dB	Hi 45, Me 41, Lo 38	54
			Power level		59	69
Exterior dimensions Height × Width × Depth				mm	318 × 1098 × 248	750 × 880 × 340
Color					Yellowish white	Stucco white
Net weight				kg	15	68
Refrigerant equipment Compressor type & Q'ty					–	5JS270DAA01
Motor				kW	–	1.8
Starting method					–	Line starting
Heat exchanger					Slit fins & inner grooved tubing	Straight fin & inner grooved tubing
Refrigerant control					Capillary tubes + Electric expansion valve	
Refrigerant(3)				kg	R410A 2.0 (Pre-charged up to the piping length of 15m)	
Refrigerant oil				ℓ	1.13 (RB68A or Freol Alpha 68M)	
Deice control					Microcomputer control	
Air handling equipment Fan type & Q'ty					Tangential fan × 1	Propeller fan × 1
Motor				W	46	85
Air flow (at High)			(Cooling)	CMM	19	60
Air filter, Q'ty					Polypropylene net (washable) × 2	–
Shock & vibration absorber					–	Cushion rubber (for compressor)
Electric heater					–	–
Operation control Operation switch					Wireless-Remote controller	–
Room temperature control					Microcomputer thermostat	–
Pilot lamp					RUN (Green), TIMER (Yellow), HI POWER (Green), ECONO (Orange)	
Safety equipment					Compressor: overheat protection, Frost protection, Serial signal error protection, Indoor fan motor error protection	
Refrigerant piping	O.D			mm (in)	Liquid line: ϕ6.35 (1/4″) Gas line: ϕ15.88 (5/8″)	
	Connecting method				Flare connecting	
	Attached length of piping				Liquid line : 0.70m Gas line : 0.63m	–
	Insulation				Necessary (Both sides)	
Drain hose					Connectable	
Power source supply					Terminal block (Screw fixing type)	
Connection wiring	Size × Core number				1.5 mm² × 4 cores (Including earth cable)	
	Connecting method				Terminal block (Screw fixing type)	
Accessories (included)					Mounting kit, Clean filter (Natural enzyme filter × 1, Photocatalytic washable deodorizing filter × 1)	
Optional parts					Wired-Remote control	

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

Item / Operation	Indoor air temperature DB	Indoor air temperature WB	Outdoor air temperature DB	Outdoor air temperature WB	Standards
Cooling	27ºC	19ºC	35ºC	24ºC	ISO-T1, JIS C9612

The piping length is 7.5m.

(2) The operation data are applied to the 220/230/240V districts respectively.

(3) The refrigerant quantity to be charged includes the refrigerant in 15 m connecting piping.
(Purging is not required even in the short piping.)
If the piping length is longer, when it is 15 to 25m, add 25g refrigerant per meter.

(2) Range of usage & limitations

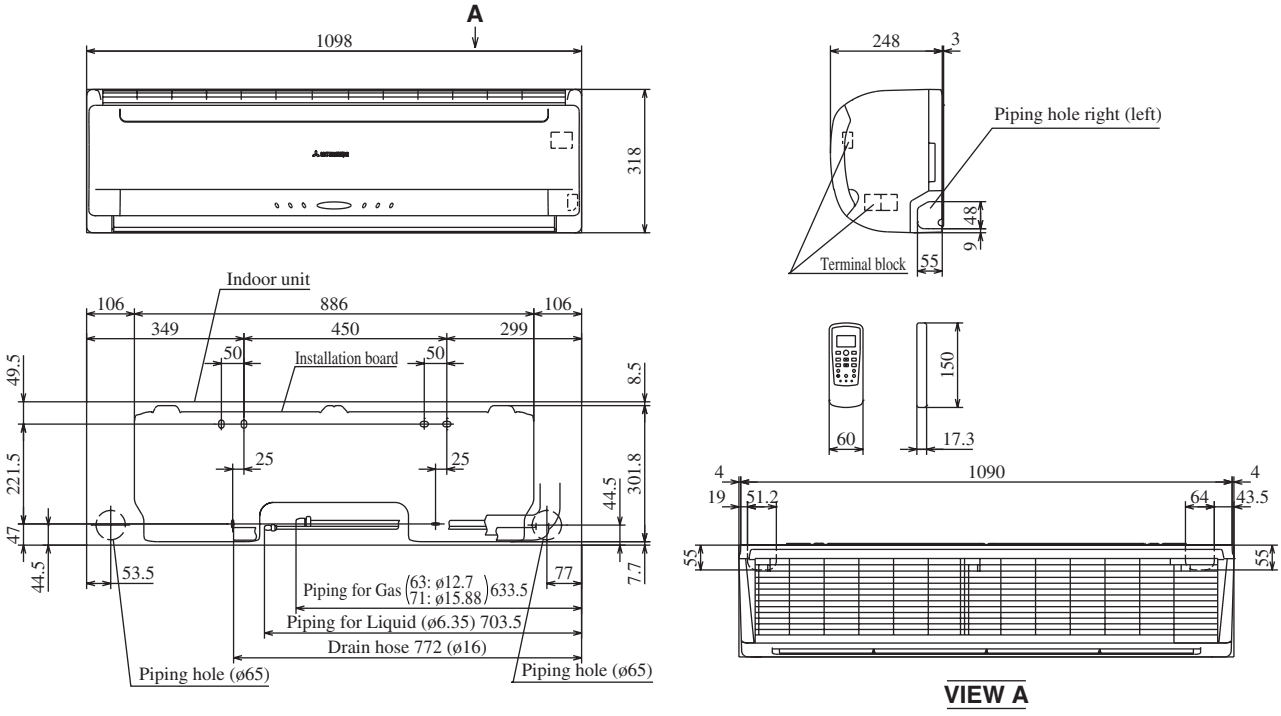
Item \ Models	All models
Indoor return air temperature (Upper, lower limits)	Refer to the selection chart
Outdoor air temperature (Upper, lower limits)	
Refrigerant line (one way) length	Max. 25m
Vertical height difference between outdoor unit and indoor unit	Max. 15m
Power source voltage	Rating ± 10%
Voltage at starting	Min. 85% of rating
Frequency of ON-OFF cycle	Max. 10 times/h
ON and OFF interval	Max. 3 minutes

(3) Exterior dimensions

(a) Indoor unit

Models SRK63CE-S, 71CE-S

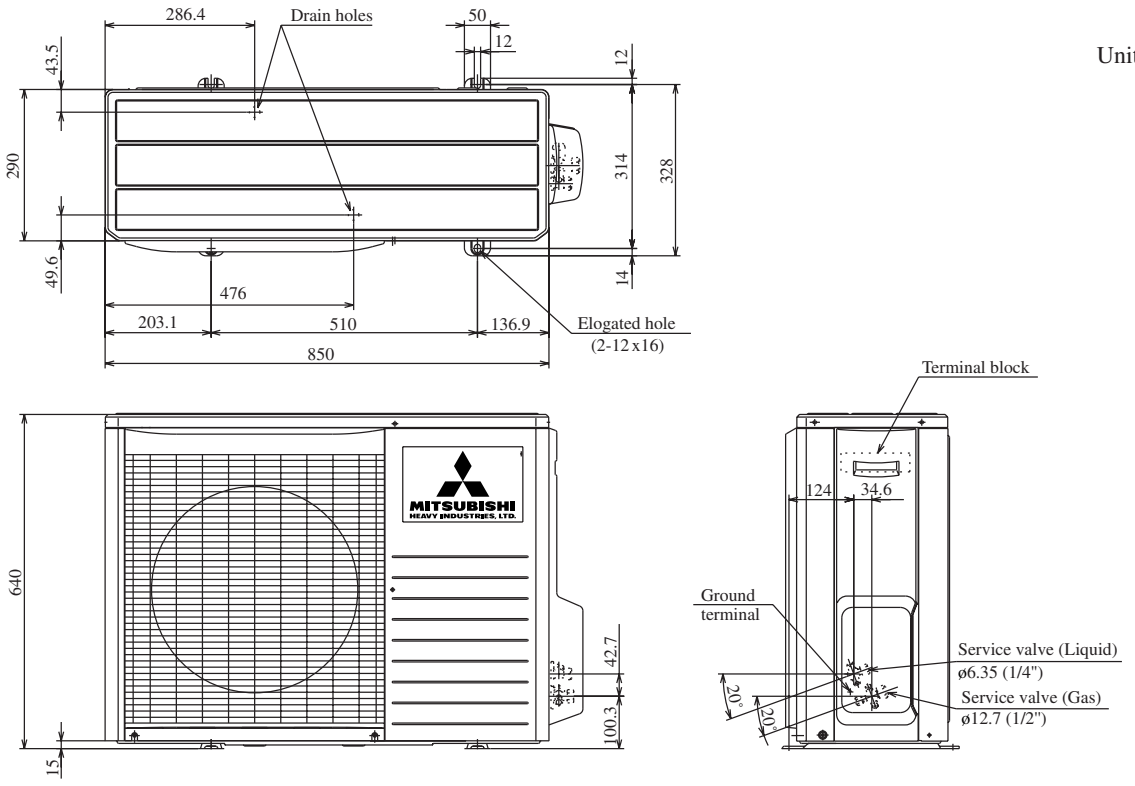
Unit: mm



(b) Outdoor unit

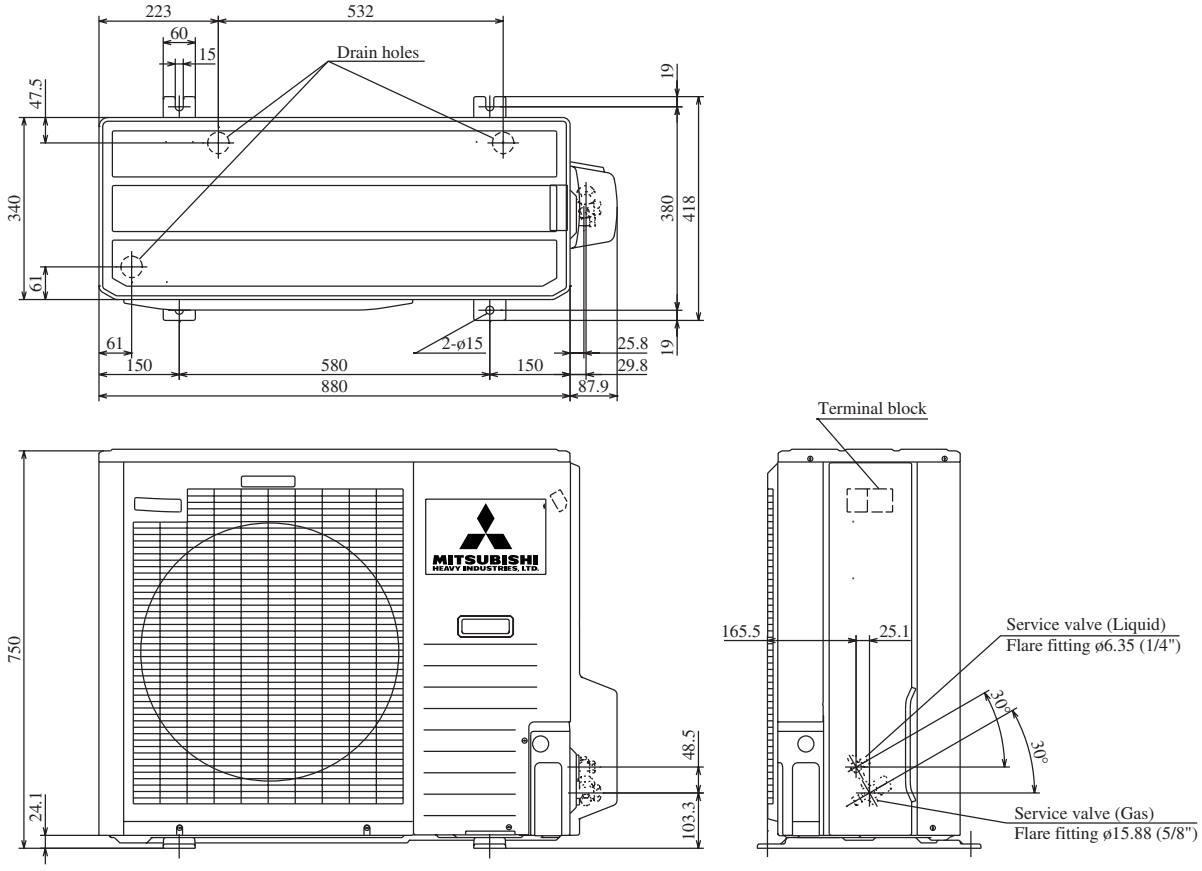
Model SRC63CE-S

Unit: mm



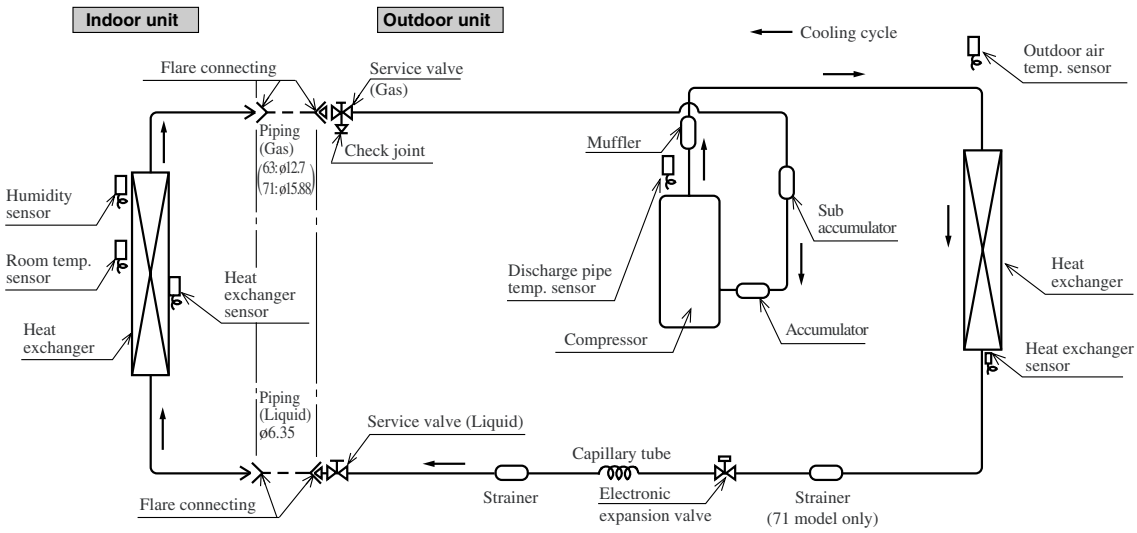
Model SRC71CE-S

Unit: mm



(4) Piping system

Models SRK63CE-S, 71CE-S

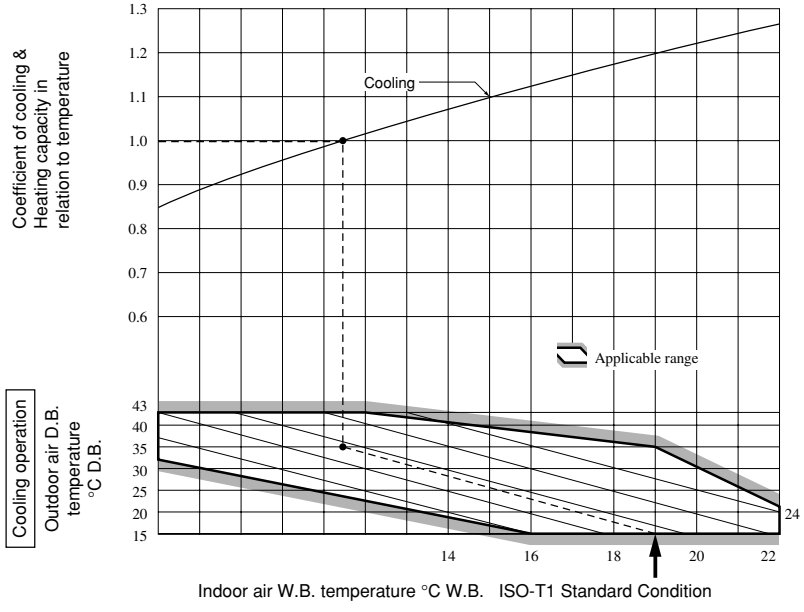


(5) Selection chart

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

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

(a) Coefficient of cooling capacity in relation to temperatures



(2) Correction of cooling capacity in relation to one way length of refrigerant piping

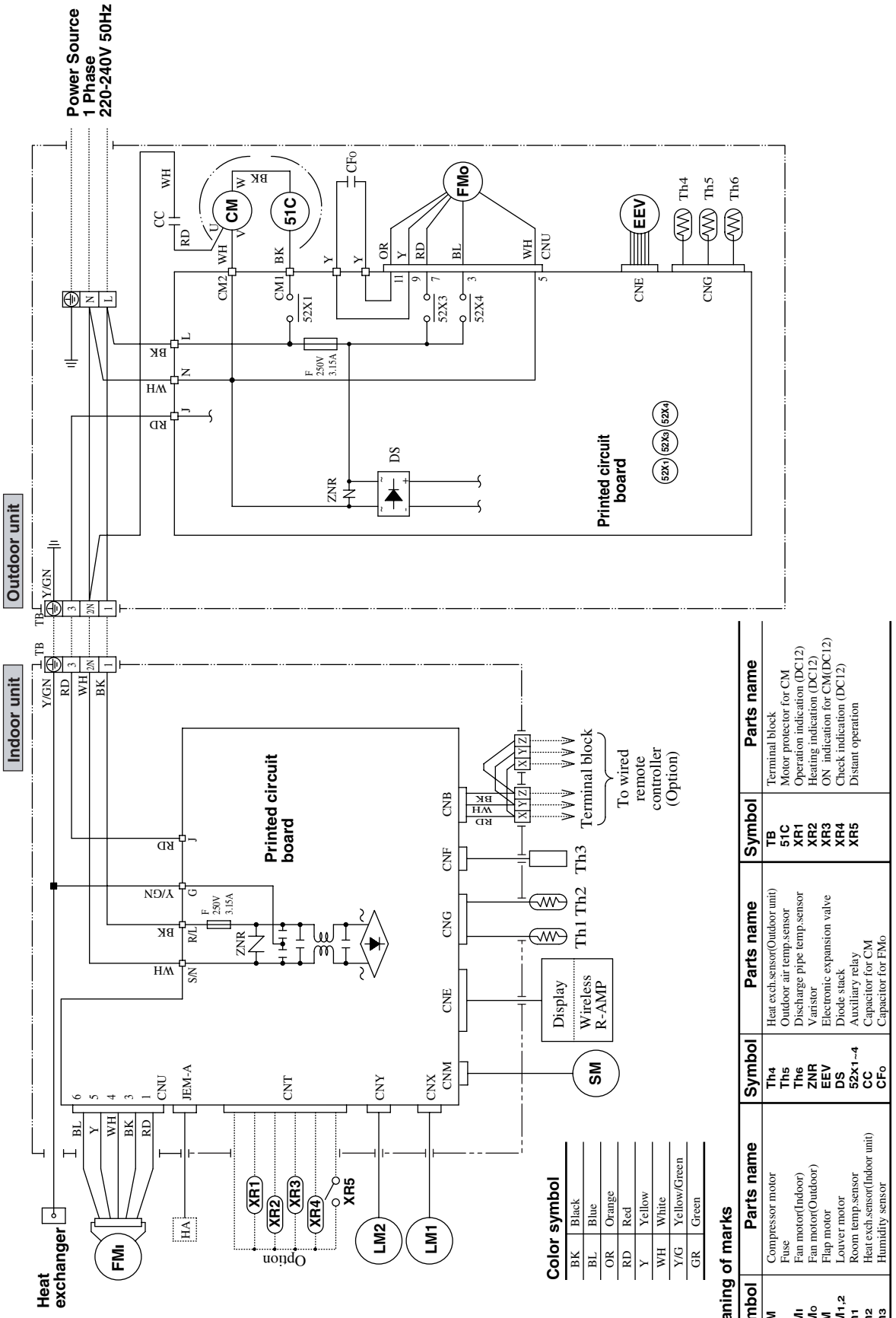
It is necessary to correct the cooling capacity in relation to the one way piping length between the indoor and outdoor units.

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

3.3.3 ELECTRICAL DATA

(1) Electrical wiring

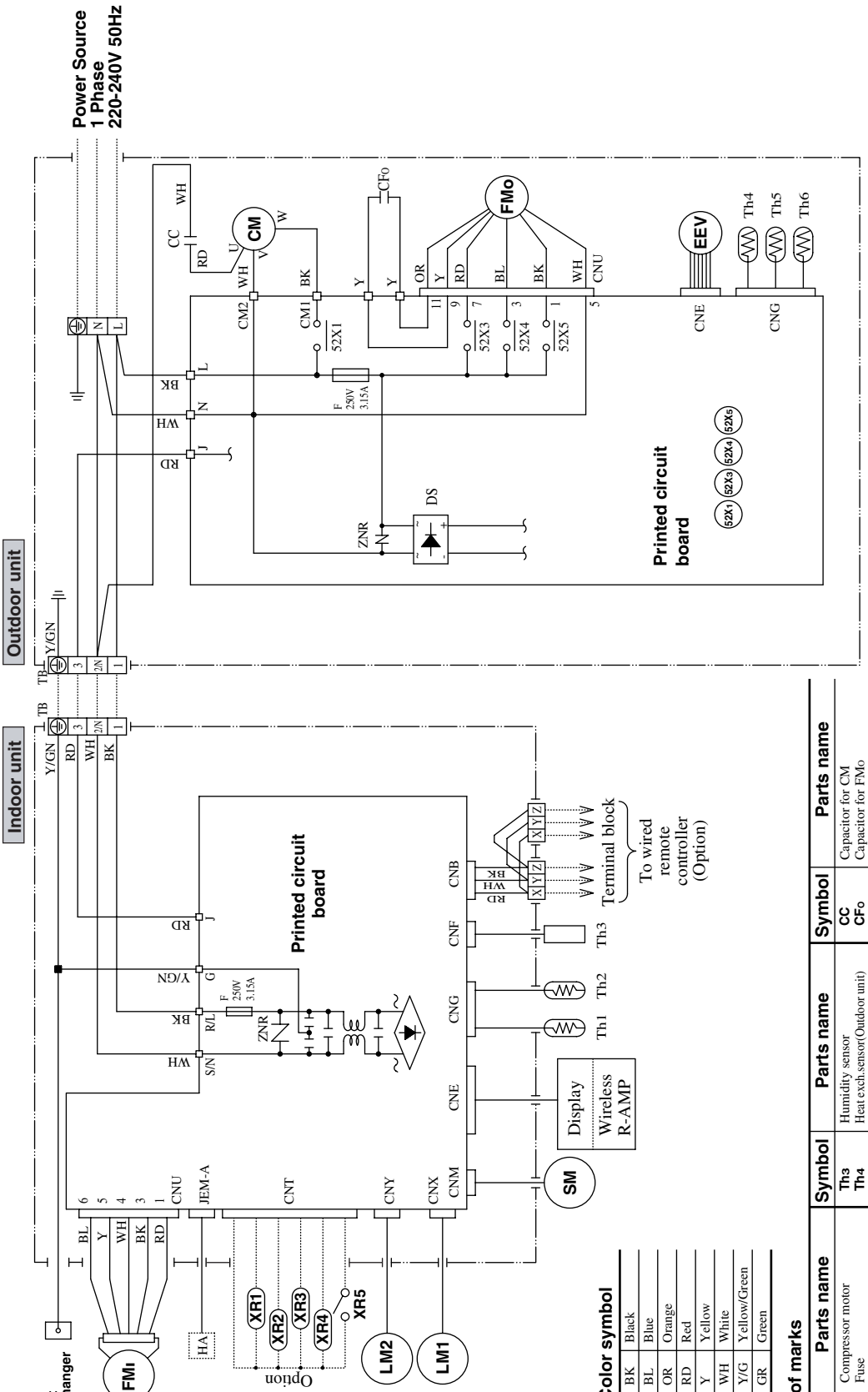
Model SRK63CE-S



Meaning of marks

Symbol	Parts name	Symbol	Parts name	Symbol	Parts name
CM	Compressor motor	Th4	Heat exch.sensor(Outdoor unit)	TB	Terminal block
F	Fuse	Th5	Outdoor air temp.sensor	51C	Motor protector for CM
FMI	Fan motor(Indoor)	Th6	Discharge pipe temp.sensor	XR1	Operation indication (DC12)
FMo	Fan motor(Outdoor)	ZNR	Varistor	XR2	Heating indication (DC12)
SM	Flap motor	EEV	Electronic expansion valve	XR3	ON indication for CM(DC12)
LM1,2	Louver motor	DS	Diode stack	XR4	Check indication (DC12)
Th1	Room temp.sensor	52X1~4	Auxiliary relay	XR5	Distant operation
Th2	Heat exch.sensor(Indoor unit)	CC	Capacitor for CM		
Th3	Humidity sensor	CFo	Capacitor for FMo		

Model SRK71CE-S



Meaning of marks

Symbol	Parts name	Symbol	Parts name	Symbol	Parts name
CM	Compressor motor	Th3	Humidity sensor	CC	Capacitor for CM
F	Fuse	Th4	Heat exch.sensor(Outdoor unit)	CFo	Capacitor for FMo
FMi	Fan motor(Indoor)	Th5	Outdoor air temp.sensor	TB	Terminal block
FMo	Fan motor(Outdoor)	Th6	Discharge pipe temp.sensor	XR1	Operation indication (DC12)
SM	Flap motor	ZNR	Varistor	XR2	Heating indication (DC12)
LM1,2	Louver motor	EEV	Electronic expansion valve	XR3	ON indication for CM(DC12)
Th1	Room temp.sensor	DS	Diode stack	XR4	Check indication (DC12)
Th2	Heat exch.sensor(Indoor unit)	52X1~5	Auxiliary relay	XR5	Distant operation

3.3.4 OUTLINE OF OPERATION CONTROL BY MICROCOMPUTER

Except for function relating to heating, same at the for SRK heat pump models. Refer to Page 225.

3.3.5 APPLICATION DATA

The application data for the cooling only models are similar to those for the heat pump models. Refer to Page 241.

3.3.6 MAINTENANCE DATA

Some at the cooling/heating equipment SRK heat pump models. Refer to Page 256.

3.3.7 REFRIGERANT PIPING INSTALLATION/SERVICING MANUAL FOR AIR CONDITIONERS USING R410A

This is same as chapter 1.1.7. Refer to Page 59.

4. INVERTER MULTI-SPLIT SYSTEM ROOM AIR-CONDITIONER[2room]

(Air to air heat pump type)

(OUTDOOR UNIT)
SCM45ZD-S

(INDOOR UNIT)

SKM22ZD-S	STM25ZE-S	SRRM25ZE-S
SKM25ZD-S	STM35ZE-S	SRRM35ZE-S
SKM28ZD-S		
SKM35ZD-S		