

TECHNICAL MANUAL & PARTS LIST

DRAFT

INVERTER WALL MOUNTED TYPE ROOM AIR-CONDITIONER

(Split system, air to air heat pump type)

SRK63ZE-S, SRK71ZE-S



INDOOR UNIT

Models SRK63ZE-S, SRK71ZE-S



OUTDOOR UNIT

Models SRC63ZE-S, SRC71ZE-S



REMOTE CONTROLLER



1 GENERAL INFORMATION

1.1 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 or heating equipment with operation control switch and the outdoor unit is composed of condensing unit with compressor.

(1) Inverter (Frequency converter) for multi-steps power control

- Heating/Cooling
 - The rotational speed of a compressor is changed in step in relation to varying load, to interlock with the indoor and outdoor unit fans controlled to changes in frequency, thus controlling the power.
- Allowing quick heating/cooling operation during start-up period. Constant room temperature by fine-tuned control after the unit has stabilized.

(2) Fuzzy control

• Fuzzy control calculates the amount of variation in the difference between the return air temperature and the setting temperature in compliance with the fuzzy rules in order to control the air capacity and the inverter frequency.

(3) Remote control flap & louver

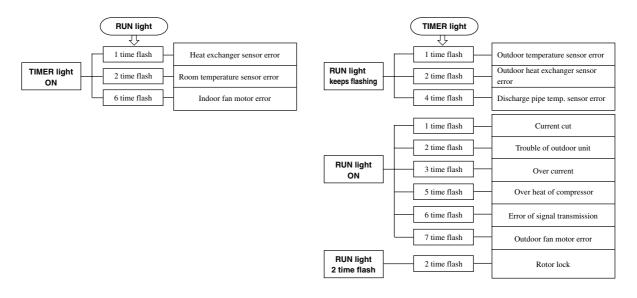
The Flap & louver can be automatically controlled by operating wireless remote control.

- Flap swing : The flaps swing up and down successively.
- Louver swing : The louvers swing left and right successively.
- Multi-directional Air Flow : Activating both up/down air swing and left/right air swing at the same time results in a multidirectional air flow.
- Memory flap

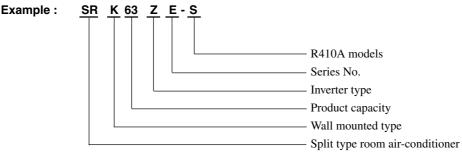
: Once the Flap & louver position is set, the unit memorizes the position and continues to operate at the same position from the next time.

(4) 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.



1.2 How to read the model name



2 SELECTION DATA

2.1 Specifications

Model SRK63ZE-S (Indoor unit)

Cooling capacity ⁽¹⁾ W 6300 (900-7100) Heating capacity ⁽¹⁾ W 7100 (900-900) Power source 1 Phase, 220-2400, 50Hz Cooling input KW 1.84 Running current (Cooling) A 8.48(17.7 Heating input KW 1.86 Running current (Heating) A 8.58(27.8 Inrush current A 6.63(2.7.8 Inrush current A 6.62 COP Cooling: 3.42 Heating: 3.82 COP Cooling: Sound level H143, Me 39, Lo 33, ULo 26 47 Noise level Sound level B 62 Hit 44, Me 38, Lo 32, ULo 27 48 Exterior dimensions mm 318 × 1098 × 248 750 × 880 × 340 Color Vellowish while Stacco while Starting method - TNB220FLBM1 (Twin rotary type) × 1 Motor KW - 1.3 Refrigerant equipment Capilary unbes + Electronic expansion valve Refrigerant of tool & Gapilary unbes + Electronic comonic valve Refrigerant of tool & 0.67 (MEL56) Delee contol Microcomputer contol Capilary unbes + Electronic contonic valve Air flow (at High) (Cooling) CMM<		SRC	63ZE-S	Outdoor ι	init)		(220/230/240V
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Air flow (at High) (Cooling) (Heating) CMM 18.5 46 Air filter, O'ty Polypropylene net (washable) × 2 - Shock & vibration absorber - Cushion rubber (for compressor) Electric heater - Cushion rubber (for compressor) Operation control - - Operation switch Wireless-Remote controller - Polito lamp Microcomputer thermostat - Pilot lamp RUN (Green), TIMER (Yellow), HI POWER (Green), ECONO (Orange) Safety equipment Compressor overheat protection, Heating overload protection (High pressure control), Overcurrent protection Frost protection, Serial signal error protection, Indoor fam motor error protection, Cooling overload protection O.D mm (in) Liquid line: 0.53 (1/4') Gas line: 0.53 (1/4') Gonnecting method Flare connecting - Attached length of piping Liquid line: 0.63m - Insulation Necessary (Both sides) - Drain hose Connectable Connectable Power source suply Terminal block (Screw fixing type) Connecting method 1.5 mm² × 4 cores (including earth cable) Connecting method Terminal bloc	Fan	n type & Q'ty				Tangentiai Tan × T	Propener ran × r
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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, Heating overload protection, Cooling overload protection, Srial signal error protection, Cooling overload protection, Cooling overload protection, More fam motor error protection, Cooling overload protection O.D mm (in) Liquid line: 0.35 (1/4") Gas line: 45.88 (5/8") Connecting method Flare connecting Attached length of piping Liquid line: 0.70m - 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)	۸ir	ir flow (at High) (Cooling)		CMM	18.5	46	
Shock & vibration absorber - Cushion rubber (for compressor) Electric heater - - Operation control Wireless-Remote controller - Operation switch Microcomputer thermostat - Room temperature control Microcomputer thermostat - Pilot lamp RUN (Green), TIMER (Yellow), HI POWER (Green), ECONO (Orange) Safety equipment Compressor overheat protection, Heating overload protection (High pressure control), Overcurrent protection Frost protection, Serial signal error protection, Indoor fam motor error protection, Cooling overload protection O.D mm (in) Liquid line: 0.50 (1/4") Gas line: \u00e4.58 (5/8") Connecting method Flare connecting - - Attached length of piping Liquid line: 0.70m - - 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) - - Connection wiring Mounting kit, Clean filter (Allergen clear filter × 1, Photocatalyti		now (at riigh)		(Heating)	CIVIIVI	21	46
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, Heating overload protection (High pressure control), Overcurrent protection Frost protection, Serial signal error protection, Indoor fan motor error protection, Cooling overload protection O.D mm (in) Liquid line: ϕ 6.35 (1/4″) Gas line: ϕ 15.88 (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 (Allergen clear filter × 1, Photocatalytic washable deodorizig filter × 1)	Air	filter, Q'ty				Polypropylene net (washable) $\times 2$	-
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, Heating overload protection (High pressure control), Overcurrent protection Frost protection, Serial signal error protection, Indoor fan motor error protection, Cooling overload protection O.D mm (in) Liquid line: ϕ 6.35 (1/4″) Gas line: ϕ 15.88 (5/8″) Connecting method Flare connecting - Attached length of piping Liquid line: 0.70m Gas line : 0.63m - Insulation Necessary (Both sides) - Drain hose Cornectable 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 (Allergen clear filter × 1, Photocatalytic washable deodorizig filter × 1)	Shoc	k & vibration a	bsorber			-	Cushion rubber (for compressor)
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, Heating overload protection (High pressure control), Overcurrent protection Frost protection, Serial signal error protection, Indoor fan motor error protection, Cooling overload protection 0.D mm (in) Liquid line: 06.35 (1/4″) Gas line: 015.88 (5/8″) Connecting method Flare connecting - Attached length of piping Liquid line: 0.70m - Insulation Necessary (Both sides) - Drain hose Connectable Connectable Power source supply Terminal block (Screw fixing type) Connecting method Terminal block (Screw fixing type) Accessories (included) Mounting kit, Clean filter (Allergen clear filter × 1, Photocatalytic washable deodorizig filter × 1)	Electr	ric heater				-	-
Room temperature control Microcomputer thermostat - Pilot lamp RUN (Green), TIMER (Yellow), HI POWER (Green), ECONO (Orange) Safety equipment Compressor overheat protection, Heating overload protection (High pressure control), Overcurrent protection Frost protection, Serial signal error protection, Indoor fan motor error protection, Cooling overload protection 0.D mm (in) Liquid line: $\phi 6.35 (1/4'')$ Gas line: $\phi 15.88 (5/8'')$ Connecting method Flare connecting	•					Wireless-Remote controller	-
Pilot lamp RUN (Green), TIMER (Yellow), HI POWER (Green), ECONO (Orange) Safety equipment Compressor overheat protection, Heating overload protection (High pressure control), Overcurrent protection Frost protection, Serial signal error protection, Indoor fan motor error protection, Cooling overload protection 0.D mm (in) Liquid line: $\phi 6.35 (1/4")$ Gas line: $\phi 15.88 (5/8")$ Connecting method Flare connecting Attached length of piping Liquid line: 0.70m 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 (Allergen clear filter × 1, Photocatalytic washable deodorizig filter × 1)			e control			Microcomputer thermostat	-
Safety equipment Compressor overheat protection, Heating overload protection (High pressure control), Overcurrent protection Frost protection, Serial signal error protection, Indoor fan motor error protection, Cooling overload protection Fost protection, Serial signal error protection, Indoor fan motor error protection, Cooling overload protection Flare connecting 0.D mm (in) Liquid line: $\phi 6.35 (1/4'')$ Gas line: $\phi 15.88 (5/8'')$ Connecting method Flare connecting Flare connecting Attached length of piping Liquid line: 0.70m Gas line: 0.63m - Insulation Necessary (Both sides) - Drain hose Connectable Connectable Power source supply Terminal block (Screw fixing type) - Connection wiring Size × Core number 1.5 mm² × 4 cores (Including earth cable) Terminal block (Screw fixing type) Accessories (included) Mounting kit, Clean filter (Allergen clear filter × 1, Photocatalytic washable deodorizig filter × 1)						*	POWER (Green), ECONO (Orange)
O.D mm (in) Liquid line: \(0.5.35 (1/4'')) Gas line: \(0.15.88 (5/8'')) Onecting method Flare connecting Attached length of piping Liquid line: 0.70m Attached length of piping Liquid 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 (Allergen clear filter × 1, Photocatalytic washable deodorizig filter × 1)						Compressor overheat protection, Heating overload prot	ection (High pressure control), Overcurrent protection
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 Size × Core number 1.5 mm² × 4 cores (Including earth cable) Connecting method Terminal block (Screw fixing type) Accessories (included) Mounting kit, Clean filter (Allergen clear filter × 1, Photocatalytic washable deodorizig filter × 1)		0.0			mm (in)		
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Drain hose Connectable Power source supply Terminal block (Screw fixing type) Connection wiring Size × Core number Connecting method Terminal block (Screw fixing type) Accessories (included) Mounting kit, Clean filter (Allergen clear filter × 1, Photocatalytic washable deodorizig filter × 1)	ing		an o bit			-	_
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Accessories (included) Mounting kit, Clean filter (Allergen clear filter × 1, Photocatalytic washable deodorizig filter × 1)	Conn	ection wiring					
	A	seorios (inclus		ung memoa		-	
Uptional parts –		•	ieu)			wounting Kit, Clean Inter (Allergen clear filter × 1	, FIOLOCALAIYLIC WASHADIE GEOGORIZIG TILTER × 1)
	ορτιο	nai parts				-	

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

Item	Indoor air t	emperature	Outdoor air	Standards	
Operation	DB	WB	DB	WB	Standards
Cooling	27°C	19°C	35°C	24°C	ISO-T1, JIS C9612
Heating	20°C	-	7°C	6°C	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 30 m, add 25g refrigerant per meter.

Model SRK71ZE-S (Indoor unit) SRC71ZE-S (Outdoor unit)

			(Outdoor u	-		(220/230/240)			
Item				Model	SRK71ZE-S	SRC71ZE-S			
Cooli	ng capacity ⁽¹⁾			W	7100 (90	0~8000)			
	ng capacity ⁽¹⁾			w	8000 (900~10500)				
Power	r source				1 Phase, 220-240V, 50Hz				
	Cooling inp	ut		kW	2.:	21			
	Running current (Cooling)			Α	10.1/9.7/9.3				
(2)	Heating input			kW	2.21				
ta ⁽¹	Running current (Heating)			Α	10.1/9	.7/9.3			
da	Inrush curre			Α	10.1/9	0.7/9.3			
<u>io</u>	COP				Cooling: 3.21	Heating: 3.62			
Operation data ⁽¹⁾⁽²⁾			Sound level		Hi 45, Me 40, Lo 34, ULo 26	52			
be		Cooling	Power level		60	67			
0	Noise level		Sound level	dB	Hi 46, Me 40, Lo 34, ULo 27	49			
		Heating	Power level		60	64			
Evtori	or dimension	e	Power level		80	64			
	ght $ imes$ Width $ imes$			mm	318 × 1098 × 248	750 × 880 × 340			
Color					Yellowish white	Stucco white			
Net w	<u> </u>			kg	18	65			
-	jerant equipm npressor type				_	TNB220FLBM1 [Twin rotary type] \times 1			
	Motor	Motor		kW	_	1.3			
	Starting me	thod			_	Line starting			
Hea	t exchanger				Slit fins & inner grooved tubing	Straight fin & inner grooved turbing			
Ref	rigerant contr	ol			Capillary tubes + Elec	tronic expansion valve			
Ref	rigerant ⁽³⁾			kg	R410A 1.9 (Pre-Charged up	to the piping length of 15m)			
Ref	rigerant oil			l	0.67 (N	1EL56)			
Dei	ce control				Microcomp	uter control			
Air ha	Indling equip	nent			Tangential fan \times 1	Propeller fan $\times 1$			
Fan	type & Q'ty								
	Motor			w	46	86			
Air	flow (at High)		(Cooling)	СММ	20	56			
			(Heating)	011111	22.5	49			
	filter, Q'ty				Polypropylene net (washable) $\times 2$	_			
	« & vibration a	absorber			_	Cushion rubber (for compressor)			
	ic heater				-	-			
•	tion control eration switch				Wireless-Remote controller	-			
	om temperatu				Microcomputer thermostat	_			
Pilo	ot lamp				RUN (Green), TIMER (Yellow), HI	POWER (Green), ECONO (Orange)			
Safety	/ equipment				Compressor overheat protection, Heating overload prot Frost protection, Serial signal error protection, Indoor fa				
	O.D			mm (in)	1 , 2 1 ,	 Gas line: 015.88 (5/8") 			
Ĕ	Connecting	method		()	Flare co	, , ,			
era	Attached lei		ping		Liquid line: 0.70m				
frig ing		.g or pr	F		Gas line : 0.63m	_			
Refrigerant piping	Insulation				Necessary (Both sides)			
					Conne				
Drain	Drain hose								
	wer source supply				Terminal block (Screw fixing type)				
Powe		Size ×	Core number		1.5 mm ² \times 4 cores (Including earth cable)				
Powe	r source supp ection wiring		Core number		-				
Power Conne		Conne	Core number cting method		-	crew fixing type)			

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

Item	Indoor air t	emperature	Outdoor air	Standards	
Operation	DB	WB	DB	WB	Standards
Cooling	27°C	19°C	35°C	24°C	ISO-T1, JIS C9612
Heating	20°C	-	7°C	6°C	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 30 m, add 25g refrigerant per meter.

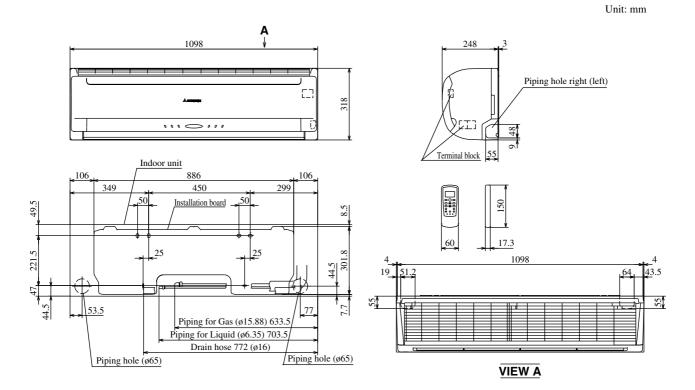
2.2 Range of usage & limitations

Models	SRK63ZE-S, 71ZE-S
Indoor return air temperature (Upper, lower limits)	Cooling operation: Approximately 18 to 32°C Heating operation: Approximately 15 to 30°C
Outdoor air temperature (Upper, lower limits)	Cooling operation: Approximately -15 to 46°C Heating operation: Approximately -15 to 21°C
Refrigerant line (one way) length	Max. 30m
Vertical height difference between outdoor unit and indoor unit	Max. 20m (Outdoor unit is higher) Max. 20m (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

2.3 Exterior dimensions

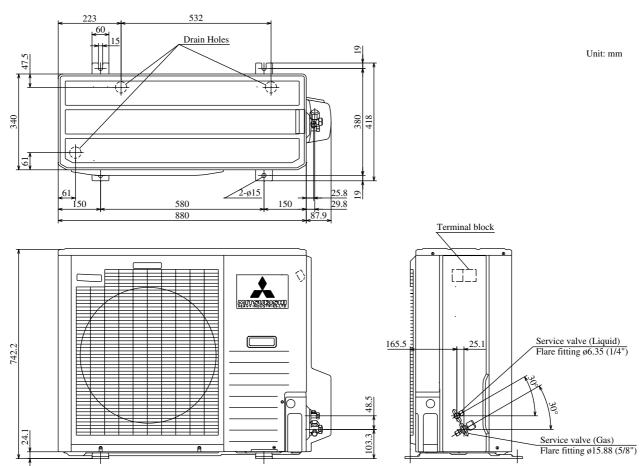
(1) Indoor unit

Models SRK63ZE-S, 71ZE-S



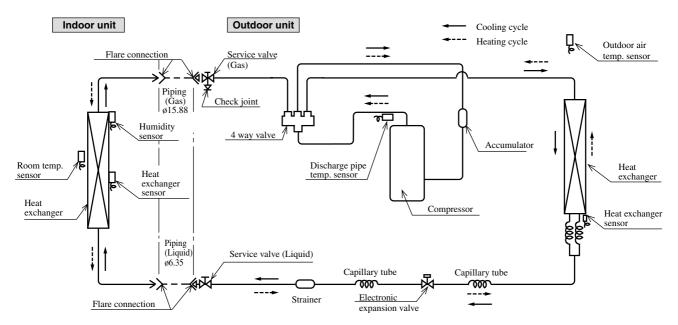
(2) Outdoor unit

Models SRC63ZE-S, 71ZE-S



2.4 Piping system

Models SRK63ZE-S, 71ZE-S



2.5 Selection chart

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

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

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

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

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

Piping length [m]	7	10	15	20	25	30
Cooling	1.0	0.99	0.975	0.965	0.95	
Heating	1.0	1.0	1.0	1.0	1.0	

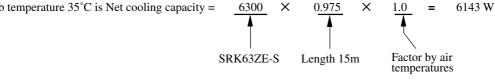
(3) Correction relative to frosting on outdoor heat exchanger during heating

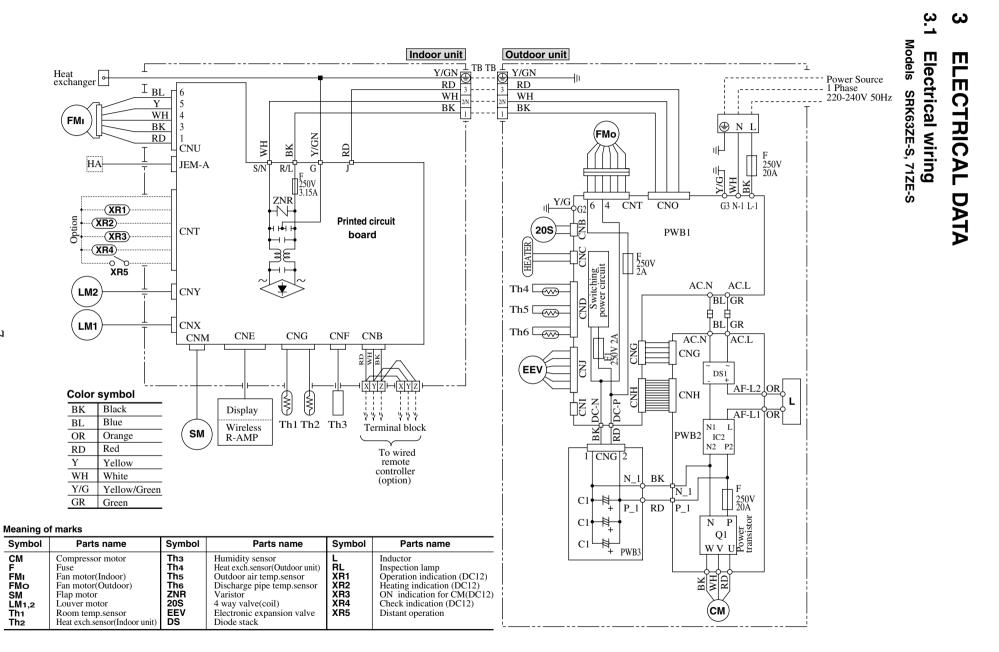
In additions to the foregoing corrections (1), (2) the heating capacity needs to be adjusted also with respect to the frosting on the outdoor heat exchanger.

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

How to obtain the cooling and heating capacity

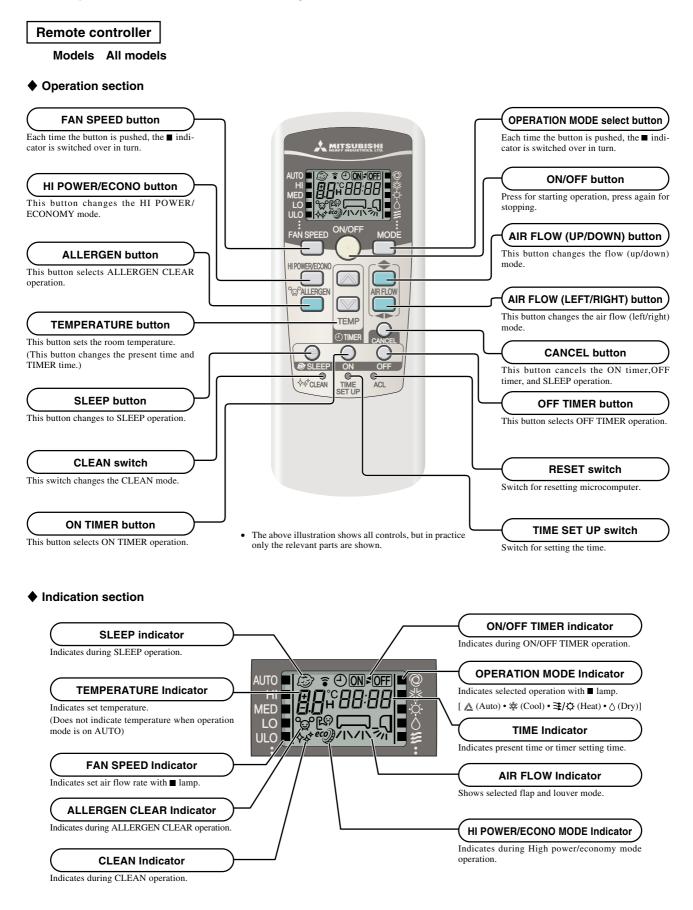
Example : The net cooling capacity of the model SRK63ZE-S with the piping length of 15m, indoor wet-bulb temperature at 19.0° C and outdoor dry-bulb temperature 35° C is Net cooling capacity = $6300 \times 0.975 \times 1.0 = 6143$ W





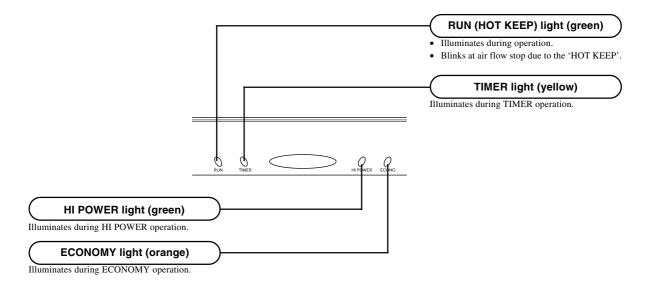
4 OUTLINE OF OPERATION CONTROL BY MICROCOMPUTER

4.1 Operation control function by remote control switch



Unit indication section

Models All models



5 INSTALLATION

R410A refrigerant is used for this air-conditioner. Execute the installation work while taking care of the following points in addition to the general caution items.

5.1 Installation tools

Prepare the following special tools for R410A in addition to the general-purpose tools.

- Flare tool
- Gauge manifold
- Leak detector

• Vacuum pump adaptor

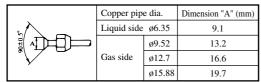
• Charge hose

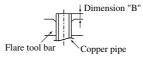
5.2 Refrigerant piping

- Use the copper pipe that has less than 40 mg/10 m of oil adhesion and 0.8 mm of wall thickness. Never use the thin walled pipe the thickness of which is less than 0.8 mm.
- Use the flare nut attached to the air-conditioner.

5.3 Pipe connection

(1) Pipe working





Copper pipe dia.	Dimension "B" (mm)		
Copper pipe dia.	Clutch type flare tool for R410A		
ø6.35	0.0 ~ 0.5		
ø9.52	0.0 ~ 0.5		
ø12.7	0.0 ~ 0.5		
ø15.88	0.0 ~ 0.5		

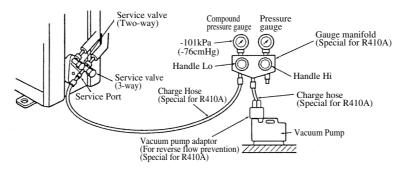
(2) Tightening torque

• The tightening torque is shown below.

Copper pipe	dia.	Across flats of flare nut (mm)	Tightening torque N·m (kgf·m)
Liquid side	ø6.35	17	$14 \sim 18 \; (1.4 \sim 1.8)$
	ø9.52	22	33 ~ 42 (3.3 ~ 4.2)
Gas side	ø12.7	24	$50 \sim 62 \; (5.0 \sim 6.2)$
	ø15.88	27	63 ~ 77 (6.3 ~ 7.7)

(3) Vacuuming

- The charge hose for R22 cannot be connected because the service port diameter is different from the conventional one. Use the special charge hose for R410A.
- Use the vacuum pump adapter for reverse flow prevention to check the reverse flow of vacuum pump oil. If oil flows back to the air-conditioner, it causes failure of refrigerant cycle.



PARTS LIST (Main parts)

(1) Indoor unit

No	Parts Name	Parts	s No.	
No.	Pans Name	SRK63ZE-S	SRK71ZE-S	
1	PANEL ASSY, FRONT	RKW10	02A200	
2	PANEL, FRONT	RKW12	22A200	
3	PANEL, AIR INLET	RKW435A201		
4	GRILLE ASSY, AIR OUTLET	RKW435A202		
5	MOTOR, DC	SSA512T072		
6	IMPELLER	SSA431G043A		
7	HEAT EXCH ASSY(AIR)	RKW301A200A		
8	PWB ASSY	RKW505A200	RKW505A200A	
9	CONTROL ASSY, REMOTE	RKW502A200		

(2) Outdoor unit

No	Parts Name	Parts	s No.		
No.	Faits Name	SRC63ZE-S	SRC71ZE-S		
1	PANEL ASSY, FRONT	RCR122A001			
2	PANEL, TOP	RCR12	4A001		
3	GRILLE, AIR OUTLET	RCR43	5A001		
4	BRACKET, MOTOR	RCR11	6A001		
5	MOTOR, DC	SSA51	2T076		
6	FAN, PROPELLER	SSA431B247			
7	BASE ASSY	RCR111A001			
8	HEAT EXCH(AIR)	RCR311A001			
9	VALVE, S(4WAY)	SSA38	2C078		
10	COIL, SOLENOID	SSA382	2F027B		
11	COMPRESSOR ASSY	PCA201	A048A		
12	PWB ASSY(MAIN)	RCR50	5A001		
13	PWB ASSY(POWER)	RCR505A002			
14	PWB ASSY(CAPACITOR)	RPC505A852B			
15	VALVE, BODY(EXP)	SSA387F035			
16	COIL, SOLENOID	SSA382	2F210L		

INVERTER WALL MOUNTED TYPE ROOM AIR-CONDITIONER



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