MITSUBISHI ELECTRIC

Changes for the Better

SPLIT-TYPE, HEAT PUMP AIR CONDITIONERS

No.OC304
REVISED EDITION-B

TECHNICAL & SERVICE MANUAL

R410A

Outdoor unit
[model names]

SUZ-A09VR

SUZ-A12VR

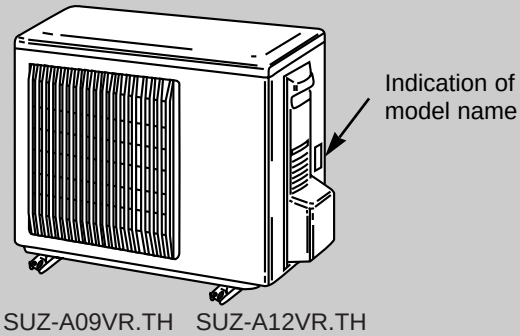
SUZ-A18VR

SUZ-A24VR

[Service Ref.]

SUZ-A09VR.TH
SUZ-A12VR.TH
SUZ-A18VR.TH
SUZ-A24VR.TH

HFC utilized R410A



SUZ-A09VR.TH SUZ-A12VR.TH

Revision :
• "**14.PARTS LIST**" has been modified.

NOTE:
This service manual describes technical data of the outdoor units.
•As for indoor units SLZ-A09AR.TH, SLZ-A12AR.TH, SLZ-A18AR.TH, SEZ-A12AR.TH, SEZ-A18AR.TH, SEZ-A24AR.TH and SEZ-A09CR.W, refer to the service manual OC302 and OC303.

• Please void OC304 REVICED EDITION-A.

CONTENTS

Revision:
" **14. PARTS LIST** " has been modified.

Page	Revise point	Service Ref.	Incorrect	Correct
83	Parts number of 4-WAY VALVE (No.16)	SUZ-A18VR.TH SUZ-A24VR.TH	E02 679 961	E02 891 961

1 COMBINATION OF INDOOR AND OUTDOOR UNITS

	Indoor unit		Outdoor unit Heat pump type SUZ-			
	Service Ref.	Service Manual No.	A09VR.TH	A12VR.TH	A18VR.TH	A24VR.TH
Heat pump without electric heater	SLZ-A09AR.TH	OC302	○	—	—	—
	SLZ-A12AR.TH		—	○	—	—
	SLZ-A18AR.TH		—	—	○	—
	SEZ-A09CR.W	—	○	—	—	—
	SEZ-A12AR.TH	OC303	—	○	—	—
	SEZ-A18AR.TH		—	—	○	—
	SEZ-A24AR.TH		—	—	—	○

2 TECHNICAL CHANGES

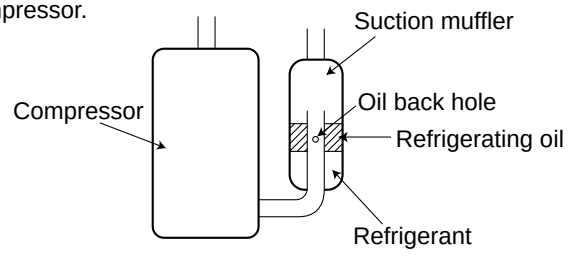
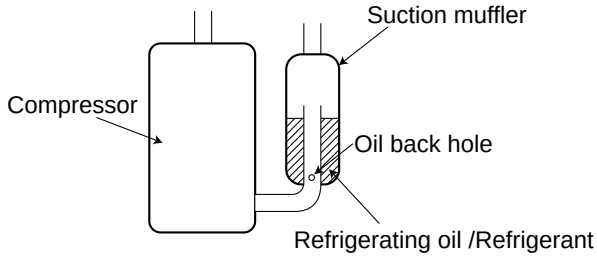
INFORMATION FOR THE AIR CONDITIONER WITH R410A REFRIGERANT

- This room air conditioner adopts an HFC refrigerant (R410A) which never destroys the ozone layer.
- Pay particular attention to the following points, though the basic installation procedure is same as that for R22 conditioners.

① As R410A has working pressure approximate 1.6 times as high as that of R22, some special tools and piping parts/ materials are required. Refer to the table below.
② Take sufficient care not to allow water and other contaminations to enter the R410A refrigerant during storage and installation, since it is more susceptible to contaminations than R22.
③ For refrigerant piping, use clean, pressure-proof parts/materials specifically designed for R410A. (Refer to 2. Refrigerant piping.)
④ Composition change may occur in R410A since it is a mixed refrigerant. When charging, charge liquid refrigerant to prevent composition change.

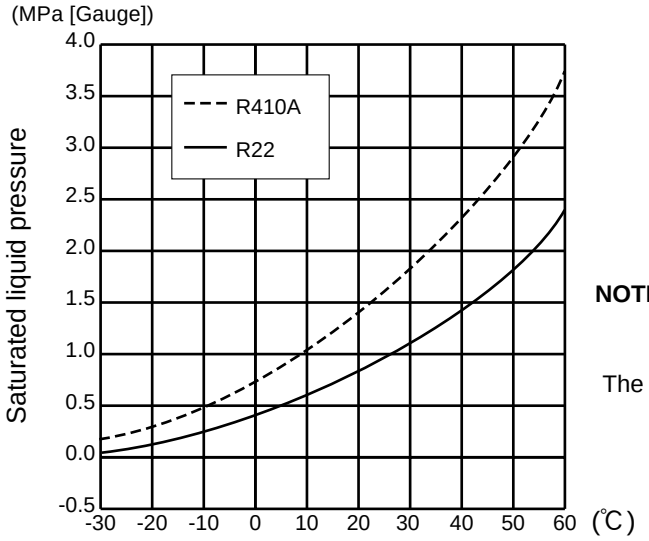
		New refrigerant	Previous refrigerant
Refrigerant	Refrigerant	R410A	R22
	Composition (Ratio)	HFC-32: HFC-125 (50%:50%)	R22 (100%)
	Refrigerant handling	Pseudo-azeotropic refrigerant	Single refrigerant
	Chlorine	Not included	Included
	Safety group (ASHRAE)	A1/A1	A1
	Molecular weight	72.6	86.5
	Boiling point (℃)	-51.4	-40.8
	Steam pressure [25℃](Mpa)	1.557	0.94
	Saturated steam density [25℃](Kg/m³)	64	44.4
	Combustibility	Non combustible	Non combustible
	ODP ※1	0	0.055
	GWP ※2	1730	1700
	Refrigerant charge method	From liquid phase in cylinder	Gas phase
	Additional charge on leakage	Possible	Possible
Refrigerating oil	Kind	Incompatible oil	Compatible oil
	Color	Non	Light yellow
	Smell	Non	Non

※1 :Ozone Destruction Parameter : based on CFC-11
※2 :Global Warmth Parameter : based on CO_2

	New Specification	Current Specification
Compressor	The incompatible refrigerating oil easily separates from refrigerant and is in the upper layer inside the suction muffler. Raising position of the oil back hole enables to back the refrigerating oil of the upper layer to flow back to the compressor. 	Since refrigerant and refrigerating oil are compatible each, refrigerating oil backs to the compressor through the lower position oil back hole. 

NOTE : The unit of pressure has been changed to MPa on the international system of units(SI unit system).
The conversion factor is: **1(MPa [Gauge]) =10.2(kgf/㎠ [Gauge])**

Conversion chart of refrigerant temperature and pressure



NOTE : The unit of pressure has been changed to MPa on the international system of units(SI unit system).

The conversion factor is: **1(MPa [Gauge]) =10.2(kgf/㎠ [Gauge])**

1. Tools dedicated for the air conditioner with R410A refrigerant

The following tools are required for R410A refrigerant. Some R22 tools can be substituted for R410A tools.
The diameter of the service port on the stop valve in outdoor unit has been changed to prevent any other refrigerant being charged into the unit. Cap size has been changed from 7/16 UNF with 20 threads to 1/2 UNF with 20 threads.

R410A tools	Can R22 tools be used?	Description
Gauge manifold	No	R410A has high pressures beyond the measurement range of existing gauges. Port diameters have been changed to prevent any other refrigerant from being charged into the unit.
Charge hose	No	Hose material and cap size have been changed to improve the pressure resistance.
Gas leak detector	No	Dedicated for HFC refrigerant.
Torque wrench	Yes	6.35 mm and 9.52 mm
	No	12.7 mm
Flare tool	Yes	Clamp bar hole has been enlarged to reinforce the spring strength in the tool.
Flare gauge	New	Provided for flaring work (to be used with R22 flare tool).
Vacuum pump adapter	New	Provided to prevent the back flow of oil. This adapter enables you to use vacuum pumps.
Electronic scale for refrigerant charging	New	It is difficult to measure R410A with a charging cylinder because the refrigerant bubbles due to high pressure and high-speed vaporization

No : Not Substitutable for R410A Yes : Substitutable for R410A

2. Refrigerant piping

① Specifications

Use the refrigerant pipes that meet the following specifications.

Pipe	Outside diameter mm	Wall thickness	Insulation material
For liquid	6.35	0.8 mm	Heat resisting foam plastic Specific gravity 0.045 Thickness 8 mm
For gas	9.52	0.8 mm	
	12.7	0.8 mm	

• Use a copper pipe or a copper-alloy seamless pipe with a thickness of 0.8 mm. Never use any pipe with a thickness less than 0.8mm, as the pressure resistance is insufficient.

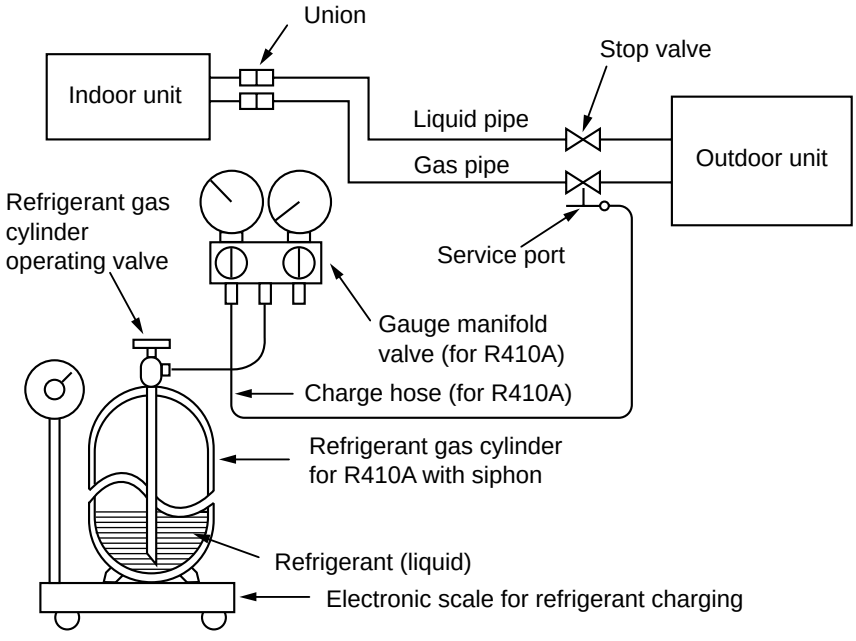
② Flaring work and flare nut
Flaring work for R410A pipe differs from that for R22 pipe.
For details of flaring work, refer to Installation manual “FLARING WORK”.

Pipe diameter	Dimension of flare nut	
mm	R410A	R22
6.35	17	17
9.52	22	22
12.7	26	24

3. Refrigerant oil
Apply the special refrigeration oil (accessories: packed with indoor unit) to the flare and the union seat surfaces.

4. Air purge
- Do not discharge the refrigerant into the atmosphere.
  Take care not to discharge refrigerant into the atmosphere during installation, reinstallation, or repairs to the refrigerant circuit.
- Use the vacuum pump for air purging for the purpose of environmental protection.

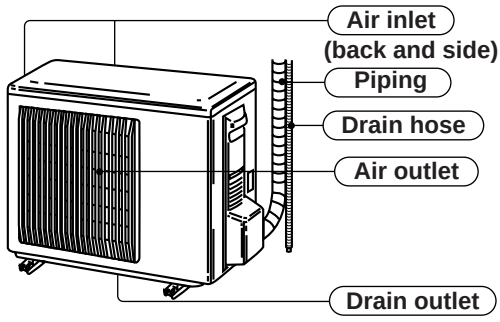
5. Additional charge
For additional charging, charge the refrigerant from liquid phase of the gas cylinder.
If the refrigerant is charged from the gas phase, composition change may occur in the refrigerant inside the cylinder and the outdoor unit. In this case, ability of the refrigerating cycle decreases or normal operation can be impossible. However, charging the liquid refrigerant all at once may cause the compressor to be locked. Thus, charge the refrigerant slowly.



3 PART NAMES AND FUNCTIONS

SUZ-A09VR.TH
SUZ-A12VR.TH

OUTDOOR UNIT

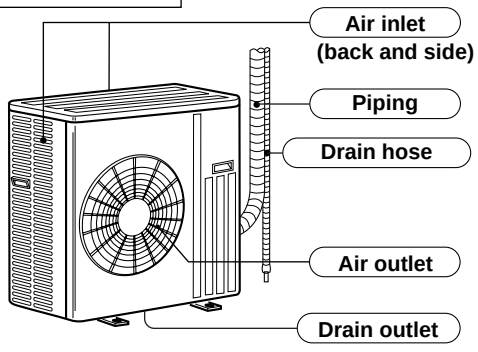


ACCESSORIES

		SUZ-A09VR.TH SUZ-A12VR.TH
①	Drain socket	1

SUZ-A18VR.TH
SUZ-A24VR.TH

OUTDOOR UNIT



ACCESSORIES

		SUZ-A18VR.TH SUZ-A24VR.TH
①	Drain socket	1
②	Drain cap ϕ33	2

4 SPECIFICATION

SLZ-A•AR.TH / SUZ-A•VR.TH

Outdoor Service Ref.			SUZ-A09VR.TH Indoor Service Ref. SLZ-A09AR.TH		SUZ-A12VR.TH Indoor Service Ref. SLZ-A12AR.TH		SUZ-A18VR.TH Indoor Service Ref. SLZ-A18AR.TH	
Function			Cooling	Heating	Cooling	Heating	Cooling	Heating
Power supply			Single phase 230V,50Hz		Single phase 230V,50Hz		Single phase 230V,50Hz	
Capacity	Capacity Rated frequency(Min.~Max.)	kW	2.5(0.9-3.2)	3.0(0.9-4.3)	3.2(1.0-3.6)	3.8(0.9-4.8)	4.6(1.1-5.2)	5.0(0.9-6.5)
	Dehumidification	ℓ /h	1.4	—	1.8	—	2.3	—
	Air flow(High/Low※)	m³ /h	1900		1900		2,940/1,320※	2,940/2,210※
Electrical data	Starting current ✻1	A	4.20		4.90		7.40	
	Compressor motor current ✻1	A	3.28	3.78	4.43	4.43	6.86	6.46
	Fan motor current	A	0.24		0.24		0.30	
Coefficient of performance (C.O.P)			3.29	3.45	3.02	3.55	2.82	3.23
Compressor	Model		KNB073FBVH		KNB092FAAH		SNB130FLDH	
	Output	W	550		650		850	
	Winding resistance(at 20℃)	Ω	U-V 1.53 U-W 1.53 V-W 1.53		U-V 0.49 U-W 0.49 V-W 0.49		U-V 0.45 U-W 0.45 V-W 0.45	
Fan motor	Model		RA6V21-AA		RA6V21-AA		PM8H60-UB	
	Winding resistance(at 20℃)	Ω	WHT-BLK 347 BLK-RED 281		WHT-BLK 347 BLK-RED 281		BLK-WHT 15.2 WHT-RED 15.2 RED-BLK 15.2	
	Dimensions W×H×D	mm	800×550×285		800×550×285		840×850×330	
	Weight	kg	33		34		53	
Special remarks	Sound level	dB	46		47	48	53/50※	55/53※
	Fan speed	rpm	825		825		800/400※	800/620※
	Fan speed regulator		1		1		2	
	Refrigerant filling capacity(R410A)	kg	0.80		0.90		1.80	
	Refrigerating oil (Model)	cc	320 (NEO22)		320 (NEO22)		450 (NEO22)	
	Thermistor RT61 (at 0℃)	kΩ	32.6		32.6		—	
	Thermistor RT62 (at 100℃)	kΩ	13.4		13.4		—	
	Thermistor RT64 (at 50℃)	kΩ	17		17		—	
	Thermistor RT65 (at 25℃)	kΩ	10		10		—	
	Thermistor RT61 (at 100℃)	kΩ	—		—		13.4	
	Thermistor RT62 (at 25℃)	kΩ	—		—		10.0	
	Thermistor RT65 (at 50℃)	kΩ	—		—		17.0	
	Thermistor RT68 (at 25℃)	kΩ	—		—		10.0	

NOTE : Test conditions are based on ISO 5151
Cooling : Indoor D.B. 27℃ W.B. 19℃
Outdoor D.B. 35℃ W.B. 24℃
Heating : Indoor D.B. 20℃ W.B. 15℃
Outdoor D.B. 7℃ W.B. 6℃
Refrigerant piping length (one way): 5m
✻1 Measured under rated operating frequency.

SEZ-A•CR.W / SUZ-A•VR.TH

Outdoor Service Ref.			SUZ-A09VR.TH Indoor Service Ref. SEZ-A09CR.W	
Function			Cooling	Heating
Power supply			Single phase 230V,50Hz	
Capacity	Capacity Rated frequency(Min.~Max.)	kW	2.4 (1.0-3.2)	3.0 (0.9-4.2)
	Dehumidification	ℓ /h	1.4	—
	Air flow	m³ /h	1900	
Electrical data	Starting current ✻1	A	4.30	
	Compressor motor current ✻1	A	3.08	3.78
	Fan motor current	A	0.24	
Coefficient of performance(C.O.P)			3.24	3.41
Compressor	Model		KNB073FBVH	
	Output	W	550	
	Winding resistance(at 20℃)	Ω	U-V 1.53 U-W 1.53 V-W 1.53	
Fan motor	Model		RA6V21-AA	
	Winding resistance(at 20℃)	Ω	WHT-BLK 347 BLK-RED 281	
Dimensions W×H×D		mm	800×550×285	
Weight		kg	33	
Special remarks	Sound level	dB	46	
	Fan speed	rpm	825	
	Fan speed regulator		1	
	Refrigerant filling capacity(R410A)	kg	0.80	
	Refrigerating oil (Model)	cc	320 (NEO22)	
	Thermistor RT61(at 0℃)	kΩ	32.6	
	Thermistor RT62(at 100℃)	kΩ	13.4	
	Thermistor RT64(at 50℃)	kΩ	17	
	Thermistor RT65(at 25℃)	kΩ	10	

NOTE : Test conditions are based on ISO 5151
Cooling : Indoor D.B. 27℃ W.B. 19℃
Outdoor D.B. 35℃ W.B. 24℃
Heating : Indoor D.B. 20℃ W.B. 15℃
Outdoor D.B. 7℃ W.B. 6℃
Refrigerant piping length (one way): 5m
✻1 Measured under rated operating frequency.

SEZ-A•AR.TH / SUZ-A•VR.TH

Outdoor Service Ref.			SUZ-A12VR.TH Indoor Service Ref. SEZ-A12AR.TH		SUZ-A18VR.TH Indoor Service Ref. SEZ-A18AR.TH		SUZ-A24VR.TH Indoor Service Ref. SEZ-A24AR.TH	
Function			Cooling	Heating	Cooling	Heating	Cooling	Heating
Power supply			Single phase 230V,50Hz		Single phase 230V,50Hz		Single phase 230V,50Hz	
Capacity	Capacity Rated frequency(Min.~Max.)	kW	3.4 (1.0-3.8)	3.9 (0.9-5.0)	5.0(1.1-5.6)	5.9(1.1-7.2)	5.5(1.1-6.3)	6.9(0.9-8.0)
	Dehumidification	ℓ /h	1.9	—	2.5	—	3.3	—
	Air flow(High/Low※)	m³ /h	1900		2,940/1,640※	2,940/2,210※	2,940/1,640※	2,940/2,210※
Electrical data	Starting current ✻1	A	5.00		8.50		10.40	
	Compressor motor current ✻1	A	4.55	4.45	7.43	7.93	8.36	9.76
	Fan motor current	A	0.24		0.30		0.30	
Coefficient of performance(C.O.P)			3.12	3.55	2.81	3.21	2.81	2.82
Compressor	Model		KNB092FAAH		SNB130FLDH		SNB130FLDH	
	Output	W	650		850		850	
	Winding resistance(at 20℃)	Ω	U-V 0.49 U-W 0.49 V-W 0.49		U-V 0.45 U-W 0.45 V-W 0.45		U-V 0.45 U-W 0.45 V-W 0.45	
Fan motor	Model		RA6V21-AA		PM8H60-UB		PM8H60-UB	
	Winding resistance(at 20℃)	Ω	WHT-BLK 347 BLK-RED 281		BLK-WHT 15.2 WHT-RED 15.2 RED-BLK 15.2		BLK-WHT 15.2 WHT-RED 15.2 RED-BLK 15.2	
Dimensions W×H×D		mm	800×550×285		840×850×330		840×850×330	
Weight		kg	34		53		53	
Special remarks	Sound level(High/Low※)	dB	47		53/51※	55/53※	53/51※	55/53※
	Fan speed(High/Low※)	rpm	825		800/480※	800/620※	800/480※	800/620※
	Fan speed regulator		1		2		2	
	Refrigerant filling capacity(R410A)	kg	0.90		1.80		1.80	
	Refrigerating oil (Model)	cc	320 (NEO22)		450 (NEO22)		450 (NEO22)	
	Thermistor RT61 (at 0℃)	kΩ	32.6		—		—	
	Thermistor RT62 (at 100℃)	kΩ	13.4		—		—	
	Thermistor RT64 (at 50℃)	kΩ	17		—		—	
	Thermistor RT65 (at 25℃)	kΩ	10		—		—	
	Thermistor RT61 (at 100℃)	kΩ	—		13.4		13.4	
	Thermistor RT62 (at 25℃)	kΩ	—		10.0		10.0	
	Thermistor RT65 (at 50℃)	kΩ	—		17.0		17.0	
	Thermistor RT68 (at 25℃)	kΩ	—		10.0		10.0	

NOTE : Test conditions are based on ISO 5151
Cooling : Indoor D.B. 27℃ W.B. 19℃
Outdoor D.B. 35℃ W.B. 24℃
Heating : Indoor D.B. 20℃ W.B. 15℃
Outdoor D.B. 7℃ W.B. 6℃
Refrigerant piping length (one way): 5m
✻1 Measured under rated operating frequency.

Specifications and rating conditions of main electric parts

SUZ-A09VR.TH
SUZ-A12VR.TH

Item \ Model	SUZ-A09VR.TH	SUZ-A12VR.TH
Current transformer (CT)	ETQ19Z53AY	
Current transformer (CT761, CT781)	ETQ19Z71AY	
Smoothing capacitor (C62A, C62B, C61B)	680μF 420V	
Outdoor fan capacitor (C65)	1.8μF 440V	
Diode module (DB61, DB65)	D25XB60	
Fuse (F61)	250V 20A	
Fuse (F71, F801)	250V 3.15A	
Power transistor module (IPM)	PS21244A	
Expansion valve coil (LEV)	CAD-MD12ME 12VDC	
Reactor (L61)	10A 23.0mH	
Current-detecting resistor (R61)	45mΩ 5W	50mΩ 5W (2 elements)
Current-detecting resistor (R831)	25mΩ 5W	
Current-limiting resistor (R64A, R64B)	5.1Ω 10W	
Solid state relay (SR61)	G3MB	
Terminal block (TB)	3P	
Relay (X63)	G5N-1a/G5NB-1a	
Relay (X64)	G4A-1A-PS	
R.V. coil (21S4)	LD30013	
Outdoor fan motor thermal fuse	Open 152℃	

SUZ-A18VR.TH
SUZ-A24VR.TH

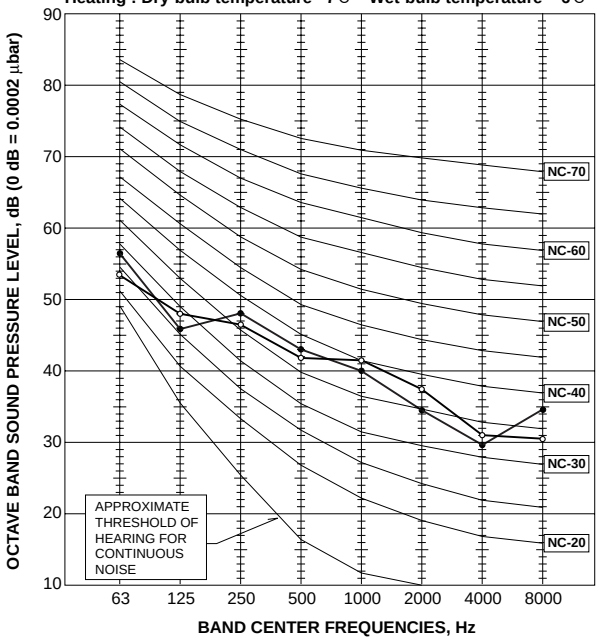
Item \ Service Ref.	SUZ-A18VR.TH	SUZ-A24VR.TH
Smoothing capacitor (CB1,2,3)	560μF 450V	
Current transformer (CT1,2)	ETQ19Z68AY	
Current transformer (CT61)	ETQ19Z53AY	
Fuse (F801, F912)	250V 3.15A	
Fuse (F911)	250V 1A	
Fet array (HC932)	SLA5075	
Power transistor module (IPM)	PS21244-A	
Reactor (L)	340μH 20A	
Expansion valve (LEV)	CAM-30YGME 12VDC	
Power factor controller (PFC)	PS51259-A	
Resistor (R64)	10Ω 20W	
Resistor (R934A,B)	1.1Ω 2W 2%	
Resistor (RS1~4)	0.04Ω 7W	
Solenoid coil relay (SSR61)	TLP3506	
Terminal block (TB1)	3P	
Terminal block (TB2)	2P	
Relay (X64)	G4A	
R.V. coil (21S4)	LD30013	

5 NOISE CRITERIA CURVES

SUZ-A09VR.TH

SPEED	FUNCTION	SPL(dB)	LINE
High	COOLING	46	●—●
	HEATING	46	○—○

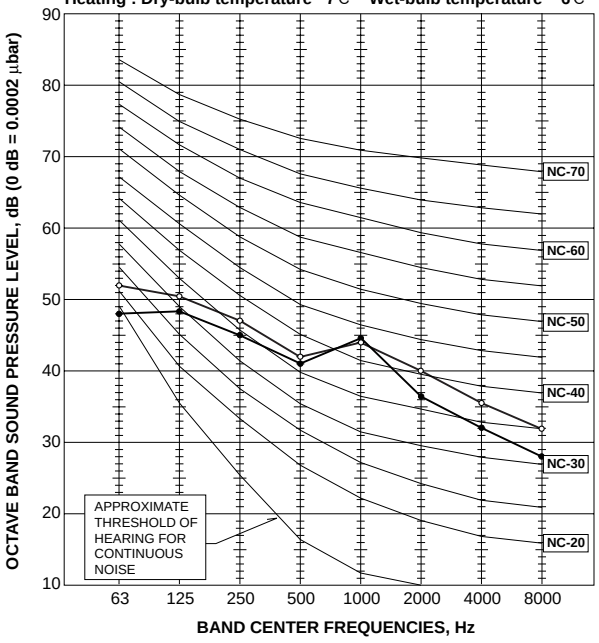
Test conditions,
Cooling : Dry-bulb temperature 35℃ Wet-bulb temperature (24℃)
Heating : Dry-bulb temperature 7℃ Wet-bulb temperature 6℃



SUZ-A12VR.TH

FAN SPEED	FUNCTION	SPL(dB)	LINE
High	COOLING	47	●—●
	HEATING	48	○—○

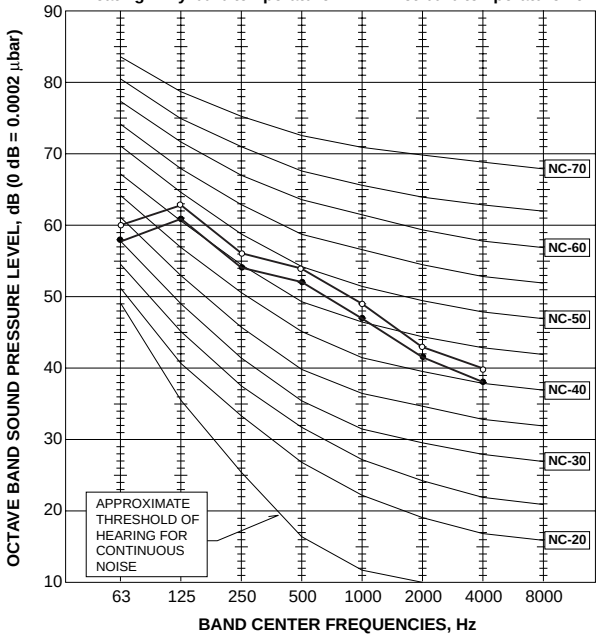
Test conditions,
Cooling : Dry-bulb temperature 35℃ Wet-bulb temperature (24℃)
Heating : Dry-bulb temperature 7℃ Wet-bulb temperature 6℃

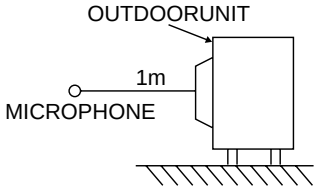


SUZ-A18VR.TH
SUZ-A24VR.TH

SPEED	FUNCTION	SPL(dB(A))	LINE
High	COOLING	53	●—●
	HEATING	55	○—○

Test conditions,
Cooling : Dry-bulb temperature 35℃ Wet-bulb temperature (24℃)
Heating : Dry-bulb temperature 7℃ Wet-bulb temperature 6℃



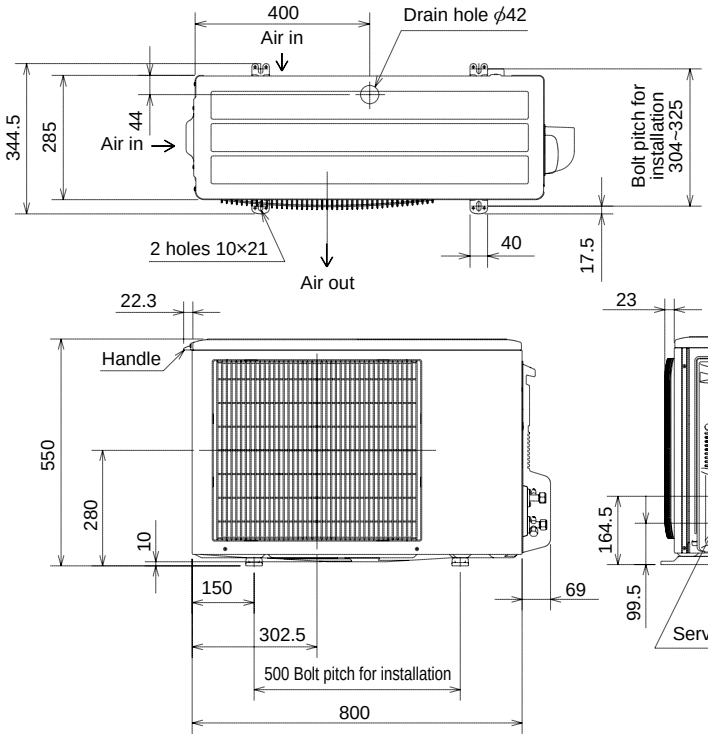


6 OUTLINES AND DIMENSIONS

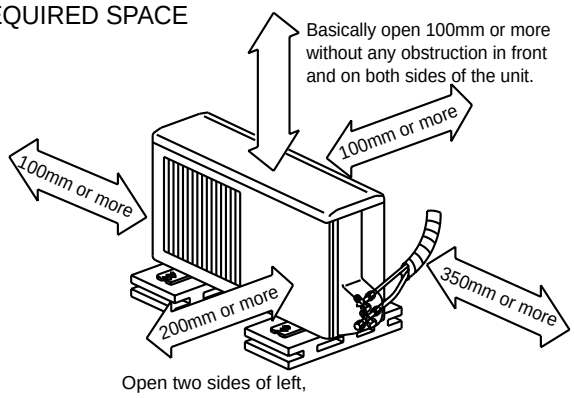
SUZ-A09VR.TH
SUZ-A12VR.TH

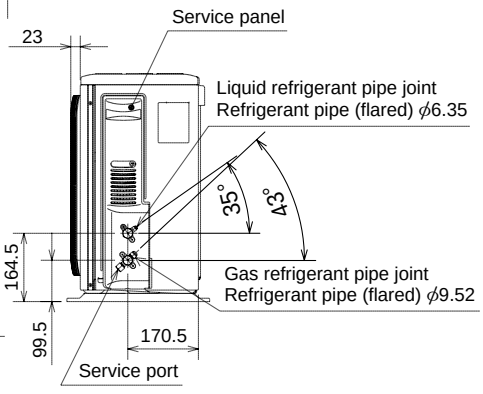
Unit: mm

OUTDOOR UNIT



REQUIRED SPACE

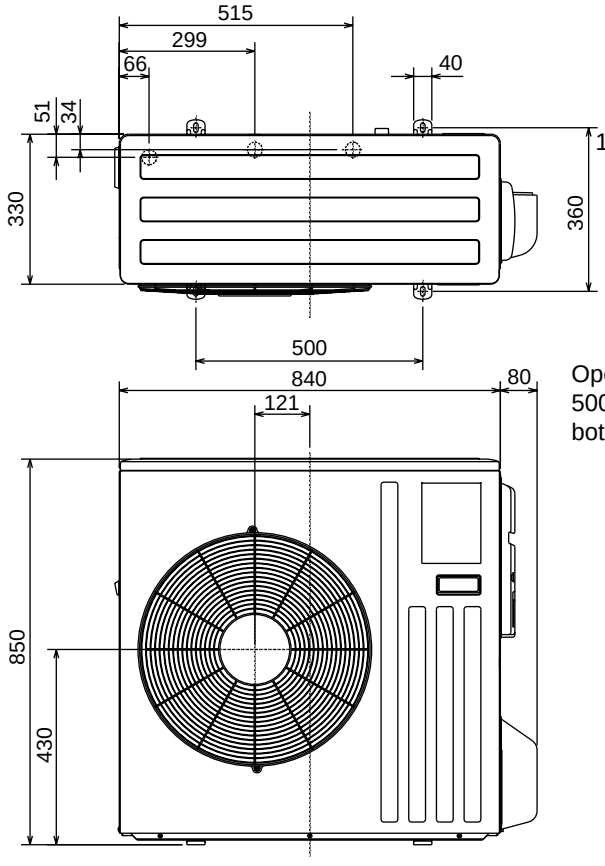




SUZ-A18VR.TH
SUZ-A24VR.TH

Unit: mm

OUTDOOR UNIT



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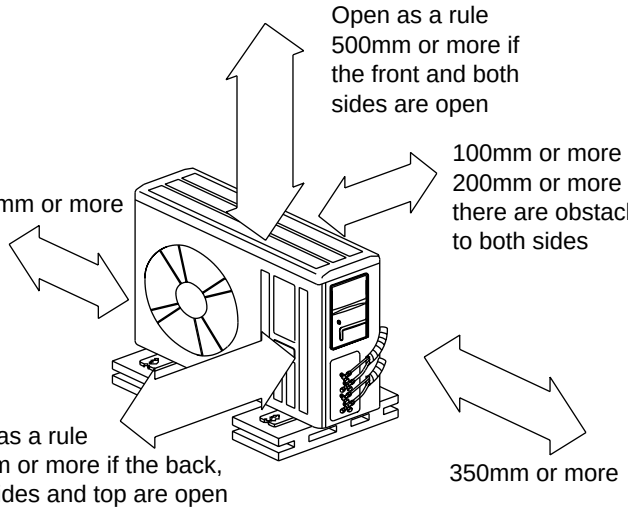
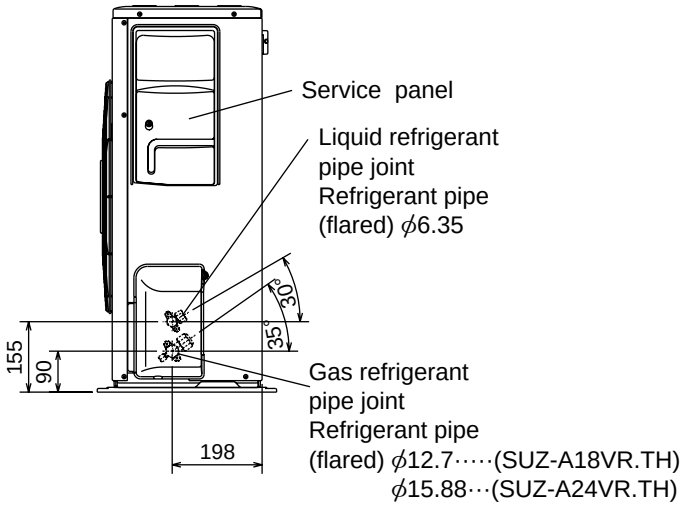
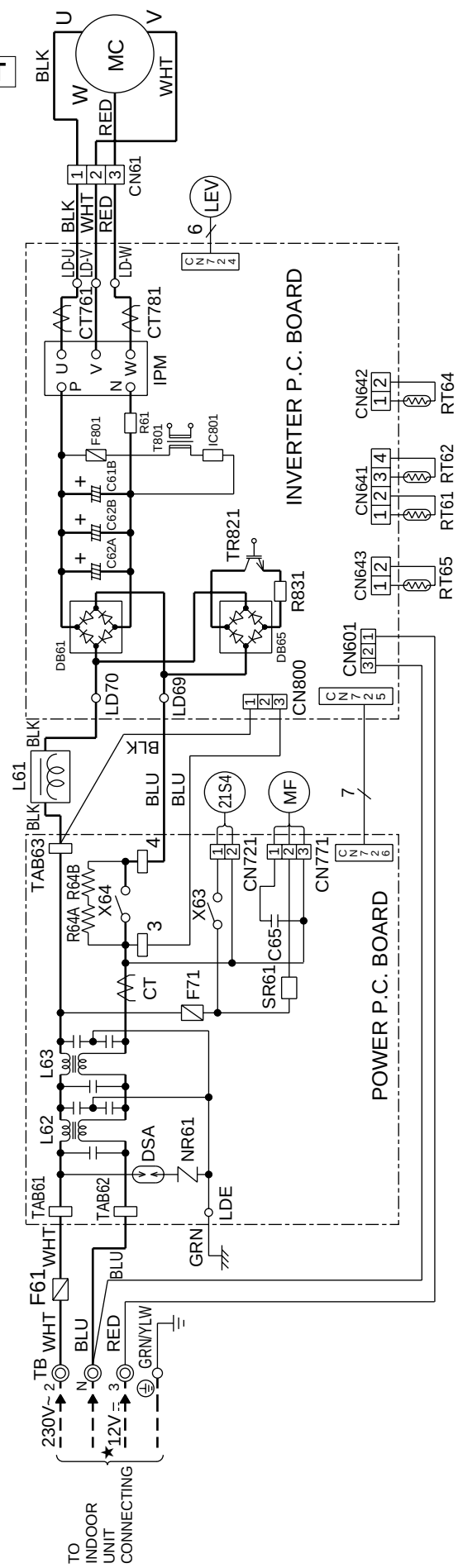




7 WIRING DIAGRAM

SUZ-A09VR.TH
SUZ-A12VR.TH

OUTDOOR UNIT



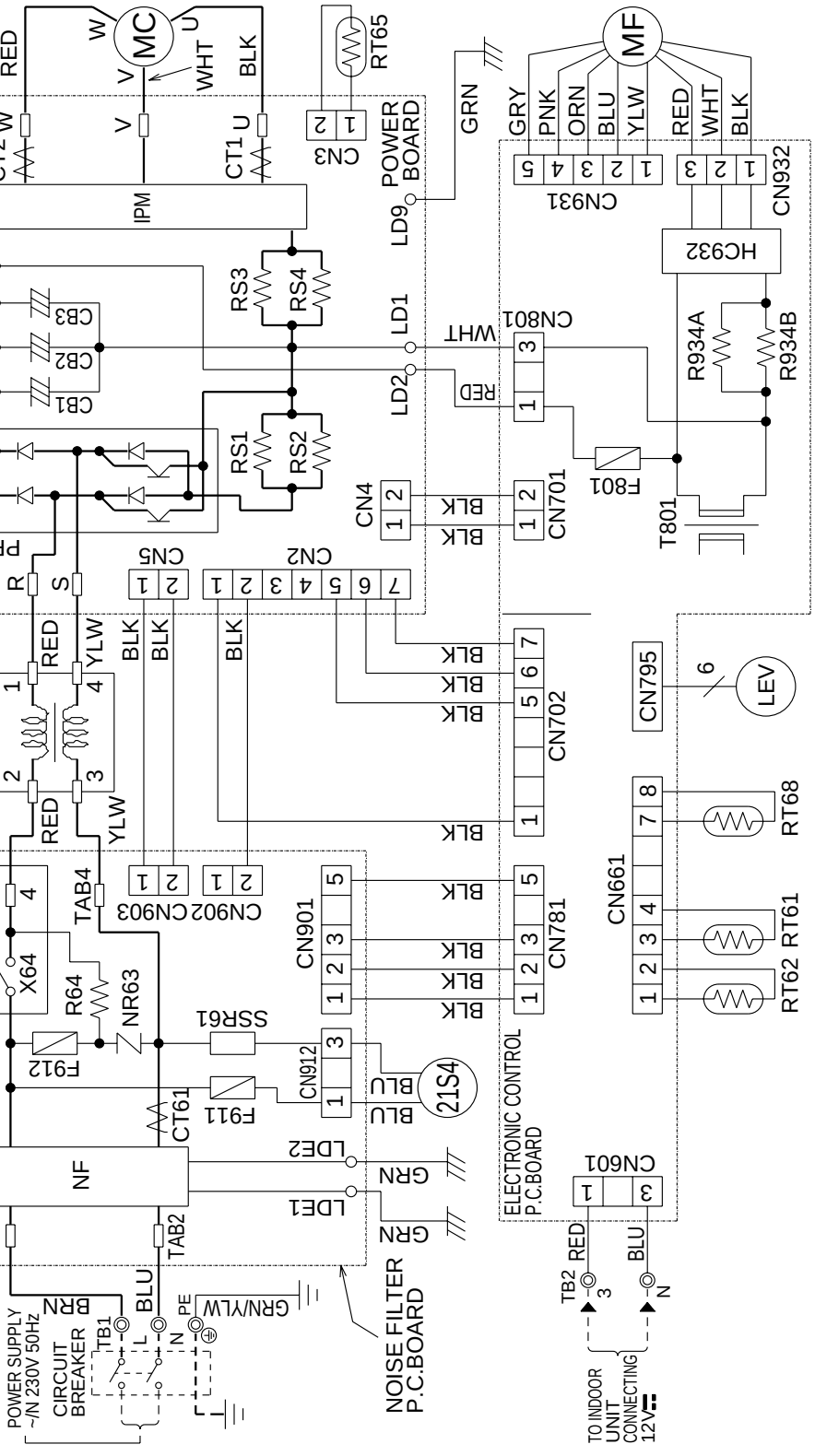
SYMBOL	NAME	SYMBOL	NAME	SYMBOL	NAME
CT,CT761,CT781	CURRENT TRANSFORMER	LEV	EXPANSION VALVE COIL	RT65	AMBIENT TEMPERATURE THERMISTOR
C62A,C62B,C61B	SMOOTHING CAPACITOR	L61	REACTOR	R61,R831	CURRENT-DETECTING RESISTOR
C65	FAN MOTOR CAPACITOR	L62,L63	CMC COIL	R64A,R64B	CURRENT-LIMITING RESISTOR
DB61,DB65	DIODE MODULE	MC	COMPRESSOR	SR61	SOLID STATE RELAY
DSA	SURGE ABSORBER	MF	FAN MOTOR	TB	TERMINAL BLOCK
F61	FUSE (20A)	NR61	VARISTOR	TR821	SWITCHING POWER TRANSISTOR
F71,F801	FUSE (3.15A)	RT61	DEFROST THERMISTOR	T801	TRANSFORMER
IC801	INTELLIGENT POWER DEVICE	RT62	DISCHARGE TEMPERATURE THERMISTOR	X63,X64	RELAY
IPM	POWER TRANSISTOR MODULE	RT64	FIN TEMPERATURE THERMISTOR	21S4	REVERSING VALVE COIL

NOTE: 1. About the indoor side electric wiring refer to the indoor unit electric wiring diagram for servicing.
2. Use copper conductors only. (For field wiring)
3. Symbols below indicate. ◎: Terminal block, □□□: Connector

★ The 12V DC is NOT always against the ground. Terminal 3 has 12V DC against terminal N. However, between Terminal 3 and N, these terminals are NOT electrically insulated by the transformer or other device.

SUZ-A18VR.TH
SUZ-A24VR.TH

OUTDOOR UNIT



SYMBOL	NAME	SYMBOL	NAME	SYMBOL	NAME
CB1~3	SMOOTHING CAPACITOR	MC	COMPRESSOR	RT65	FIN TEMP.THERMISTOR
CT1,2	CURRENT TRANSFORMER	MF	FAN MOTOR(INNER FUSE)	RT68	OUTDOOR HEAT EXCHANGER TEMPERATURE THERMISTOR
CT61	CURRENT TRANSFORMER	NF	NOISE FILTER		
F801	FUSE(250V 3.15A)	NR63	VARISTOR	SSR61	SOLENOID COIL RELAY
F911	FUSE(250V 1A)	PFC	POWER FACTOR CONTROLLER	T801	TRANSFORMER
F912	FUSE(250V 3.15A)	R64	RESISTOR	TB1	TERMINAL BLOCK
HC932	FET ARRAY	R934A,B	RESISTOR	TB2	TERMINAL BLOCK
IPM	POWER TRANSISTOR MODULE	RS1~4	RESISTOR	X64	RELAY
L	REACTOR	RT61	DISCHARGE TEMP.THERMISTOR	21S4	REVERSING VALVE SOLENOID COIL
LEV	EXPANSION VALVE	RT62	DEFROST TEMP.THERMISTOR		

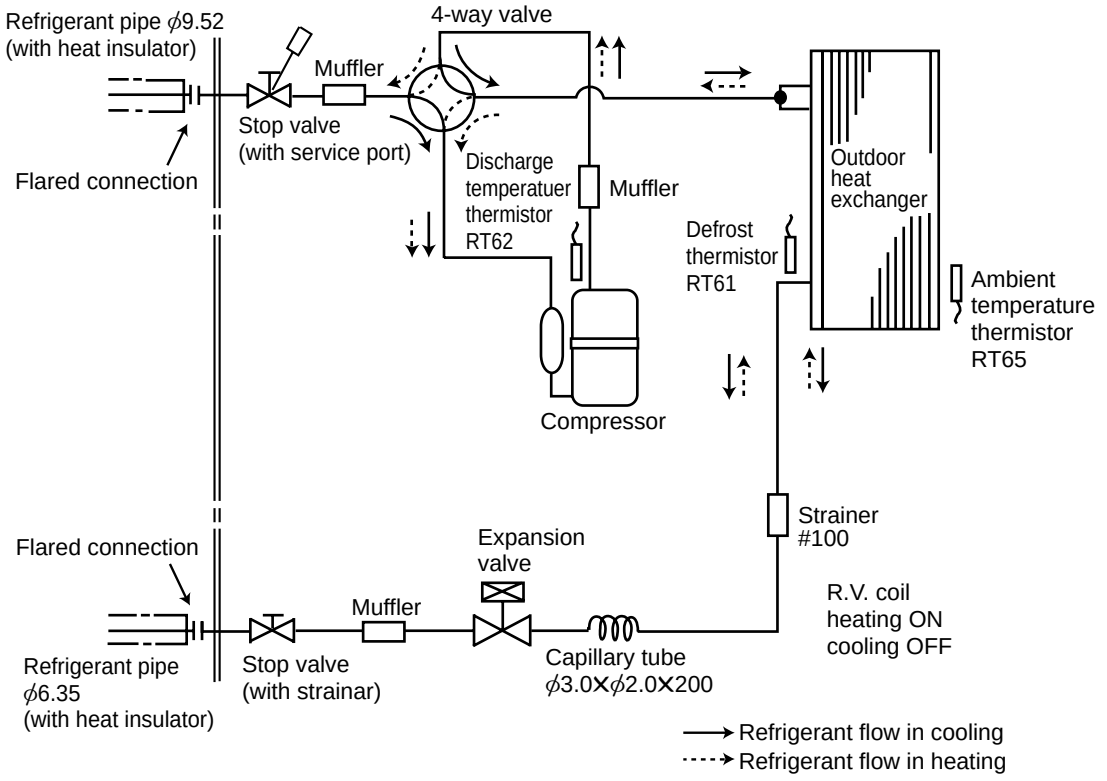
NOTES 1. About the indoor side electric wiring refer to the indoor unit electric wiring diagram for servicing.
2. Use copper conductors only(for field wiring).
3. Symbols below indicate.
◎:Terminal block □□:Connector

8 REFRIGERANT SYSTEM DIAGRAM

SUZ-A09VR.TH
SUZ-A12VR.TH

Unit:mm

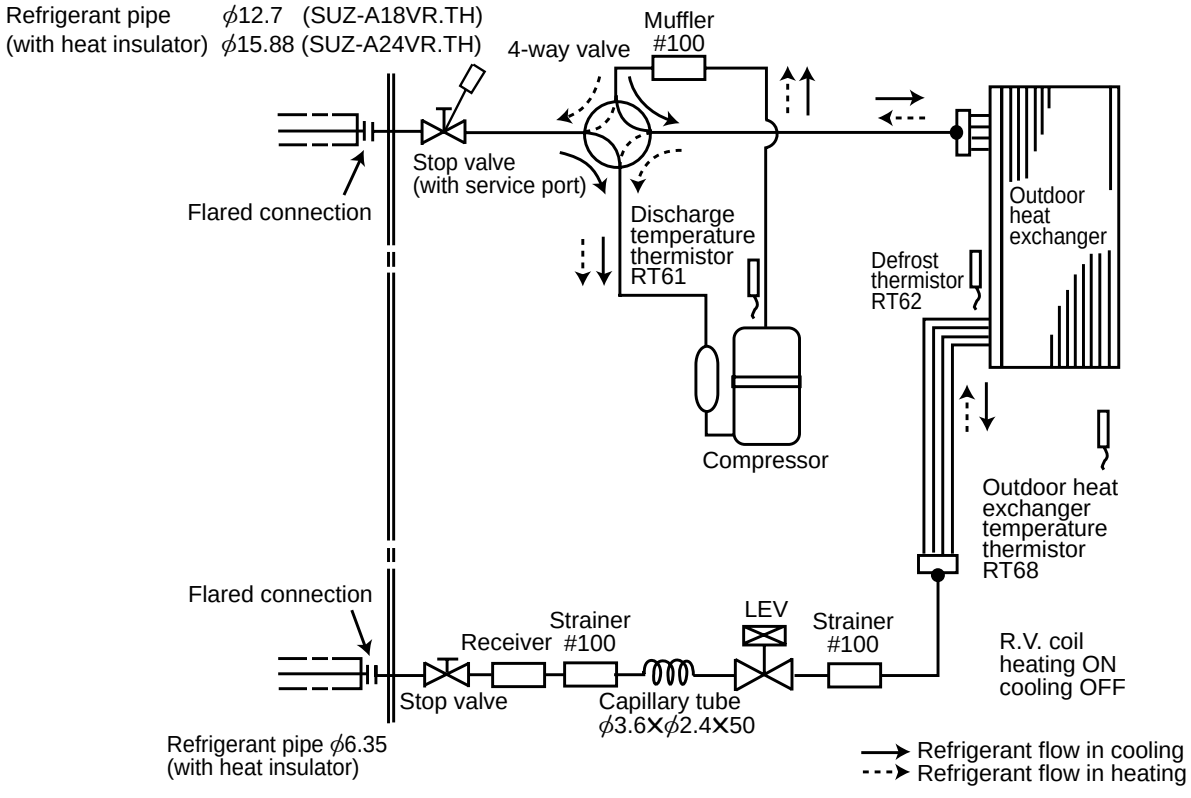
OUTDOOR UNIT



SUZ-A18VR.TH
SUZ-A24VR.TH

Unit:mm

OUTDOOR UNIT

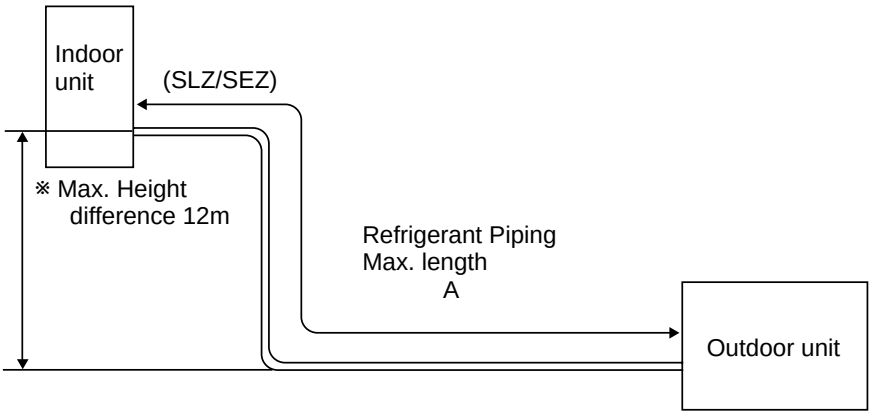


SUZ-A09VR.TH
SUZ-A12VR.TH

MAX. REFRIGERANT PIPING LENGTH

Models	Refrigerant piping Max. length : m A	Piping size O.D : mm	
		Gas	Liquid
SUZ-A09VR.TH **SUZ-A12VR.TH**	20	9.52	6.35

MAX. HEIGHT DIFFERENCE



※ Height difference should be within 12m regardless of which unit, indoor or outdoor position is high.

ADDITIONAL REFRIGERANT CHARGE (R410A:g)

Models	Outdoor unit precharged	Refrigerant piping length (one way)											
		5m	6m	7m	8m	9m	10m	11m	12m	13m	14m	15m	20m
SUZ-A09VR.TH	800	0	0	0	90	120	150	180	210	240	270	300	450
SUZ-A12VR.TH	900	0	0	0	90	120	150	180	210	240	270	300	450

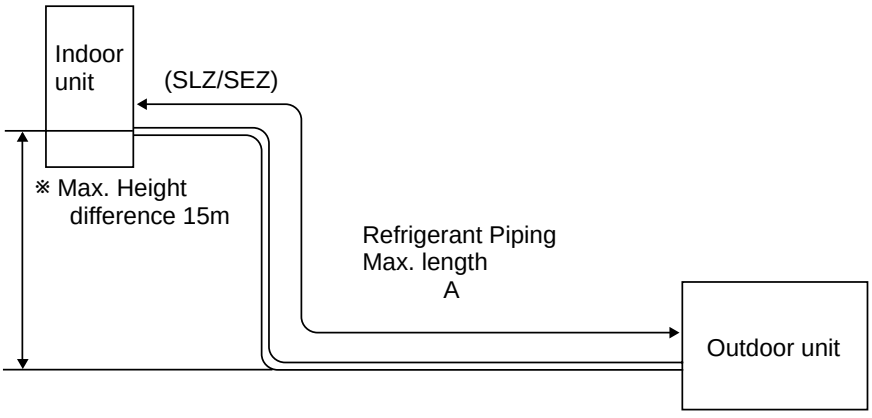
Calculation : Xg=30g/m×(Refrigerant piping length(m) - 5)

SUZ-A18VR.TH
SUZ-A24VR.TH

MAX. REFRIGERANT PIPING LENGTH

Model	Refrigerant piping Max. length : m A	Piping size O.D : mm		Length of connecting pipe : m	
		Gas	Liquid	Indoor unit	Outdoor unit
SUZ-A18VR.TH	30	12.7	6.35	Gas 0.43 Liquid 0.5	Gas 0 Liquid 0
SUZ-A24VR.TH		15.88			

MAX. HEIGHT DIFFERENCE



※ Height difference should be within 15m regardless of which unit, indoor or outdoor position is high.

ADDITIONAL REFRIGERANT CHARGE(R410A : g)

Model	Outdoor unit precharged	Refrigerant piping length (one way)					
		7m	10m	15m	20m	25m	30m
SUZ-A18VR.TH	1,800	0	60	160	260	360	460
SUZ-A24VR.TH	1,800	0	60	160	260	360	460

Calculation : Xg=20g/m × (Refrigerant piping length (m)–7)

9 PERFORMANCE CURVES

- **SLZ-A09AR.TH / SUZ-A09VR.TH**
- **SLZ-A12AR.TH / SUZ-A12VR.TH**
- **SLZ-A18AR.TH / SUZ-A18VR.TH**

The standard data contained in these specifications apply only to the operation of the air conditioner under normal condition. Operating conditions vary according to the areas where these units are installed. The following information has been provided to clarify the operating characteristics of the air conditioner under the conditions indicated by the performance curve.

(1) GUARANTEED VOLTAGE

Rated voltage : ±10% (207~253V), 50Hz

(2) AIR FLOW

Air flow should be set at MAX.

(3) MAIN READINGS

COOLING
(1) Indoor intake air wet-bulb temperature : W.B. ˚C
(2) Indoor outlet air wet-bulb temperature : W.B. ˚C
(3) Outdoor intake air dry-bulb temperature : D.B. ˚C
(4) Total input : W

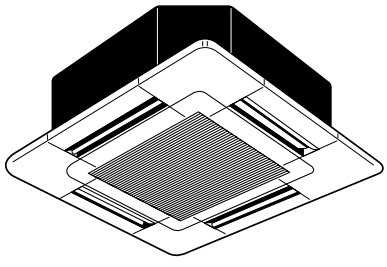
HEATING
(1) Indoor intake air dry-bulb temperature : D.B. ˚C
(2) Indoor outlet air dry-bulb temperature : D.B. ˚C
(3) Outdoor intake air wet-bulb temperature : W.B. ˚C
(4) Total input : W

Indoor air wet/dry-bulb temperature difference on the side of the chart on page shows the difference between the indoor intake air wet/dry-bulb temperature and the indoor outlet air wet/dry-bulb temperature for your reference at service.

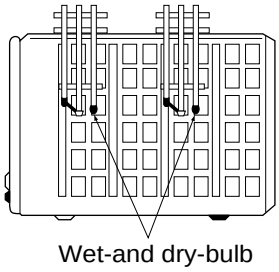
How to measure the indoor air wet-bulb/dry-bulb temperature difference

1. Attach at least 2 sets of wet-and-dry-bulb thermometers to the indoor air inlet as shown in the figure, and at least 2 sets of wet-and-dry-bulb thermometers to the indoor air outlet. The thermometers must be attached to the position where air speed is high.
2. Attach at least 2 sets of wet-and-dry-bulb thermometers to the outdoor air inlet. Cover the thermometers to prevent direct rays of the sun.
3. Check that the air filter is cleaned.
4. Open windows and doors of the room.
5. Press the EMERGENCY OPERATION switch once to start the COOL(HEAT) MODE.
6. When system stabilizes after more than 15 minutes, measure temperature and take an average temperature.
7. 10 minutes later, measure temperature again and check that the temperature does not change.

INDOOR UNIT

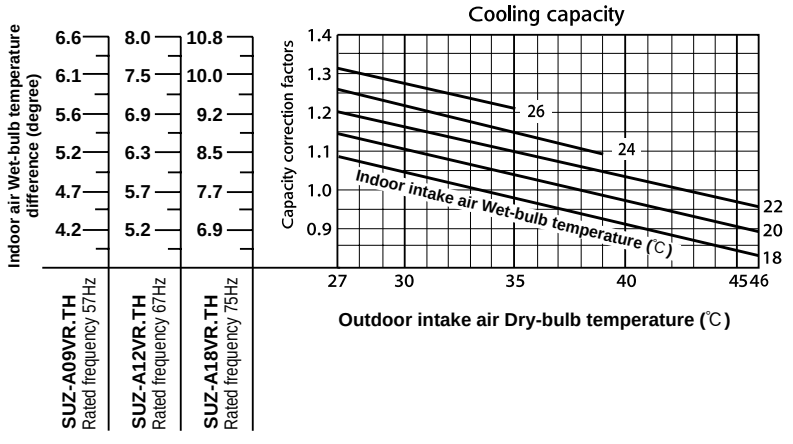


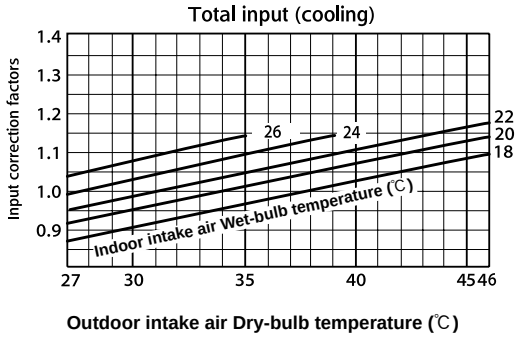
OUTDOOR UNIT

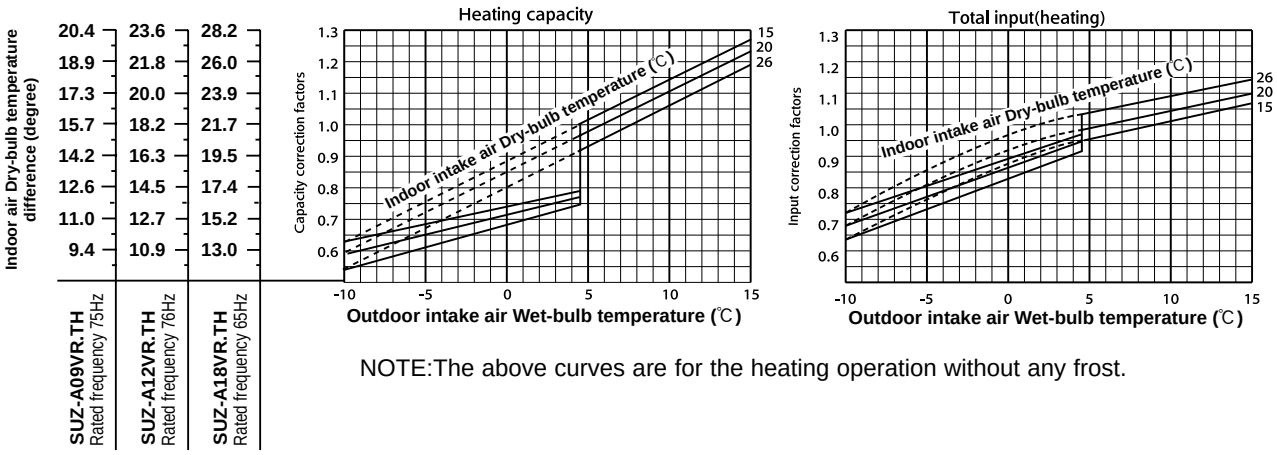


Wet-and dry-bulb thermometers

BACK VIEW

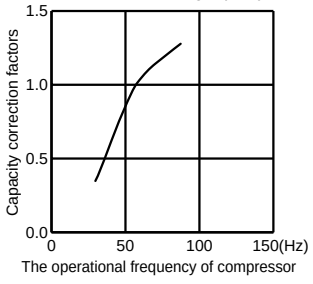




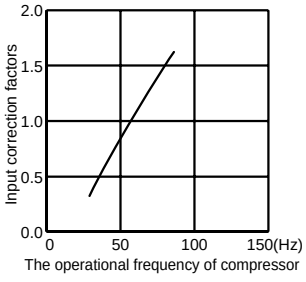


NOTE:The above curves are for the heating operation without any frost.

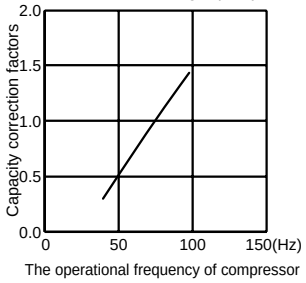
SUZ-A09VR.TH



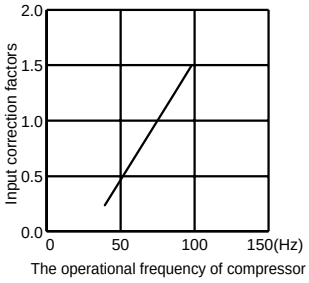
SUZ-A09VR.TH



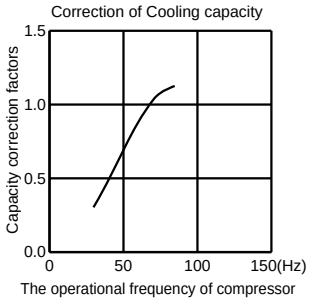
SUZ-A09VR.TH



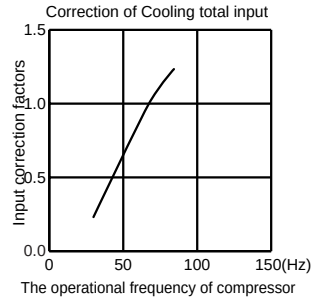
SUZ-A09VR.TH



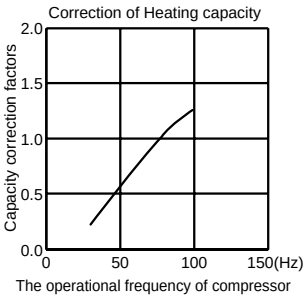
SUZ-A12VR.TH



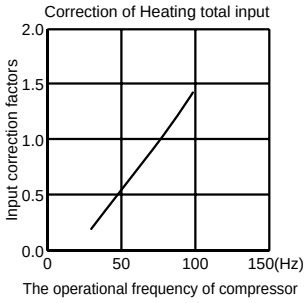
SUZ-A12VR.TH



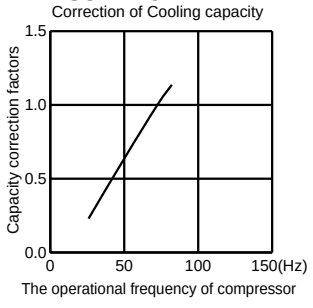
SUZ-A12VR.TH



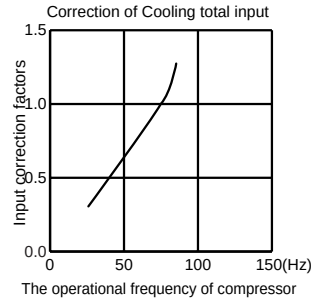
SUZ-A12VR.TH



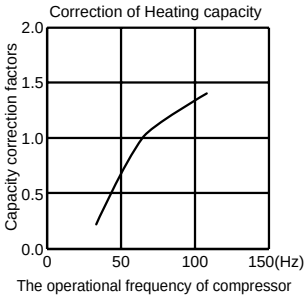
SUZ-A18VR.TH



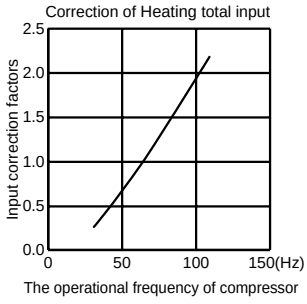
SUZ-A18VR.TH



SUZ-A18VR.TH



SUZ-A18VR.TH



OUTDOOR LOW PRESSURE AND OUTDOOR UNIT CURRENT

<How to operate fixed-frequency operation (Test run operation)>

1. Press the EMERGENCY OPERATION switch to COOL or HEAT mode.
2. Test run operation starts and continue to operate for 30 minutes.
3. Compressor starts at rated frequency in COOL mode or 58Hz in HEAT mode.
4. Indoor fan operates at High speed.
5. After 30 minutes, test run operation finishes and EMERGENCY OPERATION starts.
6. To cancel test run operation (EMERGENCY OPERATION), press the EMERGENCY OPERATION switch or any button on remote controller.

NOTE : The unit of pressure has been changed to MPa on the international system of units (SI unit system).

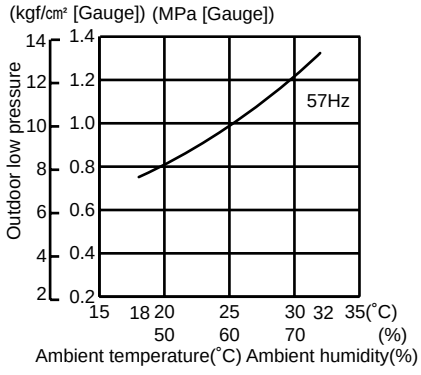
The conversion factor is: **1(MPa [Gauge]) =10.2(kgf/㎠ [Gauge])**

OUTDOOR LOW PRESSURE AND OUTDOOR UNIT CURRENT
COOL operation

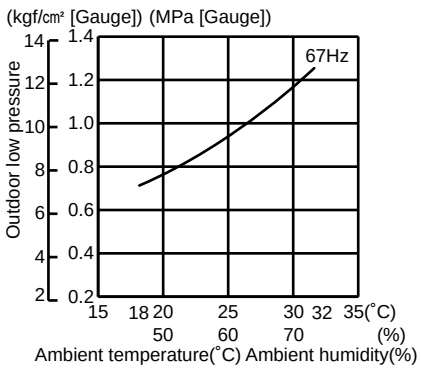
① Both indoor and outdoor unit are under the same temperature/humidity condition.
② Air flow : High speed
③ Operational frequency : 57Hz(SUZ-A09VR.TH)
67Hz(SUZ-A12VR.TH)
75Hz(SUZ-A18VR.TH)

Dry-bulb temperature	Relative humidity(%)
20	50
25	60
30	70

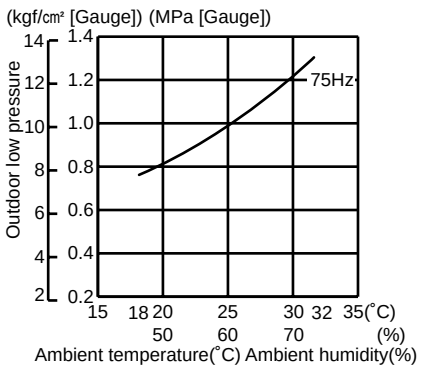
SUZ-A09VR.TH



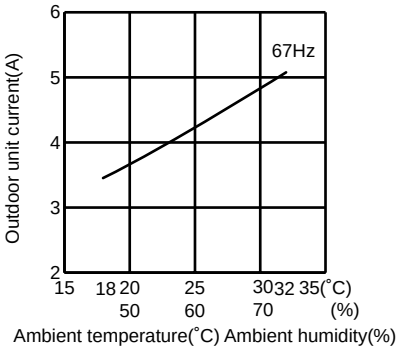
SUZ-A12VR.TH



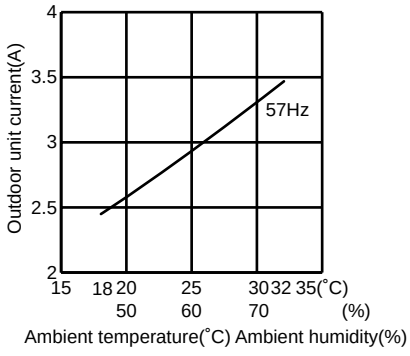
SUZ-A18VR.TH



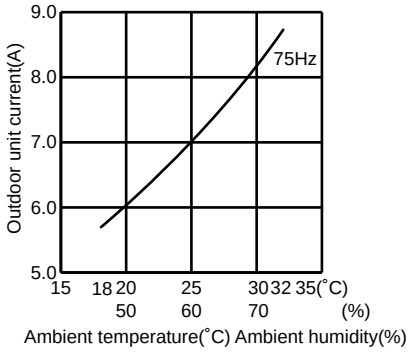
SUZ-A09VR.TH



SUZ-A12VR.TH



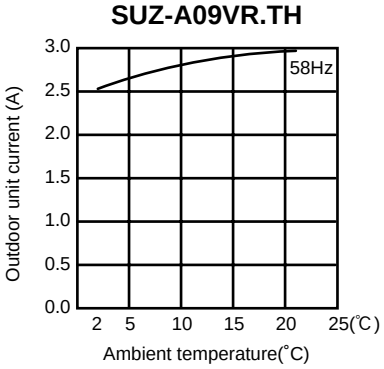
SUZ-A18VR.TH



HEAT operation

Condition indoor: Dry bulb temperature 20.0°C
Wet bulb temperature 14.5°C
Condition outdoor: Dry bulb temperature 2,7,15,20.0°C
Wet bulb temperature 1,6,12,14.5°C

SUZ-A09VR.TH



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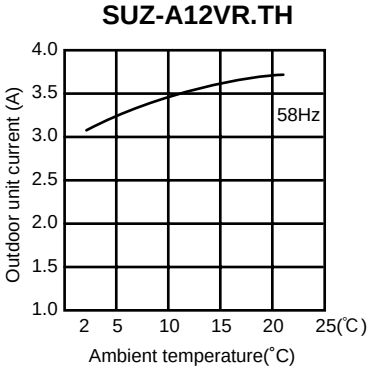
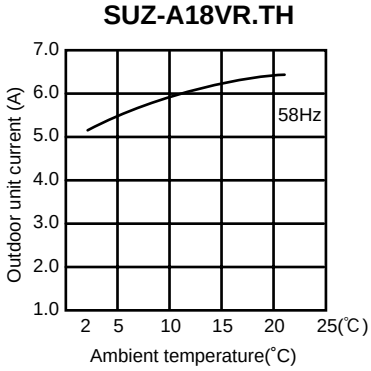


SUZ-A18VR.TH



● **SEZ-A09CR.W / SUZ-A09VR.TH**
● **SEZ-A12AR.TH / SUZ-A12VR.TH**
● **SEZ-A18AR.TH / SUZ-A18VR.TH**
● **SEZ-A24AR.TH / SUZ-A24VR.TH**

The standard data contained in these specifications apply only to the operation of the air conditioner under normal condition. Operating conditions vary according to the areas where these units are installed. The following information has been provided to clarify the operating characteristics of the air conditioner under the conditions indicated by the performance curve.

(1) GUARANTEED VOLTAGE

Rated voltage : ±10% (207~253V), 50Hz

(2) AIR FLOW

Air flow should be set at MAX.

(3) MAIN READINGS

COOLING
(1) Indoor intake air wet-bulb temperature : W.B.˚C
(2) Indoor outlet air wet-bulb temperature : W.B.˚C
(3) Outdoor intake air dry-bulb temperature : D.B.˚C
(4) Total input : W

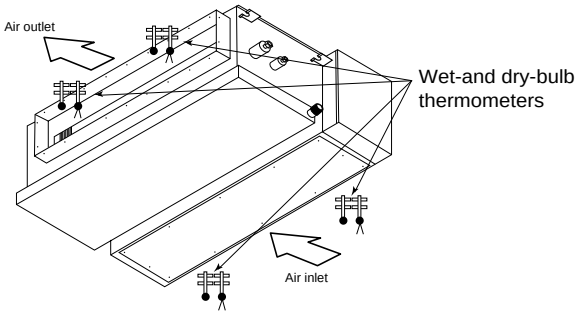
HEATING
(1) Indoor intake air dry-bulb temperature : D.B.˚C
(2) Indoor outlet air dry-bulb temperature : D.B.˚C
(3) Outdoor intake air wet-bulb temperature : W.B.˚C
(4) Total input : W

Indoor air wet/dry-bulb temperature difference on the side of the chart on page shows the difference between the indoor intake air wet/dry-bulb temperature and the indoor outlet air wet/dry-bulb temperature for your reference at service.

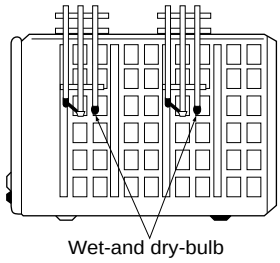
How to measure the indoor air wet-bulb/dry-bulb temperature difference

1. Attach at least 2 sets of wet-and-dry-bulb thermometers to the indoor air inlet as shown in the figure, and at least 2 sets of wet-and-dry-bulb thermometers to the indoor air outlet. The thermometers must be attached to the position where air speed is high.
2. Attach at least 2 sets of wet-and-dry-bulb thermometers to the outdoor air inlet.
   Cover the thermometers to prevent direct rays of the sun.
3. Check that the air filter is cleaned.
4. Open windows and doors of the room.
5. Press the TEST button twice to start the COOL(HEAT) MODE.
6. When system stabilizes after more than 15 minutes, measure temperature and take an average temperature.
7. 10 minutes later, measure temperature again and check that the temperature does not change.

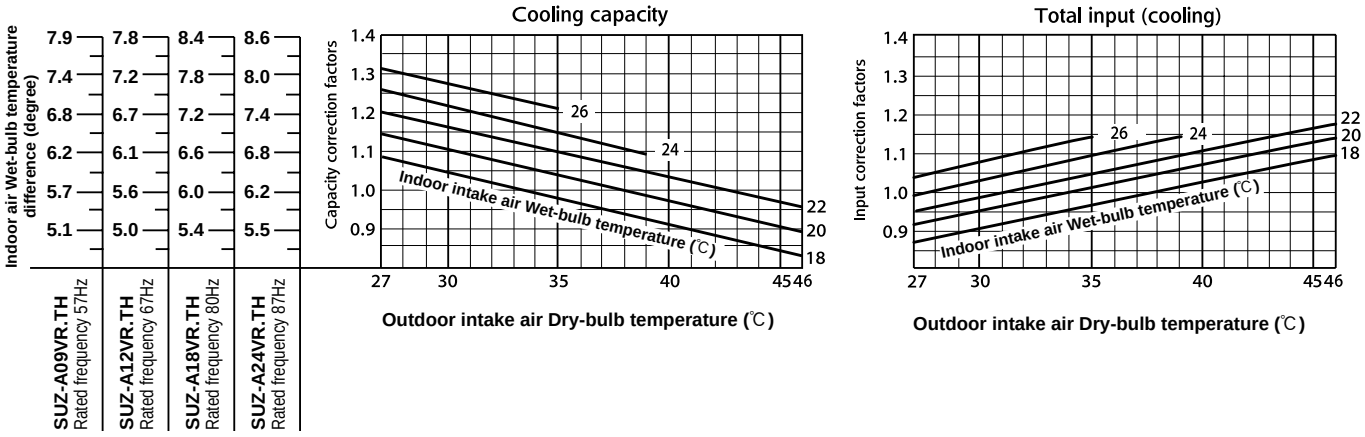
INDOOR UNIT

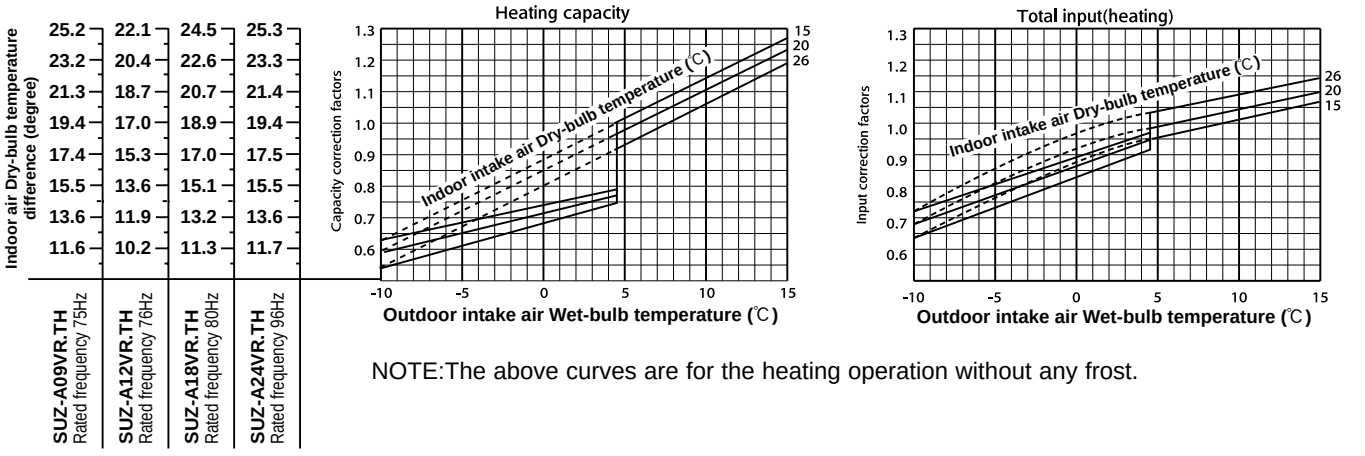


OUTDOOR UNIT



※ The picture is SEZ-A12,18, 24AR.
SEZ-A09CR is similar to SEZ-A12, 18, 24AR.

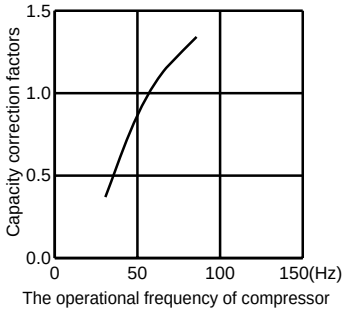




NOTE:The above curves are for the heating operation without any frost.

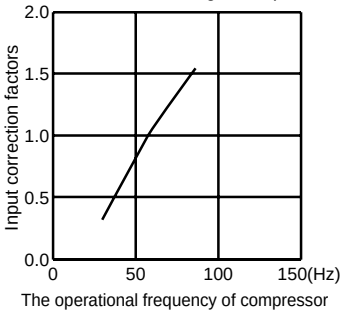
SUZ-A09VR.TH

Correction of Cooling capacity



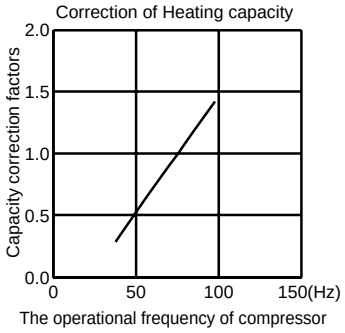
SUZ-A09VR.TH

Correction of Cooling total input



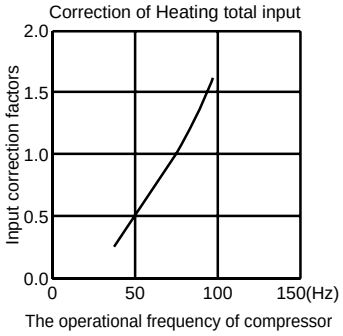
SUZ-A09VR.TH

Correction of Heating capacity



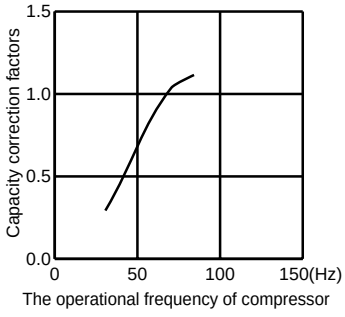
SUZ-A09VR.TH

Correction of Heating total input



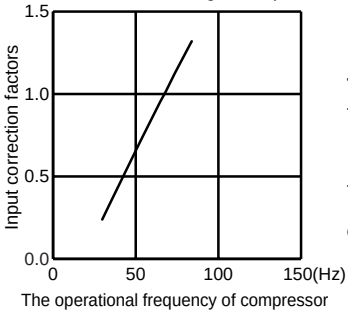
SUZ-A12VR.TH

Correction of Cooling capacity



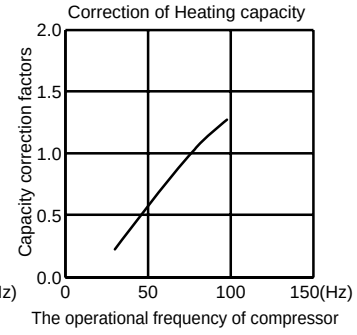
SUZ-A12VR.TH

Correction of Cooling total input



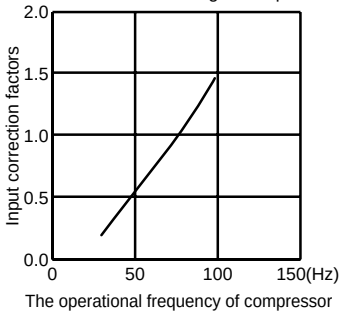
SUZ-A12VR.TH

Correction of Heating capacity



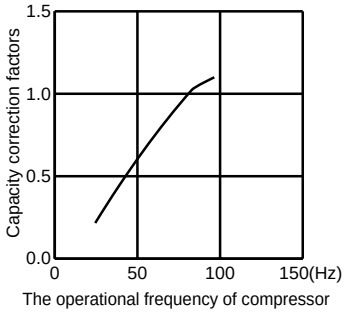
SUZ-A12VR.TH

Correction of Heating total input



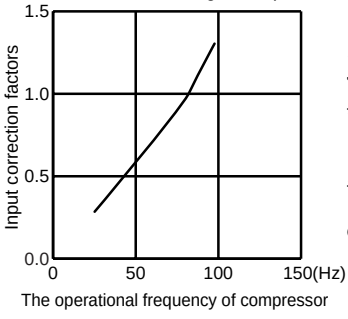
SUZ-A18VR.TH

Correction of Cooling capacity



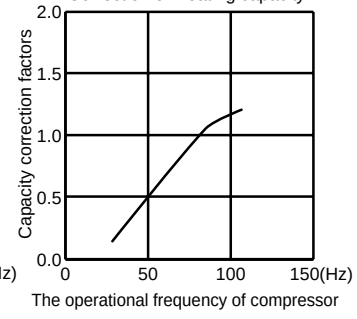
SUZ-A18VR.TH

Correction of Cooling total input



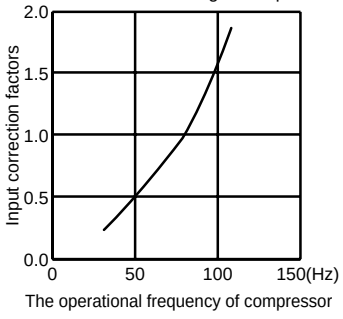
SUZ-A18VR.TH

Correction of Heating capacity



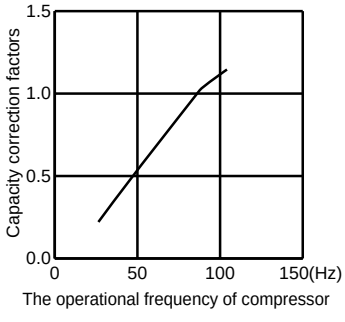
SUZ-A18VR.TH

Correction of Heating total input



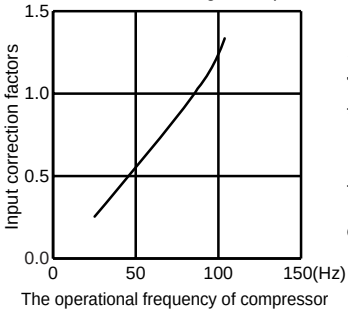
SUZ-A24VR.TH

Correction of Cooling capacity



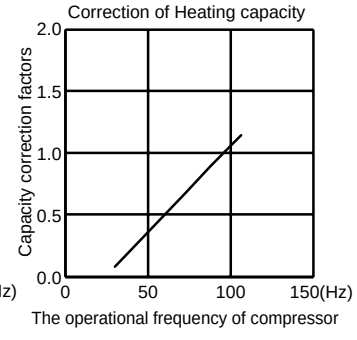
SUZ-A24VR.TH

Correction of Cooling total input



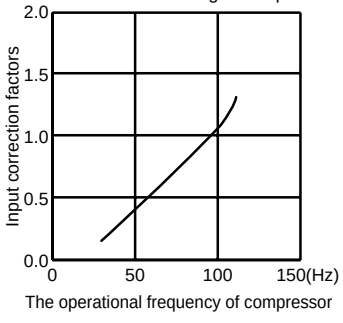
SUZ-A24VR.TH

Correction of Heating capacity



SUZ-A24VR.TH

Correction of Heating total input



OUTDOOR LOW PRESSURE AND OUTDOOR UNIT CURRENT

<How to operate fixed-frequency operation (Test run operation)>

1. Press the TEST button to COOL or HEAT mode.
2. Test run operation starts and continue to operate for 30 minutes.
3. Compressor starts at rated frequency in COOL mode or 58Hz in HEAT mode.
4. Indoor fan operates at High speed.
5. After 30 minutes, test run operation finishes and EMERGENCY OPERATION starts.
6. To cancel test run operation (EMERGENCY OPERATION), press the ON/OFF button on remote controller.

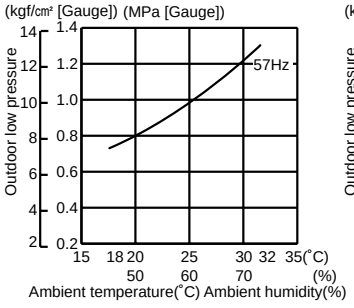
NOTE : The unit of pressure has been changed to MPa on the international system of units (SI unit system).
The conversion factor is: **1(MPa [Gauge]) =10.2(kgf/㎠ [Gauge])**

OUTDOOR LOW PRESSURE AND OUTDOOR UNIT CURRENT
COOL operation

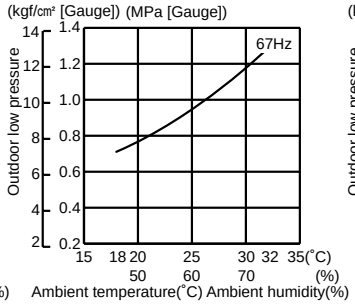
① Both indoor and outdoor unit are under the same temperature/humidity condition.
② Air flow : High speed
③ Operational frequency : 57Hz(SUZ-A09VR.TH)
67Hz(SUZ-A12VR.TH)
80Hz(SUZ-A18VR.TH)
87Hz(SUZ-A24VR.TH)

Dry-bulb temperature	Relative humidity(%)
20	50
25	60
30	70

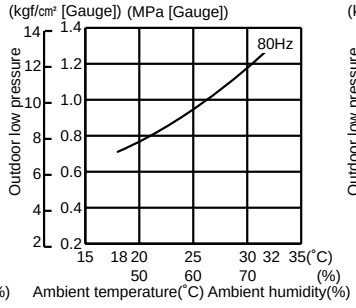
SUZ-A09VR.TH



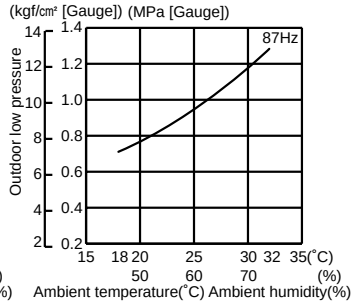
SUZ-A12VR.TH



SUZ-A18VR.TH



SUZ-A24VR.TH



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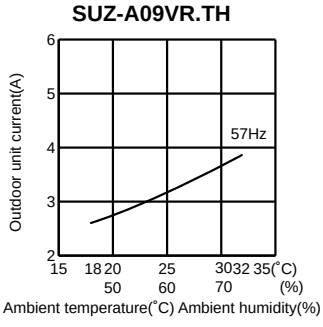
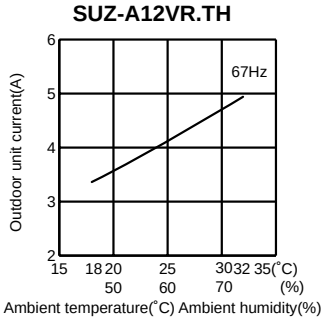
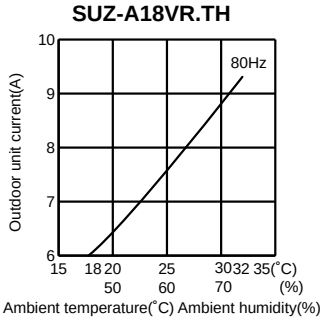


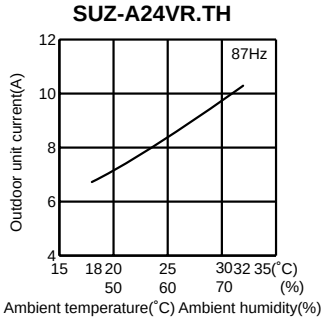
SUZ-A12VR.TH



SUZ-A18VR.TH



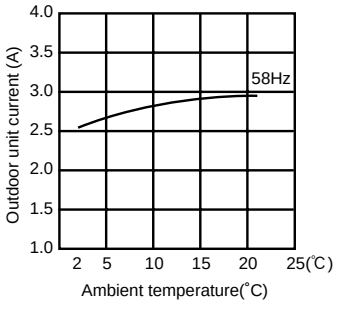
SUZ-A24VR.TH



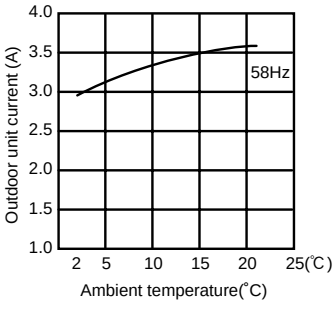
HEAT operation

Condition indoor: Dry bulb temperature 20.0°C
Wet bulb temperature 14.5°C
Condition outdoor: Dry bulb temperature 2,7,15,20.0°C
Wet bulb temperature 1,6,12,14.5°C

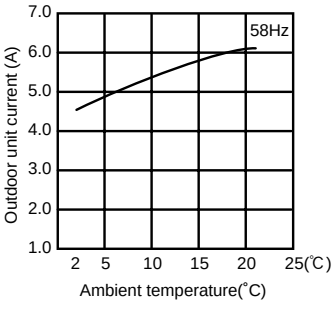
SUZ-A09VR.TH



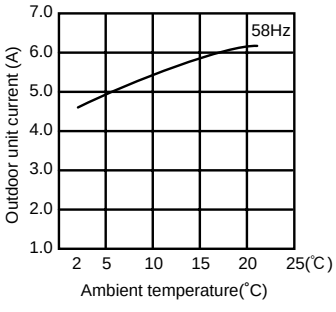
SUZ-A12VR.TH



SUZ-A18VR.TH



SUZ-A24VR.TH



PERFORMANCE DATA
COOLING operation Rated frequency 57Hz
SLZ-A09AR.TH / SUZ-A09VR.TH
CAPACITY : 2.5(kW) INPUT : 760(W) SHF : 0.85

		OUTDOOR D.B.(℃)															
INDOOR	INDOOR	21				25				27				30			
D.B.(℃)	W.B.(℃)	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT
21	18	2.94	1.97	0.67	608	2.81	1.88	0.67	638	2.70	1.81	0.67	669	2.60	1.74	0.67	699
21	20	3.06	1.68	0.55	638	2.94	1.62	0.55	676	2.85	1.57	0.55	692	2.75	1.51	0.55	722
22	18	2.94	2.09	0.71	608	2.81	2.00	0.71	638	2.70	1.92	0.71	669	2.60	1.85	0.71	699
22	20	3.06	1.81	0.59	638	2.94	1.73	0.59	676	2.85	1.68	0.59	692	2.75	1.62	0.59	722
22	22	3.19	1.50	0.47	661	3.08	1.45	0.47	703	3.00	1.41	0.47	722	2.88	1.35	0.47	752
23	18	2.94	2.20	0.75	608	2.81	2.11	0.75	638	2.70	2.03	0.75	669	2.60	1.95	0.75	699
23	20	3.06	1.93	0.63	638	2.94	1.85	0.63	676	2.85	1.80	0.63	692	2.75	1.73	0.63	722
23	22	3.19	1.63	0.51	661	3.08	1.57	0.51	703	3.00	1.53	0.51	722	2.88	1.47	0.51	752
24	18	2.94	2.32	0.79	608	2.81	2.22	0.79	638	2.70	2.13	0.79	669	2.60	2.05	0.79	699
24	20	3.06	2.05	0.67	638	2.94	1.97	0.67	676	2.85	1.91	0.67	692	2.75	1.84	0.67	722
24	22	3.19	1.75	0.55	661	3.08	1.69	0.55	703	3.00	1.65	0.55	722	2.88	1.58	0.55	752
24	24	3.35	1.44	0.43	692	3.23	1.39	0.43	730	3.15	1.35	0.43	752	3.05	1.31	0.43	790
25	20	3.06	2.17	0.71	638	2.94	2.09	0.71	676	2.85	2.02	0.71	692	2.75	1.95	0.71	722
25	22	3.19	1.88	0.59	661	3.08	1.81	0.59	703	3.00	1.77	0.59	722	2.88	1.70	0.59	752
25	24	3.35	1.57	0.47	692	3.23	1.52	0.47	730	3.15	1.48	0.47	752	3.05	1.43	0.47	790
26	18	2.94	2.56	0.87	608	2.81	2.45	0.87	638	2.70	2.35	0.87	669	2.60	2.26	0.87	699
26	20	3.06	2.30	0.75	638	2.94	2.20	0.75	676	2.85	2.14	0.75	692	2.75	2.06	0.75	722
26	22	3.19	2.01	0.63	661	3.08	1.94	0.63	703	3.00	1.89	0.63	722	2.88	1.81	0.63	752
26	24	3.35	1.71	0.51	692	3.23	1.64	0.51	730	3.15	1.61	0.51	752	3.05	1.56	0.51	790
26	26	3.45	1.35	0.39	730	3.35	1.31	0.39	768	3.30	1.29	0.39	790	3.20	1.25	0.39	813
27	18	2.94	2.67	0.91	608	2.81	2.56	0.91	638	2.70	2.46	0.91	669	2.60	2.37	0.91	699
27	20	3.06	2.42	0.79	638	2.94	2.32	0.79	676	2.85	2.25	0.79	692	2.75	2.17	0.79	722
27	22	3.19	2.14	0.67	661	3.08	2.06	0.67	703	3.00	2.01	0.67	722	2.88	1.93	0.67	752
27	24	3.35	1.84	0.55	692	3.23	1.77	0.55	730	3.15	1.73	0.55	752	3.05	1.68	0.55	790
27	26	3.45	1.48	0.43	730	3.35	1.44	0.43	768	3.30	1.42	0.43	790	3.20	1.38	0.43	813
28	18	2.94	2.79	0.95	608	2.81	2.67	0.95	638	2.70	2.57	0.95	669	2.60	2.47	0.95	699
28	20	3.06	2.54	0.83	638	2.94	2.44	0.83	676	2.85	2.37	0.83	692	2.75	2.28	0.83	722
28	22	3.19	2.26	0.71	661	3.08	2.18	0.71	703	3.00	2.13	0.71	722	2.88	2.04	0.71	752
28	24	3.35	1.98	0.59	692	3.23	1.90	0.59	730	3.15	1.86	0.59	752	3.05	1.80	0.59	790
28	26	3.45	1.62	0.47	730	3.35	1.57	0.47	768	3.30	1.55	0.47	790	3.20	1.50	0.47	813
29	18	2.94	2.91	0.99	608	2.81	2.78	0.99	638	2.70	2.67	0.99	669	2.60	2.57	0.99	699
29	20	3.06	2.66	0.87	638	2.94	2.56	0.87	676	2.85	2.48	0.87	692	2.75	2.39	0.87	722
29	22	3.19	2.39	0.75	661	3.08	2.31	0.75	703	3.00	2.25	0.75	722	2.88	2.16	0.75	752
29	24	3.35	2.11	0.63	692	3.23	2.03	0.63	730	3.15	1.98	0.63	752	3.05	1.92	0.63	790
29	26	3.45	1.76	0.51	730	3.35	1.71	0.51	768	3.30	1.68	0.51	790	3.20	1.63	0.51	813
30	18	2.94	3.03	1.03	608	2.81	2.90	1.03	638	2.70	2.78	1.03	669	2.60	2.68	1.03	699
30	20	3.06	2.79	0.91	638	2.94	2.67	0.91	676	2.85	2.59	0.91	692	2.75	2.50	0.91	722
30	22	3.19	2.52	0.79	661	3.08	2.43	0.79	703	3.00	2.37	0.79	722	2.88	2.27	0.79	752
30	24	3.35	2.24	0.67	692	3.23	2.16	0.67	730	3.15	2.11	0.67	752	3.05	2.04	0.67	790
30	26	3.45	1.90	0.55	730	3.35	1.84	0.55	768	3.30	1.82	0.55	790	3.20	1.76	0.55	813
31	18	2.94	3.14	1.07	608	2.81	3.01	1.07	638	2.70	2.89	1.07	669	2.60	2.78	1.07	699
31	20	3.06	2.91	0.95	638	2.94	2.79	0.95	676	2.85	2.71	0.95	692	2.75	2.61	0.95	722
31	22	3.19	2.65	0.83	661	3.08	2.55	0.83	703	3.00	2.49	0.83	722	2.88	2.39	0.83	752
31	24	3.35	2.38	0.71	692	3.23	2.29	0.71	730	3.15	2.24	0.71	752	3.05	2.17	0.71	790
31	26	3.45	2.04	0.59	730	3.35	1.98	0.59	768	3.30	1.95	0.59	790	3.20	1.89	0.59	813
32	18	2.94	3.26	1.11	608	2.81	3.12	1.11	638	2.70	3.00	1.11	669	2.60	2.89	1.11	699
32	20	3.06	3.03	0.99	638	2.94	2.91	0.99	676	2.85	2.82	0.99	692	2.75	2.72	0.99	722
32	22	3.19	2.77	0.87	661	3.08	2.68	0.87	703	3.00	2.61	0.87	722	2.88	2.50	0.87	752
32	24	3.35	2.51	0.75	692	3.23	2.42	0.75	730	3.15	2.36	0.75	752	3.05	2.29	0.75	790
32	26	3.45	2.17	0.63	730	3.35	2.11	0.63	768	3.30	2.08	0.63	790	3.20	2.02	0.63	813

NOTE Q : Total capacity (kW) SHF : Sensible heat factor DB : Dry-bulb temperature
SHC : Sensible heat capacity (kW) INPUT : Total power input (W) WB : Wet-bulb temperature

PERFORMANCE DATA
COOLING operation Rated frequency 57Hz
SLZ-A09AR.TH / SUZ-A09VR.TH
CAPACITY : 2.5(kW) INPUT : 760(W) SHF : 0.85

		OUTDOOR D.B.(℃)											
INDOOR	INDOOR	35				40				46			
D.B.(℃)	W.B.(℃)	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT
21	18	2.45	1.64	0.67	745	2.25	1.51	0.67	790	2.08	1.39	0.67	821
21	20	2.58	1.42	0.55	775	2.40	1.32	0.55	813	2.23	1.22	0.55	859
22	18	2.45	1.74	0.71	745	2.25	1.60	0.71	790	2.08	1.47	0.71	821
22	20	2.58	1.52	0.59	775	2.40	1.42	0.59	813	2.23	1.31	0.59	859
22	22	2.73	1.28	0.47	806	2.55	1.20	0.47	851	2.38	1.12	0.47	882
23	18	2.45	1.84	0.75	745	2.25	1.69	0.75	790	2.08	1.56	0.75	821
23	20	2.58	1.62	0.63	775	2.40	1.51	0.63	813	2.23	1.40	0.63	859
23	22	2.73	1.39	0.51	806	2.55	1.30	0.51	851	2.38	1.21	0.51	882
24	18	2.45	1.94	0.79	745	2.25	1.78	0.79	790	2.08	1.64	0.79	821
24	20	2.58	1.73	0.67	775	2.40	1.61	0.67	813	2.23	1.49	0.67	859
24	22	2.73	1.50	0.55	806	2.55	1.40	0.55	851	2.38	1.31	0.55	882
24	24	2.88	1.24	0.43	836	2.70	1.16	0.43	874	2.55	1.10	0.43	912
25	20	2.58	1.83	0.71	775	2.40	1.70	0.71	813	2.23	1.58	0.71	859
25	22	2.73	1.61	0.59	806	2.55	1.50	0.59	851	2.38	1.40	0.59	882
25	24	2.88	1.35	0.47	836	2.70	1.27	0.47	874	2.55	1.20	0.47	912
26	18	2.45	2.13	0.87	745	2.25	1.96	0.87	790	2.08	1.81	0.87	821
26	20	2.58	1.93	0.75	775	2.40	1.80	0.75	813	2.23	1.67	0.75	859
26	22	2.73	1.72	0.63	806	2.55	1.61	0.63	851	2.38	1.50	0.63	882
26	24	2.88	1.47	0.51	836	2.70	1.38	0.51	874	2.55	1.30	0.51	912
26	26	3.03	1.18	0.39	866	2.85	1.11	0.39	904	2.68	1.04	0.39	942
27	18	2.45	2.23	0.91	745	2.25	2.05	0.91	790	2.08	1.89	0.91	821
27	20	2.58	2.03	0.79	775	2.40	1.90	0.79	813	2.23	1.76	0.79	859
27	22	2.73	1.83	0.67	806	2.55	1.71	0.67	851	2.38	1.59	0.67	882
27	24	2.88	1.58	0.55	836	2.70	1.49	0.55	874	2.55	1.40	0.55	912
27	26	3.03	1.30	0.43	866	2.85	1.23	0.43	904	2.68	1.15	0.43	942
28	18	2.45	2.33	0.95	745	2.25	2.14	0.95	790	2.08	1.97	0.95	821
28	20	2.58	2.14	0.83	775	2.40	1.99	0.83	813	2.23	1.85	0.83	859
28	22	2.73	1.93	0.71	806	2.55	1.81	0.71	851	2.38	1.69	0.71	882
28	24	2.88	1.70	0.59	836	2.70	1.59	0.59	874	2.55	1.50	0.59	912
28	26	3.03	1.42	0.47	866	2.85	1.34	0.47	904	2.68	1.26	0.47	942
29	18	2.45	2.43	0.99	745	2.25	2.23	0.99	790	2.08	2.05	0.99	821
29	20	2.58	2.24	0.87	775	2.40	2.09	0.87	813	2.23	1.94	0.87	859
29	22	2.73	2.04	0.75	806	2.55	1.91	0.75	851	2.38	1.78	0.75	882
29	24	2.88	1.81	0.63	836	2.70	1.70	0.63	874	2.55	1.61	0.63	912
29	26	3.03	1.54	0.51	866	2.85	1.45	0.51	904	2.68	1.36	0.51	942
30	18	2.45	2.52	1.03	745	2.25	2.32	1.03	790	2.08	2.14	1.03	821
30	20	2.58	2.34	0.91	775	2.40	2.18	0.91	813	2.23	2.02	0.91	859
30	22	2.73	2.15	0.79	806	2.55	2.01	0.79	851	2.38	1.88	0.79	882
30	24	2.88	1.93	0.67	836	2.70	1.81	0.67	874	2.55	1.71	0.67	912
30	26	3.03	1.66	0.55	866	2.85	1.57	0.55	904	2.68	1.47	0.55	942
31	18	2.45	2.62	1.07	745	2.25	2.41	1.07	790	2.08	2.22	1.07	821
31	20	2.58	2.45	0.95	775	2.40	2.28	0.95	813	2.23	2.11	0.95	859
31	22	2.73	2.26	0.83	806	2.55	2.12	0.83	851	2.38	1.97	0.83	882
31	24	2.88	2.04	0.71	836	2.70	1.92	0.71	874	2.55	1.81	0.71	912
31	26	3.03	1.78	0.59	866	2.85	1.68	0.59	904	2.68	1.58	0.59	942
32	18	2.45	2.72	1.11	745	2.25	2.50	1.11	790	2.08	2.30	1.11	821
32	20	2.58	2.55	0.99	775	2.40	2.38	0.99	813	2.23	2.20	0.99	859
32	22	2.73	2.37	0.87	806	2.55	2.22	0.87	851	2.38	2.07	0.87	882
32	24	2.88	2.16	0.75	836	2.70	2.03	0.75	874	2.55	1.91	0.75	912
32	26	3.03	1.91	0.63	866	2.85	1.80	0.63	904	2.68	1.69	0.63	942

NOTE Q : Total capacity (kW) SHF : Sensible heat factor DB : Dry-bulb temperature
SHC : Sensible heat capacity (kW) INPUT : Total power input (W) WB : Wet-bulb temperature

PERFORMANCE DATA
COOLING operation Rated frequency 67Hz
SLZ-A12AR.TH / SUZ-A12VR.TH
CAPACITY : 3.2(kW) INPUT : 1060(W) SHF : 0.79

		OUTDOOR D.B.(℃)															
INDOOR	INDOOR	21				25				27				30			
D.B.(℃)	W.B.(℃)	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT
21	18	3.76	2.29	0.61	848	3.60	2.20	0.61	890	3.46	2.11	0.61	933	3.33	2.03	0.61	975
21	20	3.92	1.92	0.49	890	3.76	1.84	0.49	943	3.65	1.79	0.49	965	3.52	1.72	0.49	1007
22	18	3.76	2.44	0.65	848	3.60	2.34	0.65	890	3.46	2.25	0.65	933	3.33	2.16	0.65	975
22	20	3.92	2.08	0.53	890	3.76	1.99	0.53	943	3.65	1.93	0.53	965	3.52	1.87	0.53	1007
22	22	4.08	1.67	0.41	922	3.94	1.61	0.41	981	3.84	1.57	0.41	1007	3.68	1.51	0.41	1049
23	18	3.76	2.59	0.69	848	3.60	2.48	0.69	890	3.46	2.38	0.69	933	3.33	2.30	0.69	975
23	20	3.92	2.23	0.57	890	3.76	2.14	0.57	943	3.65	2.08	0.57	965	3.52	2.01	0.57	1007
23	22	4.08	1.84	0.45	922	3.94	1.77	0.45	981	3.84	1.73	0.45	1007	3.68	1.66	0.45	1049
24	18	3.76	2.74	0.73	848	3.60	2.63	0.73	890	3.46	2.52	0.73	933	3.33	2.43	0.73	975
24	20	3.92	2.39	0.61	890	3.76	2.29	0.61	943	3.65	2.23	0.61	965	3.52	2.15	0.61	1007
24	22	4.08	2.00	0.49	922	3.94	1.93	0.49	981	3.84	1.88	0.49	1007	3.68	1.80	0.49	1049
24	24	4.29	1.59	0.37	965	4.13	1.53	0.37	1018	4.03	1.49	0.37	1049	3.90	1.44	0.37	1102
25	20	3.92	2.55	0.65	890	3.76	2.44	0.65	943	3.65	2.37	0.65	965	3.52	2.29	0.65	1007
25	22	4.08	2.16	0.53	922	3.94	2.09	0.53	981	3.84	2.04	0.53	1007	3.68	1.95	0.53	1049
25	24	4.29	1.76	0.41	965	4.13	1.69	0.41	1018	4.03	1.65	0.41	1049	3.90	1.60	0.41	1102
26	18	3.76	3.05	0.81	848	3.60	2.92	0.81	890	3.46	2.80	0.81	933	3.33	2.70	0.81	975
26	20	3.92	2.70	0.69	890	3.76	2.59	0.69	943	3.65	2.52	0.69	965	3.52	2.43	0.69	1007
26	22	4.08	2.33	0.57	922	3.94	2.24	0.57	981	3.84	2.19	0.57	1007	3.68	2.10	0.57	1049
26	24	4.29	1.93	0.45	965	4.13	1.86	0.45	1018	4.03	1.81	0.45	1049	3.90	1.76	0.45	1102
26	26	4.42	1.46	0.33	1018	4.29	1.42	0.33	1071	4.22	1.39	0.33	1102	4.10	1.35	0.33	1134
27	18	3.76	3.20	0.85	848	3.60	3.06	0.85	890	3.46	2.94	0.85	933	3.33	2.83	0.85	975
27	20	3.92	2.86	0.73	890	3.76	2.74	0.73	943	3.65	2.66	0.73	965	3.52	2.57	0.73	1007
27	22	4.08	2.49	0.61	922	3.94	2.40	0.61	981	3.84	2.34	0.61	1007	3.68	2.24	0.61	1049
27	24	4.29	2.10	0.49	965	4.13	2.02	0.49	1018	4.03	1.98	0.49	1049	3.90	1.91	0.49	1102
27	26	4.42	1.63	0.37	1018	4.29	1.59	0.37	1071	4.22	1.56	0.37	1102	4.10	1.52	0.37	1134
28	18	3.76	3.35	0.89	848	3.60	3.20	0.89	890	3.46	3.08	0.89	933	3.33	2.96	0.89	975
28	20	3.92	3.02	0.77	890	3.76	2.90	0.77	943	3.65	2.81	0.77	965	3.52	2.71	0.77	1007
28	22	4.08	2.65	0.65	922	3.94	2.56	0.65	981	3.84	2.50	0.65	1007	3.68	2.39	0.65	1049
28	24	4.29	2.27	0.53	965	4.13	2.19	0.53	1018	4.03	2.14	0.53	1049	3.90	2.07	0.53	1102
28	26	4.42	1.81	0.41	1018	4.29	1.76	0.41	1071	4.22	1.73	0.41	1102	4.10	1.68	0.41	1134
29	18	3.76	3.50	0.93	848	3.60	3.35	0.93	890	3.46	3.21	0.93	933	3.33	3.10	0.93	975
29	20	3.92	3.18	0.81	890	3.76	3.05	0.81	943	3.65	2.95	0.81	965	3.52	2.85	0.81	1007
29	22	4.08	2.82	0.69	922	3.94	2.72	0.69	981	3.84	2.65	0.69	1007	3.68	2.54	0.69	1049
29	24	4.29	2.44	0.57	965	4.13	2.35	0.57	1018	4.03	2.30	0.57	1049	3.90	2.23	0.57	1102
29	26	4.42	1.99	0.45	1018	4.29	1.93	0.45	1071	4.22	1.90	0.45	1102	4.10	1.84	0.45	1134
30	18	3.76	3.65	0.97	848	3.60	3.49	0.97	890	3.46	3.35	0.97	933	3.33	3.23	0.97	975
30	20	3.92	3.33	0.85	890	3.76	3.20	0.85	943	3.65	3.10	0.85	965	3.52	2.99	0.85	1007
30	22	4.08	2.98	0.73	922	3.94	2.87	0.73	981	3.84	2.80	0.73	1007	3.68	2.69	0.73	1049
30	24	4.29	2.62	0.61	965	4.13	2.52	0.61	1018	4.03	2.46	0.61	1049	3.90	2.38	0.61	1102
30	26	4.42	2.16	0.49	1018	4.29	2.10	0.49	1071	4.22	2.07	0.49	1102	4.10	2.01	0.49	1134
31	18	3.76	3.80	1.01	848	3.60	3.64	1.01	890	3.46	3.49	1.01	933	3.33	3.36	1.01	975
31	20	3.92	3.49	0.89	890	3.76	3.35	0.89	943	3.65	3.25	0.89	965	3.52	3.13	0.89	1007
31	22	4.08	3.14	0.77	922	3.94	3.03	0.77	981	3.84	2.96	0.77	1007	3.68	2.83	0.77	1049
31	24	4.29	2.79	0.65	965	4.13	2.68	0.65	1018	4.03	2.62	0.65	1049	3.90	2.54	0.65	1102
31	26	4.42	2.34	0.53	1018	4.29	2.27	0.53	1071	4.22	2.24	0.53	1102	4.10	2.17	0.53	1134
32	18	3.76	3.95	1.05	848	3.60	3.78	1.05	890	3.46	3.63	1.05	933	3.33	3.49	1.05	975
32	20	3.92	3.65	0.93	890	3.76	3.50	0.93	943	3.65	3.39	0.93	965	3.52	3.27	0.93	1007
32	22	4.08	3.30	0.81	922	3.94	3.19	0.81	981	3.84	3.11	0.81	1007	3.68	2.98	0.81	1049
32	24	4.29	2.96	0.69	965	4.13	2.85	0.69	1018	4.03	2.78	0.69	1049	3.90	2.69	0.69	1102
32	26	4.42	2.52	0.57	1018	4.29	2.44	0.57	1071	4.22	2.41	0.57	1102	4.10	2.33	0.57	1134

NOTE Q : Total capacity (kW) SHF : Sensible heat factor DB : Dry-bulb temperature
SHC : Sensible heat capacity (kW) INPUT : Total power input (W) WB : Wet-bulb temperature

PERFORMANCE DATA
COOLING operation Rated frequency 67Hz
SLZ-A12AR.TH / SUZ-A12VR.TH
CAPACITY : 3.2(kW) INPUT : 1060(W) SHF : 0.79

		OUTDOOR D.B.(℃)											
INDOOR	INDOOR	35				40				46			
D.B.(℃)	W.B.(℃)	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT
21	18	3.14	1.91	0.61	1039	2.88	1.76	0.61	1102	2.66	1.62	0.61	1145
21	20	3.30	1.62	0.49	1081	3.07	1.51	0.49	1134	2.85	1.40	0.49	1198
22	18	3.14	2.04	0.65	1039	2.88	1.87	0.65	1102	2.66	1.73	0.65	1145
22	20	3.30	1.75	0.53	1081	3.07	1.63	0.53	1134	2.85	1.51	0.53	1198
22	22	3.49	1.43	0.41	1124	3.26	1.34	0.41	1187	3.04	1.25	0.41	1230
23	18	3.14	2.16	0.69	1039	2.88	1.99	0.69	1102	2.66	1.83	0.69	1145
23	20	3.30	1.88	0.57	1081	3.07	1.75	0.57	1134	2.85	1.62	0.57	1198
23	22	3.49	1.57	0.45	1124	3.26	1.47	0.45	1187	3.04	1.37	0.45	1230
24	18	3.14	2.29	0.73	1039	2.88	2.10	0.73	1102	2.66	1.94	0.73	1145
24	20	3.30	2.01	0.61	1081	3.07	1.87	0.61	1134	2.85	1.74	0.61	1198
24	22	3.49	1.71	0.49	1124	3.26	1.60	0.49	1187	3.04	1.49	0.49	1230
24	24	3.68	1.36	0.37	1166	3.46	1.28	0.37	1219	3.26	1.21	0.37	1272
25	20	3.30	2.14	0.65	1081	3.07	2.00	0.65	1134	2.85	1.85	0.65	1198
25	22	3.49	1.85	0.53	1124	3.26	1.73	0.53	1187	3.04	1.61	0.53	1230
25	24	3.68	1.51	0.41	1166	3.46	1.42	0.41	1219	3.26	1.34	0.41	1272
26	18	3.14	2.54	0.81	1039	2.88	2.33	0.81	1102	2.66	2.15	0.81	1145
26	20	3.30	2.27	0.69	1081	3.07	2.12	0.69	1134	2.85	1.97	0.69	1198
26	22	3.49	1.99	0.57	1124	3.26	1.86	0.57	1187	3.04	1.73	0.57	1230
26	24	3.68	1.66	0.45	1166	3.46	1.56	0.45	1219	3.26	1.47	0.45	1272
26	26	3.87	1.28	0.33	1208	3.65	1.20	0.33	1261	3.42	1.13	0.33	1314
27	18	3.14	2.67	0.85	1039	2.88	2.45	0.85	1102	2.66	2.26	0.85	1145
27	20	3.30	2.41	0.73	1081	3.07	2.24	0.73	1134	2.85	2.08	0.73	1198
27	22	3.49	2.13	0.61	1124	3.26	1.99	0.61	1187	3.04	1.85	0.61	1230
27	24	3.68	1.80	0.49	1166	3.46	1.69	0.49	1219	3.26	1.60	0.49	1272
27	26	3.87	1.43	0.37	1208	3.65	1.35	0.37	1261	3.42	1.27	0.37	1314
28	18	3.14	2.79	0.89	1039	2.88	2.56	0.89	1102	2.66	2.36	0.89	1145
28	20	3.30	2.54	0.77	1081	3.07	2.37	0.77	1134	2.85	2.19	0.77	1198
28	22	3.49	2.27	0.65	1124	3.26	2.12	0.65	1187	3.04	1.98	0.65	1230
28	24	3.68	1.95	0.53	1166	3.46	1.83	0.53	1219	3.26	1.73	0.53	1272
28	26	3.87	1.59	0.41	1208	3.65	1.50	0.41	1261	3.42	1.40	0.41	1314
29	18	3.14	2.92	0.93	1039	2.88	2.68	0.93	1102	2.66	2.47	0.93	1145
29	20	3.30	2.67	0.81	1081	3.07	2.49	0.81	1134	2.85	2.31	0.81	1198
29	22	3.49	2.41	0.69	1124	3.26	2.25	0.69	1187	3.04	2.10	0.69	1230
29	24	3.68	2.10	0.57	1166	3.46	1.97	0.57	1219	3.26	1.86	0.57	1272
29	26	3.87	1.74	0.45	1208	3.65	1.64	0.45	1261	3.42	1.54	0.45	1314
30	18	3.14	3.04	0.97	1039	2.88	2.79	0.97	1102	2.66	2.58	0.97	1145
30	20	3.30	2.80	0.85	1081	3.07	2.61	0.85	1134	2.85	2.42	0.85	1198
30	22	3.49	2.55	0.73	1124	3.26	2.38	0.73	1187	3.04	2.22	0.73	1230
30	24	3.68	2.24	0.61	1166	3.46	2.11	0.61	1219	3.26	1.99	0.61	1272
30	26	3.87	1.90	0.49	1208	3.65	1.79	0.49	1261	3.42	1.68	0.49	1314
31	18	3.14	3.17	1.01	1039	2.88	2.91	1.01	1102	2.66	2.68	1.01	1145
31	20	3.30	2.93	0.89	1081	3.07	2.73	0.89	1134	2.85	2.53	0.89	1198
31	22	3.49	2.69	0.77	1124	3.26	2.51	0.77	1187	3.04	2.34	0.77	1230
31	24	3.68	2.39	0.65	1166	3.46	2.25	0.65	1219	3.26	2.12	0.65	1272
31	26	3.87	2.05	0.53	1208	3.65	1.93	0.53	1261	3.42	1.81	0.53	1314
32	18	3.14	3.29	1.05	1039	2.88	3.02	1.05	1102	2.66	2.79	1.05	1145
32	20	3.30	3.07	0.93	1081	3.07	2.86	0.93	1134	2.85	2.65	0.93	1198
32	22	3.49	2.83	0.81	1124	3.26	2.64	0.81	1187	3.04	2.46	0.81	1230
32	24	3.68	2.54	0.69	1166	3.46	2.38	0.69	1219	3.26	2.25	0.69	1272
32	26	3.87	2.21	0.57	1208	3.65	2.08	0.57	1261	3.42	1.95	0.57	1314

NOTE Q : Total capacity (kW) SHF : Sensible heat factor DB : Dry-bulb temperature
SHC : Sensible heat capacity (kW) INPUT : Total power input (W) WB : Wet-bulb temperature

PERFORMANCE DATA
COOLING operation Rated frequency 65Hz
SLZ-A18AR.TH / SUZ-A18VR.TH
CAPACITY : 4.6(kW) INPUT : 1630(W) SHF : 0.68

		OUTDOOR D.B.(℃)															
INDOOR	INDOOR	21				25				27				30			
D.B.(℃)	W.B.(℃)	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT
21	18	5.41	2.70	0.50	1304	5.18	2.59	0.50	1369	4.97	2.48	0.50	1434	4.78	2.39	0.50	1500
21	20	5.64	2.14	0.38	1369	5.41	2.05	0.38	1451	5.24	1.99	0.38	1483	5.06	1.92	0.38	1549
22	18	5.41	2.92	0.54	1304	5.18	2.79	0.54	1369	4.97	2.68	0.54	1434	4.78	2.58	0.54	1500
22	20	5.64	2.37	0.42	1369	5.41	2.27	0.42	1451	5.24	2.20	0.42	1483	5.06	2.13	0.42	1549
22	22	5.87	1.76	0.30	1418	5.66	1.70	0.30	1508	5.52	1.66	0.30	1549	5.29	1.59	0.30	1614
23	18	5.41	3.13	0.58	1304	5.18	3.00	0.58	1369	4.97	2.88	0.58	1434	4.78	2.77	0.58	1500
23	20	5.64	2.59	0.46	1369	5.41	2.49	0.46	1451	5.24	2.41	0.46	1483	5.06	2.33	0.46	1549
23	22	5.87	1.99	0.34	1418	5.66	1.92	0.34	1508	5.52	1.88	0.34	1549	5.29	1.80	0.34	1614
24	18	5.41	3.35	0.62	1304	5.18	3.21	0.62	1369	4.97	3.08	0.62	1434	4.78	2.97	0.62	1500
24	20	5.64	2.82	0.50	1369	5.41	2.70	0.50	1451	5.24	2.62	0.50	1483	5.06	2.53	0.50	1549
24	22	5.87	2.23	0.38	1418	5.66	2.15	0.38	1508	5.52	2.10	0.38	1549	5.29	2.01	0.38	1614
24	24	6.16	1.60	0.26	1483	5.93	1.54	0.26	1565	5.80	1.51	0.26	1614	5.61	1.46	0.26	1695
25	20	5.64	3.04	0.54	1369	5.41	2.92	0.54	1451	5.24	2.83	0.54	1483	5.06	2.73	0.54	1549
25	22	5.87	2.46	0.42	1418	5.66	2.38	0.42	1508	5.52	2.32	0.42	1549	5.29	2.22	0.42	1614
25	24	6.16	1.85	0.30	1483	5.93	1.78	0.30	1565	5.80	1.74	0.30	1614	5.61	1.68	0.30	1695
26	18	5.41	3.78	0.70	1304	5.18	3.62	0.70	1369	4.97	3.48	0.70	1434	4.78	3.35	0.70	1500
26	20	5.64	3.27	0.58	1369	5.41	3.13	0.58	1451	5.24	3.04	0.58	1483	5.06	2.93	0.58	1549
26	22	5.87	2.70	0.46	1418	5.66	2.60	0.46	1508	5.52	2.54	0.46	1549	5.29	2.43	0.46	1614
26	24	6.16	2.10	0.34	1483	5.93	2.02	0.34	1565	5.80	1.97	0.34	1614	5.61	1.91	0.34	1695
26	26	6.35	1.40	0.22	1565	6.16	1.36	0.22	1646	6.07	1.34	0.22	1695	5.89	1.30	0.22	1744
27	18	5.41	4.00	0.74	1304	5.18	3.83	0.74	1369	4.97	3.68	0.74	1434	4.78	3.54	0.74	1500
27	20	5.64	3.49	0.62	1369	5.41	3.35	0.62	1451	5.24	3.25	0.62	1483	5.06	3.14	0.62	1549
27	22	5.87	2.93	0.50	1418	5.66	2.83	0.50	1508	5.52	2.76	0.50	1549	5.29	2.65	0.50	1614
27	24	6.16	2.34	0.38	1483	5.93	2.25	0.38	1565	5.80	2.20	0.38	1614	5.61	2.13	0.38	1695
27	26	6.35	1.65	0.26	1565	6.16	1.60	0.26	1646	6.07	1.58	0.26	1695	5.89	1.53	0.26	1744
28	18	5.41	4.22	0.78	1304	5.18	4.04	0.78	1369	4.97	3.88	0.78	1434	4.78	3.73	0.78	1500
28	20	5.64	3.72	0.66	1369	5.41	3.57	0.66	1451	5.24	3.46	0.66	1483	5.06	3.34	0.66	1549
28	22	5.87	3.17	0.54	1418	5.66	3.06	0.54	1508	5.52	2.98	0.54	1549	5.29	2.86	0.54	1614
28	24	6.16	2.59	0.42	1483	5.93	2.49	0.42	1565	5.80	2.43	0.42	1614	5.61	2.36	0.42	1695
28	26	6.35	1.90	0.30	1565	6.16	1.85	0.30	1646	6.07	1.82	0.30	1695	5.89	1.77	0.30	1744
29	18	5.41	4.43	0.82	1304	5.18	4.24	0.82	1369	4.97	4.07	0.82	1434	4.78	3.92	0.82	1500
29	20	5.64	3.94	0.70	1369	5.41	3.78	0.70	1451	5.24	3.67	0.70	1483	5.06	3.54	0.70	1549
29	22	5.87	3.40	0.58	1418	5.66	3.28	0.58	1508	5.52	3.20	0.58	1549	5.29	3.07	0.58	1614
29	24	6.16	2.84	0.46	1483	5.93	2.73	0.46	1565	5.80	2.67	0.46	1614	5.61	2.58	0.46	1695
29	26	6.35	2.16	0.34	1565	6.16	2.10	0.34	1646	6.07	2.06	0.34	1695	5.89	2.00	0.34	1744
30	18	5.41	4.65	0.86	1304	5.18	4.45	0.86	1369	4.97	4.27	0.86	1434	4.78	4.11	0.86	1500
30	20	5.64	4.17	0.74	1369	5.41	4.00	0.74	1451	5.24	3.88	0.74	1483	5.06	3.74	0.74	1549
30	22	5.87	3.64	0.62	1418	5.66	3.51	0.62	1508	5.52	3.42	0.62	1549	5.29	3.28	0.62	1614
30	24	6.16	3.08	0.50	1483	5.93	2.97	0.50	1565	5.80	2.90	0.50	1614	5.61	2.81	0.50	1695
30	26	6.35	2.41	0.38	1565	6.16	2.34	0.38	1646	6.07	2.31	0.38	1695	5.89	2.24	0.38	1744
31	18	5.41	4.86	0.90	1304	5.18	4.66	0.90	1369	4.97	4.47	0.90	1434	4.78	4.31	0.90	1500
31	20	5.64	4.40	0.78	1369	5.41	4.22	0.78	1451	5.24	4.09	0.78	1483	5.06	3.95	0.78	1549
31	22	5.87	3.87	0.66	1418	5.66	3.73	0.66	1508	5.52	3.64	0.66	1549	5.29	3.49	0.66	1614
31	24	6.16	3.33	0.54	1483	5.93	3.20	0.54	1565	5.80	3.13	0.54	1614	5.61	3.03	0.54	1695
31	26	6.35	2.67	0.42	1565	6.16	2.59	0.42	1646	6.07	2.55	0.42	1695	5.89	2.47	0.42	1744
32	18	5.41	5.08	0.94	1304	5.18	4.86	0.94	1369	4.97	4.67	0.94	1434	4.78	4.50	0.94	1500
32	20	5.64	4.62	0.82	1369	5.41	4.43	0.82	1451	5.24	4.30	0.82	1483	5.06	4.15	0.82	1549
32	22	5.87	4.11	0.70	1418	5.66	3.96	0.70	1508	5.52	3.86	0.70	1549	5.29	3.70	0.70	1614
32	24	6.16	3.58	0.58	1483	5.93	3.44	0.58	1565	5.80	3.36	0.58	1614	5.61	3.25	0.58	1695
32	26	6.35	2.92	0.46	1565	6.16	2.84	0.46	1646	6.07	2.79	0.46	1695	5.89	2.71	0.46	1744

NOTE Q : Total capacity (kW) SHF : Sensible heat factor DB : Dry-bulb temperature
SHC : Sensible heat capacity (kW) INPUT : Total power input (W) WB : Wet-bulb temperature

PERFORMANCE DATA
COOLING operation Rated frequency 65Hz
SLZ-A18AR.TH / SUZ-A18VR.TH
CAPACITY : 4.6(kW) INPUT : 1630(W) SHF : 0.68

		OUTDOOR D.B.(℃)											
INDOOR	INDOOR	35				40				46			
D.B.(℃)	W.B.(℃)	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT
21	18	4.51	2.25	0.50	1597	4.14	2.07	0.50	1695	3.82	1.91	0.50	1760
21	20	4.74	1.80	0.38	1663	4.42	1.68	0.38	1744	4.09	1.56	0.38	1842
22	18	4.51	2.43	0.54	1597	4.14	2.24	0.54	1695	3.82	2.06	0.54	1760
22	20	4.74	1.99	0.42	1663	4.42	1.85	0.42	1744	4.09	1.72	0.42	1842
22	22	5.01	1.50	0.30	1728	4.69	1.41	0.30	1826	4.37	1.31	0.30	1891
23	18	4.51	2.61	0.58	1597	4.14	2.40	0.58	1695	3.82	2.21	0.58	1760
23	20	4.74	2.18	0.46	1663	4.42	2.03	0.46	1744	4.09	1.88	0.46	1842
23	22	5.01	1.70	0.34	1728	4.69	1.60	0.34	1826	4.37	1.49	0.34	1891
24	18	4.51	2.79	0.62	1597	4.14	2.57	0.62	1695	3.82	2.37	0.62	1760
24	20	4.74	2.37	0.50	1663	4.42	2.21	0.50	1744	4.09	2.05	0.50	1842
24	22	5.01	1.91	0.38	1728	4.69	1.78	0.38	1826	4.37	1.66	0.38	1891
24	24	5.29	1.38	0.26	1793	4.97	1.29	0.26	1875	4.69	1.22	0.26	1956
25	20	4.74	2.56	0.54	1663	4.42	2.38	0.54	1744	4.09	2.21	0.54	1842
25	22	5.01	2.11	0.42	1728	4.69	1.97	0.42	1826	4.37	1.84	0.42	1891
25	24	5.29	1.59	0.30	1793	4.97	1.49	0.30	1875	4.69	1.41	0.30	1956
26	18	4.51	3.16	0.70	1597	4.14	2.90	0.70	1695	3.82	2.67	0.70	1760
26	20	4.74	2.75	0.58	1663	4.42	2.56	0.58	1744	4.09	2.37	0.58	1842
26	22	5.01	2.31	0.46	1728	4.69	2.16	0.46	1826	4.37	2.01	0.46	1891
26	24	5.29	1.80	0.34	1793	4.97	1.69	0.34	1875	4.69	1.60	0.34	1956
26	26	5.57	1.22	0.22	1858	5.24	1.15	0.22	1940	4.92	1.08	0.22	2021
27	18	4.51	3.34	0.74	1597	4.14	3.06	0.74	1695	3.82	2.83	0.74	1760
27	20	4.74	2.94	0.62	1663	4.42	2.74	0.62	1744	4.09	2.54	0.62	1842
27	22	5.01	2.51	0.50	1728	4.69	2.35	0.50	1826	4.37	2.19	0.50	1891
27	24	5.29	2.01	0.38	1793	4.97	1.89	0.38	1875	4.69	1.78	0.38	1956
27	26	5.57	1.45	0.26	1858	5.24	1.36	0.26	1940	4.92	1.28	0.26	2021
28	18	4.51	3.52	0.78	1597	4.14	3.23	0.78	1695	3.82	2.98	0.78	1760
28	20	4.74	3.13	0.66	1663	4.42	2.91	0.66	1744	4.09	2.70	0.66	1842
28	22	5.01	2.71	0.54	1728	4.69	2.53	0.54	1826	4.37	2.36	0.54	1891
28	24	5.29	2.22	0.42	1793	4.97	2.09	0.42	1875	4.69	1.97	0.42	1956
28	26	5.57	1.67	0.30	1858	5.24	1.57	0.30	1940	4.92	1.48	0.30	2021
29	18	4.51	3.70	0.82	1597	4.14	3.39	0.82	1695	3.82	3.13	0.82	1760
29	20	4.74	3.32	0.70	1663	4.42	3.09	0.70	1744	4.09	2.87	0.70	1842
29	22	5.01	2.91	0.58	1728	4.69	2.72	0.58	1826	4.37	2.53	0.58	1891
29	24	5.29	2.43	0.46	1793	4.97	2.29	0.46	1875	4.69	2.16	0.46	1956
29	26	5.57	1.89	0.34	1858	5.24	1.78	0.34	1940	4.92	1.67	0.34	2021
30	18	4.51	3.88	0.86	1597	4.14	3.56	0.86	1695	3.82	3.28	0.86	1760
30	20	4.74	3.51	0.74	1663	4.42	3.27	0.74	1744	4.09	3.03	0.74	1842
30	22	5.01	3.11	0.62	1728	4.69	2.91	0.62	1826	4.37	2.71	0.62	1891
30	24	5.29	2.65	0.50	1793	4.97	2.48	0.50	1875	4.69	2.35	0.50	1956
30	26	5.57	2.12	0.38	1858	5.24	1.99	0.38	1940	4.92	1.87	0.38	2021
31	18	4.51	4.06	0.90	1597	4.14	3.73	0.90	1695	3.82	3.44	0.90	1760
31	20	4.74	3.70	0.78	1663	4.42	3.44	0.78	1744	4.09	3.19	0.78	1842
31	22	5.01	3.31	0.66	1728	4.69	3.10	0.66	1826	4.37	2.88	0.66	1891
31	24	5.29	2.86	0.54	1793	4.97	2.68	0.54	1875	4.69	2.53	0.54	1956
31	26	5.57	2.34	0.42	1858	5.24	2.20	0.42	1940	4.92	2.07	0.42	2021
32	18	4.51	4.24	0.94	1597	4.14	3.89	0.94	1695	3.82	3.59	0.94	1760
32	20	4.74	3.89	0.82	1663	4.42	3.62	0.82	1744	4.09	3.36	0.82	1842
32	22	5.01	3.51	0.70	1728	4.69	3.28	0.70	1826	4.37	3.06	0.70	1891
32	24	5.29	3.07	0.58	1793	4.97	2.88	0.58	1875	4.69	2.72	0.58	1956
32	26	5.57	2.56	0.46	1858	5.24	2.41	0.46	1940	4.92	2.26	0.46	2021

NOTE Q : Total capacity (kW) SHF : Sensible heat factor DB : Dry-bulb temperature
SHC : Sensible heat capacity (kW) INPUT : Total power input (W) WB : Wet-bulb temperature

PERFORMANCE DATA
COOLING operation Rated frequency 57Hz
SEZ-A09CR.W / SUZ-A09VR.TH
CAPACITY : 2.4(kW) INPUT : 740(W) SHF : 0.78

		OUTDOOR D.B.(℃)															
INDOOR	INDOOR	21				25				27				30			
D.B.(℃)	W.B.(℃)	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT
21	18	2.82	1.69	0.60	592	2.70	1.62	0.60	622	2.59	1.56	0.60	651	2.50	1.50	0.60	681
21	20	2.94	1.41	0.48	622	2.82	1.35	0.48	659	2.74	1.31	0.48	673	2.64	1.27	0.48	703
22	18	2.82	1.80	0.64	592	2.70	1.73	0.64	622	2.59	1.66	0.64	651	2.50	1.60	0.64	681
22	20	2.94	1.53	0.52	622	2.82	1.47	0.52	659	2.74	1.42	0.52	673	2.64	1.37	0.52	703
22	22	3.06	1.22	0.40	644	2.95	1.18	0.40	685	2.88	1.15	0.40	703	2.76	1.10	0.40	733
23	18	2.82	1.92	0.68	592	2.70	1.84	0.68	622	2.59	1.76	0.68	651	2.50	1.70	0.68	681
23	20	2.94	1.65	0.56	622	2.82	1.58	0.56	659	2.74	1.53	0.56	673	2.64	1.48	0.56	703
23	22	3.06	1.35	0.44	644	2.95	1.30	0.44	685	2.88	1.27	0.44	703	2.76	1.21	0.44	733
24	18	2.82	2.03	0.72	592	2.70	1.94	0.72	622	2.59	1.87	0.72	651	2.50	1.80	0.72	681
24	20	2.94	1.76	0.60	622	2.82	1.69	0.60	659	2.74	1.64	0.60	673	2.64	1.58	0.60	703
24	22	3.06	1.47	0.48	644	2.95	1.42	0.48	685	2.88	1.38	0.48	703	2.76	1.32	0.48	733
24	24	3.22	1.16	0.36	673	3.10	1.11	0.36	710	3.02	1.09	0.36	733	2.93	1.05	0.36	770
25	20	2.94	1.88	0.64	622	2.82	1.80	0.64	659	2.74	1.75	0.64	673	2.64	1.69	0.64	703
25	22	3.06	1.59	0.52	644	2.95	1.54	0.52	685	2.88	1.50	0.52	703	2.76	1.44	0.52	733
25	24	3.22	1.29	0.40	673	3.10	1.24	0.40	710	3.02	1.21	0.40	733	2.93	1.17	0.40	770
26	18	2.82	2.26	0.80	592	2.70	2.16	0.80	622	2.59	2.07	0.80	651	2.50	2.00	0.80	681
26	20	2.94	2.00	0.68	622	2.82	1.92	0.68	659	2.74	1.86	0.68	673	2.64	1.80	0.68	703
26	22	3.06	1.71	0.56	644	2.95	1.65	0.56	685	2.88	1.61	0.56	703	2.76	1.55	0.56	733
26	24	3.22	1.42	0.44	673	3.10	1.36	0.44	710	3.02	1.33	0.44	733	2.93	1.29	0.44	770
26	26	3.31	1.06	0.32	710	3.22	1.03	0.32	747	3.17	1.01	0.32	770	3.07	0.98	0.32	792
27	18	2.82	2.37	0.84	592	2.70	2.27	0.84	622	2.59	2.18	0.84	651	2.50	2.10	0.84	681
27	20	2.94	2.12	0.72	622	2.82	2.03	0.72	659	2.74	1.97	0.72	673	2.64	1.90	0.72	703
27	22	3.06	1.84	0.60	644	2.95	1.77	0.60	685	2.88	1.73	0.60	703	2.76	1.66	0.60	733
27	24	3.22	1.54	0.48	673	3.10	1.49	0.48	710	3.02	1.45	0.48	733	2.93	1.41	0.48	770
27	26	3.31	1.19	0.36	710	3.22	1.16	0.36	747	3.17	1.14	0.36	770	3.07	1.11	0.36	792
28	18	2.82	2.48	0.88	592	2.70	2.38	0.88	622	2.59	2.28	0.88	651	2.50	2.20	0.88	681
28	20	2.94	2.23	0.76	622	2.82	2.14	0.76	659	2.74	2.08	0.76	673	2.64	2.01	0.76	703
28	22	3.06	1.96	0.64	644	2.95	1.89	0.64	685	2.88	1.84	0.64	703	2.76	1.77	0.64	733
28	24	3.22	1.67	0.52	673	3.10	1.61	0.52	710	3.02	1.57	0.52	733	2.93	1.52	0.52	770
28	26	3.31	1.32	0.40	710	3.22	1.29	0.40	747	3.17	1.27	0.40	770	3.07	1.23	0.40	792
29	18	2.82	2.59	0.92	592	2.70	2.48	0.92	622	2.59	2.38	0.92	651	2.50	2.30	0.92	681
29	20	2.94	2.35	0.80	622	2.82	2.26	0.80	659	2.74	2.19	0.80	673	2.64	2.11	0.80	703
29	22	3.06	2.08	0.68	644	2.95	2.01	0.68	685	2.88	1.96	0.68	703	2.76	1.88	0.68	733
29	24	3.22	1.80	0.56	673	3.10	1.73	0.56	710	3.02	1.69	0.56	733	2.93	1.64	0.56	770
29	26	3.31	1.46	0.44	710	3.22	1.42	0.44	747	3.17	1.39	0.44	770	3.07	1.35	0.44	792
30	18	2.82	2.71	0.96	592	2.70	2.59	0.96	622	2.59	2.49	0.96	651	2.50	2.40	0.96	681
30	20	2.94	2.47	0.84	622	2.82	2.37	0.84	659	2.74	2.30	0.84	673	2.64	2.22	0.84	703
30	22	3.06	2.20	0.72	644	2.95	2.13	0.72	685	2.88	2.07	0.72	703	2.76	1.99	0.72	733
30	24	3.22	1.93	0.60	673	3.10	1.86	0.60	710	3.02	1.81	0.60	733	2.93	1.76	0.60	770
30	26	3.31	1.59	0.48	710	3.22	1.54	0.48	747	3.17	1.52	0.48	770	3.07	1.47	0.48	792
31	18	2.82	2.82	1.00	592	2.70	2.70	1.00	622	2.59	2.59	1.00	651	2.50	2.50	1.00	681
31	20	2.94	2.59	0.88	622	2.82	2.48	0.88	659	2.74	2.41	0.88	673	2.64	2.32	0.88	703
31	22	3.06	2.33	0.76	644	2.95	2.24	0.76	685	2.88	2.19	0.76	703	2.76	2.10	0.76	733
31	24	3.22	2.06	0.64	673	3.10	1.98	0.64	710	3.02	1.94	0.64	733	2.93	1.87	0.64	770
31	26	3.31	1.72	0.52	710	3.22	1.67	0.52	747	3.17	1.65	0.52	770	3.07	1.60	0.52	792
32	18	2.82	2.93	1.04	592	2.70	2.81	1.04	622	2.59	2.70	1.04	651	2.50	2.60	1.04	681
32	20	2.94	2.70	0.92	622	2.82	2.59	0.92	659	2.74	2.52	0.92	673	2.64	2.43	0.92	703
32	22	3.06	2.45	0.80	644	2.95	2.36	0.80	685	2.88	2.30	0.80	703	2.76	2.21	0.80	733
32	24	3.22	2.19	0.68	673	3.10	2.11	0.68	710	3.02	2.06	0.68	733	2.93	1.99	0.68	770
32	26	3.31	1.85	0.56	710	3.22	1.80	0.56	747	3.17	1.77	0.56	770	3.07	1.72	0.56	792

NOTE Q : Total capacity (kW) SHF : Sensible heat factor DB : Dry-bulb temperature
SHC : Sensible heat capacity (kW) INPUT : Total power input (W) WB : Wet-bulb temperature

PERFORMANCE DATA
COOLING operation Rated frequency 57Hz
SEZ-A09CR.W / SUZ-A09VR.TH
CAPACITY : 2.4(kW) INPUT : 740(W) SHF : 0.78

		OUTDOOR D.B.(℃)											
INDOOR	INDOOR	35				40				46			
D.B.(℃)	W.B.(℃)	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT
21	18	2.35	1.41	0.60	725	2.16	1.30	0.60	770	1.99	1.20	0.60	799
21	20	2.47	1.19	0.48	755	2.30	1.11	0.48	792	2.14	1.03	0.48	836
22	18	2.35	1.51	0.64	725	2.16	1.38	0.64	770	1.99	1.27	0.64	799
22	20	2.47	1.29	0.52	755	2.30	1.20	0.52	792	2.14	1.11	0.52	836
22	22	2.62	1.05	0.40	784	2.45	0.98	0.40	829	2.28	0.91	0.40	858
23	18	2.35	1.60	0.68	725	2.16	1.47	0.68	770	1.99	1.35	0.68	799
23	20	2.47	1.38	0.56	755	2.30	1.29	0.56	792	2.14	1.20	0.56	836
23	22	2.62	1.15	0.44	784	2.45	1.08	0.44	829	2.28	1.00	0.44	858
24	18	2.35	1.69	0.72	725	2.16	1.56	0.72	770	1.99	1.43	0.72	799
24	20	2.47	1.48	0.60	755	2.30	1.38	0.60	792	2.14	1.28	0.60	836
24	22	2.62	1.26	0.48	784	2.45	1.18	0.48	829	2.28	1.09	0.48	858
24	24	2.76	0.99	0.36	814	2.59	0.93	0.36	851	2.45	0.88	0.36	888
25	20	2.47	1.58	0.64	755	2.30	1.47	0.64	792	2.14	1.37	0.64	836
25	22	2.62	1.36	0.52	784	2.45	1.27	0.52	829	2.28	1.19	0.52	858
25	24	2.76	1.10	0.40	814	2.59	1.04	0.40	851	2.45	0.98	0.40	888
26	18	2.35	1.88	0.80	725	2.16	1.73	0.80	770	1.99	1.59	0.80	799
26	20	2.47	1.68	0.68	755	2.30	1.57	0.68	792	2.14	1.45	0.68	836
26	22	2.62	1.46	0.56	784	2.45	1.37	0.56	829	2.28	1.28	0.56	858
26	24	2.76	1.21	0.44	814	2.59	1.14	0.44	851	2.45	1.08	0.44	888
26	26	2.90	0.93	0.32	844	2.74	0.88	0.32	881	2.57	0.82	0.32	918
27	18	2.35	1.98	0.84	725	2.16	1.81	0.84	770	1.99	1.67	0.84	799
27	20	2.47	1.78	0.72	755	2.30	1.66	0.72	792	2.14	1.54	0.72	836
27	22	2.62	1.57	0.60	784	2.45	1.47	0.60	829	2.28	1.37	0.60	858
27	24	2.76	1.32	0.48	814	2.59	1.24	0.48	851	2.45	1.18	0.48	888
27	26	2.90	1.05	0.36	844	2.74	0.98	0.36	881	2.57	0.92	0.36	918
28	18	2.35	2.07	0.88	725	2.16	1.90	0.88	770	1.99	1.75	0.88	799
28	20	2.47	1.88	0.76	755	2.30	1.75	0.76	792	2.14	1.62	0.76	836
28	22	2.62	1.67	0.64	784	2.45	1.57	0.64	829	2.28	1.46	0.64	858
28	24	2.76	1.44	0.52	814	2.59	1.35	0.52	851	2.45	1.27	0.52	888
28	26	2.90	1.16	0.40	844	2.74	1.09	0.40	881	2.57	1.03	0.40	918
29	18	2.35	2.16	0.92	725	2.16	1.99	0.92	770	1.99	1.83	0.92	799
29	20	2.47	1.98	0.80	755	2.30	1.84	0.80	792	2.14	1.71	0.80	836
29	22	2.62	1.78	0.68	784	2.45	1.66	0.68	829	2.28	1.55	0.68	858
29	24	2.76	1.55	0.56	814	2.59	1.45	0.56	851	2.45	1.37	0.56	888
29	26	2.90	1.28	0.44	844	2.74	1.20	0.44	881	2.57	1.13	0.44	918
30	18	2.35	2.26	0.96	725	2.16	2.07	0.96	770	1.99	1.91	0.96	799
30	20	2.47	2.08	0.84	755	2.30	1.94	0.84	792	2.14	1.79	0.84	836
30	22	2.62	1.88	0.72	784	2.45	1.76	0.72	829	2.28	1.64	0.72	858
30	24	2.76	1.66	0.60	814	2.59	1.56	0.60	851	2.45	1.47	0.60	888
30	26	2.90	1.39	0.48	844	2.74	1.31	0.48	881	2.57	1.23	0.48	918
31	18	2.35	2.35	1.00	725	2.16	2.16	1.00	770	1.99	1.99	1.00	799
31	20	2.47	2.18	0.88	755	2.30	2.03	0.88	792	2.14	1.88	0.88	836
31	22	2.62	1.99	0.76	784	2.45	1.86	0.76	829	2.28	1.73	0.76	858
31	24	2.76	1.77	0.64	814	2.59	1.66	0.64	851	2.45	1.57	0.64	888
31	26	2.90	1.51	0.52	844	2.74	1.42	0.52	881	2.57	1.34	0.52	918
32	18	2.35	2.45	1.04	725	2.16	2.25	1.04	770	1.99	2.07	1.04	799
32	20	2.47	2.27	0.92	755	2.30	2.12	0.92	792	2.14	1.97	0.92	836
32	22	2.62	2.09	0.80	784	2.45	1.96	0.80	829	2.28	1.82	0.80	858
32	24	2.76	1.88	0.68	814	2.59	1.76	0.68	851	2.45	1.66	0.68	888
32	26	2.90	1.63	0.56	844	2.74	1.53	0.56	881	2.57	1.44	0.56	918

NOTE Q : Total capacity (kW) SHF : Sensible heat factor DB : Dry-bulb temperature
SHC : Sensible heat capacity (kW) INPUT : Total power input (W) WB : Wet-bulb temperature

PERFORMANCE DATA
COOLING operation Rated frequency 67Hz
SEZ-A12AR.TH / SUZ-A12VR.TH
CAPACITY : 3.4(kW) INPUT : 1090(W) SHF : 0.79

		OUTDOOR D.B.(℃)															
INDOOR	INDOOR	21				25				27				30			
D.B.(℃)	W.B.(℃)	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT
21	18	4.00	2.44	0.61	872	3.83	2.33	0.61	916	3.67	0.61	0.61	959	3.54	2.16	0.61	1003
21	20	4.17	2.04	0.49	916	4.00	1.96	0.49	970	3.88	0.49	0.49	992	3.74	1.83	0.49	1036
22	18	4.00	2.60	0.65	872	3.83	2.49	0.65	916	3.67	0.65	0.65	959	3.54	2.30	0.65	1003
22	20	4.17	2.21	0.53	916	4.00	2.12	0.53	970	3.88	0.53	0.53	992	3.74	1.98	0.53	1036
22	22	4.34	1.78	0.41	948	4.18	1.71	0.41	1008	4.08	0.41	0.41	1036	3.91	1.60	0.41	1079
23	18	4.00	2.76	0.69	872	3.83	2.64	0.69	916	3.67	0.69	0.69	959	3.54	2.44	0.69	1003
23	20	4.17	2.37	0.57	916	4.00	2.28	0.57	970	3.88	0.57	0.57	992	3.74	2.13	0.57	1036
23	22	4.34	1.95	0.45	948	4.18	1.88	0.45	1008	4.08	0.45	0.45	1036	3.91	1.76	0.45	1079
24	18	4.00	2.92	0.73	872	3.83	2.79	0.73	916	3.67	0.73	0.73	959	3.54	2.58	0.73	1003
24	20	4.17	2.54	0.61	916	4.00	2.44	0.61	970	3.88	0.61	0.61	992	3.74	2.28	0.61	1036
24	22	4.34	2.12	0.49	948	4.18	2.05	0.49	1008	4.08	0.49	0.49	1036	3.91	1.92	0.49	1079
24	24	4.56	1.69	0.37	992	4.39	1.62	0.37	1046	4.28	0.37	0.37	1079	4.15	1.53	0.37	1134
25	20	4.17	2.71	0.65	916	4.00	2.60	0.65	970	3.88	0.65	0.65	992	3.74	2.43	0.65	1036
25	22	4.34	2.30	0.53	948	4.18	2.22	0.53	1008	4.08	0.53	0.53	1036	3.91	2.07	0.53	1079
25	24	4.56	1.87	0.41	992	4.39	1.80	0.41	1046	4.28	0.41	0.41	1079	4.15	1.70	0.41	1134
26	18	4.00	3.24	0.81	872	3.83	3.10	0.81	916	3.67	0.81	0.81	959	3.54	2.86	0.81	1003
26	20	4.17	2.87	0.69	916	4.00	2.76	0.69	970	3.88	0.69	0.69	992	3.74	2.58	0.69	1036
26	22	4.34	2.47	0.57	948	4.18	2.38	0.57	1008	4.08	0.57	0.57	1036	3.91	2.23	0.57	1079
26	24	4.56	2.05	0.45	992	4.39	1.97	0.45	1046	4.28	0.45	0.45	1079	4.15	1.87	0.45	1134
26	26	4.69	1.55	0.33	1046	4.56	1.50	0.33	1101	4.49	0.33	0.33	1134	4.35	1.44	0.33	1166
27	18	4.00	3.40	0.85	872	3.83	3.25	0.85	916	3.67	0.85	0.85	959	3.54	3.01	0.85	1003
27	20	4.17	3.04	0.73	916	4.00	2.92	0.73	970	3.88	0.73	0.73	992	3.74	2.73	0.73	1036
27	22	4.34	2.64	0.61	948	4.18	2.55	0.61	1008	4.08	0.61	0.61	1036	3.91	2.39	0.61	1079
27	24	4.56	2.23	0.49	992	4.39	2.15	0.49	1046	4.28	0.49	0.49	1079	4.15	2.03	0.49	1134
27	26	4.69	1.74	0.37	1046	4.56	1.69	0.37	1101	4.49	0.37	0.37	1134	4.35	1.61	0.37	1166
28	18	4.00	3.56	0.89	872	3.83	3.40	0.89	916	3.67	0.89	0.89	959	3.54	3.15	0.89	1003
28	20	4.17	3.21	0.77	916	4.00	3.08	0.77	970	3.88	0.77	0.77	992	3.74	2.88	0.77	1036
28	22	4.34	2.82	0.65	948	4.18	2.72	0.65	1008	4.08	0.65	0.65	1036	3.91	2.54	0.65	1079
28	24	4.56	2.41	0.53	992	4.39	2.32	0.53	1046	4.28	0.53	0.53	1079	4.15	2.20	0.53	1134
28	26	4.69	1.92	0.41	1046	4.56	1.87	0.41	1101	4.49	0.41	0.41	1134	4.35	1.78	0.41	1166
29	18	4.00	3.72	0.93	872	3.83	3.56	0.93	916	3.67	0.93	0.93	959	3.54	3.29	0.93	1003
29	20	4.17	3.37	0.81	916	4.00	3.24	0.81	970	3.88	0.81	0.81	992	3.74	3.03	0.81	1036
29	22	4.34	2.99	0.69	948	4.18	2.89	0.69	1008	4.08	0.69	0.69	1036	3.91	2.70	0.69	1079
29	24	4.56	2.60	0.57	992	4.39	2.50	0.57	1046	4.28	0.57	0.57	1079	4.15	2.36	0.57	1134
29	26	4.69	2.11	0.45	1046	4.56	2.05	0.45	1101	4.49	0.45	0.45	1134	4.35	1.96	0.45	1166
30	18	4.00	3.88	0.97	872	3.83	3.71	0.97	916	3.67	0.97	0.97	959	3.54	3.43	0.97	1003
30	20	4.17	3.54	0.85	916	4.00	3.40	0.85	970	3.88	0.85	0.85	992	3.74	3.18	0.85	1036
30	22	4.34	3.16	0.73	948	4.18	3.05	0.73	1008	4.08	0.73	0.73	1036	3.91	2.85	0.73	1079
30	24	4.56	2.78	0.61	992	4.39	2.68	0.61	1046	4.28	0.61	0.61	1079	4.15	2.53	0.61	1134
30	26	4.69	2.30	0.49	1046	4.56	2.23	0.49	1101	4.49	0.49	0.49	1134	4.35	2.13	0.49	1166
31	18	4.00	4.03	1.01	872	3.83	3.86	1.01	916	3.67	1.01	1.01	959	3.54	3.57	1.01	1003
31	20	4.17	3.71	0.89	916	4.00	3.56	0.89	970	3.88	0.89	0.89	992	3.74	3.33	0.89	1036
31	22	4.34	3.34	0.77	948	4.18	3.22	0.77	1008	4.08	0.77	0.77	1036	3.91	3.01	0.77	1079
31	24	4.56	2.96	0.65	992	4.39	2.85	0.65	1046	4.28	0.65	0.65	1079	4.15	2.70	0.65	1134
31	26	4.69	2.49	0.53	1046	4.56	2.41	0.53	1101	4.49	0.53	0.53	1134	4.35	2.31	0.53	1166
32	18	4.00	4.19	1.05	872	3.83	4.02	1.05	916	3.67	1.05	1.05	959	3.54	3.71	1.05	1003
32	20	4.17	3.87	0.93	916	4.00	3.72	0.93	970	3.88	0.93	0.93	992	3.74	3.48	0.93	1036
32	22	4.34	3.51	0.81	948	4.18	3.39	0.81	1008	4.08	0.81	0.81	1036	3.91	3.17	0.81	1079
32	24	4.56	3.14	0.69	992	4.39	3.03	0.69	1046	4.28	0.69	0.69	1079	4.15	2.86	0.69	1134
32	26	4.69	2.67	0.57	1046	4.56	2.60	0.57	1101	4.49	0.57	0.57	1134	4.35	2.48	0.57	1166

NOTE Q : Total capacity (kW) SHF : Sensible heat factor DB : Dry-bulb temperature
SHC : Sensible heat capacity (kW) INPUT : Total power input (W) WB : Wet-bulb temperature

PERFORMANCE DATA
COOLING operation Rated frequency 67Hz
SEZ-A12AR.TH / SUZ-A12VR.TH
CAPACITY : 3.4(kW) INPUT : 1090(W) SHF : 0.79

		OUTDOOR D.B.(℃)											
INDOOR	INDOOR	35				40				46			
D.B.(℃)	W.B.(℃)	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT
21	18	3.33	2.03	0.61	1068	3.06	1.87	0.61	1134	2.82	1.72	0.61	1177
21	20	3.50	1.72	0.49	1112	3.26	1.60	0.49	1166	3.03	1.48	0.49	1232
22	18	3.33	2.17	0.65	1068	3.06	1.99	0.65	1134	2.82	1.83	0.65	1177
22	20	3.50	1.86	0.53	1112	3.26	1.73	0.53	1166	3.03	1.60	0.53	1232
22	22	3.71	1.52	0.41	1155	3.47	1.42	0.41	1221	3.23	1.32	0.41	1264
23	18	3.33	2.30	0.69	1068	3.06	2.11	0.69	1134	2.82	1.95	0.69	1177
23	20	3.50	2.00	0.57	1112	3.26	1.86	0.57	1166	3.03	1.72	0.57	1232
23	22	3.71	1.67	0.45	1155	3.47	1.56	0.45	1221	3.23	1.45	0.45	1264
24	18	3.33	2.43	0.73	1068	3.06	2.23	0.73	1134	2.82	2.06	0.73	1177
24	20	3.50	2.14	0.61	1112	3.26	1.99	0.61	1166	3.03	1.85	0.61	1232
24	22	3.71	1.82	0.49	1155	3.47	1.70	0.49	1221	3.23	1.58	0.49	1264
24	24	3.91	1.45	0.37	1199	3.67	1.36	0.37	1254	3.47	1.28	0.37	1308
25	20	3.50	2.28	0.65	1112	3.26	2.12	0.65	1166	3.03	1.97	0.65	1232
25	22	3.71	1.96	0.53	1155	3.47	1.84	0.53	1221	3.23	1.71	0.53	1264
25	24	3.91	1.60	0.41	1199	3.67	1.51	0.41	1254	3.47	1.42	0.41	1308
26	18	3.33	2.70	0.81	1068	3.06	2.48	0.81	1134	2.82	2.29	0.81	1177
26	20	3.50	2.42	0.69	1112	3.26	2.25	0.69	1166	3.03	2.09	0.69	1232
26	22	3.71	2.11	0.57	1155	3.47	1.98	0.57	1221	3.23	1.84	0.57	1264
26	24	3.91	1.76	0.45	1199	3.67	1.65	0.45	1254	3.47	1.56	0.45	1308
26	26	4.11	1.36	0.33	1243	3.88	1.28	0.33	1297	3.64	1.20	0.33	1352
27	18	3.33	2.83	0.85	1068	3.06	2.60	0.85	1134	2.82	2.40	0.85	1177
27	20	3.50	2.56	0.73	1112	3.26	2.38	0.73	1166	3.03	2.21	0.73	1232
27	22	3.71	2.26	0.61	1155	3.47	2.12	0.61	1221	3.23	1.97	0.61	1264
27	24	3.91	1.92	0.49	1199	3.67	1.80	0.49	1254	3.47	1.70	0.49	1308
27	26	4.11	1.52	0.37	1243	3.88	1.43	0.37	1297	3.64	1.35	0.37	1352
28	18	3.33	2.97	0.89	1068	3.06	2.72	0.89	1134	2.82	2.51	0.89	1177
28	20	3.50	2.70	0.77	1112	3.26	2.51	0.77	1166	3.03	2.33	0.77	1232
28	22	3.71	2.41	0.65	1155	3.47	2.25	0.65	1221	3.23	2.10	0.65	1264
28	24	3.91	2.07	0.53	1199	3.67	1.95	0.53	1254	3.47	1.84	0.53	1308
28	26	4.11	1.69	0.41	1243	3.88	1.59	0.41	1297	3.64	1.49	0.41	1352
29	18	3.33	3.10	0.93	1068	3.06	2.85	0.93	1134	2.82	2.62	0.93	1177
29	20	3.50	2.84	0.81	1112	3.26	2.64	0.81	1166	3.03	2.45	0.81	1232
29	22	3.71	2.56	0.69	1155	3.47	2.39	0.69	1221	3.23	2.23	0.69	1264
29	24	3.91	2.23	0.57	1199	3.67	2.09	0.57	1254	3.47	1.98	0.57	1308
29	26	4.11	1.85	0.45	1243	3.88	1.74	0.45	1297	3.64	1.64	0.45	1352
30	18	3.33	3.23	0.97	1068	3.06	2.97	0.97	1134	2.82	2.74	0.97	1177
30	20	3.50	2.98	0.85	1112	3.26	2.77	0.85	1166	3.03	2.57	0.85	1232
30	22	3.71	2.71	0.73	1155	3.47	2.53	0.73	1221	3.23	2.36	0.73	1264
30	24	3.91	2.39	0.61	1199	3.67	2.24	0.61	1254	3.47	2.12	0.61	1308
30	26	4.11	2.02	0.49	1243	3.88	1.90	0.49	1297	3.64	1.78	0.49	1352
31	18	3.33	3.37	1.01	1068	3.06	3.09	1.01	1134	2.82	2.85	1.01	1177
31	20	3.50	3.12	0.89	1112	3.26	2.90	0.89	1166	3.03	2.69	0.89	1232
31	22	3.71	2.85	0.77	1155	3.47	2.67	0.77	1221	3.23	2.49	0.77	1264
31	24	3.91	2.54	0.65	1199	3.67	2.39	0.65	1254	3.47	2.25	0.65	1308
31	26	4.11	2.18	0.53	1243	3.88	2.05	0.53	1297	3.64	1.93	0.53	1352
32	18	3.33	3.50	1.05	1068	3.06	3.21	1.05	1134	2.82	2.96	1.05	1177
32	20	3.50	3.26	0.93	1112	3.26	3.04	0.93	1166	3.03	2.81	0.93	1232
32	22	3.71	3.00	0.81	1155	3.47	2.81	0.81	1221	3.23	2.62	0.81	1264
32	24	3.91	2.70	0.69	1199	3.67	2.53	0.69	1254	3.47	2.39	0.69	1308
32	26	4.11	2.34	0.57	1243	3.88	2.21	0.57	1297	3.64	2.07	0.57	1352

NOTE Q : Total capacity (kW) SHF : Sensible heat factor DB : Dry-bulb temperature
SHC : Sensible heat capacity (kW) INPUT : Total power input (W) WB : Wet-bulb temperature

PERFORMANCE DATA
COOLING operation Rated frequency 80Hz
SEZ-A18AR.TH / SUZ-A18VR.TH
CAPACITY : 5.0(kW) INPUT : 1780(W) SHF : 0.75

		OUTDOOR D.B.(℃)															
INDOOR	INDOOR	21				25				27				30			
D.B.(℃)	W.B.(℃)	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT
21	18	5.88	3.35	0.57	1424	5.63	3.21	0.57	1495	5.40	3.08	0.57	1566	5.20	2.96	0.57	1638
21	20	6.13	2.76	0.45	1495	5.88	2.64	0.45	1584	5.70	2.57	0.45	1620	5.50	2.48	0.45	1691
22	18	5.88	3.58	0.61	1424	5.63	3.43	0.61	1495	5.40	3.29	0.61	1566	5.20	3.17	0.61	1638
22	20	6.13	3.00	0.49	1495	5.88	2.88	0.49	1584	5.70	2.79	0.49	1620	5.50	2.70	0.49	1691
22	22	6.38	2.36	0.37	1549	6.15	2.28	0.37	1647	6.00	2.22	0.37	1691	5.75	2.13	0.37	1762
23	18	5.88	3.82	0.65	1424	5.63	3.66	0.65	1495	5.40	3.51	0.65	1566	5.20	3.38	0.65	1638
23	20	6.13	3.25	0.53	1495	5.88	3.11	0.53	1584	5.70	3.02	0.53	1620	5.50	2.92	0.53	1691
23	22	6.38	2.61	0.41	1549	6.15	2.52	0.41	1647	6.00	2.46	0.41	1691	5.75	2.36	0.41	1762
24	18	5.88	4.05	0.69	1424	5.63	3.88	0.69	1495	5.40	3.73	0.69	1566	5.20	3.59	0.69	1638
24	20	6.13	3.49	0.57	1495	5.88	3.35	0.57	1584	5.70	3.25	0.57	1620	5.50	3.14	0.57	1691
24	22	6.38	2.87	0.45	1549	6.15	2.77	0.45	1647	6.00	2.70	0.45	1691	5.75	2.59	0.45	1762
24	24	6.70	2.21	0.33	1620	6.45	2.13	0.33	1709	6.30	2.08	0.33	1762	6.10	2.01	0.33	1851
25	20	6.13	3.74	0.61	1495	5.88	3.58	0.61	1584	5.70	3.48	0.61	1620	5.50	3.36	0.61	1691
25	22	6.38	3.12	0.49	1549	6.15	3.01	0.49	1647	6.00	2.94	0.49	1691	5.75	2.82	0.49	1762
25	24	6.70	2.48	0.37	1620	6.45	2.39	0.37	1709	6.30	2.33	0.37	1762	6.10	2.26	0.37	1851
26	18	5.88	4.52	0.77	1424	5.63	4.33	0.77	1495	5.40	4.16	0.77	1566	5.20	4.00	0.77	1638
26	20	6.13	3.98	0.65	1495	5.88	3.82	0.65	1584	5.70	3.71	0.65	1620	5.50	3.58	0.65	1691
26	22	6.38	3.38	0.53	1549	6.15	3.26	0.53	1647	6.00	3.18	0.53	1691	5.75	3.05	0.53	1762
26	24	6.70	2.75	0.41	1620	6.45	2.64	0.41	1709	6.30	2.58	0.41	1762	6.10	2.50	0.41	1851
26	26	6.90	2.00	0.29	1709	6.70	1.94	0.29	1798	6.60	1.91	0.29	1851	6.40	1.86	0.29	1905
27	18	5.88	4.76	0.81	1424	5.63	4.56	0.81	1495	5.40	4.37	0.81	1566	5.20	4.21	0.81	1638
27	20	6.13	4.23	0.69	1495	5.88	4.05	0.69	1584	5.70	3.93	0.69	1620	5.50	3.80	0.69	1691
27	22	6.38	3.63	0.57	1549	6.15	3.51	0.57	1647	6.00	3.42	0.57	1691	5.75	3.28	0.57	1762
27	24	6.70	3.02	0.45	1620	6.45	2.90	0.45	1709	6.30	2.84	0.45	1762	6.10	2.75	0.45	1851
27	26	6.90	2.28	0.33	1709	6.70	2.21	0.33	1798	6.60	2.18	0.33	1851	6.40	2.11	0.33	1905
28	18	5.88	4.99	0.85	1424	5.63	4.78	0.85	1495	5.40	4.59	0.85	1566	5.20	4.42	0.85	1638
28	20	6.13	4.47	0.73	1495	5.88	4.29	0.73	1584	5.70	4.16	0.73	1620	5.50	4.02	0.73	1691
28	22	6.38	3.89	0.61	1549	6.15	3.75	0.61	1647	6.00	3.66	0.61	1691	5.75	3.51	0.61	1762
28	24	6.70	3.28	0.49	1620	6.45	3.16	0.49	1709	6.30	3.09	0.49	1762	6.10	2.99	0.49	1851
28	26	6.90	2.55	0.37	1709	6.70	2.48	0.37	1798	6.60	2.44	0.37	1851	6.40	2.37	0.37	1905
29	18	5.88	5.23	0.89	1424	5.63	5.01	0.89	1495	5.40	4.81	0.89	1566	5.20	4.63	0.89	1638
29	20	6.13	4.72	0.77	1495	5.88	4.52	0.77	1584	5.70	4.39	0.77	1620	5.50	4.24	0.77	1691
29	22	6.38	4.14	0.65	1549	6.15	4.00	0.65	1647	6.00	3.90	0.65	1691	5.75	3.74	0.65	1762
29	24	6.70	3.55	0.53	1620	6.45	3.42	0.53	1709	6.30	3.34	0.53	1762	6.10	3.23	0.53	1851
29	26	6.90	2.83	0.41	1709	6.70	2.75	0.41	1798	6.60	2.71	0.41	1851	6.40	2.62	0.41	1905
30	18	5.88	5.46	0.93	1424	5.63	5.23	0.93	1495	5.40	5.02	0.93	1566	5.20	4.84	0.93	1638
30	20	6.13	4.96	0.81	1495	5.88	4.76	0.81	1584	5.70	4.62	0.81	1620	5.50	4.46	0.81	1691
30	22	6.38	4.40	0.69	1549	6.15	4.24	0.69	1647	6.00	4.14	0.69	1691	5.75	3.97	0.69	1762
30	24	6.70	3.82	0.57	1620	6.45	3.68	0.57	1709	6.30	3.59	0.57	1762	6.10	3.48	0.57	1851
30	26	6.90	3.11	0.45	1709	6.70	3.02	0.45	1798	6.60	2.97	0.45	1851	6.40	2.88	0.45	1905
31	18	5.88	5.70	0.97	1424	5.63	5.46	0.97	1495	5.40	5.24	0.97	1566	5.20	5.04	0.97	1638
31	20	6.13	5.21	0.85	1495	5.88	4.99	0.85	1584	5.70	4.85	0.85	1620	5.50	4.68	0.85	1691
31	22	6.38	4.65	0.73	1549	6.15	4.49	0.73	1647	6.00	4.38	0.73	1691	5.75	4.20	0.73	1762
31	24	6.70	4.09	0.61	1620	6.45	3.93	0.61	1709	6.30	3.84	0.61	1762	6.10	3.72	0.61	1851
31	26	6.90	3.38	0.49	1709	6.70	3.28	0.49	1798	6.60	3.23	0.49	1851	6.40	3.14	0.49	1905
32	18	5.88	5.93	1.01	1424	5.63	5.68	1.01	1495	5.40	5.45	1.01	1566	5.20	5.25	1.01	1638
32	20	6.13	5.45	0.89	1495	5.88	5.23	0.89	1584	5.70	5.07	0.89	1620	5.50	4.90	0.89	1691
32	22	6.38	4.91	0.77	1549	6.15	4.74	0.77	1647	6.00	4.62	0.77	1691	5.75	4.43	0.77	1762
32	24	6.70	4.36	0.65	1620	6.45	4.19	0.65	1709	6.30	4.10	0.65	1762	6.10	3.97	0.65	1851
32	26	6.90	3.66	0.53	1709	6.70	3.55	0.53	1798	6.60	3.50	0.53	1851	6.40	3.39	0.53	1905

NOTE Q : Total capacity (kW) SHF : Sensible heat factor DB : Dry-bulb temperature
SHC : Sensible heat capacity (kW) INPUT : Total power input (W) WB : Wet-bulb temperature

PERFORMANCE DATA
COOLING operation Rated frequency 80Hz
SEZ-A18AR.TH / SUZ-A18VR.TH
CAPACITY : 5.0(kW) INPUT : 1780(W) SHF : 0.75

		OUTDOOR D.B.(℃)											
INDOOR	INDOOR	35				40				46			
D.B.(℃)	W.B.(℃)	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT
21	18	4.90	2.79	0.57	1744	4.50	2.57	0.57	1851	4.15	2.37	0.57	1922
21	20	5.15	2.32	0.45	1816	4.80	2.16	0.45	1905	4.45	2.00	0.45	2011
22	18	4.90	2.99	0.61	1744	4.50	2.75	0.61	1851	4.15	2.53	0.61	1922
22	20	5.15	2.52	0.49	1816	4.80	2.35	0.49	1905	4.45	2.18	0.49	2011
22	22	5.45	2.02	0.37	1887	5.10	1.89	0.37	1994	4.75	1.76	0.37	2065
23	18	4.90	3.19	0.65	1744	4.50	2.93	0.65	1851	4.15	2.70	0.65	1922
23	20	5.15	2.73	0.53	1816	4.80	2.54	0.53	1905	4.45	2.36	0.53	2011
23	22	5.45	2.23	0.41	1887	5.10	2.09	0.41	1994	4.75	1.95	0.41	2065
24	18	4.90	3.38	0.69	1744	4.50	3.11	0.69	1851	4.15	2.86	0.69	1922
24	20	5.15	2.94	0.57	1816	4.80	2.74	0.57	1905	4.45	2.54	0.57	2011
24	22	5.45	2.45	0.45	1887	5.10	2.30	0.45	1994	4.75	2.14	0.45	2065
24	24	5.75	1.90	0.33	1958	5.40	1.78	0.33	2047	5.10	1.68	0.33	2136
25	20	5.15	3.14	0.61	1816	4.80	2.93	0.61	1905	4.45	2.71	0.61	2011
25	22	5.45	2.67	0.49	1887	5.10	2.50	0.49	1994	4.75	2.33	0.49	2065
25	24	5.75	2.13	0.37	1958	5.40	2.00	0.37	2047	5.10	1.89	0.37	2136
26	18	4.90	3.77	0.77	1744	4.50	3.47	0.77	1851	4.15	3.20	0.77	1922
26	20	5.15	3.35	0.65	1816	4.80	3.12	0.65	1905	4.45	2.89	0.65	2011
26	22	5.45	2.89	0.53	1887	5.10	2.70	0.53	1994	4.75	2.52	0.53	2065
26	24	5.75	2.36	0.41	1958	5.40	2.21	0.41	2047	5.10	2.09	0.41	2136
26	26	6.05	1.75	0.29	2029	5.70	1.65	0.29	2118	5.35	1.55	0.29	2207
27	18	4.90	3.97	0.81	1744	4.50	3.65	0.81	1851	4.15	3.36	0.81	1922
27	20	5.15	3.55	0.69	1816	4.80	3.31	0.69	1905	4.45	3.07	0.69	2011
27	22	5.45	3.11	0.57	1887	5.10	2.91	0.57	1994	4.75	2.71	0.57	2065
27	24	5.75	2.59	0.45	1958	5.40	2.43	0.45	2047	5.10	2.30	0.45	2136
27	26	6.05	2.00	0.33	2029	5.70	1.88	0.33	2118	5.35	1.77	0.33	2207
28	18	4.90	4.17	0.85	1744	4.50	3.83	0.85	1851	4.15	3.53	0.85	1922
28	20	5.15	3.76	0.73	1816	4.80	3.50	0.73	1905	4.45	3.25	0.73	2011
28	22	5.45	3.32	0.61	1887	5.10	3.11	0.61	1994	4.75	2.90	0.61	2065
28	24	5.75	2.82	0.49	1958	5.40	2.65	0.49	2047	5.10	2.50	0.49	2136
28	26	6.05	2.24	0.37	2029	5.70	2.11	0.37	2118	5.35	1.98	0.37	2207
29	18	4.90	4.36	0.89	1744	4.50	4.01	0.89	1851	4.15	3.69	0.89	1922
29	20	5.15	3.97	0.77	1816	4.80	3.70	0.77	1905	4.45	3.43	0.77	2011
29	22	5.45	3.54	0.65	1887	5.10	3.32	0.65	1994	4.75	3.09	0.65	2065
29	24	5.75	3.05	0.53	1958	5.40	2.86	0.53	2047	5.10	2.70	0.53	2136
29	26	6.05	2.48	0.41	2029	5.70	2.34	0.41	2118	5.35	2.19	0.41	2207
30	18	4.90	4.56	0.93	1744	4.50	4.19	0.93	1851	4.15	3.86	0.93	1922
30	20	5.15	4.17	0.81	1816	4.80	3.89	0.81	1905	4.45	3.60	0.81	2011
30	22	5.45	3.76	0.69	1887	5.10	3.52	0.69	1994	4.75	3.28	0.69	2065
30	24	5.75	3.28	0.57	1958	5.40	3.08	0.57	2047	5.10	2.91	0.57	2136
30	26	6.05	2.72	0.45	2029	5.70	2.57	0.45	2118	5.35	2.41	0.45	2207
31	18	4.90	4.75	0.97	1744	4.50	4.37	0.97	1851	4.15	4.03	0.97	1922
31	20	5.15	4.38	0.85	1816	4.80	4.08	0.85	1905	4.45	3.78	0.85	2011
31	22	5.45	3.98	0.73	1887	5.10	3.72	0.73	1994	4.75	3.47	0.73	2065
31	24	5.75	3.51	0.61	1958	5.40	3.29	0.61	2047	5.10	3.11	0.61	2136
31	26	6.05	2.96	0.49	2029	5.70	2.79	0.49	2118	5.35	2.62	0.49	2207
32	18	4.90	4.95	1.01	1744	4.50	4.55	1.01	1851	4.15	4.19	1.01	1922
32	20	5.15	4.58	0.89	1816	4.80	4.27	0.89	1905	4.45	3.96	0.89	2011
32	22	5.45	4.20	0.77	1887	5.10	3.93	0.77	1994	4.75	3.66	0.77	2065
32	24	5.75	3.74	0.65	1958	5.40	3.51	0.65	2047	5.10	3.32	0.65	2136
32	26	6.05	3.21	0.53	2029	5.70	3.02	0.53	2118	5.35	2.84	0.53	2207

NOTE Q : Total capacity (kW) SHF : Sensible heat factor DB : Dry-bulb temperature
SHC : Sensible heat capacity (kW) INPUT : Total power input (W) WB : Wet-bulb temperature

PERFORMANCE DATA
COOLING operation Rated frequency 87Hz
SEZ-A24AR.TH / SUZ-A24VR.TH
CAPACITY : 5.5(kW) INPUT : 1960(W) SHF : 0.75

		OUTDOOR D.B.(℃)															
INDOOR	INDOOR	21				25				27				30			
D.B.(℃)	W.B.(℃)	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT
21	18	6.46	3.68	0.57	1568	6.19	3.53	0.57	1646	5.94	3.39	0.57	1725	5.72	3.26	0.57	1803
21	20	6.74	3.03	0.45	1646	6.46	2.91	0.45	1744	6.27	2.82	0.45	1784	6.05	2.72	0.45	1862
22	18	6.46	3.94	0.61	1568	6.19	3.77	0.61	1646	5.94	3.62	0.61	1725	5.72	3.49	0.61	1803
22	20	6.74	3.30	0.49	1646	6.46	3.17	0.49	1744	6.27	3.07	0.49	1784	6.05	2.96	0.49	1862
22	22	7.01	2.59	0.37	1705	6.77	2.50	0.37	1813	6.60	2.44	0.37	1862	6.33	2.34	0.37	1940
23	18	6.46	4.20	0.65	1568	6.19	4.02	0.65	1646	5.94	3.86	0.65	1725	5.72	3.72	0.65	1803
23	20	6.74	3.57	0.53	1646	6.46	3.43	0.53	1744	6.27	3.32	0.53	1784	6.05	3.21	0.53	1862
23	22	7.01	2.88	0.41	1705	6.77	2.77	0.41	1813	6.60	2.71	0.41	1862	6.33	2.59	0.41	1940
24	18	6.46	4.46	0.69	1568	6.19	4.27	0.69	1646	5.94	4.10	0.69	1725	5.72	3.95	0.69	1803
24	20	6.74	3.84	0.57	1646	6.46	3.68	0.57	1744	6.27	3.57	0.57	1784	6.05	3.45	0.57	1862
24	22	7.01	3.16	0.45	1705	6.77	3.04	0.45	1813	6.60	2.97	0.45	1862	6.33	2.85	0.45	1940
24	24	7.37	2.43	0.33	1784	7.10	2.34	0.33	1882	6.93	2.29	0.33	1940	6.71	2.21	0.33	2038
25	20	6.74	4.11	0.61	1646	6.46	3.94	0.61	1744	6.27	3.82	0.61	1784	6.05	3.69	0.61	1862
25	22	7.01	3.44	0.49	1705	6.77	3.31	0.49	1813	6.60	3.23	0.49	1862	6.33	3.10	0.49	1940
25	24	7.37	2.73	0.37	1784	7.10	2.63	0.37	1882	6.93	2.56	0.37	1940	6.71	2.48	0.37	2038
26	18	6.46	4.98	0.77	1568	6.19	4.76	0.77	1646	5.94	4.57	0.77	1725	5.72	4.40	0.77	1803
26	20	6.74	4.38	0.65	1646	6.46	4.20	0.65	1744	6.27	4.08	0.65	1784	6.05	3.93	0.65	1862
26	22	7.01	3.72	0.53	1705	6.77	3.59	0.53	1813	6.60	3.50	0.53	1862	6.33	3.35	0.53	1940
26	24	7.37	3.02	0.41	1784	7.10	2.91	0.41	1882	6.93	2.84	0.41	1940	6.71	2.75	0.41	2038
26	26	7.59	2.20	0.29	1882	7.37	2.14	0.29	1980	7.26	2.11	0.29	2038	7.04	2.04	0.29	2097
27	18	6.46	5.23	0.81	1568	6.19	5.01	0.81	1646	5.94	4.81	0.81	1725	5.72	4.63	0.81	1803
27	20	6.74	4.65	0.69	1646	6.46	4.46	0.69	1744	6.27	4.33	0.69	1784	6.05	4.17	0.69	1862
27	22	7.01	4.00	0.57	1705	6.77	3.86	0.57	1813	6.60	3.76	0.57	1862	6.33	3.61	0.57	1940
27	24	7.37	3.32	0.45	1784	7.10	3.19	0.45	1882	6.93	3.12	0.45	1940	6.71	3.02	0.45	2038
27	26	7.59	2.50	0.33	1882	7.37	2.43	0.33	1980	7.26	2.40	0.33	2038	7.04	2.32	0.33	2097
28	18	6.46	5.49	0.85	1568	6.19	5.26	0.85	1646	5.94	5.05	0.85	1725	5.72	4.86	0.85	1803
28	20	6.74	4.92	0.73	1646	6.46	4.72	0.73	1744	6.27	4.58	0.73	1784	6.05	4.42	0.73	1862
28	22	7.01	4.28	0.61	1705	6.77	4.13	0.61	1813	6.60	4.03	0.61	1862	6.33	3.86	0.61	1940
28	24	7.37	3.61	0.49	1784	7.10	3.48	0.49	1882	6.93	3.40	0.49	1940	6.71	3.29	0.49	2038
28	26	7.59	2.81	0.37	1882	7.37	2.73	0.37	1980	7.26	2.69	0.37	2038	7.04	2.60	0.37	2097
29	18	6.46	5.75	0.89	1568	6.19	5.51	0.89	1646	5.94	5.29	0.89	1725	5.72	5.09	0.89	1803
29	20	6.74	5.19	0.77	1646	6.46	4.98	0.77	1744	6.27	4.83	0.77	1784	6.05	4.66	0.77	1862
29	22	7.01	4.56	0.65	1705	6.77	4.40	0.65	1813	6.60	4.29	0.65	1862	6.33	4.11	0.65	1940
29	24	7.37	3.91	0.53	1784	7.10	3.76	0.53	1882	6.93	3.67	0.53	1940	6.71	3.56	0.53	2038
29	26	7.59	3.11	0.41	1882	7.37	3.02	0.41	1980	7.26	2.98	0.41	2038	7.04	2.89	0.41	2097
30	18	6.46	6.01	0.93	1568	6.19	5.75	0.93	1646	5.94	5.52	0.93	1725	5.72	5.32	0.93	1803
30	20	6.74	5.46	0.81	1646	6.46	5.23	0.81	1744	6.27	5.08	0.81	1784	6.05	4.90	0.81	1862
30	22	7.01	4.84	0.69	1705	6.77	4.67	0.69	1813	6.60	4.55	0.69	1862	6.33	4.36	0.69	1940
30	24	7.37	4.20	0.57	1784	7.10	4.04	0.57	1882	6.93	3.95	0.57	1940	6.71	3.82	0.57	2038
30	26	7.59	3.42	0.45	1882	7.37	3.32	0.45	1980	7.26	3.27	0.45	2038	7.04	3.17	0.45	2097
31	18	6.46	6.27	0.97	1568	6.19	6.00	0.97	1646	5.94	5.76	0.97	1725	5.72	5.55	0.97	1803
31	20	6.74	5.73	0.85	1646	6.46	5.49	0.85	1744	6.27	5.33	0.85	1784	6.05	5.14	0.85	1862
31	22	7.01	5.12	0.73	1705	6.77	4.94	0.73	1813	6.60	4.82	0.73	1862	6.33	4.62	0.73	1940
31	24	7.37	4.50	0.61	1784	7.10	4.33	0.61	1882	6.93	4.23	0.61	1940	6.71	4.09	0.61	2038
31	26	7.59	3.72	0.49	1882	7.37	3.61	0.49	1980	7.26	3.56	0.49	2038	7.04	3.45	0.49	2097
32	18	6.46	6.53	1.01	1568	6.19	6.25	1.01	1646	5.94	6.00	1.01	1725	5.72	5.78	1.01	1803
32	20	6.74	6.00	0.89	1646	6.46	5.75	0.89	1744	6.27	5.58	0.89	1784	6.05	5.38	0.89	1862
32	22	7.01	5.40	0.77	1705	6.77	5.21	0.77	1813	6.60	5.08	0.77	1862	6.33	4.87	0.77	1940
32	24	7.37	4.79	0.65	1784	7.10	4.61	0.65	1882	6.93	4.50	0.65	1940	6.71	4.36	0.65	2038
32	26	7.59	4.02	0.53	1882	7.37	3.91	0.53	1980	7.26	3.85	0.53	2038	7.04	3.73	0.53	2097

NOTE Q : Total capacity (kW) SHF : Sensible heat factor DB : Dry-bulb temperature
SHC : Sensible heat capacity (kW) INPUT : Total power input (W) WB : Wet-bulb temperature

PERFORMANCE DATA
COOLING operation Rated frequency 87Hz
SEZ-A24AR.TH / SUZ-A24VR.TH
CAPACITY : 5.5(kW) INPUT : 1960(W) SHF : 0.75

		OUTDOOR D.B.(℃)											
INDOOR	INDOOR	35				40				46			
D.B.(℃)	W.B.(℃)	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT
21	18	5.39	3.07	0.57	1921	4.95	2.82	0.57	2038	4.57	2.60	0.57	2117
21	20	5.67	2.55	0.45	1999	5.28	2.38	0.45	2097	4.90	2.20	0.45	2215
22	18	5.39	3.29	0.61	1921	4.95	3.02	0.61	2038	4.57	2.78	0.61	2117
22	20	5.67	2.78	0.49	1999	5.28	2.59	0.49	2097	4.90	2.40	0.49	2215
22	22	6.00	2.22	0.37	2078	5.61	2.08	0.37	2195	5.23	1.93	0.37	2274
23	18	5.39	3.50	0.65	1921	4.95	3.22	0.65	2038	4.57	2.97	0.65	2117
23	20	5.67	3.00	0.53	1999	5.28	2.80	0.53	2097	4.90	2.59	0.53	2215
23	22	6.00	2.46	0.41	2078	5.61	2.30	0.41	2195	5.23	2.14	0.41	2274
24	18	5.39	3.72	0.69	1921	4.95	3.42	0.69	2038	4.57	3.15	0.69	2117
24	20	5.67	3.23	0.57	1999	5.28	3.01	0.57	2097	4.90	2.79	0.57	2215
24	22	6.00	2.70	0.45	2078	5.61	2.52	0.45	2195	5.23	2.35	0.45	2274
24	24	6.33	2.09	0.33	2156	5.94	1.96	0.33	2254	5.61	1.85	0.33	2352
25	20	5.67	3.46	0.61	1999	5.28	3.22	0.61	2097	4.90	2.99	0.61	2215
25	22	6.00	2.94	0.49	2078	5.61	2.75	0.49	2195	5.23	2.56	0.49	2274
25	24	6.33	2.34	0.37	2156	5.94	2.20	0.37	2254	5.61	2.08	0.37	2352
26	18	5.39	4.15	0.77	1921	4.95	3.81	0.77	2038	4.57	3.52	0.77	2117
26	20	5.67	3.68	0.65	1999	5.28	3.43	0.65	2097	4.90	3.18	0.65	2215
26	22	6.00	3.18	0.53	2078	5.61	2.97	0.53	2195	5.23	2.77	0.53	2274
26	24	6.33	2.59	0.41	2156	5.94	2.44	0.41	2254	5.61	2.30	0.41	2352
26	26	6.66	1.93	0.29	2234	6.27	1.82	0.29	2332	5.89	1.71	0.29	2430
27	18	5.39	4.37	0.81	1921	4.95	4.01	0.81	2038	4.57	3.70	0.81	2117
27	20	5.67	3.91	0.69	1999	5.28	3.64	0.69	2097	4.90	3.38	0.69	2215
27	22	6.00	3.42	0.57	2078	5.61	3.20	0.57	2195	5.23	2.98	0.57	2274
27	24	6.33	2.85	0.45	2156	5.94	2.67	0.45	2254	5.61	2.52	0.45	2352
27	26	6.66	2.20	0.33	2234	6.27	2.07	0.33	2332	5.89	1.94	0.33	2430
28	18	5.39	4.58	0.85	1921	4.95	4.21	0.85	2038	4.57	3.88	0.85	2117
28	20	5.67	4.14	0.73	1999	5.28	3.85	0.73	2097	4.90	3.57	0.73	2215
28	22	6.00	3.66	0.61	2078	5.61	3.42	0.61	2195	5.23	3.19	0.61	2274
28	24	6.33	3.10	0.49	2156	5.94	2.91	0.49	2254	5.61	2.75	0.49	2352
28	26	6.66	2.46	0.37	2234	6.27	2.32	0.37	2332	5.89	2.18	0.37	2430
29	18	5.39	4.80	0.89	1921	4.95	4.41	0.89	2038	4.57	4.06	0.89	2117
29	20	5.67	4.36	0.77	1999	5.28	4.07	0.77	2097	4.90	3.77	0.77	2215
29	22	6.00	3.90	0.65	2078	5.61	3.65	0.65	2195	5.23	3.40	0.65	2274
29	24	6.33	3.35	0.53	2156	5.94	3.15	0.53	2254	5.61	2.97	0.53	2352
29	26	6.66	2.73	0.41	2234	6.27	2.57	0.41	2332	5.89	2.41	0.41	2430
30	18	5.39	5.01	0.93	1921	4.95	4.60	0.93	2038	4.57	4.25	0.93	2117
30	20	5.67	4.59	0.81	1999	5.28	4.28	0.81	2097	4.90	3.96	0.81	2215
30	22	6.00	4.14	0.69	2078	5.61	3.87	0.69	2195	5.23	3.61	0.69	2274
30	24	6.33	3.61	0.57	2156	5.94	3.39	0.57	2254	5.61	3.20	0.57	2352
30	26	6.66	2.99	0.45	2234	6.27	2.82	0.45	2332	5.89	2.65	0.45	2430
31	18	5.39	5.23	0.97	1921	4.95	4.80	0.97	2038	4.57	4.43	0.97	2117
31	20	5.67	4.82	0.85	1999	5.28	4.49	0.85	2097	4.90	4.16	0.85	2215
31	22	6.00	4.38	0.73	2078	5.61	4.10	0.73	2195	5.23	3.81	0.73	2274
31	24	6.33	3.86	0.61	2156	5.94	3.62	0.61	2254	5.61	3.42	0.61	2352
31	26	6.66	3.26	0.49	2234	6.27	3.07	0.49	2332	5.89	2.88	0.49	2430
32	18	5.39	5.44	1.01	1921	4.95	5.00	1.01	2038	4.57	4.61	1.01	2117
32	20	5.67	5.04	0.89	1999	5.28	4.70	0.89	2097	4.90	4.36	0.89	2215
32	22	6.00	4.62	0.77	2078	5.61	4.32	0.77	2195	5.23	4.02	0.77	2274
32	24	6.33	4.11	0.65	2156	5.94	3.86	0.65	2254	5.61	3.65	0.65	2352
32	26	6.66	3.53	0.53	2234	6.27	3.32	0.53	2332	5.89	3.12	0.53	2430

NOTE Q : Total capacity (kW) SHF : Sensible heat factor DB : Dry-bulb temperature
SHC : Sensible heat capacity (kW) INPUT : Total power input (W) WB : Wet-bulb temperature

PERFORMANCE DATA
HEATING operation

SLZ-A09AR.TH / SUZ-A09VR.TH Rated frequency 75Hz

CAPACITY : 3.0(kW) INPUT : 870(W)

	OUTDOOR W.B.(℃)													
INDOOR	-10		-5		0		5		10		15		20	
D.B.(℃)	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT
15	1.89	566	2.28	679	2.67	766	3.06	960	3.45	879	3.81	905	4.20	922
21	1.80	609	2.16	722	2.55	800	2.91	1000	3.30	905	3.66	931	4.04	966
26	1.62	653	2.01	766	2.37	844	2.76	1050	3.15	948	3.51	974	3.90	1001

SLZ-A12AR.TH / SUZ-A12VR.TH Rated frequency 76Hz

CAPACITY : 3.8(kW) INPUT : 1070(W)

	OUTDOOR W.B.(℃)													
INDOOR	-10		-5		0		5		10		15		20	
D.B.(℃)	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT
15	2.39	696	2.89	835	3.38	942	3.88	1017	4.37	1081	4.83	1113	5.32	1134
21	2.28	749	2.74	888	3.23	984	3.69	1059	4.18	1113	4.64	1145	5.11	1188
26	2.05	803	2.55	942	3.00	1038	3.50	1113	3.99	1166	4.45	1198	4.94	1231

SLZ-A18AR.TH / SUZ-A18VR.TH Rated frequency 65Hz

CAPACITY : 5.0(kW) INPUT : 1550(W)

	OUTDOOR W.B.(℃)													
INDOOR	-10		-5		0		5		10		15		20	
D.B.(℃)	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT
15	3.15	1008	3.80	1209	4.45	1364	5.10	1473	5.75	1566	6.35	1612	7.00	1643
21	3.00	1085	3.60	1287	4.25	1426	4.85	1535	5.50	1612	6.10	1659	6.73	1721
26	2.70	1163	3.35	1364	3.95	1504	4.60	1612	5.25	1690	5.85	1739	6.50	1783

SEZ-A09CR.W / SUZ-A09VR.TH Rated frequency 75Hz

CAPACITY : 3.0(kW) INPUT : 880(W)

	OUTDOOR W.B.(℃)													
INDOOR	-10		-5		0		5		10		15		20	
D.B.(℃)	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT
15	1.89	572	2.28	686	2.67	774	3.06	836	3.45	889	3.81	915	4.20	933
21	1.80	616	2.16	730	2.55	810	2.91	871	3.30	915	3.66	942	4.04	977
26	1.62	660	2.01	774	2.37	854	2.76	915	3.15	959	3.51	986	3.90	1012

SEZ-A12AR.TH / SUZ-A12VR.TH Rated frequency 76Hz

CAPACITY : 3.9(kW) INPUT : 1100(W)

	OUTDOOR W.B.(℃)													
INDOOR	-10		-5		0		5		10		15		20	
D.B.(℃)	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT
15	2.46	715	2.96	858	3.47	968	3.98	1045	4.49	1111	4.95	1144	5.46	1166
21	2.34	770	2.81	913	3.32	1012	3.78	1089	4.29	1144	4.76	1177	5.25	1221
26	2.11	825	2.61	968	3.08	1067	3.59	1144	4.10	1199	4.56	1232	5.07	1265

SEZ-A18AR.TH / SUZ-A18VR.TH Rated frequency 80Hz

CAPACITY : 5.9(kW) INPUT : 1840(W)

	OUTDOOR W.B.(℃)													
INDOOR	-10		-5		0		5		10		15		20	
D.B.(℃)	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT
15	3.72	1196	4.48	1435	5.25	1619	6.02	1748	6.79	1858	7.49	1914	8.26	1950
21	3.54	1288	4.25	1527	5.02	1693	5.72	1822	6.49	1914	7.20	1969	7.94	2042
26	3.19	1380	3.95	1619	4.66	1785	5.43	1914	6.20	2006	6.90	2061	7.67	2116

SEZ-A24AR.TH / SUZ-A24VR.TH Rated frequency 96Hz

CAPACITY : 6.9(kW) INPUT : 2450(W)

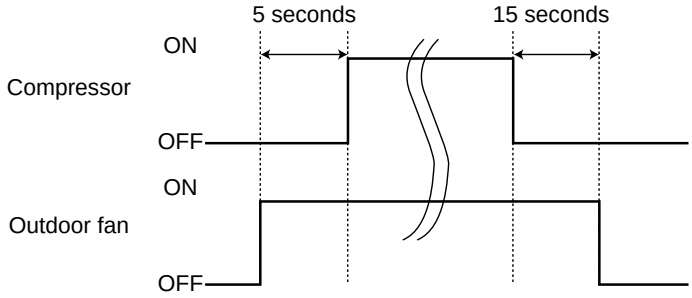
	OUTDOOR W.B.(℃)													
INDOOR	-10		-5		0		5		10		15		20	
D.B.(℃)	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT
15	4.35	1593	5.24	1911	6.14	2156	7.04	2328	7.94	2475	8.76	2548	9.66	2597
21	4.14	1715	4.97	2034	5.87	2254	6.69	2426	7.59	2548	8.42	2622	9.28	2720
26	3.73	1838	4.62	2156	5.45	2377	6.35	2548	7.25	2671	8.07	2744	8.97	2818

10 ACTUATOR CONTROL

SUZ-A09VR.TH SUZ-A12VR.TH SUZ-A18VR.TH SUZ-A24VR.TH

10-1. Outdoor fan motor control

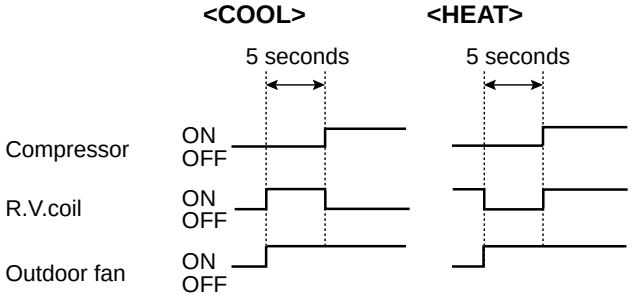
The fan motor turns ON/OFF, interlocking with the compressor.
[ON] The fan motor turns ON 5 seconds before the compressor starts up.
[OFF] The fan motor turns OFF 15 seconds after the compressor has stopped running.



10-2. R.V. coil control

Heating ..... ON
Cooling..... OFF
Dry..... OFF

NOTE: The 4-way valve reverses for 5 seconds right before start-up of the compressor.



10-3. Relation between main sensor and actuator

SUZ-A09VR.TH SUZ-A12VR.TH

Sensor	Purpose	Actuator				
		Compressor	LEV	Outdoor fan motor	RV-coil	Indoor fan motor
Discharge temperature thermistor	Protection	○	○			
Indoor pipe temperature thermistor	Cooling : Coil frost prevention	○				
	Heating : High pressure protection	○	○			
Defrost thermistor	Cooling : High pressure protection	○	○			
	Heating : Defrosting	○	○	○	○	○
Fin temperature thermistor	Protection	○		○		
Ambient temperature thermistor	Cooling : Low ambient temperature operation	○	○	○		

SUZ-A18VR.TH SUZ-A24VR.TH

Sensor	Purpose	Actuator			
		Compressor	LEV	Outdoor fan motor	4-way valve
Discharge temperature thermistor	Protection	○	○		
Indoor pipe temperature thermistor	Cooling : Coil frost prevention	○			
	Heating : High pressure protection	○	○		
Defrost thermistor	Heating : Defrosting	○	○	○	○
Fin temperature thermistor	Protection	○		○	
Outdoor heat exchanger temperature	Cooling : High pressure protection	○	○	○	

11 SERVICE FUNCTIONS

SUZ-A09VR.TH SUZ-A12VR.TH

CHANGE IN DEFROST SETTING

<JS> When the JS wire of the outdoor inverter P.C. board is cut, the defrost temperature is changed.

(Refer to page 66.)

Jumper wire	Change point
JS	Deforst finish temperature changes from 5℃ to 8℃.

12 TROUBLESHOOTING

SUZ-A09VR.TH SUZ-A12VR.TH SUZ-A18VR.TH SUZ-A24VR.TH

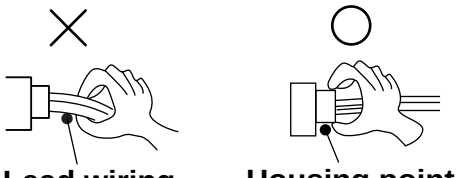
12-1. Cautions on troubleshooting

12-1-1. Before troubleshooting, check the following:

1) Check the power supply voltage.
2) Check the indoor/outdoor connecting wire for mis-wiring.

12-1-2. Take care the following during servicing.

1) Before servicing the air conditioner, be sure to first turn off the remote controller to stop the main unit, and then after confirming the horizontal vane is closed, turn off the breaker and / or disconnect the power plug.
2) Be sure to turn OFF the power supply before removing the front panel, the cabinet, the top panel, and the inverter control P.C. board or electronic control P.C. board.
3) When removing the electrical parts, be careful to the residual voltage of smoothing capacitor.
4) When removing the inverter P.C. board, hold the edge of the board with care NOT to apply stress on the components.
5) When connecting or disconnecting the connectors, hold the housing of the connector. DO NOT pull the lead wires.



Lead wiring **Housing point**

12-1-3. Troubleshooting procedure

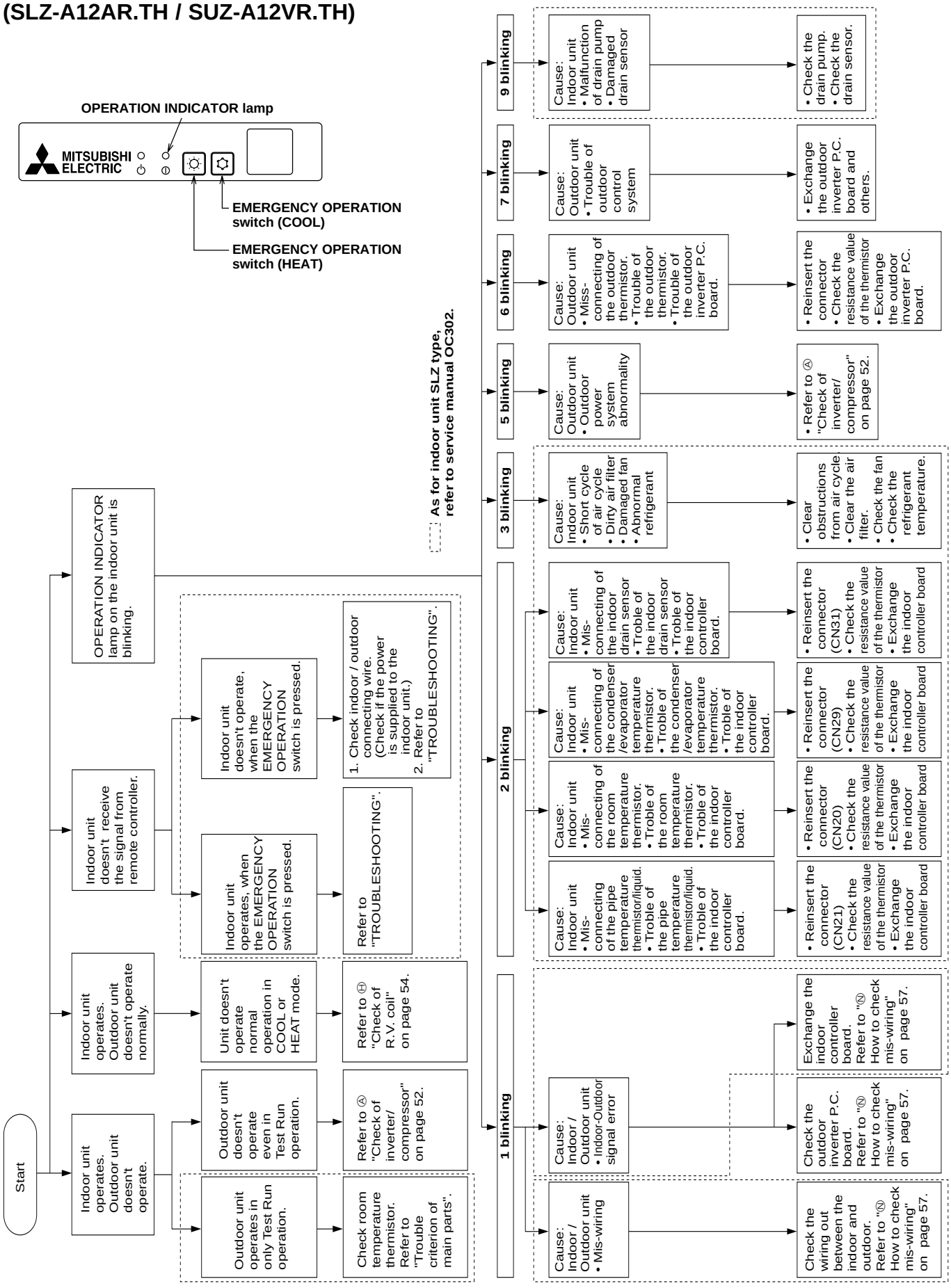
For SLZ/SUZ

1) First, check if the OPERATION INDICATOR lamp on the indoor unit is flashing on and off to indicate an abnormality. To make sure, check how many times the abnormality indication is flashing on and off before starting service work.
2) Before servicing check that the connector and terminal are connected properly.
3) If the inverter P.C. board or electronic control P.C. board is supposed to be defective, check the copper foil pattern for disconnection and the components for bursting and discolouration.
4) When troubleshooting, refer to the flow chart on page 43 for SLZ-A09AR.TH, SLZ-A12AR.TH, SUZ-A09VR.TH and SUZ-A12VR.TH and page 45 for SLZ-A18AR.TH and SUZ-A18VR.TH.

For SEZ/SUZ

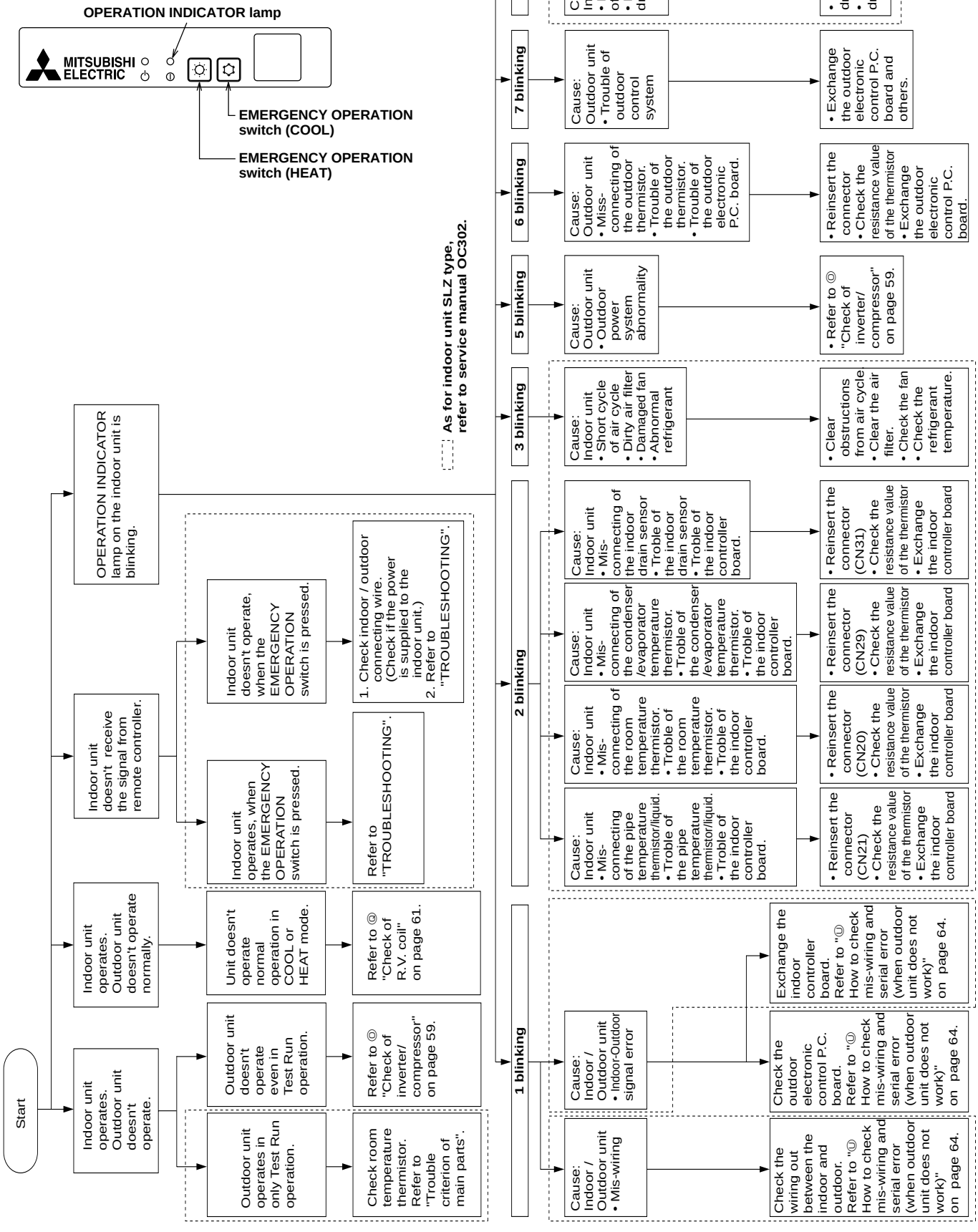
1) First, check if the OPERATION lamp on the remote controller is flashing and off to indicate an abnormality. To make sure, check the ERROR CODE on the remote controller.
2) Before servicing check that the connector and terminal are connected properly.
3) If the inverter P.C. board or electronic control P.C. board is supposed to be defective, check the copper foil pattern for disconnection and the components for bursting and discolouration.
4) When troubleshooting, refer to the flow chart on page 44 for SEZ-A09CR.W, SEZ-A12AR.TH, SUZ-A09AR.TH and SUZ-A12AR.TH and page 46 for SEZ-A18AR.W, SEZ-A24AR.TH, SUZ-A18AR.TH and SUZ-A24AR.TH.

12-2. Instruction of troubleshooting (1)
(SLZ-A09AR.TH / SUZ-A09VR.TH)
(SLZ-A12AR.TH / SUZ-A12VR.TH)

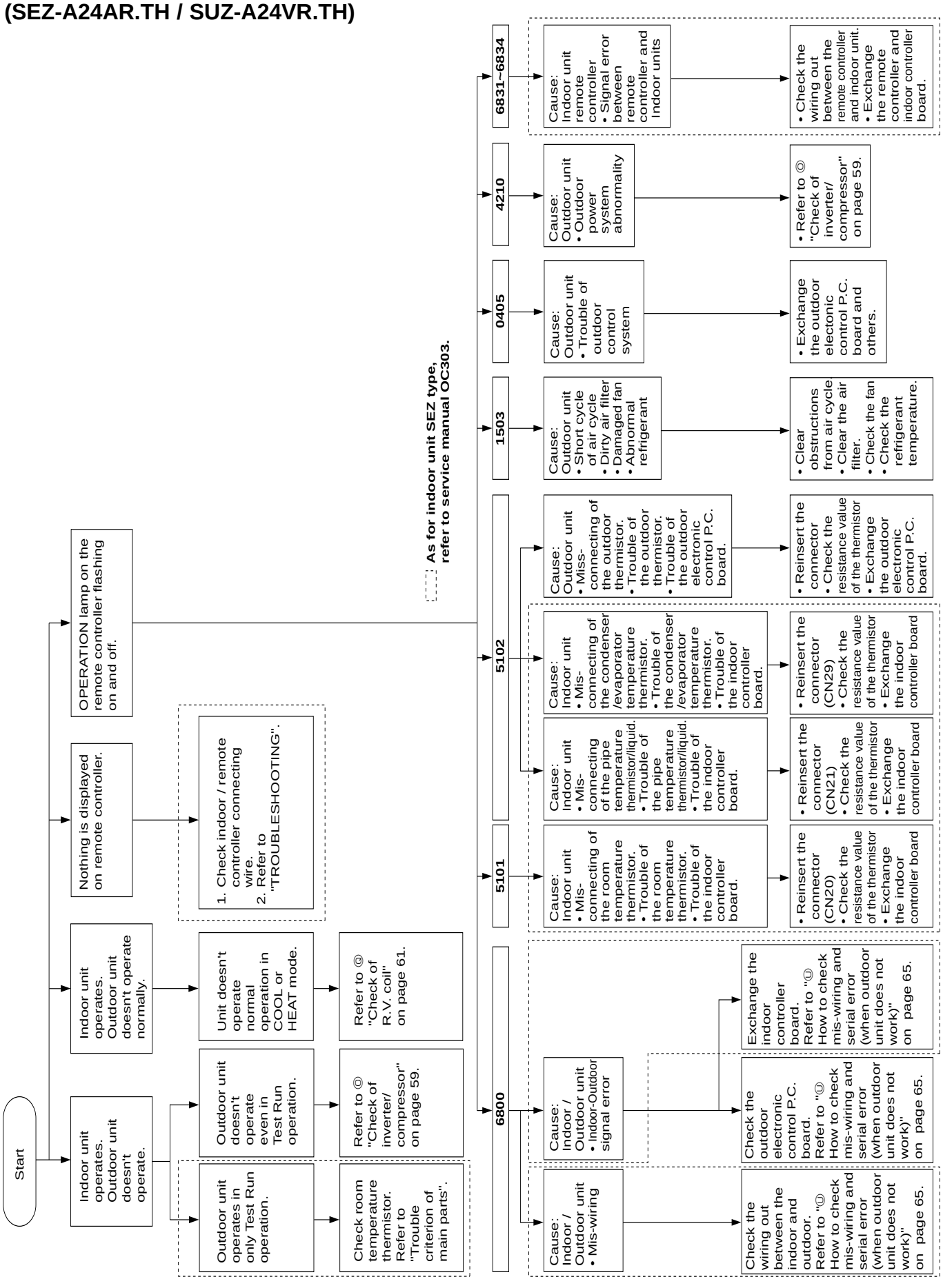


12-2. Instruction of troubleshooting (2)
(SEZ-A09CR.W / SUZ-A09VR.TH)
(SEZ-A12AR.TH / SUZ-A12VR.TH)

12-2. Instruction of troubleshooting (3)
(SLZ-A18AR.TH / SUZ-A18VR.TH)



12-2. Instruction of troubleshooting (4)
(SEZ-A18AR.TH / SUZ-A18VR.TH)
(SEZ-A24AR.TH / SUZ-A24VR.TH)

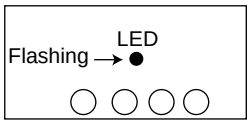


12-2-1. Troubleshooting check table (1)

SUZ-A09VR.TH SUZ-A12VR.TH

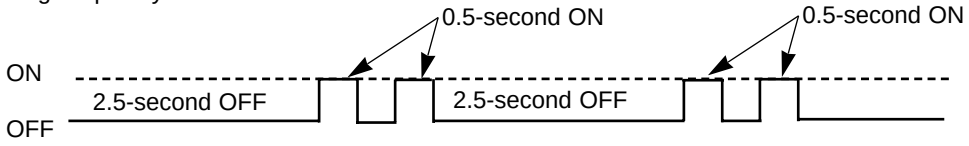
NOTE 1. The location of LED is illustrated at the right figure.
2. LED lights up during normal operation. Refer to page 66.

<Inverter P.C. board>



No.	Symptom	LED indication	Abnormal point	Detection method	Checkpoint
1	Outdoor unit does not operate	1-time flash every 2.5 seconds NOTE: For abnormality location, refer to 'Indoor troubleshooting check table'.	Outdoor power system	When compressor has stopped by over current protection within 1 minute 3 times in a row after compressor start-up, unit stops.	· Check stop valve. · Reconnect connector. · Refer to Ⓐ "How to check inverter/ compressor" on page 52.
2			Outdoor thermistors	When discharge temperature thermistor, fin temperature thermistor or defrost thermistor shorts or opens during compressor running, compressor stops.	· Refer to Ⓖ "Check of outdoor thermistors" on page 54.
3			Outdoor control system	When nonvolatile memory data cannot be read properly, compressor stops.	Replace inverter P.C. board.
4			Bus-bar voltage	When the bus-bar voltage of inverter cannot be detected normally.	Refer to Ⓐ "How to check inverter/ compressor" on page 52.
5	'Outdoor unit stops and restarts 3 minutes later' is repeated	2-time flash 2.5 seconds OFF	Over current protection	When 13A(SUZ-A09VR.TH)/ 20A(SUZ-A12VR.TH) current flows into power transistor, compressor stops and restarts 3 minutes later.	· Check stop valve. · Reconnect connector. · Refer to Ⓐ "How to check inverter/ compressor" on page 52.
6		3-time flash 2.5 seconds OFF	Discharge temperature overheat protection	When discharge temperature thermistor exceeds 116℃, compressor stops and restarts 3 minutes later. (Compressor restarts when discharge temperature thermistor reads 100℃ or below.)	· Check refrigerant circuit and refrigerant amount. · Refer to Ⓖ "Check of outdoor thermistors" on page 54. · Refer to Ⓛ "Check of LEV" on page 56.
7		4-time flash 2.5 seconds OFF	Fin temperature thermistor overheat protection	When temperature at heat sink exceeds 83℃ or inverter P.C. board exceeds 79℃, compressor stops and restarts 3 minutes later.	· Check around outdoor unit. · Check outdoor unit air passage. · Refer to Ⓘ "Check of outdoor fan motor" on page 55.
8		5-time flash 2.5 seconds OFF	High pressure protection	When indoor coil thermistor exceeds 70℃. When the defrost thermistor exceeds 70℃ in COOL mode.	· Check refrigerant circuit and refrigerant amount. · Check stop valve.
9		8-time flash 2.5 seconds OFF	Compressor sinusoidal current	When the waveform of compressor current is distorted.	· Check stop valve. · Reconnect connector. · Refer to Ⓐ "How to check inverter/ compressor" on page 52.
10	Outdoor unit operates (at low frequency)	1-time flash 2.5 seconds OFF	Frequency drop by current protection	When current from power outlet exceeds 8A(SUZ-A09VR.TH)/ 9A(SUZ-A12VR.TH), compressor frequency lowers.	The unit is normal, but check the following. · Check if indoor filters are clogged. · Check if refrigerant is short. · Check if indoor/outdoor unit air outlets are short cycled.
11		3-time flash 2.5 seconds OFF	Frequency drop by high pressure protection	When indoor coil thermistor exceeds 55℃ in HEAT mode, compressor frequency lowers.	
			Frequency drop by defrosting in COOL mode	When indoor coil thermistor reads 8℃ or below in COOL mode, compressor frequency lowers.	
12		4-time flash 2.5 seconds OFF	Frequency drop by, discharge temperature protection.	When discharge temperature thermistor exceeds 111℃, compressor frequency lowers.	
13	Outdoor unit operates	7-time flash 2.5 seconds OFF	Low discharge temperature protection	When discharge temperature has been 50℃ or below for 20 minutes.	· Refer to Ⓛ "Check of LEV" on page 56. · Check refrigerant circuit and refrigerant amount.
14		8-time flash 2.5 seconds OFF	PAM protection	When the overcurrent flows into IGBT or when the bus-bar voltage reaches 300V or more, PAM stops and restarts.	This is not malfunction. PAM protection will be activated in the following cases; ①Instantaneous power voltage drop (Short time power failure) ②When the power supply voltage is high.
15		9-time flash 2.5 seconds OFF	Inverter check mode	When the connector of compressor is disconnected, inverter check mode starts.	Check if the connector is correctly connected. Refer to Ⓐ "How to check inverter/ compressor" on page 52.

The flashing frequency shows the number of times the LED blinks after every 2.5-second OFF.
(Example) When the flashing frequency is “2”.



12-2-1. Troubleshooting check table (2)
SUZ-A18VR.TH SUZ-A24VR.TH

LED 1 (Red)	LED 2 (Yellow)	Error mode
Lighting	Lighting	Normal

Refer to page 68.

Symptom: Outdoor unit does not operate.				
Indication		Abnormal point	Detecting method	Check points
LED 1 (Red)	LED 2 (Yellow)			
Lighting	Twice	Outdoor power system	When the compressor operation has been interrupted by over current protection continuously three times within 1 minute after start-up, or when power factor control module protection or DC control protection is activated three times within 3 minutes after the compressor get started.	• Check the inverter/compressor.
Lighting	7 times	Outdoor control system	When the nonvolatile memory data cannot be read properly on the outdoor electronic control P.C. board.	• Replace the outdoor electronic control P.C. board.

Symptom: It is repeated that outdoor unit stops and restarts 3 minutes later.				
Indication		Abnormal point	Detecting method	Check points
LED 1 (Red)	LED 2 (Yellow)			
Lighting	3 times	Discharge temperature thermistor	When a short or open circuit occurs in the discharge temperature thermistor during compressor operating.	• Check the characteristic of the discharge temperature thermistor. • Check the connector. (CN661)
Lighting	4 times	Fin temperature thermistor	When a short or open circuit occurs in the fin temperature thermistor during compressor operating.	• Check the characteristic of the fin temperature thermistor. • Check the connector. (CN3)
		P.C. board temperature thermistor	When a short or open circuit occurs in the P.C. board temperature thermistor during compressor operating.	• Replace the outdoor electronic control P.C. board.
Lighting	5 times	Outdoor heat exchanger temperature thermistor	When the outdoor heat exchanger temperature thermistor is short or open while compressor is operating.	• Check the characteristic of the high pressure protect thermistor. • Check the connector. (CN661)
Lighting	6 times	Current sensor	When the output from compressor current sensor becomes 25A or more while the compressor is operating.	• Check if the connection lead wires of compressor are correctly connected.
Lighting	11 times	Communication error between P.C. boards	When the communication failure between the outdoor electronic control P.C. board and power board occurs twice consecutively.	• Check if the connection wires between outdoor electronic control P.C. board and power board are correctly connected.
Lighting	12 times	Zero cross signal error	When the zero cross signal cannot be detected while the compressor is operating.	• Check if the connection wires between noise filter P.C. board and power board are correctly connected.
Twice	Goes out	Overcurrent protection	When overcurrent is applied to the power module.	• Check the inverter/ compressor. • Check the amount of gas. • Check the indoor/ outdoor air flow for short cycle. • Check the indoor unit air filter for clogging.
3 times	Goes out	Discharge temperature overheat protection	When the discharge temperature thermistor detects 116℃ or above. (Protection will be released at 100℃ or below.)	• Check the amount of gas and the refrigerant cycle. • Check the outdoor unit air passage.
4 times	Goes out	Fin temperature overheat protection	When the fin temperature thermistor detects 87℃ or above.	• Check the outdoor unit air passage. • Check the outdoor fan motor. • Check the power module.

Symptom: It is repeated that outdoor unit stops and restarts 3 minutes later				
Indication		Abnormal point	Detecting method	Check points
LED 1 (Red)	LED 2 (Yellow)			
4 times	Goes out	P.C. board temperature overheat protection	When the P.C. board temperature thermistor detects 70℃ or above.	• Check the outdoor unit air passage. • Check the outdoor fan motor. • Replace the outdoor electronic control P.C. board.
5 times	Goes out	High-pressure protection	When the outdoor heat exchanger temperature thermistor detects 69℃ or more. When high-pressure switch detects 4MPa or more. (MUZ-A26YV)	• Check the outdoor unit air passage. • Check the outdoor fan motor.
8 times	Goes out	Power factor control module protection	When the overcurrent to power factor controller occurs or the output voltage from power factor controller becomes 400V or more.	• Check the input voltage. • Check the inverter.
9 times	Goes out	DC voltage protection	When it's detected that DC voltage becomes 200V or less, or reaches 400V or more.	• Check the voltage of power supply. • Check the inverter.
11 times	Goes out	Connectivity of indoor and outdoor unit	When the unusual signal is transmitted from the indoor unit.	• Check if the indoor unit can be connected with the outdoor unit.
13 times	Goes out	Fan motor protection	When the fan motor current is 2A or more, or when the abnormality is detected in the feedback signal from fan motor.	• Check the outdoor fan motor. • Check the fan motor connector.

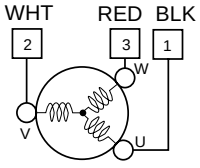
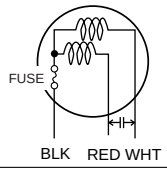
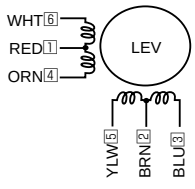
Symptom: Outdoor unit operates (The compressor operates at reduced frequency)				
Indication		Abnormal point	Detecting method	Check points
LED 1 (Red)	LED 2 (Yellow)			
Once	Lighting	Current protection	When the outdoor unit input current exceeds 14.5A.	These symptoms do not mean any abnormality of the product, but check the following points. • Air filter clogging • Amount of gas • Short cycle of indoor/outdoor air flow
Twice	Lighting	High-pressure protection	When the indoor gas pipe temperature exceeds 55˚C during heating.	
Twice	Lighting	Defrosting in cooling	When the indoor gas pipe temperature falls to 6˚C or below during cooling.	
3 times	Lighting	Discharge temperature protection	When the discharge temperature exceeds 104˚C.	
4 times	Lighting	Low discharge temperature protection	When the state with low discharge temperature of which 37˚C or below in COOL and 35˚C or below in HEAT lasts for 20 minutes.	
5 times	Lighting	High-pressure protection	When outdoor heat exchanger temperature thermistor detects 58℃ or more.	

Symptom: Outdoor unit operates.				
Indication		Abnormal point	Detecting method	Check points
LED 1 (Red)	LED 2 (Yellow)			
Lighting	5 times	Defrost thermistor	When a short or open circuit occurs in the defrost thermistor during heating.	• Check the characteristic of the defrost temperature thermistor. • Check the connector. (CN661)
Lighting	11 times	Initial-setting	When the initial-setting information from an indoor unit is now being read.	
9 times	Lighting	Service mode	When the unit operates EMERGENCY OPERATION.	

12-2-2. Trouble criterion of main parts (1)

SUZ-A09VR.TH
SUZ-A12VR.TH

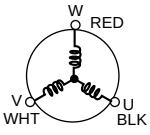
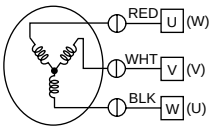
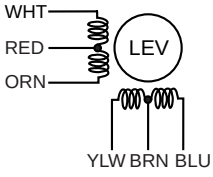
<table>
<tr><th>Part name</th><th>Check method and criterion</th><th>Figure</th></tr>
<tr><td>Defrost thermistor (RT61)

Ambient temperature thermistor (RT65)</td><td>Measure the resistance with a tester. (Part temperature –15˚C ~ 40˚C)
<table>
<tr><th>Normal</th><th>Abnormal</th></tr>
<tr><td>5 kΩ ~ 65 kΩ</td><td>Open or short-circuit</td></tr>
</table></td><td></td></tr>
<tr><td>Discharge temperature thermistor (RT62)</td><td>Measure the resistance with a tester.
Before measurement, hold the thermistor with your hands to warm it up.
(Part temperature 0˚C ~ 40˚C)
<table>
<tr><th>Normal</th><th>Abnormal</th></tr>
<tr><td>150 kΩ ~ 600 kΩ</td><td>Open or short-circuit</td></tr>
</table></td><td></td></tr>
<tr><td>Fin temperature thermistor (RT64)</td><td>Measure the resistance with a tester.
Before measurement, hold the thermistor with your hands to warm it up.
(Part temperature 0˚C ~ 40˚C)
<table>
<tr><th>Normal</th><th>Abnormal</th></tr>
<tr><td>30 kΩ ~ 180 kΩ</td><td>Open or short-circuit</td></tr>
</table></td><td></td></tr>
<tr><td>Compressor (MC)</td><td>Measure the resistance between the terminals with a tester.
(Part temperature –15˚C ~ 40˚C)
<table>
<tr><th rowspan="2"></th><th colspan="2">Normal</th><th rowspan="2">Abnormal</th></tr>
<tr><th>SUZ-A09VR.TH</th><th>SUZ-A12VR.TH</th></tr>
<tr><td>U-V
U-W
V-W</td><td>1.31 Ω ~ 1.66Ω</td><td>0.42 Ω ~ 0.53 Ω</td><td>Open or short-circuit</td></tr>
</table></td><td> 
</td></tr>
<tr><td>Outdoor fan motor (MF)
INNER FUSE
152± $^{0}_{5}$℃ CUT OFF</td><td>Measure the resistance between the terminals with a tester.
(Part temperature –15˚C ~ 40˚C)
<table>
<tr><th>Color of lead wire</th><th>Normal</th><th>Abnormal</th></tr>
<tr><td>WHT – BLK</td><td>299 Ω ~ 374 Ω</td><td rowspan="2">Open or short-circuit</td></tr>
<tr><td>BLK – RED</td><td>242 Ω ~ 304 Ω</td></tr>
</table></td><td> 
</td></tr>
<tr><td>R.V. coil (21S4)</td><td>Measure the resistance between the terminals with a tester.
(Part temperature –15˚C ~ 40˚C)
<table>
<tr><th>Normal</th><th>Abnormal</th></tr>
<tr><td>1.90 kΩ ~ 2.38 kΩ</td><td>Open or short-circuit</td></tr>
</table></td><td></td></tr>
<tr><td>Expansion valve (LEV)</td><td>Measure the resistance with a tester.
(Part temperature : –15˚C ~ 40˚C)
<table>
<tr><th>Color of lead wire</th><th>Normal</th><th>Abnormal</th></tr>
<tr><td>WHT – RED</td><td rowspan="4">39 Ω ~ 50 Ω</td><td rowspan="4">Open or short-circuit</td></tr>
<tr><td>RED – ORN</td></tr>
<tr><td>YLW – BRN</td></tr>
<tr><td>BRN – BLU</td></tr>
</table></td><td> 
</td></tr>
</table>

12-2-2. Trouble criterion of main parts (2)

SUZ-A18VR.TH
SUZ-A24VR.TH

<table>
<tr><th>Part name</th><th>Check method and criterion</th></tr>
<tr><td>Defrost thermistor (RT62)

Outdoor heat exchanger temperature thermistor (RT68)</td><td>Measure the resistance using a tester.
(Part temperature : -10°C ~ 40°C)
<table><tr><td>Normal</td><td>abnormal</td></tr><tr><td>5kΩ ~ 55kΩ</td><td>Open or short-circuit</td></tr></table></td></tr>
<tr><td>Discharge temperature thermistor (RT61)</td><td>Measure the resistance using a tester, after warming up the thermistor by holding by hand.
(Part temperature : 20°C ~ 40°C)
<table><tr><td>Normal</td><td>abnormal</td></tr><tr><td>100kΩ ~ 250kΩ</td><td>Opened or short-circuit</td></tr></table></td></tr>
<tr><td>Fin temperature thermistor (RT65)</td><td>Measure the resistance using a tester.
(Part temperature : 10°C ~ 40°C)
<table><tr><td>Normal</td><td>abnormal</td></tr><tr><td>25kΩ ~ 100kΩ</td><td>Open or short-circuit</td></tr></table></td></tr>
<tr><td>Compressor (MC)
 
</td><td>Measure the resistance between terminals using a tester.
(Winding temperature : -10°C ~ 40°C)
<table><tr><td>Normal</td><td>abnormal</td></tr><tr><td>0.40Ω ~ 0.49Ω</td><td>Open or short-circuit</td></tr></table></td></tr>
<tr><td>Outdoor fan motor (MF)
 
</td><td>Measure the resistance between lead wires using a tester.
(Part temperature : -10°C ~ 40°C)
<table><tr><td>Color of lead wire</td><td>Normal</td><td>abnormal</td></tr><tr><td>RED - BLK</td><td rowspan="3">13.4Ω ~ 16.4Ω</td><td rowspan="3">Open or short-circuit (Not including WHT - ORN)</td></tr><tr><td>BLK - WHT</td></tr><tr><td>WHT - RED</td></tr></table></td></tr>
<tr><td>R. V. coil (21S4)</td><td>Measure the resistance using a tester. (Part temperature : -10°C ~ 40°C)
<table><tr><td>Normal</td><td>abnormal</td></tr><tr><td>2.6kΩ ~ 3.3kΩ</td><td>Open or short-circuit</td></tr></table></td></tr>
<tr><td>Expansion valve (LEV)
 
</td><td>Measure the resistance using a tester.(Part temperature : -10°C ~ 40°C)
<table><tr><td>Color of lead wire</td><td>Normal</td><td>Abnormal</td></tr><tr><td>WHT - RED</td><td rowspan="4">37.4Ω ~ 53.9Ω</td><td rowspan="4">Open or short-circuit</td></tr><tr><td>RED - ORN</td></tr><tr><td>YLW - BRN</td></tr><tr><td>BRN - BLU</td></tr></table></td></tr>
</table>

[SUZ-A09VR.TH SUZ-A12VR.TH]

(Only SLZ-A09AR.TH, SLZ-A12AR.TH) When OPERATION INDICATOR lamp flashes 5-time.
(Only SEZ-A09CR.W, SEZ-A12AR.TH) Error code "4210" displays on remote controller.
Outdoor unit does not operate.

Ⓐ How to check inverter/ compressor

Disconnect the connector (CN61) between compressor and power transistor module (IPM).

↓

Check the voltage between terminals. ····· See Ⓑ "Check of open phase" on page 52.

↓

Are the voltages balanced?

No → Check the resistance of power transistor module. ····· See Ⓒ 'Check of power transistor module' on page 52.

Yes ↓

Check the compressor. ····· See Ⓓ "Check of compressor" on page 53.

Is the resistance infinite?

Yes → Replace the inverter P.C. board.

No (0~several Ω) → Replace the inverter P.C. board and compressor.

Ⓑ Check of open phase

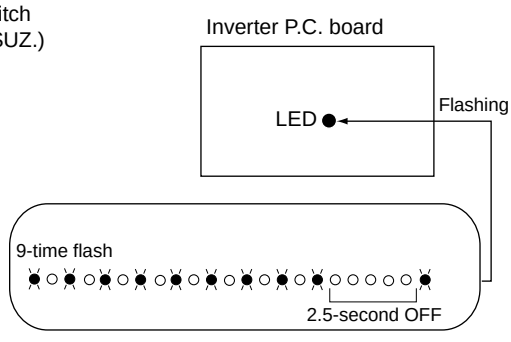
●With the connector between compressor and power transistor module disconnected, activate the inverter and check if the inverter is normal by measuring the balance of voltage between terminals.

Output voltage [V]
115V

<< Operation method>>
Start cooling or heating operation by pressing the EMERGENCY OPERATION switch on the indoor unit. (test-run mode : refer to page 20 for SLZ/SUZ and 24 for SEZ/SUZ.)
<<Measurement point>>
at 3 points
BLK (U)-WHT (V)
BLK (U)-RED (W)
WHT(V)-RED (W)

※ Measure AC voltage between the lead wires at 3 points.

NOTE 1. Output voltage varies according to power supply voltage.
2. Measure the voltage by analog type tester.
3. During this check, LED of inverter P.C. board flashes 9 times.



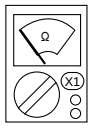
Ⓒ Check of power transistor module

●Disconnect the connector (CN61) between compressor and power transistor module, and measure the resistance between terminals on the power transistor module.
<<Measurement point>>
at 6 points
BLK-WHT, WHT-BLK
BLK-RED, RED-BLK
WHT-RED, RED-WHT

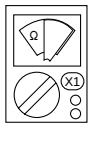
※ Measure the resistance between the lead wires at 3 points

<<Judgement>>
Infinite [Ω]·····Normal
0~dozens of ·····Abnormal (short)

ohmmeter indication

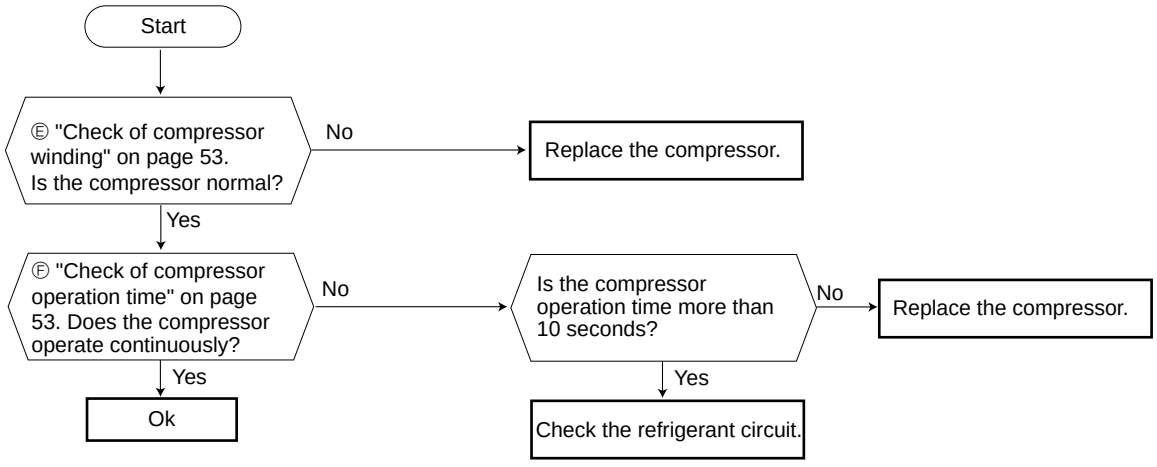


····· Normal (infinite)



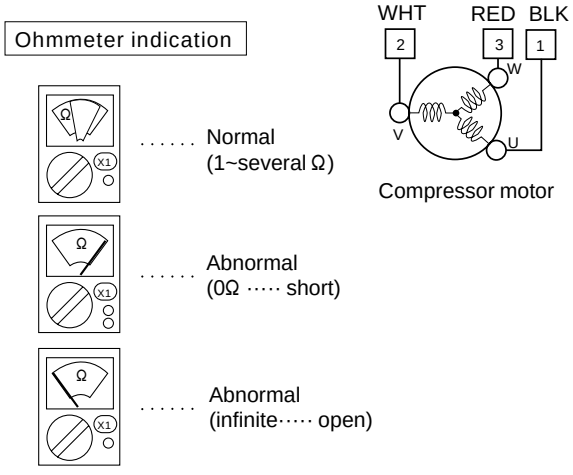
····· Abnormal (0~dozens of Ω)

Ⓓ Check of compressor



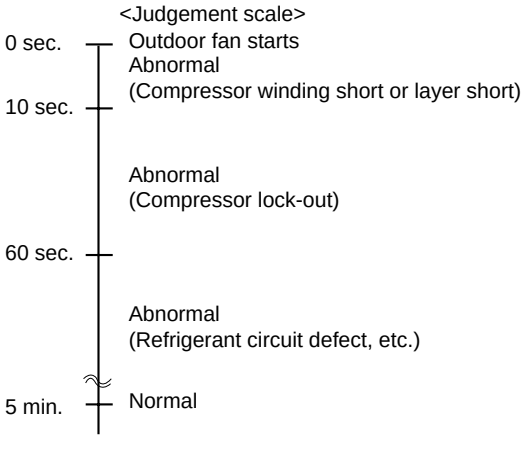
Ⓔ Check of compressor winding

● Disconnect the connector (CN61) between compressor and power transistor module, and measure the resistance between the compressor terminals.
Measurement point at 3 points of lead wire.
at 3 points
BLK-WHT
BLK-RED
WHT-RED
<<Judgement>>
Refer to page 50.
0[Ω] ……Abnormal [short]
Infinite[Ω] ……Abnormal [open]
NOTE 1. Be sure to zero the ohmmeter before measurement.
2. Winding resistance for each phase at 20℃.
Refer to page 6 and 7.



Ⓕ Check of compressor operation time

●Connect the compressor and activate the inverter. Then measure the time until the inverter stops due to over current.
<<Operation method>>
[For SLZ/SUZ]
Start heating or cooling operation by pressing the EMERGENCY OPERATION switch on the indoor unit. (Test-run mode)
[For SEZ/SUZ]
Start heating or cooling operation by pressing the TEST button twice on the remote controller. (Test-run mode)
<<Measurement>>
Measure the time from the start of outdoor fan running to the stop of the inverter due to over current.
<<Judgement>>
For reference
0~10 seconds……Abnormal (compressor short)
10~60 seconds……Abnormal (compressor lock-out)
60 seconds~5 minutes……Abnormal (refrigerant circuit defect)
more than 5 minutes……Normal



[SUZ-A09VR.TH SUZ-A12VR.TH]

(Only SLZ-A09AR.TH, SLZ-A12AR.TH) When OPERATION INDICATOR lamp flashes 6-time.
(Only SEZ-A09CR.W, SEZ-A12AR.TH) Error code "5102" and "OC" displays on remote controller.
The thermistors in the outdoor unit are abnormal.

Ⓖ Check of outdoor thermistors

Disconnect the connectors CN641, CN642 and CN643 from the inverter P.C. board.
(Check the characteristics of each thermistor.)

Defrost thermistor RT61
Measure the resistance between CN641 ① and ②.

Discharge temperature thermistor RT62
Measure the resistance between CN641 ③ and ④.

Fin temperature thermistor RT64
Measure the resistance between CN642 ① and ②.

Ambient temperature thermistor RT65
Measure the resistance between CN643 ① and ②.

Does the resistance of the thermistor have the characteristics on page 66?
- No → Replace the thermistor except RT64. In case of RT64, replace the inverter P.C. board.
- Yes →

① Reconnect the connectors CN641 , CN642 and CN643.
② Disconnect the connector between the compressor and power transistor module.

[SLZ]
Turn ON the power supply and press the EMERGENCY OPERATION switch.

[SEZ]
Turn ON the power supply and press the TEST button twice.

Does the unit operate 10 minutes or more?
- No → Replace the inverter P.C. board.
- Yes →

Is LED of the inverter P.C. board flashes 5 times?
- Yes → Replace the inverter P.C. board.
- No → Reconnect the connector or connecting wire.

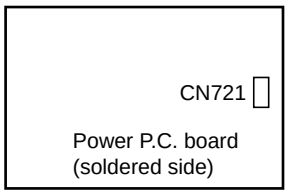
Ⓗ Check of R.V. coil

Unit operates COOL mode even if it is set to HEAT mode.

※ First of all, measure the resistance of R.V. coil to check if the coil is defective (refer to page 50).
※ In case CN721 is not connected or R.V. coil is open, voltage is generated between the terminal pins of the connector although any signal is not being transmitted to R.V. coil.

Disconnect connector (CN61) between compressor and power transistor module.
[SLZ]
Turn ON the power supply and press the EMERGENCY OPERATION switch (HEAT switch).
[SEZ]
Turn ON the power supply and press the TEST button twice (HEAT mode).

Is there 230V AC between CN721① and ② on the power P.C. board 3 minutes after the power supply is turned ON?
- No → Replace the power P.C. board.
- Yes → Replace the 4-way valve.



Unit operates HEAT mode even if it is set to COOL mode.

Disconnect connector (CN61) between compressor and power transistor module.
[SLZ]
Turn ON the power supply and press the EMERGENCY OPERATION switch (COOL switch).
[SEZ]
Turn ON the power supply and press the TEST button twice (COOL mode).

Is there 230V AC between CN721① and ② on the power P.C.board 3 minutes after the power supply is turned ON?
- Yes → Replace the power P.C. board.
- No → •Defective R.V. coil •Defective 4-way valve

Outdoor fan motor does not operate.

Ⓘ Check of outdoor fan motor

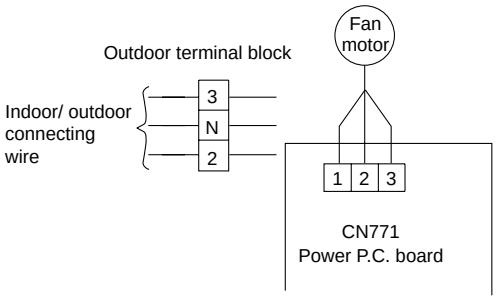
Check the resistance of fan motor. (Refer to page 50.)

Is the resistance of fan motor normal?
- No → Replace the outdoor fan motor.
- Yes ↓

Disconnect the connector CN771 on the power P.C. board.
Disconnect the connector (CN61) between compressor and power transistor module. [SLZ]
Turn ON the power supply and press the EMERGENCY OPERATION switch. [SEZ]
Turn ON the power supply and press the TEST button twice.

There voltage 230V AC between outdoor terminal block 2 and N?
- No → Is there voltage 230V AC between indoor terminal block 2 and N?
  - No → Replace the indoor controller board.
  - Yes → Rectify indoor/ outdoor connecting wire.
- Yes ↓

3 minutes after power ON, is there voltage 230V AC between CN771 ② and ③ on the power P.C. board?
- No → Replace the power P.C. board.
- Yes → Replace the outdoor fan motor.



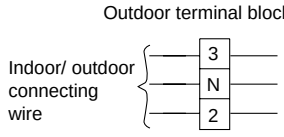
Inverter does not operate.

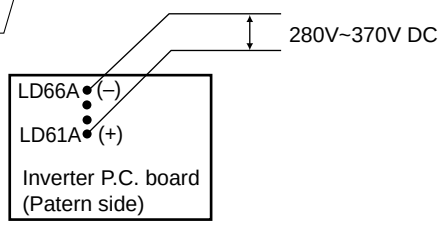
Ⓙ Check of power supply

Disconnect the connector (CN61) between compressor and power transistor module. [SLZ]
Turn ON the power supply and press the EMERGENCY OPERATION switch. [SEZ]
Turn ON the power supply and press the TEST button twice.

There voltage of 230V AC between outdoor terminal block 2 and N?
- No → Is there voltage 230V AC between indoor terminal block 2 and N?
  - No → Replace the indoor controller board.
  - Yes → Rectify indoor/ outdoor connecting wire.
- Yes ↓

3 minutes after power ON, is there voltage 280V ~ 370V DC between LD61A (+) and LD66A (–) on the inverter P.C. board? (Refer to page 66.)
- No → Check the electric parts in main circuit.
- Yes → Dose LED on the inverter P.C. board light up or flash? (Refer to page 66.)
  - No → Replace the inverter P.C. board.
  - Yes → OK. If flash, refer to page 47.



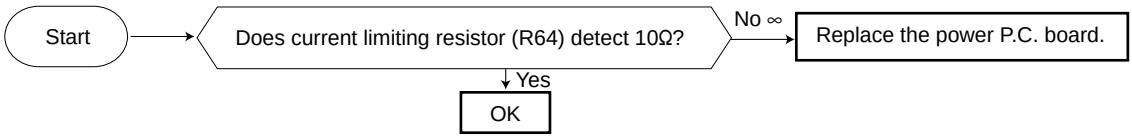


[SUZ-A09VR.TH SUZ-A12VR.TH]

Outdoor unit does not operate at all or stops immediately due to over current.

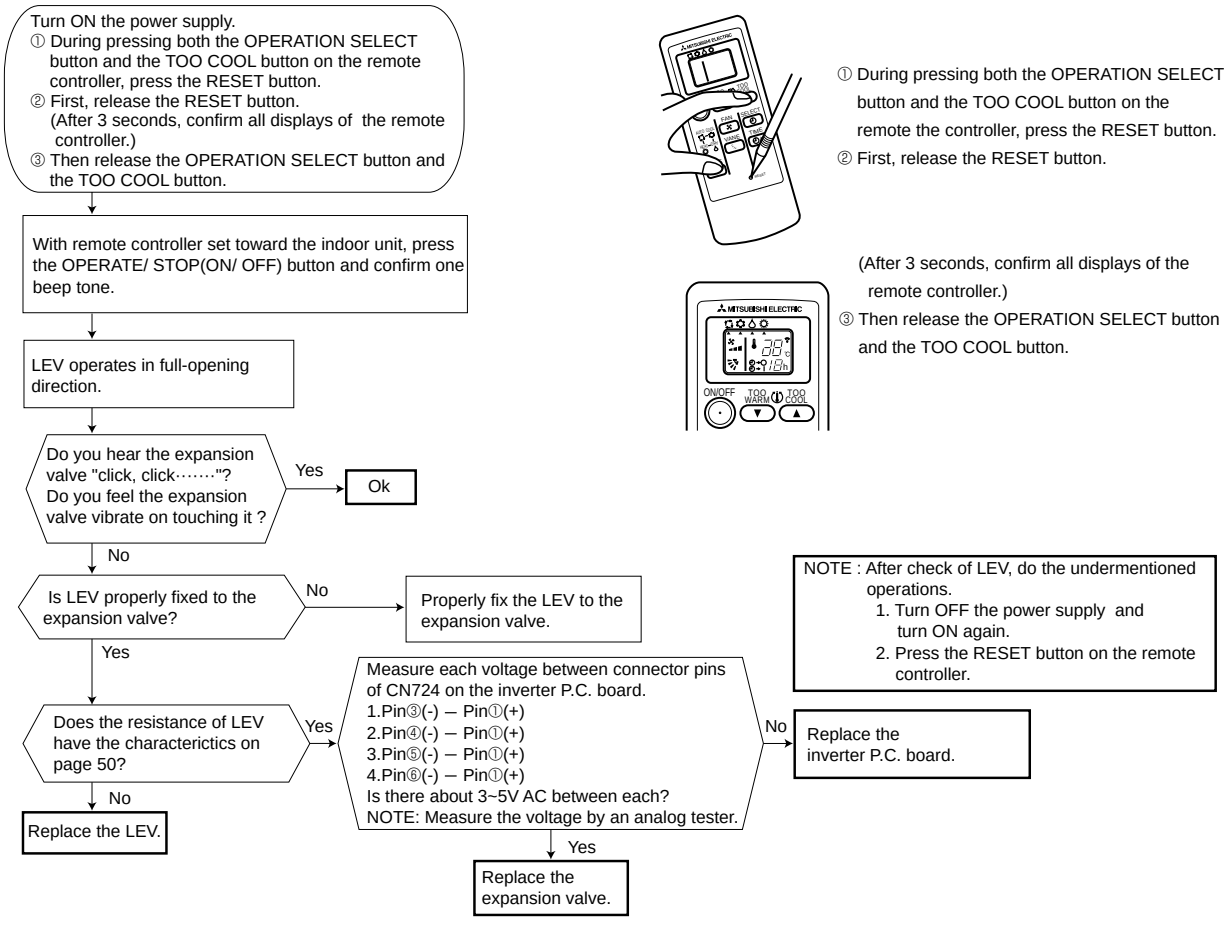
Ⓚ Check of current limiting resistor

When the current-limiting resistor is open, the rush current limiting relay may not work properly.



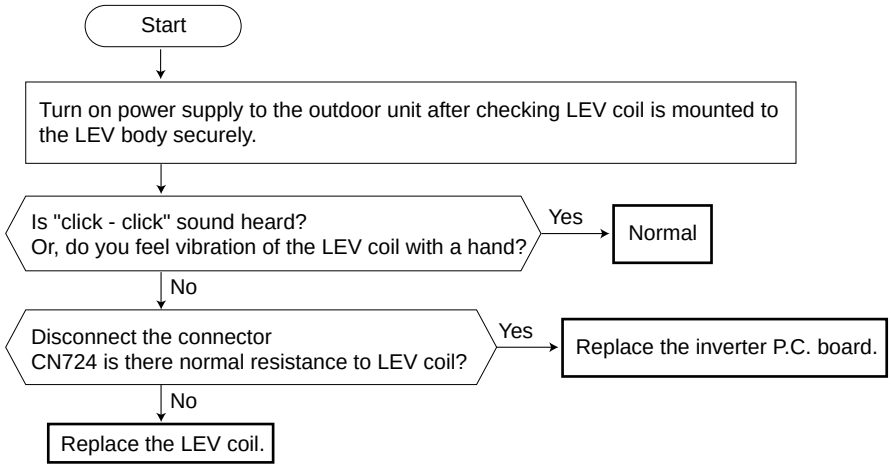
(Only SLZ-A09AR.TH, SLZ-A12AR.TH) Heating/Cooling does not operate.

Ⓛ Check of LEV (Expansion valve)



(Only SEZ-A09CR.W, SEZ-A12AR.TH)
- **When cooling, heat exchange of non-operating indoor unit frosts.**
- **When heating, non-operating indoor unit get warm.**

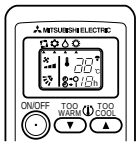
Ⓛ Check of LEV (Expansion valve)



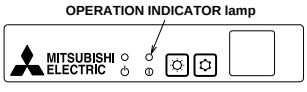
[SUZ-A09VR.TH SUZ-A12VR.TH]

(Only SLZ-A09AR.TH, SLZ-A12AR.TH) When OPERATION INDICATOR lamp flashes ON and OFF in every 0.5-second. Outdoor unit doesn't operate.

Ⓝ How to check mis-wiring



•The following indication applies regardless of shape of the indicator.



Start

• Turn ON the power supply.
• Press once EMERGENCY OPERATION switch.

After 3 minutes, mis-wiring is indicated (0.5-second ON, 0.5-second OFF) on OPERATION INDICATOR lamp on indoor unit.※

Is there any mis-wiring, poor contact, or wire disconnection? ※2

Yes → Make them sure.

No

A

B

Turn OFF the power supply.
Disconnect the indoor/ outdoor connecting wire.
Short-circuit indoor terminal block Ⓝ and ③.
Turn ON the power supply.
During pressing both the OPERATION SELECT button and TOO COOL button on the remote controller at the same time, press the RESET button.
At first, release the RESET button.
And release the other two buttons since all LCD in operation display section of the remote controller is displayed after 3 seconds.
Transmit the signal of remote controller, pressing OPERATE/STOP (ON/OFF) button on the remote controller.
(The above procedure allows OPERATION INDICATOR lamp to indicate the failure-mode.)

Does the right side of OPERATION INDICATOR lamp blink quickly?

No (light up or OFF) → Replace the indoor controller board.

Yes

Release the failure mode. ※3

Reconnect the indoor/ outdoor connecting wire.
Remove the short-circuit between indoor terminal block Ⓝ and ③.
Turn ON the power supply.
Press the EMERGENCY OPERATION switch.
Is there amplitude of 5 to 10V DC between outdoor terminal block Ⓝ and ③ after 3 minutes (for confirmation of serial signal)?

No → Replace the indoor/ outdoor connecting wire.

Yes

Is there 230V AC between outdoor terminal block ② and Ⓝ?

No → Replace the indoor/ outdoor connecting wire.

Yes

1. Turn OFF the power supply.
2. Disconnect the connector (CN61) between the compressor and the power transistor module.
3. Turn ON the power supply.
4. Press the EMERGENCY OPERATION switch.

Is there voltage approximate 280V DC between LD61A (+) and LD66A (–) on the inverter P.C. board arter 3 minutes?

Yes → ※4 Replace the inverter P.C. board.

No

Turn OFF the power supply and then turn ON again.
Press EMERGENCY OPERATION switch.
There approximate 230V AC between outdoor terminal block ② and Ⓝ?

Yes → ※4 Replace the inverter P.C. board.

No

Replace the indoor/ outdoor connecting wire.

※ Short circuit of JPG and JPS on the indoor controller board enables self-check to be displayed in 3 seconds.

※2 Mis-wiring may damage indoor controller board during the operation. Be sure to confirm the wiring is correct before the operation starts.

※3 Be sure to release the failure-mode recall function after checking.
Procedure of release of failure-mode.
① Press the EMERGENCY OPERATION switch.
② Turn OFF the power supply.
③ Press the RESET button on the remote controller.

A
· Turn OFF inverter-controlled lighting equipment.
· Turn OFF the power supply and then turn ON again.
· Press the EMERGENCY OPERATION switch.

Is mis-wiring indicated when the contactor (52C) on the indoor controller board turns ON 3 minutes later?

No → · Reinstall either the unit or the light each other away.
· Attach a filter on receiving section of the indoor unit.

Yes

B

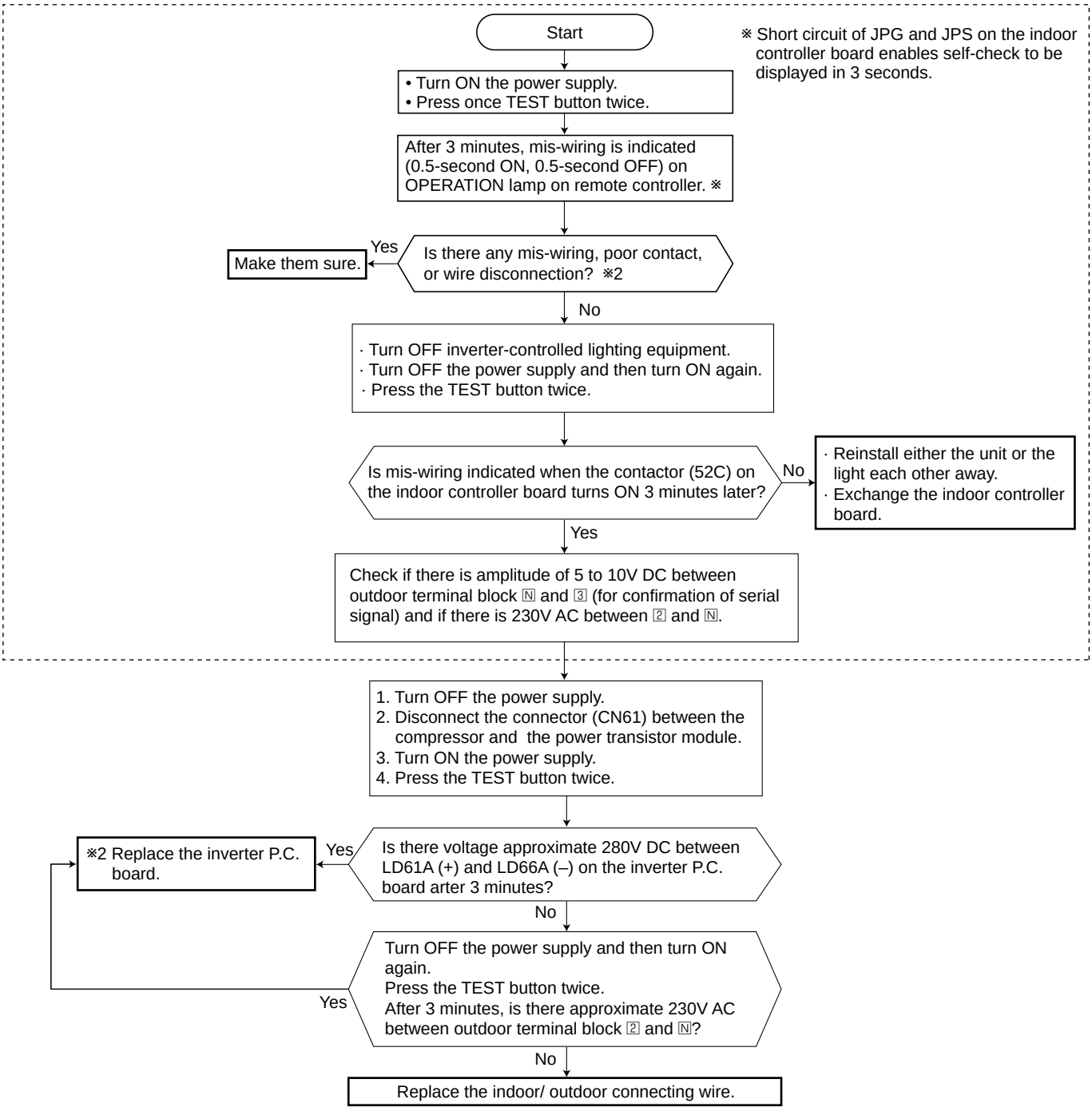
As for indoor unit SLZ type, refer to service manual OC302.

※4 Be careful to the residual voltage of smoothing capacitor.

[SUZ-A09VR.TH SUZ-A12VR.TH]

(Only SEZ-A09CR.W, SEZ-A12AR.TH) ERROR CODE "6800" displays on remote controller.
Outdoor unit doesn't operate.

Ⓝ How to check mis-wiring



As for indoor unit SEZ type, refer to service manual OC303.

※2 Be careful to the residual voltage of smoothing capacitor.

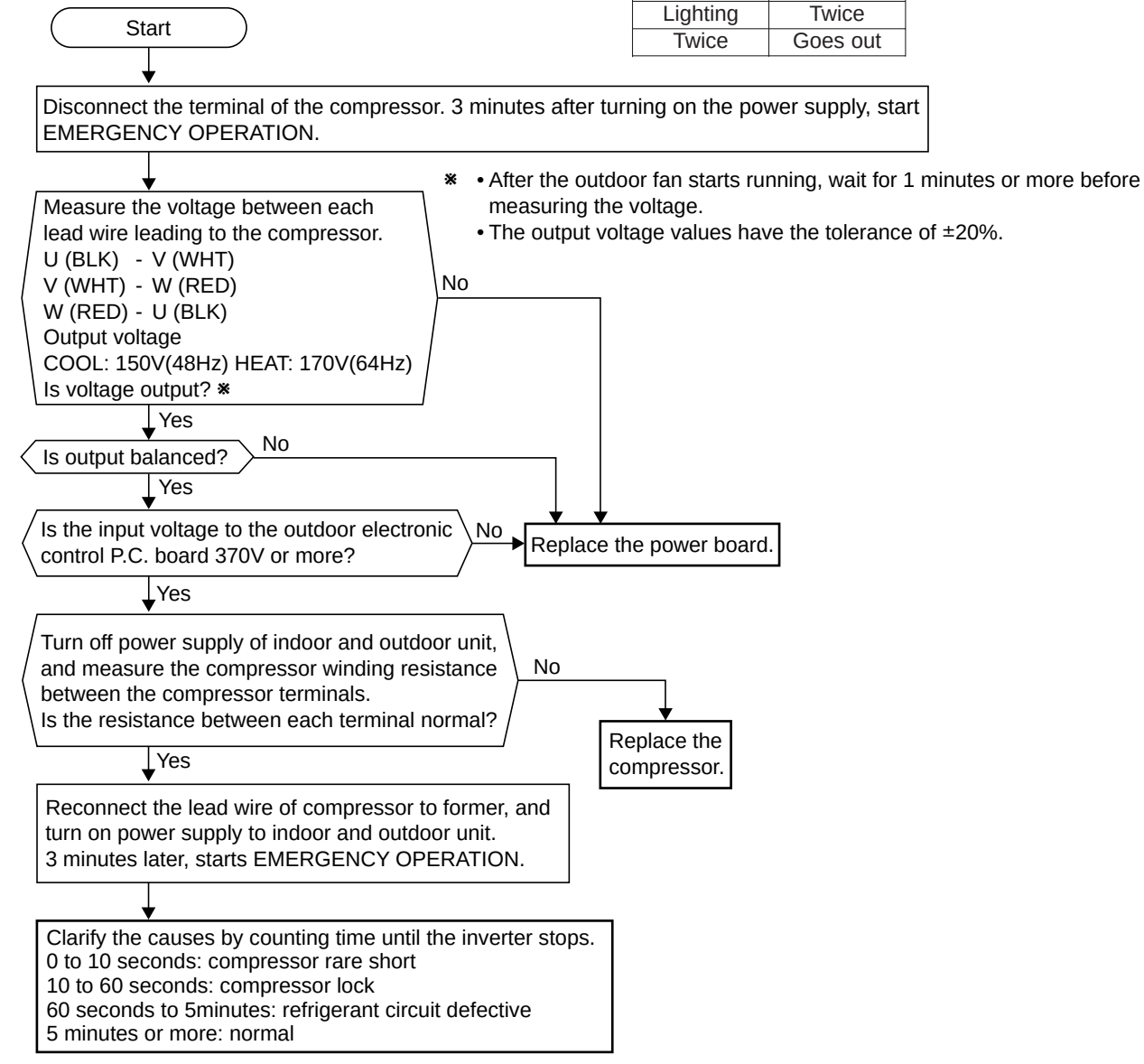
[SUZ-A18VR.TH SUZ-A24VR.TH]

(Only SLZ-A18AR.TH, SLZ-A24AR.TH) When OPERATION INDICATOR lamp flashes 5-time.
(Only SEZ-A18AR.TH, SEZ-A24AR.TH) Error code "4210" displays on remote controller.
Outdoor unit does not operate.
• When heating, room does not get warm.
• When cooling, room does not get cool.

⓪ Check of inverter/ compressor

LED display:

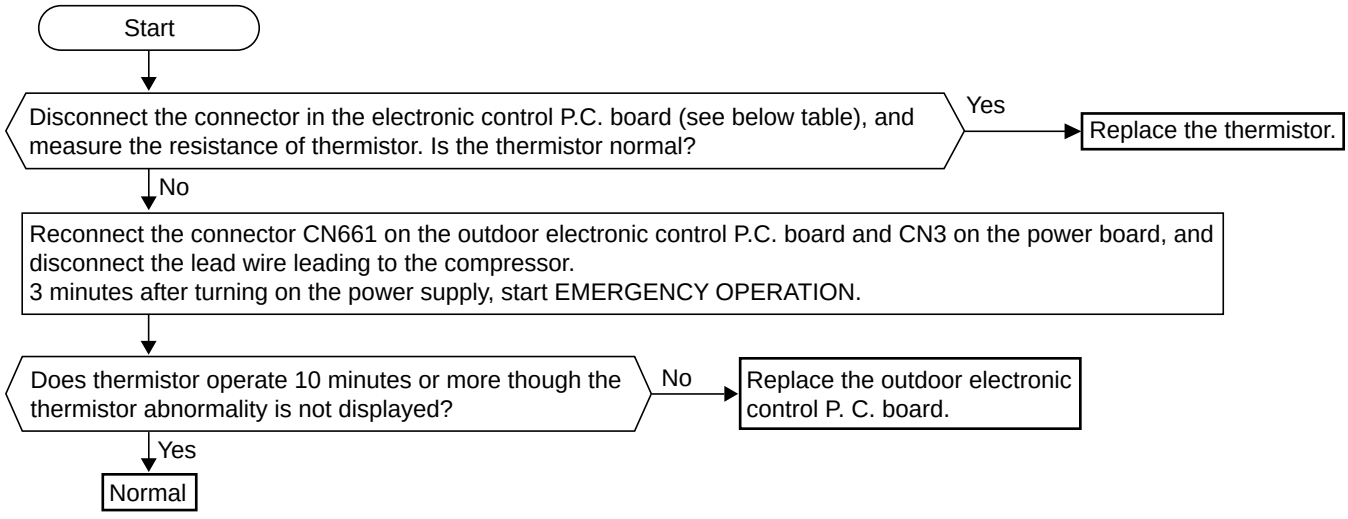
LED1	LED2
Lighting	Lighting
Lighting	Twice
Twice	Goes out



[SUZ-A18VR.TH SUZ-A24VR.TH]

(Only SLZ-A18AR.TH, SLZ-A24AR.TH) When OPERATION INDICATOR lamp flashes 6-time.
(Only SEZ-A18AR.TH, SEZ-A24AR.TH) Error code "5102" and "OC" displays on remote controller.
• When thermistor is abnormal. (When the LED display is a table below.)

Ⓟ Check of outdoor thermistors



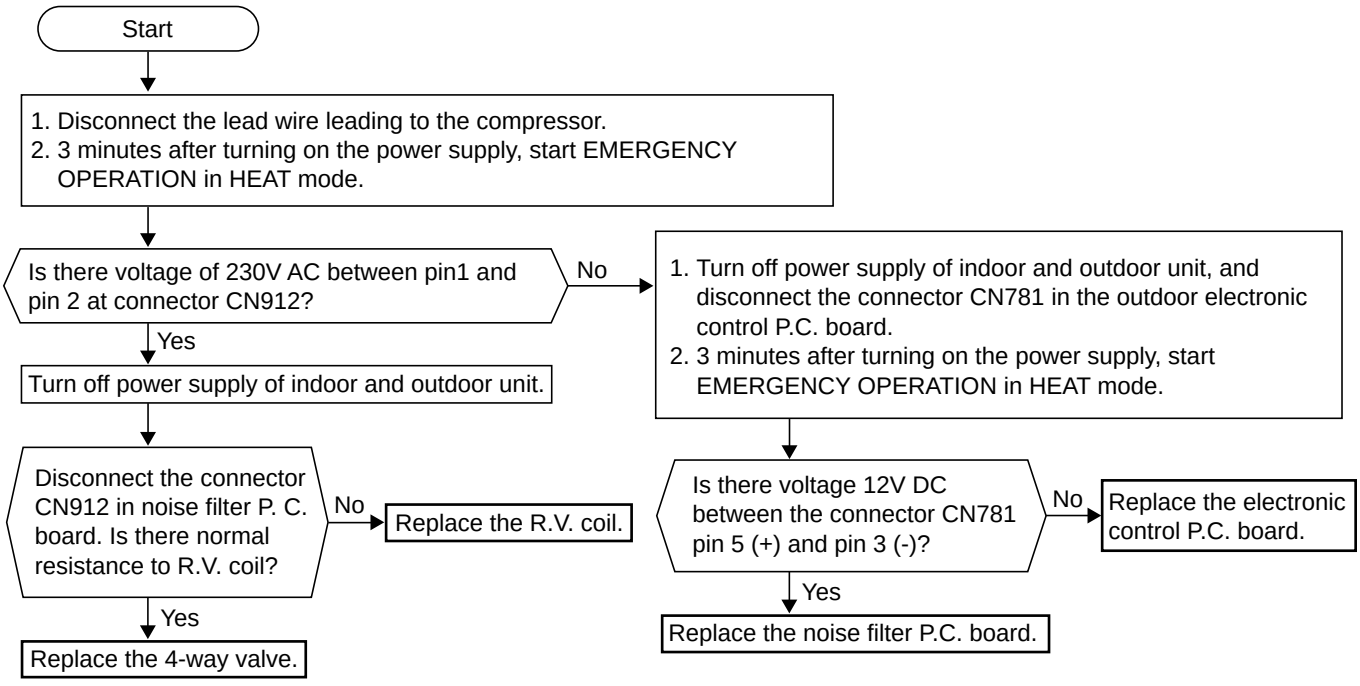
Thermistor	Symbol	Connector, Pin No.
Discharge temperature thermistor	RT61	Between CN661 pin3 and pin4
Defrost thermistor	RT62	Between CN661 pin1 and pin2
Outdoor heat exchanger temperature thermistor	RT68	Between CN661 pin7 and pin8
Fin temperature thermistor	RT65	Between CN3 pin1 and pin2

[SUZ-A18VR.TH SUZ-A24VR.TH]

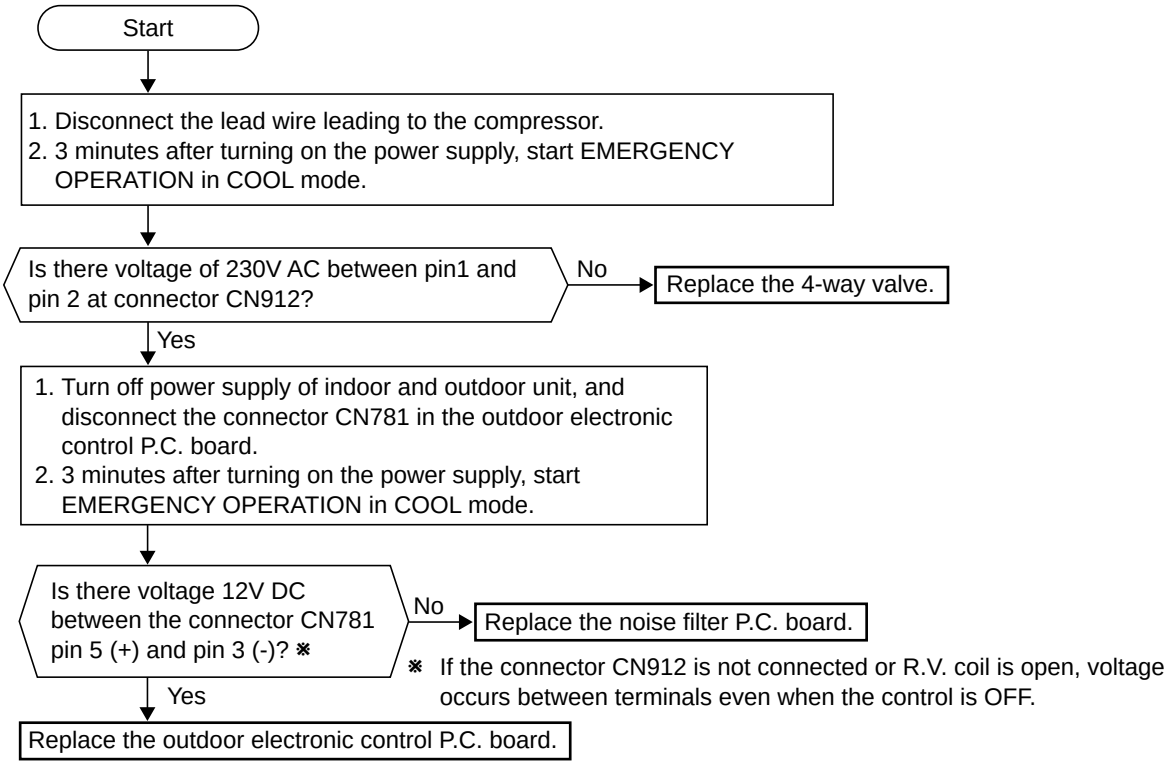
The cooling operation or heating operation does not operate. (LED display: Both LED1 and LED2 lighting)

ⓠ Check of R.V. coil

• When heating operation does not work.



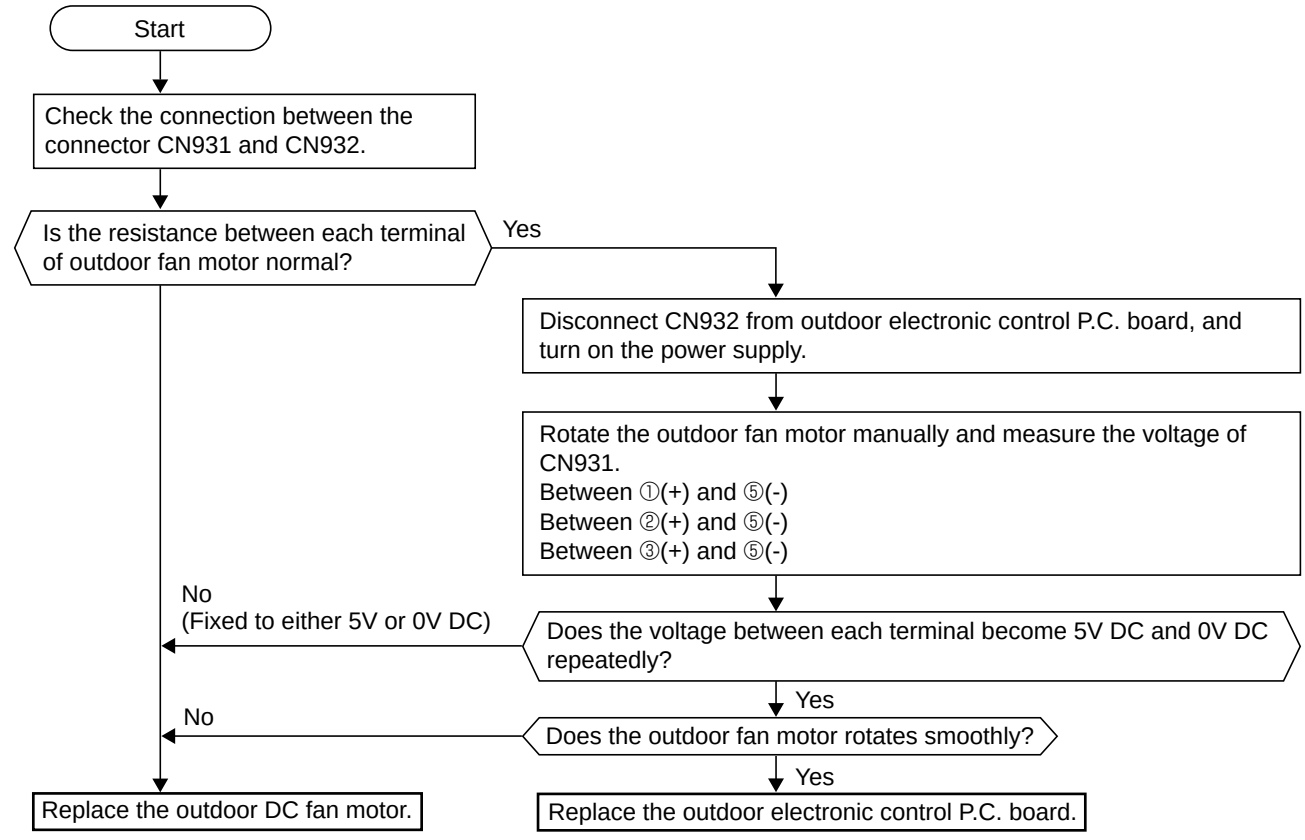
• When cooling operation does not work.



[SUZ-A18VR.TH SUZ-A24VR.TH]

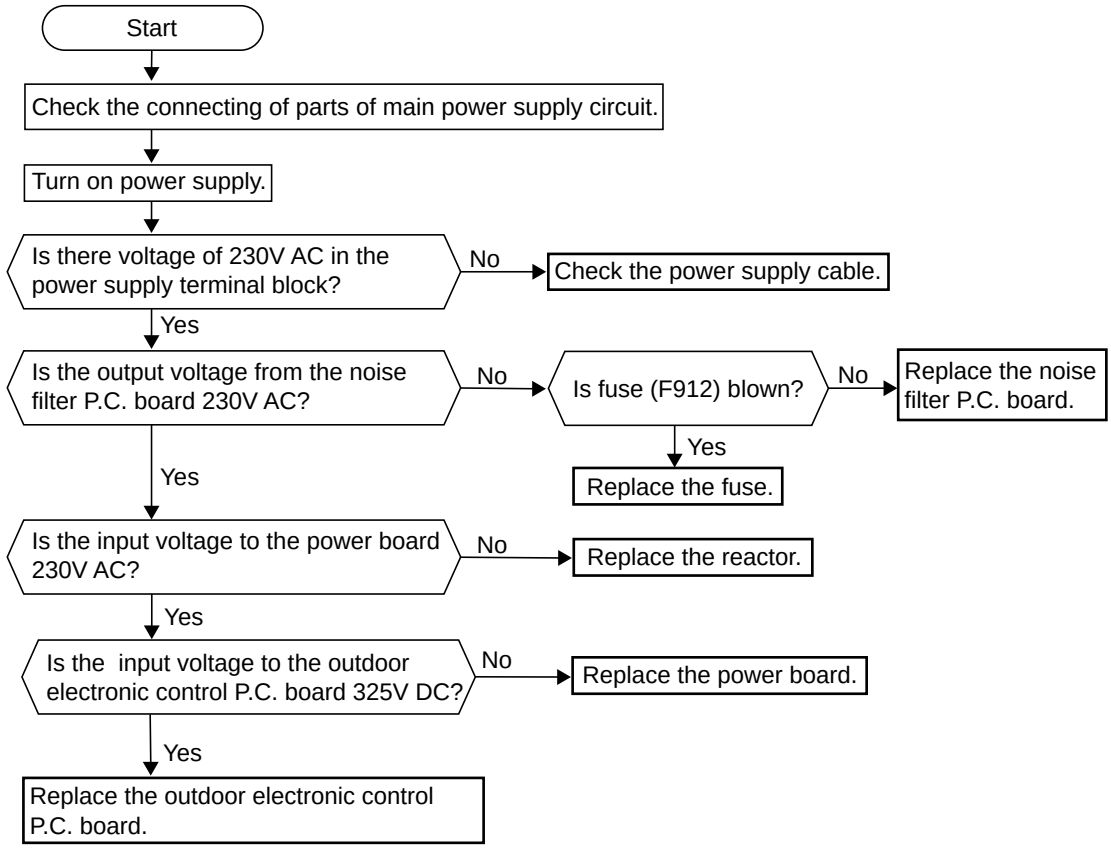
• Fan motor does not operate or stops operating shortly after starting the operation.

Ⓡ Check of outdoor fan motor



Outdoor unit does not operate. (LED display: display OFF)

Ⓢ Check of power supply

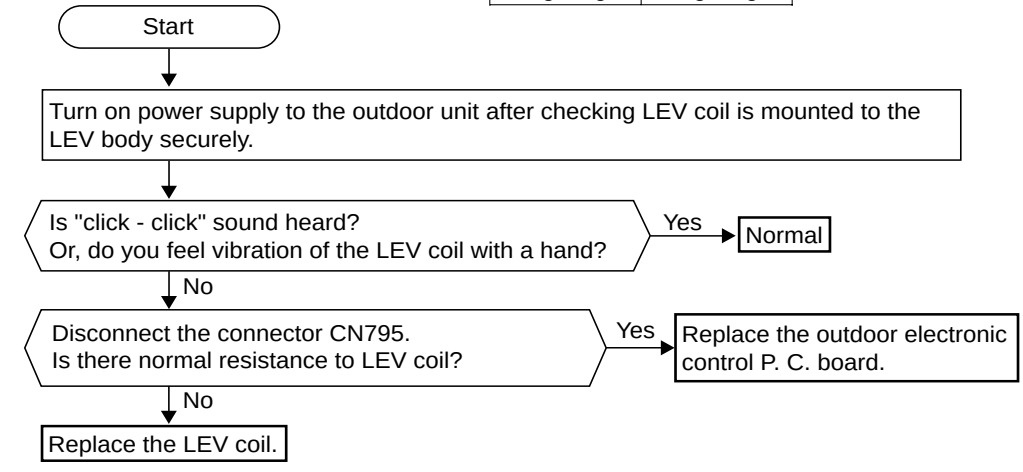


• When cooling, heat exchanger of non-operating indoor unit frosts.
• When heating, non-operating indoor unit get warm.

Ⓣ Check of LEV

LED display:

LED1	LED2
Lighting	Lighting



(Only SLZ-A18AR.TH, SLZ-A24AR.TH) When OPERATION INDICATOR lamp flashes ON and OFF in every 0.5-second. Outdoor unit doesn't operate. (LED display: Both LED1 and LED2 lighting)

Ⓤ How to check mis-wiring and serial signal error (when outdoor unit does not work)

Start

• Turn ON the power supply.
• Press once EMERGENCY OPERATION switch.

After 3 minutes, mis-wiring is indicated (0.5-second ON, 0.5-second OFF) on OPERATION INDICATOR lamp on indoor unit.※

Is there any mis-wiring, poor contact, or wire disconnection? ※2

Yes → Make them sure.

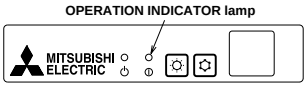
No

A

B

Turn OFF the power supply.
Disconnect the indoor/ outdoor connecting wire.
Short-circuit indoor terminal block [N] and [3].
Turn ON the power supply.
During pressing both the OPERATION SELECT button and TOO COOL button on the remote controller at the same time, press the RESET button.
At first, release the RESET button.
And release the other two buttons since all LCD in operation display section of the remote controller is displayed after 3 seconds.
Transmit the signal of remote controller, pressing OPERATE/STOP (ON/OFF) button on the remote controller.
(The above procedure allows OPERATION INDICATOR lamp to indicate the failure-mode.)

•The following indication applies regardless of shape of the indicator.



Does the right side of OPERATION INDICATOR lamp blink quickly?

No (light up or OFF) → Replace the indoor controller board.

Yes

Release the failure mode. ※3

Reconnect the indoor/ outdoor connecting wire.
Remove the short-circuit between indoor terminal block [N] and [3].
Turn ON the power supply.
Press the EMERGENCY OPERATION switch.
Is there amplitude of 5 to 10V DC between outdoor terminal block [N] and [3] after 3 minutes (for confirmation of serial signal)?

No → Replace the indoor/ outdoor connecting wire.

Yes

Is there 230V AC between outdoor terminal block [2] and [N]?

No → Replace the indoor/ outdoor connecting wire.

Yes

Is there 325V DC between CN801 ① and ③ on the outdoor electronic control P.C. board?

No → Check of power supply.

Yes

Replace the outdoor electronic control P.C. board.

※ Short circuit of JPG and JPS on the indoor controller board enables self-check to be displayed in 3 seconds.

※2 Mis-wiring may damage indoor controller board during the operation. Be sure to confirm the wiring is correct before the operation starts.

※3 Be sure to release the failure-mode recall function after checking.
Procedure of release of failure-mode.
① Press the EMERGENCY OPERATION switch.
② Turn OFF the power supply.
③ Press the RESET button on the remote controller.

A

· Turn OFF inverter-controlled lighting equipment.
· Turn OFF the power supply and then turn ON again.
· Press the EMERGENCY OPERATION switch.

Is mis-wiring indicated when the contactor (52C) on the indoor controller board turns ON 3 minutes later?

No → · Reinstall either the unit or the light each other away.
· Attach a filter on receiving section of the indoor unit.

Yes

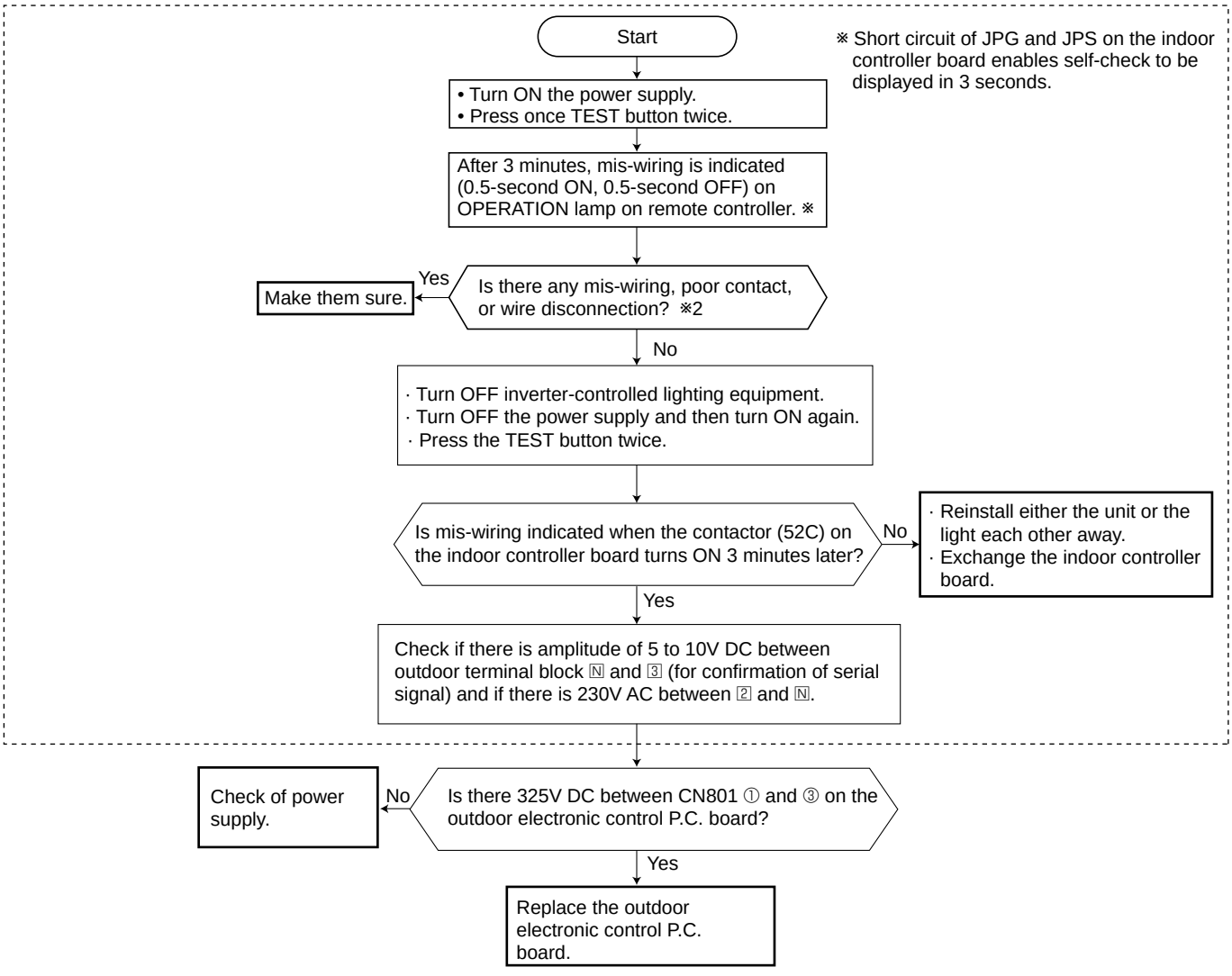
B

As for indoor unit SLZ type, refer to service manual OC302.

[SUZ-A18VR.TH SUZ-A24VR.TH]

(Only SEZ-A18AR.TH, SEZ-A24AR.TH) ERROR CODE "6800" displays on remote controller.
Outdoor unit doesn't operate. (LED display: Both LED1 and LED2 lighting)

Ⓤ How to check mis-wiring and serial signal error (when outdoor unit does not work)



As for indoor unit SEZ type, refer to service manual OC303.

SUZ-A09VR.TH SUZ-A12VR.TH

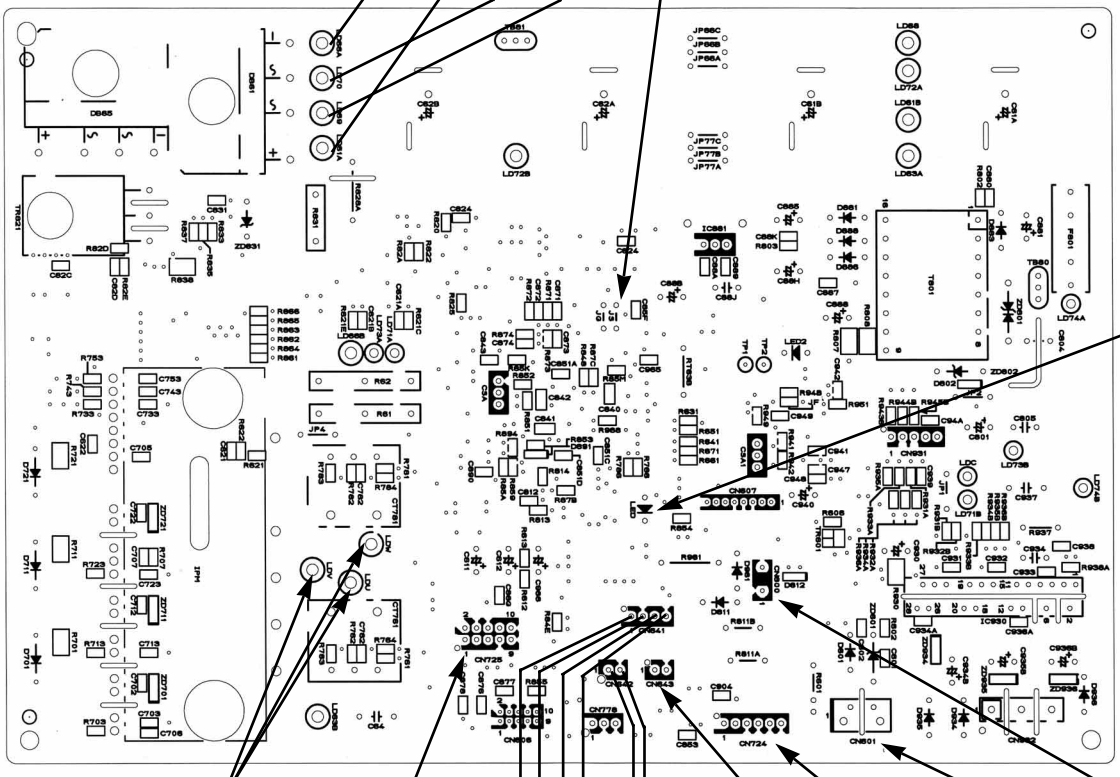
Inverter P.C. board

(Refer to page 52.)

LD66A LD61A
280V ~ 370V DC 230V AC

Jumper wire for change in defrost setting (JS)
(Refer to page 42.)

Back side of unit



LED monitor lamp

Output to drive compressor (LDU,LDV,LDW)

Connecting wire with power P.C. board (CN725)

Defrost thermistor (RT61)

Discharge temperature thermistor (RT62)

Fin temperature thermistor (RT64) (CN641)

Ambient temperature thermistor (RT65) (CN642)

LEV connector (CN724)

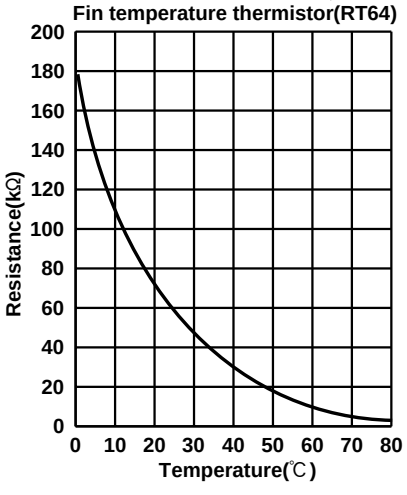
Connector for indoor/ outdoor communi-cation (CN601)

Zero cross signal connector (CN800)

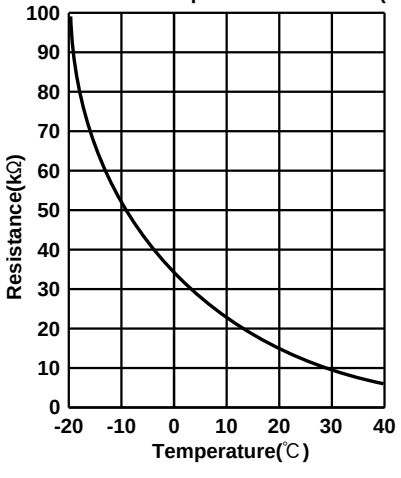
(CN643)

Front side of unit

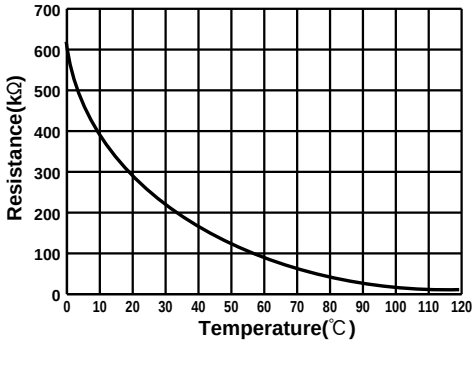
Fin temperature thermistor(RT64)



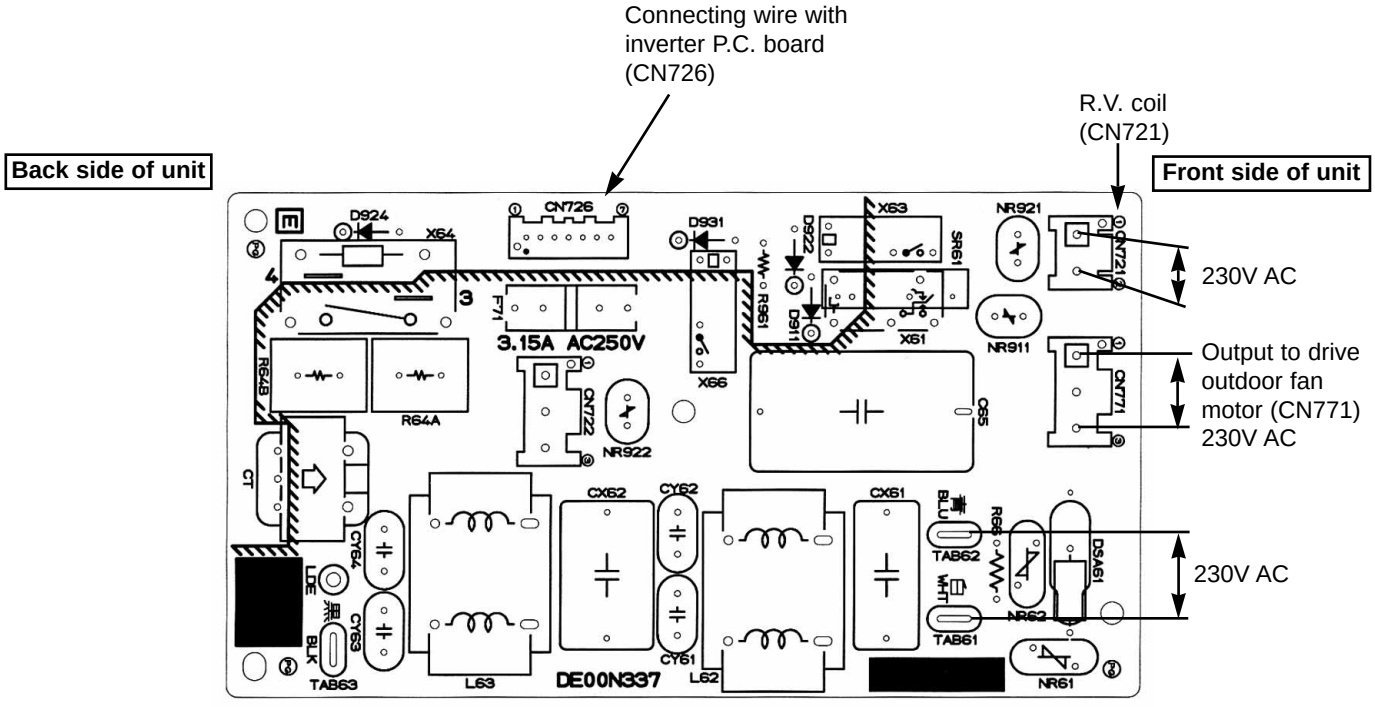
Defrost thermistor(RT61)
Ambient temperature thermistor(RT65)



Discharge temperature thermistor(RT62)

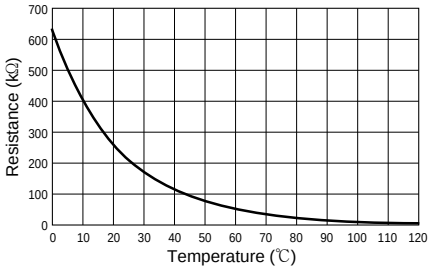


SUZ-A09VR.TH SUZ-A12VR.TH
Power P.C. board

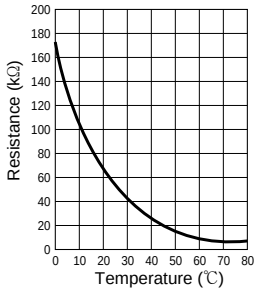


SUZ-A18VR.TH SUZ-A24VR.TH
Electronic control P.C. board

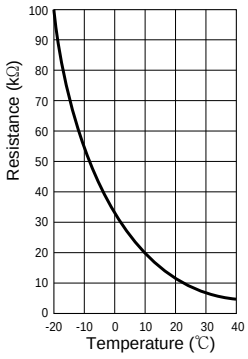
Discharge temperature thermistor (RT61)

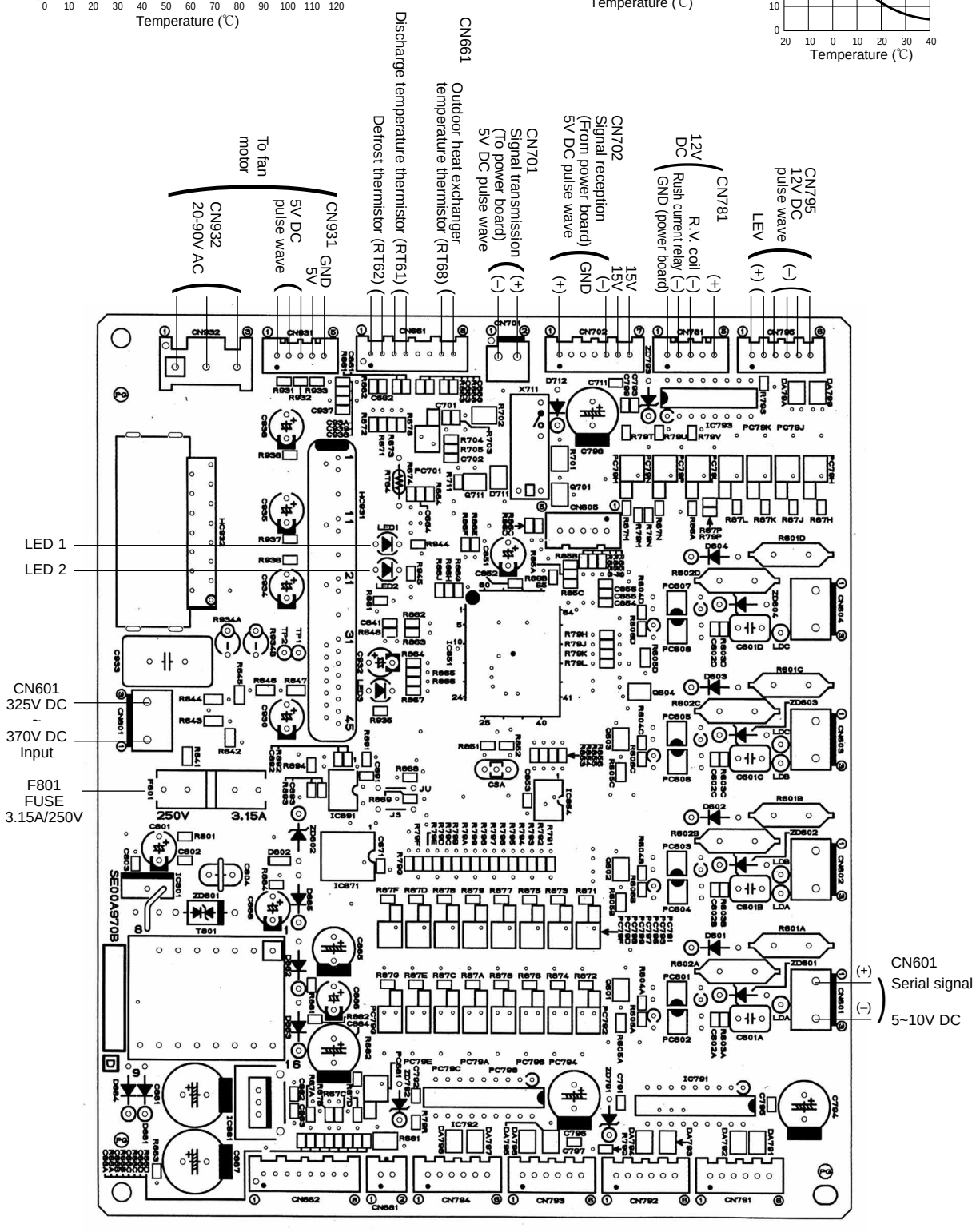


Fin temperature thermistor (RT65)

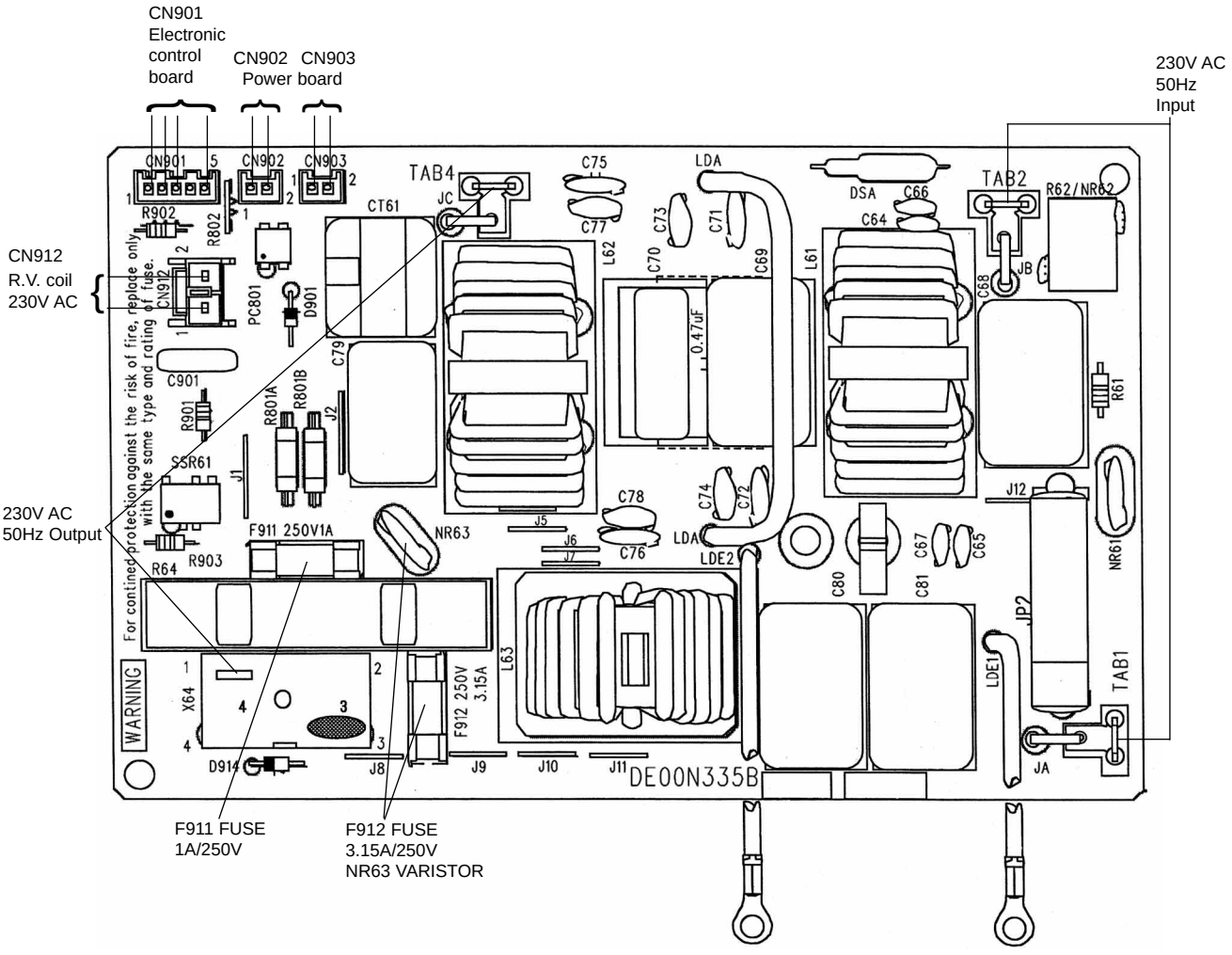


Defrost temperature thermistor (RT62)
Outdoor heat exchanger temperature thermistor (RT68)

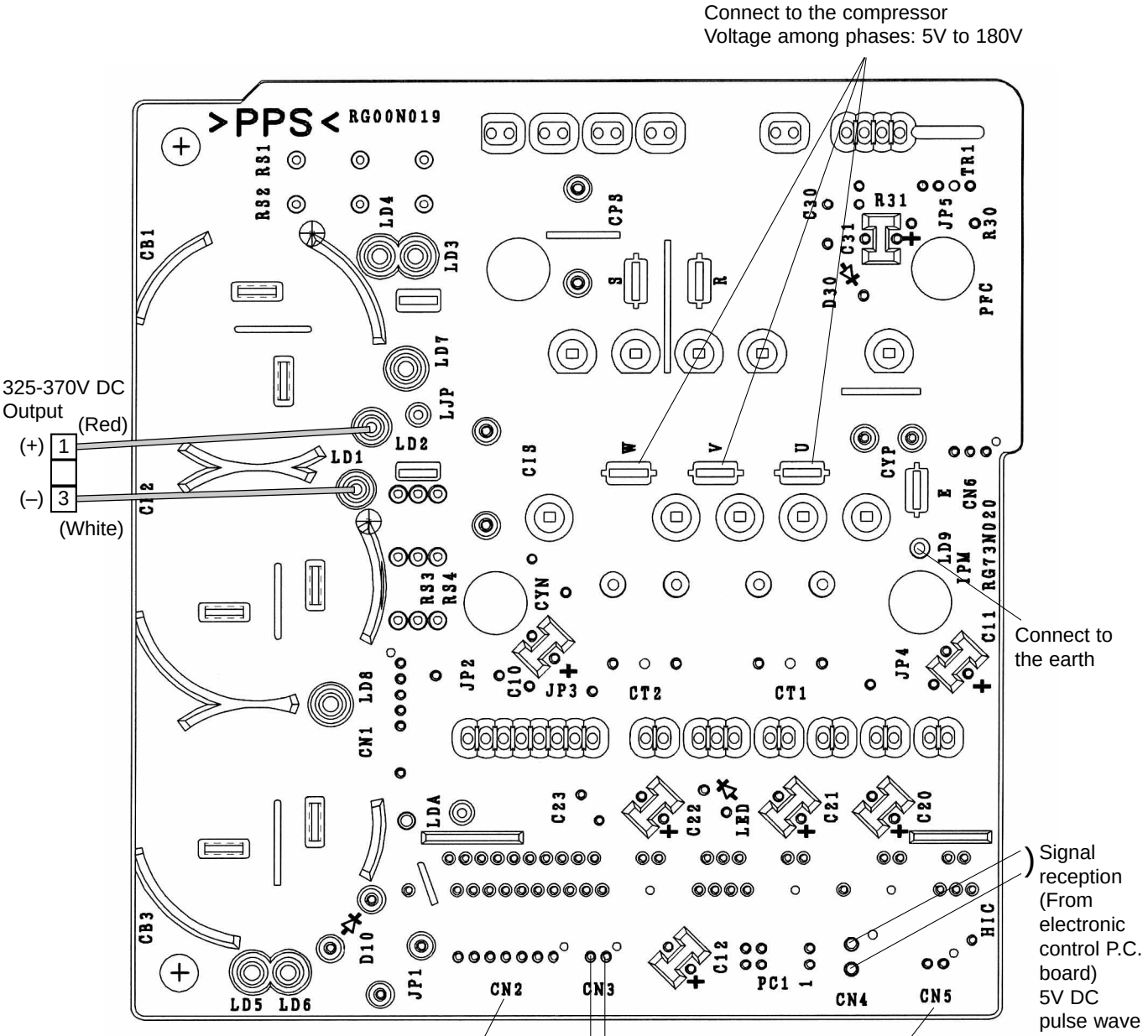




SUZ-A18VR.TH SUZ-A24VR.TH
Noise filter P.C.board



SUZ-A18VR.TH SUZ-A24VR.TH
Power board

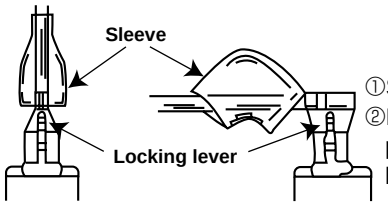


13 DISASSEMBLY INSTRUCTIONS

<"Terminal with lock mechanism" Detaching points>

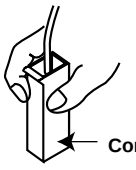
In case of terminal with lock mechanism, detach the terminal as shown below.
There are two types (Refer to (1) and (2)) of the terminal with lock mechanism.
The terminal with no lock mechanism can be removed by pulling it out.
Check the shape of the terminal and work.

(1) Slide the sleeve and check if there is a locking lever or not.



①Slide the sleeve.
②Pull the terminal while pushing the locking lever.

(2) The terminal with this connector is a terminal with lock mechanism

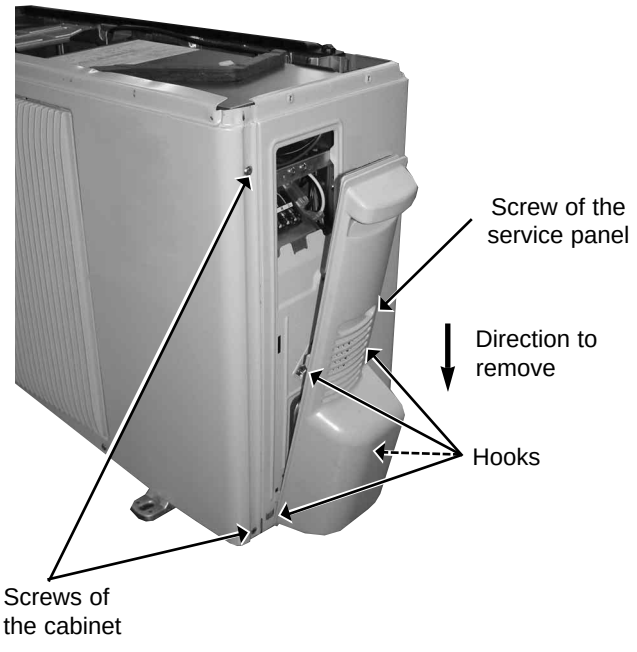


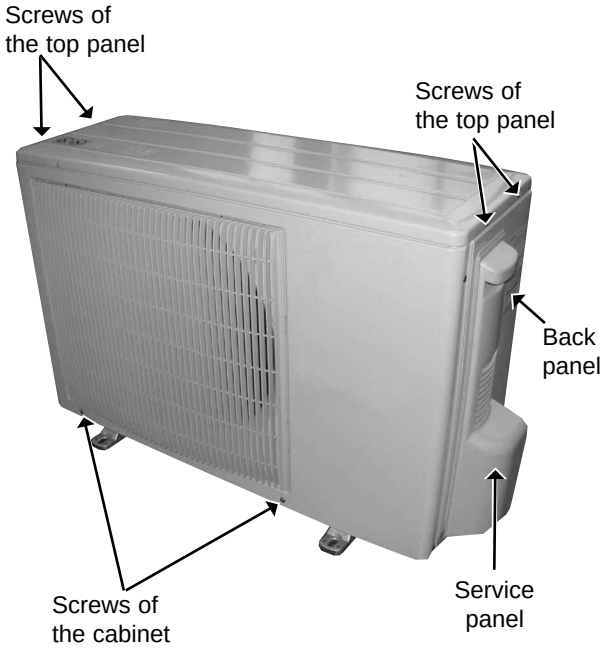
①Hold the sleeve, and pull out the terminal slowly.

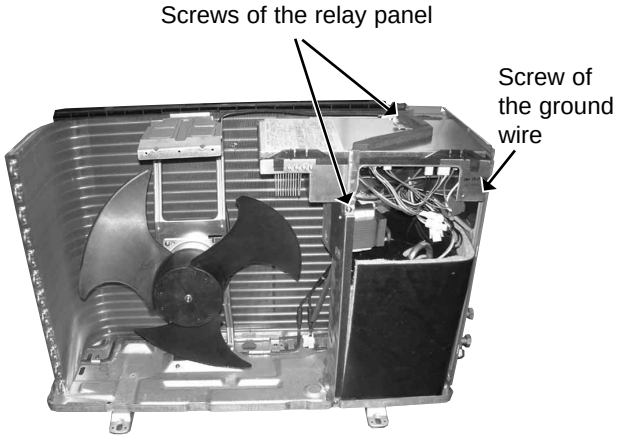
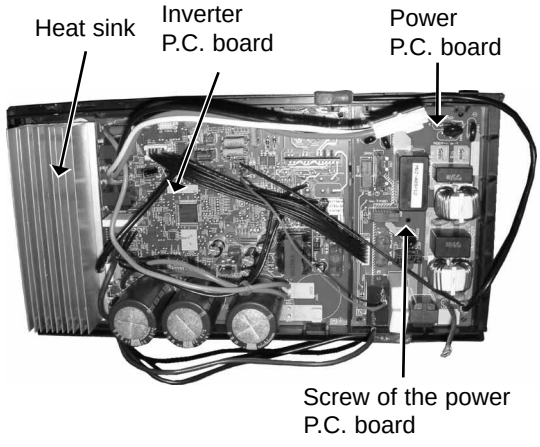
SUZ-A09VR.TH SUZ-A12VR.TH
OUTDOOR UNIT

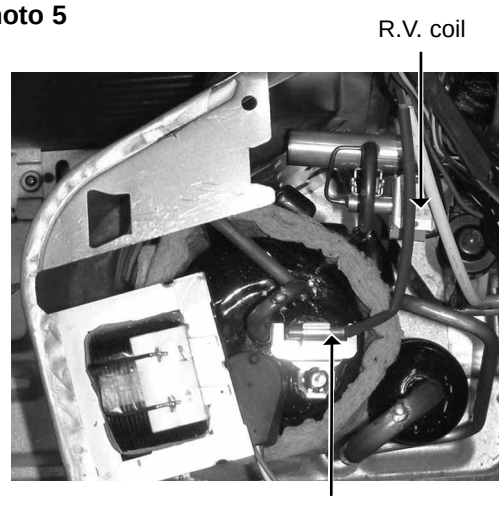
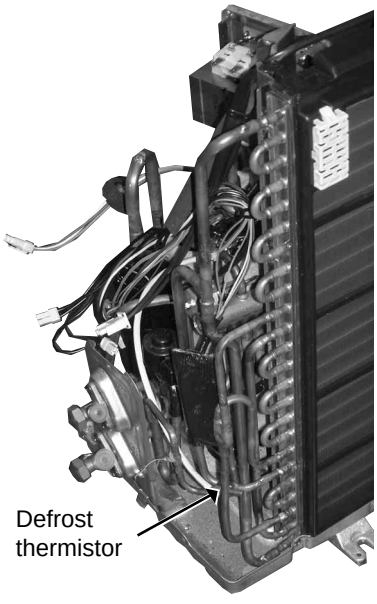
OPERATING PROCEDURE	PHOTOS
1. Removing the cabinet. (1) Remove the screws fixing the top panel. (Photo 1) (2) Remove the top panel. (Photo 1) (3) Remove the screw fixing the service panel. (Photo 2) (4) Pull down the service panel and remove it. (Photo 2) (5) Remove the screws fixing the cabinet. (6) Remove the cabinet. (7) Disconnect the indoor/outdoor connecting wire. (8) Remove the screws fixing the back panel. (9) Remove the back panel.	**Photo 1**

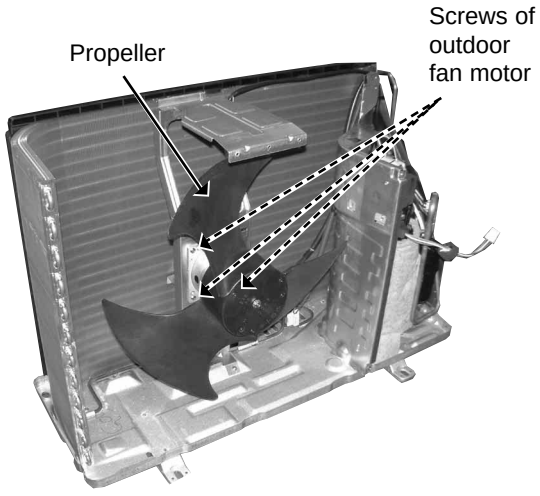
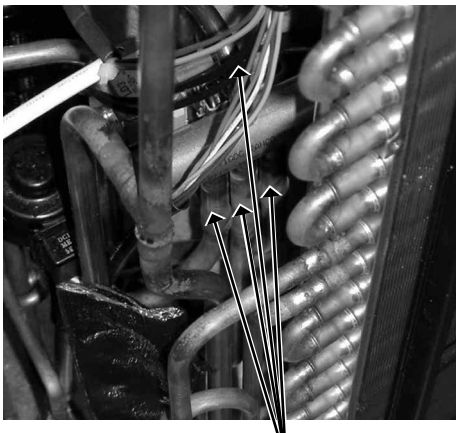
Photo 2



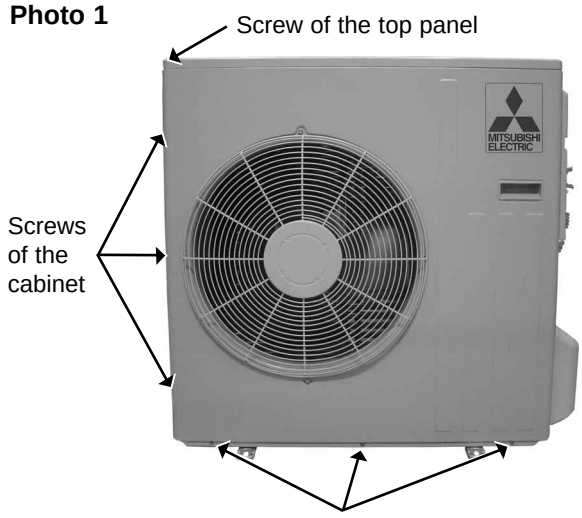
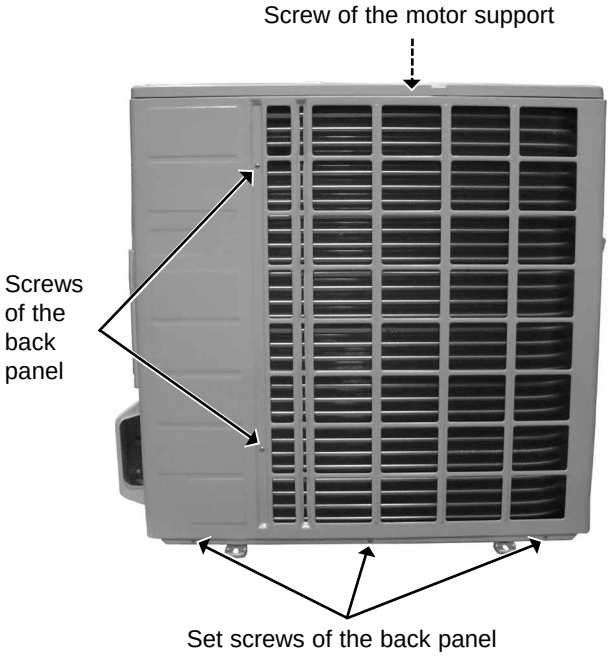
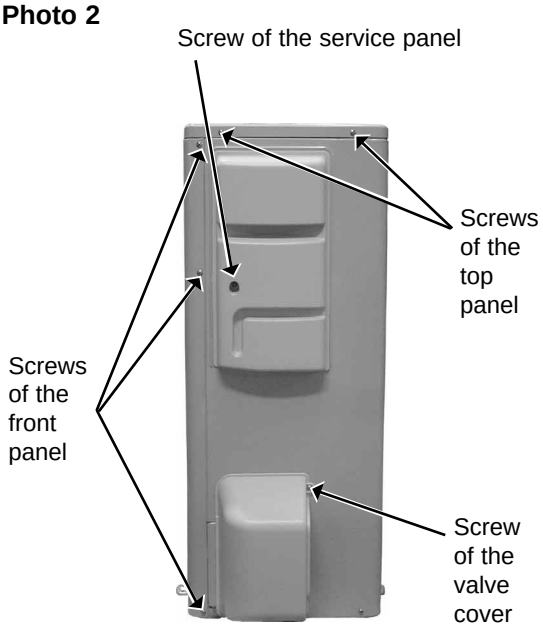


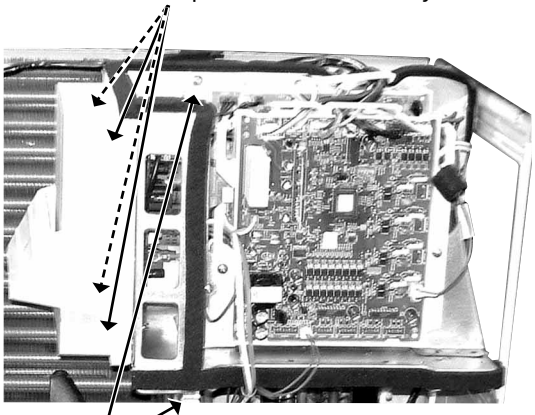
OPERATING PROCEDURE	PHOTOS
2. Removing the inverter assembly, inverter P.C. board and power P.C. board (1) Remove the top panel, cabinet and service panel. (Refer to 1.) (2) Disconnect the indoor/outdoor connecting wire and remove the back panel. (Refer to 1.) (3) Disconnect the ground wire, the lead wire to the reactor and the following connectors; <Power P.C. board> CN721 (4-way valve) CN771 (Fan motor) <Inverter P.C. board> CN641 (Defrost thermistor and discharge temperature thermistor) CN643 (Ambient temperature thermistor) CN724 (LEV) (4) Remove the compressor connector (CN61). (5) Remove the screws fixing the relay panel. (Photo 3) (6) Remove the inverter assembly. (Photo 3) (7) Disconnect all connectors and lead wires on the inverter P.C. board. (Photo 4) (8) Remove the inverter P.C. board from the inverter assembly. (9) Remove the screw fixing the power P.C. board. (Photo 4) (10) Disconnect all connectors and lead wires on the power P.C. board. (11) Remove the power P.C. board from the inverter assembly.	**Photo 3**  **Photo 4** 
3. Removing R.V. coil (1) Remove the top panel, cabinet and service panel. (Refer to 1.) (2) Disconnect the indoor/outdoor connecting wire and remove the back panel. (Refer to 1.) (3) Remove the inverter assembly. (Refer to 2.) (4) Remove the R.V. coil. (Photo 5)	

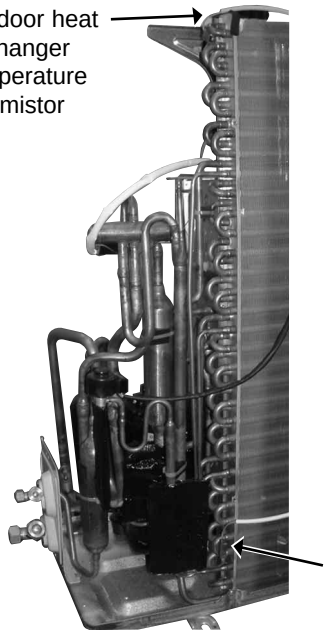
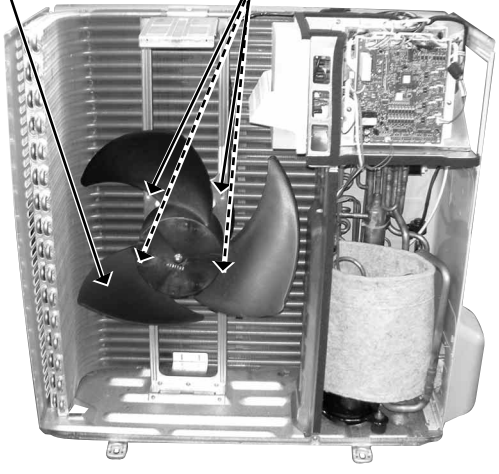
OPERATING PROCEDURE	PHOTOS
4. Removing the defrost thermistor and discharge temperature thermistor (1) Remove the top panel, cabinet and service panel. (Refer to 1.) (2) Disconnect the indoor/outdoor connecting wire and remove the back panel. (Refer to 1.) (3) Remove the inverter assembly. (Refer to 2.) (4) Pull out the defrost thermistor from its holder. (Photo 6) (5) Pull out the discharge temperature thermistor from its holder. (Photo 5)	**Photo 5**  **Photo 6** 

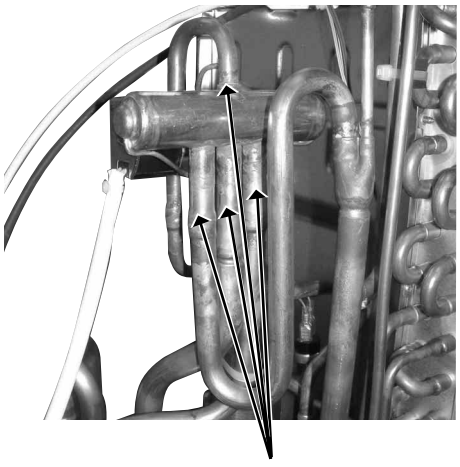
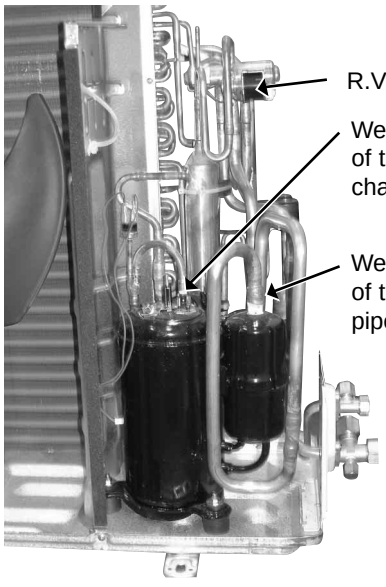
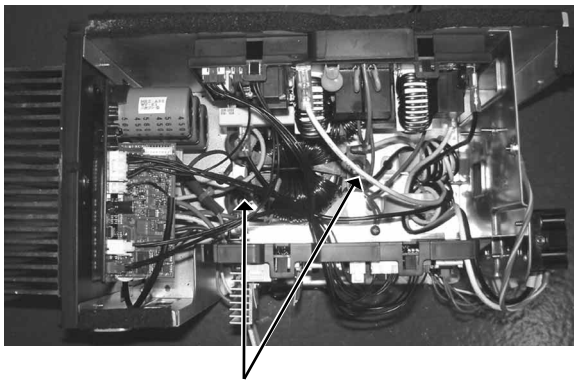
OPERATING PROCEDURE	PHOTOS
5. Removing outdoor fan motor (1) Remove the top panel, cabinet and service panel. (Refer to 1.) (2) Disconnect the indoor/outdoor connecting wire and remove the back panel. (Refer to 1.) (3) Remove the inverter assembly. (Refer to 2.) (4) Remove the propeller. (5) Remove the screws fixing the fan motor. (Photo 7) (6) Remove the fan motor. (Photo 7)	**Photo 7** 
6. Removing the compressor and 4-way valve (1) Remove the top panel, cabinet and service panel. (Refer to 1.) (2) Disconnect the indoor/outdoor connecting wire and remove the back panel. (Refer to 1.) (3) Remove the inverter assembly. (Refer to 2.) (4) Recover gas from the refrigerant circuit. (5) Detach the welded part of the suction and the discharge pipe connected with compressor. (6) Remove the compressor nuts. (7) Remove the compressor. (8) Detach the welded part of pipes connected with 4-way valve. (Photo 8) **NOTE** ● Before using a burner, reclaim gas from the pipes until the pressure gauge shows 0 kg/cm^2 (0MPa). ● Use the burner under the condition that gas can be recovered even when the inner pressure rises by heat.	**Photo 8** 

SUZ-A18VR.TH SUZ-A24VR.TH
OUTDOOR UNIT

OPERATING PROCEDURE	PHOTOS
1. Removing the cabinet (1) Remove the screws of the service panel. (2) Remove the screws of the top panel. (3) Remove the screw of the valve cover. (4) Remove the service panel. (5) Remove the top panel. (6) Remove the valve cover. (7) Remove the screws of the front panel. (8) Remove the front panel. (9) Remove the screws of the back panel. (10) Remove the back panel.	**Photo 1** 
Photo 3  	**Photo 2** 

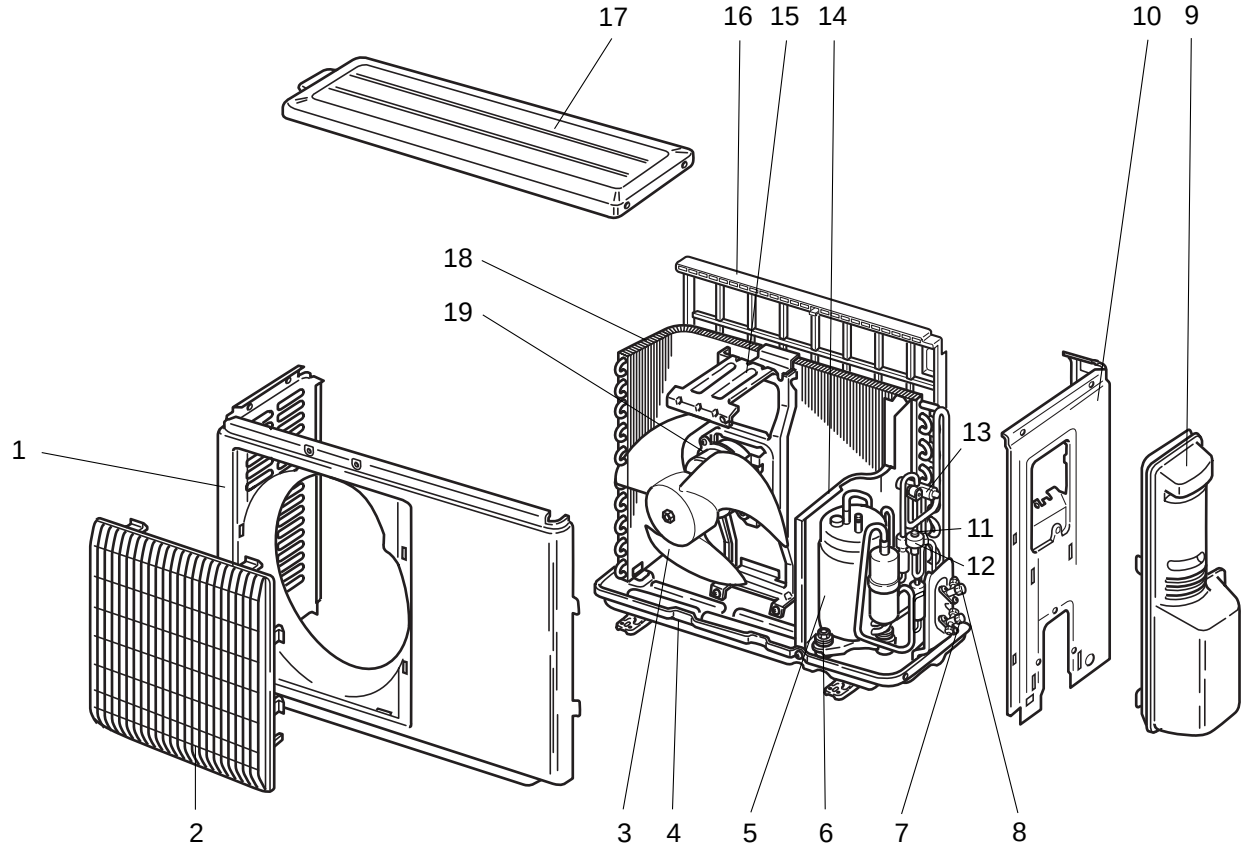
OPERATING PROCEDURE	PHOTOS
2. Removing the inverter assembly, electronic control P.C. board, noise filter P.C. board and power board (1) Remove the top panel, cabinet and service panel. (Refer to 1.) (2) Remove the back panel. (3) Disconnect the following connectors; <Electronic control P.C. board> CN931 and CN932 (Fan motor) CN975 (LEV) CN661 (Discharge temperature thermistor, defrost thermistor and outdoor heat exchanger temperature thermistor) <Noise filter P.C. board> CN912 (4-way valve) (4) Remove the compressor connector. (5) Remove the screws fixing the relay panel. (6) Remove the inverter assembly. (7) Disconnect all connectors and lead wires on the electronic control P.C. board. (8) Remove the electronic control P.C. board from the inverter assembly. (9) Remove the screws fixing the power board assembly. (10) Disconnect all connectors and lead wires on the power board. (11) Remove the power board from the inverter assembly. (12) Disconnect all connectors and lead wires on the noise filter P.C. board. (13) Remove the noise filter P.C. board from the inverter assembly.	**Photo 4** Screws of the power board assembly  Screws of the relay panel
3. Removing R.V. coil (1) Remove the top panel, cabinet and service panel. (2) Remove the back panel. (Refer to 1.) (3) Remove the inverter assembly. (Refer to 2.) (4) Remove the R.V. coil. (Photo 9)	

OPERATING PROCEDURE	PHOTOS
4. Removing the defrost thermistor, discharge temperature thermistor and outdoor heat exchanger temperature thermistor (1) Remove the top panel, cabinet and service panel. (Refer to 1.) (2) Remove the back panel. (Refer to 1.) (3) Remove the inverter assembly. (Refer to 2.) (4) Pull out the defrost thermistor from its holder. (Photo 6) (5) Pull out the discharge temperature thermistor from its holder. (Photo 5) (6) Pull out the outdoor heat exchanger temperature thermistor from its holder. (Photo 6)	**Photo 5** Discharge temperature thermistor  **Photo 6** Outdoor heat exchanger temperature thermistor  Defrost thermistor
5. Removing outdoor fan motor (1) Remove the top panel, cabinet and service panel. (Refer to 1.) (2) Remove the back panel. (Refer to 1.) (3) Remove the inverter assembly. (Refer to 2.) (4) Remove the propeller. (5) Remove the screws fixing the fan motor. (6) Remove the fan motor.	**Photo 7** Propeller Screws of the outdoor fan motor 

OPERATING PROCEDURE	PHOTOS
6. Removing the compressor and 4-way valve (1) Remove the top panel, cabinet and service panel. (Refer to 1.) (2) Remove the back panel. (Refer to 1.) (3) Remove the inverter assembly. (Refer to 2.) (4) Recover gas from the refrigerant circuit. (5) Detach the welded part of the suction and the discharge pipe connected with compressor. (Photo 9) (6) Remove the compressor nuts. (7) Remove the compressor. (8) Detach the welded part of 4-way valve and pipe. (Photo 8) **NOTE** ● Before using a burner, reclaim gas from the pipes until the pressure gauge shows 0 kg/cm^2 (0MPa). ● Use the burner under the condition that gas can be recovered even when the inner pressure rises by heat.	**Photo 8**  Welded parts of 4-way valve **Photo 9** 
7. Removing the reactor (1) Remove the top panel. (Refer to 1.) (2) Disconnect the reactor lead wire. (3) Remove the screws of the reactor, and remove the reactor.	**Photo 10**  Screws of the reactor

14 PARTS LIST

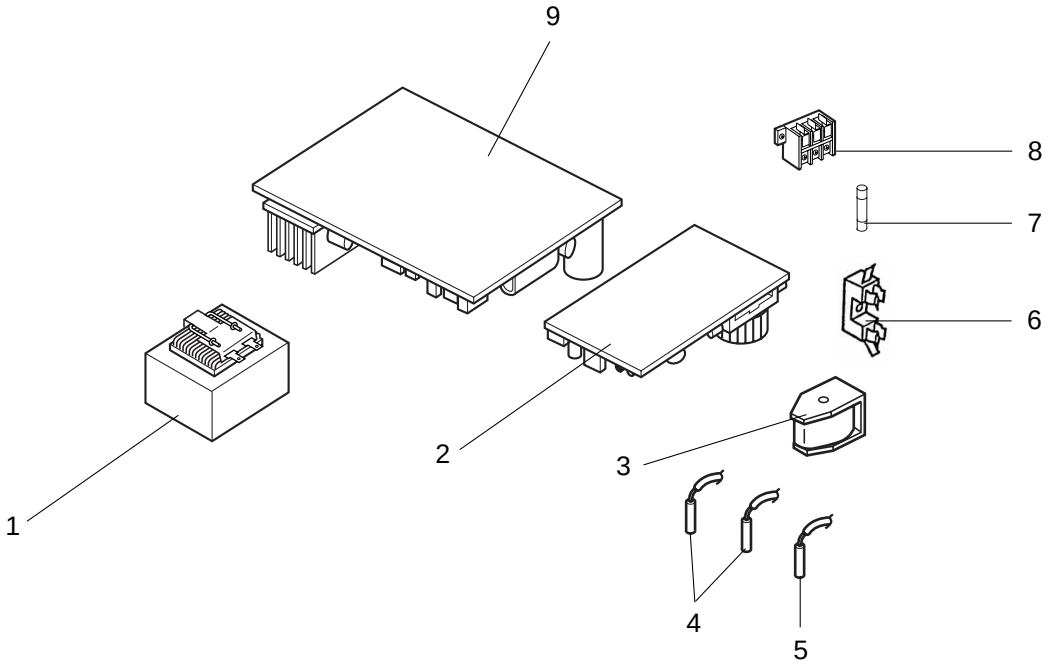
SUZ-A09VR.TH
SUZ-A12VR.TH
14-1. OUTDOOR UNIT STRUCTURAL PARTS AND FUNCTIONAL PARTS



Part number that is circled is not shown in the illustration.

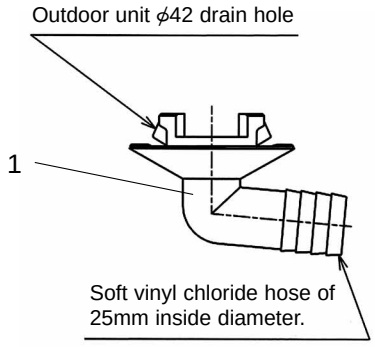
No.	Part No.	Part Name	Symbol in Wiring Diagram	Q'ty/unit		Remarks
				SUZ-A09VR.TH	SUZ-A12VR.TH	
1	E02 838 232	CABINET		1	1	
2	E02 838 521	GRILLE		1	1	
3	E02 838 501	PROPELLER		1	1	
4	E02 838 290	BASE		1	1	
5	E02 838 900	COMPRESSOR	MC	1		KNB073FBVH
	E02 839 900	COMPRESSOR	MC		1	KNB092FAAH
6	E02 065 506	COMPRESSOR RUBBER SET		3	3	3RUBBERS/SET
7	E02 838 661	STOP VALVE (GAS)		1	1	ϕ9.52
8	E02 838 662	STOP VALVE (LIQUID)		1	1	ϕ6.35
9	E02 838 245	SERVICE PANEL		1	1	
10	E02 838 233	BACK PANEL		1	1	
11	E02 838 640	EXPANSION VALVE		1	1	
12	E02 838 493	EXPANSION VALVE COIL	LEV	1	1	
13	E02 838 961	4-WAY VALVE		1	1	
14	E02 838 293	SEPARATOR		1	1	
15	E02 838 515	MOTOR SUPPORT		1	1	
16	E02 838 523	CONDENSER NET		1	1	
17	E02 838 297	TOP PANEL		1	1	
18	E02 838 630	OUTDOOR HEAT EXCHANGER		1		
	E02 839 630	OUTDOOR HEAT EXCHANGER			1	
19	E02 838 301	OUTDOOR FAN MOTOR	MF	1	1	RA6V21-□□
⑳	E02 282 937	CAPILLARY TUBE		1	1	ϕ3.0×ϕ2.0×200

SUZ-A09VR.TH
SUZ-A12VR.TH
14-2. OUTDOOR UNIT
ELECTRICAL PARTS



No.	Part No.	Part Name	Symbol in Wiring Diagram	Q'ty/unit		Remarks
				SUZ-A09VR.TH	SUZ-A12VR.TH	
1	E02 838 337	REACTOR	L61	1	1	
2	E02 838 444	POWER P.C. BOARD		1	1	
3	E02 838 490	REVERSING VALVE COIL	21S4	1	1	
4	E02 838 306	THERMISTOR SET	RT61,RT62	1	1	DEFROST, DISCHARGE
5	E02 838 308	AMBIENT TEMPERATURE THERMISTOR	RT65	1	1	
6	E02 735 241	FUSE HOLDER		1	1	
7	E02 735 382	FUSE	F61	1	1	250V/20A
8	E02 838 374	TERMINAL BLOCK	TB	1	1	3P
9	E07 146 451	INVERTER P.C. BOARD		1		Including heat sink and RT64
	E07 147 451	INVERTER P.C. BOARD			1	Including heat sink and RT64

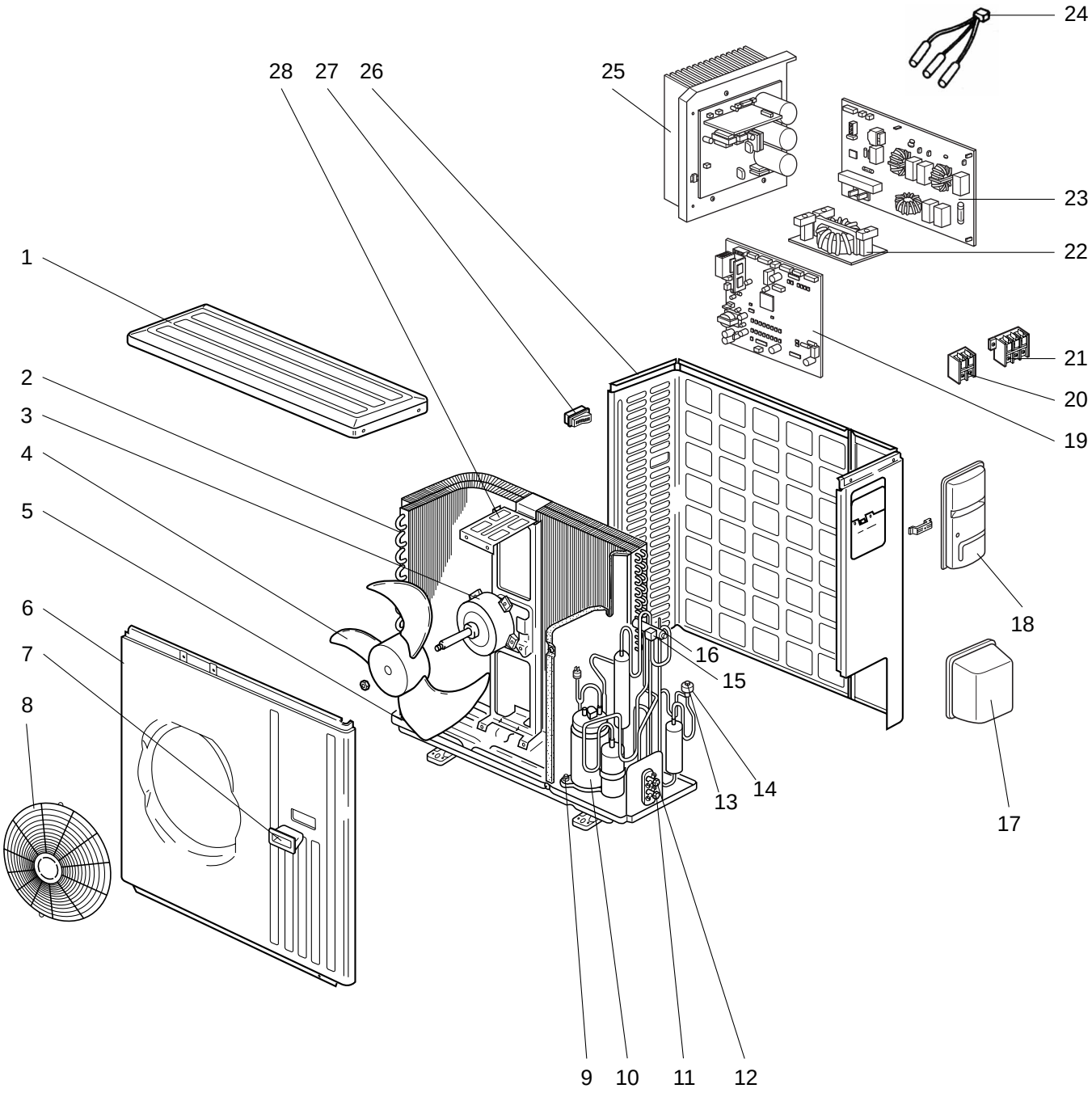
SUZ-A09VR.TH
SUZ-A12VR.TH
14-3. DRAIN SOCKET



No.	Parts No.	Parts Name	Symbol in Wiring Diagram	Q'ty/unit		Remarks
				SUZ-A09VR.TH	SUZ-A12VR.TH	
1	E02 838 704	DRAIN SOCKET		1	1	

SUZ-A18VR.TH
SUZ-A24VR.TH

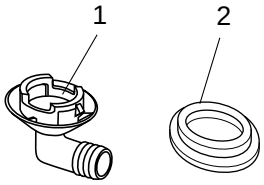
14-4. OUTDOOR UNIT STRUCTURAL PARTS, ELECTRICAL PARTS AND FUNCTIONAL PARTS



Part numbers that are circled are not shown in the illustration.

No.	Part No.	Part Name	Symbol in Wiring Diagram	Q'ty/unit		Remarks
				SUZ-A18VR.TH	SUZ-A24VR.TH	
1	E02 819 297	TOP PANEL		1	1	
2	E02 851 630	OUTDOOR HEAT EXCHANGER		1	1	
3	E02 851 301	OUTDOOR FAN MOTOR	MF	1	1	PM8H60- □□
4	E02 851 501	PROPELLER		1	1	
5	E02 851 290	BASE		1	1	
6	E02 819 232	CABINET		1	1	
7	E02 819 009	HANDLE		1	1	
8	E02 819 521	FAN GUARD		1	1	
9	E02 065 506	COMPRESSOR RUBBER SET		3	3	3RUBBERS/SET
10	E02 851 900	COMPRESSOR	MC	1	1	SNB130FLDH
11	E02 851 661	STOP VALVE(GAS)		1		ϕ12.7
	E02 819 661	STOP VALVE(GAS)			1	ϕ15.88
12	E02 821 662	STOP VALVE(LIQUID)		1	1	ϕ6.35
13	E02 851 640	EXPANSION VALVE		1	1	
14	E02 851 493	EXPANSION VALVE COIL	LEV	1	1	
15	E02 851 490	R.V. COIL	21S4	1	1	
16	E02 891 961	4-WAY VALVE		1	1	
17	E02 819 650	VALVE COVER		1	1	
18	E02 819 245	SERVICE PANEL		1	1	
19	E02 851 450	OUTDOOR ELECTRONIC CONTROL P.C. BOARD		1		
	E02 852 450	OUTDOOR ELECTRONIC CONTROL P.C. BOARD			1	
20	E02 836 374	TERMINAL BLOCK	TB2	1	1	2P
21	E02 823 375	TERMINAL BLOCK	TB1	1	1	3P
22	E02 851 337	REACTOR	L	1	1	
23	E02 851 444	NOISE FILTER P.C. BOARD		1	1	
24	E02 851 308	THERMISTOR SET	RT61,RT62,RT68	1	1	DISCHARGE, DEFROST OUTDOOR HEAT EXCHANGER
25	E02 851 440	POWER BOARD		1	1	Including heat sink and RT65
26	E02 819 233	BACK PANEL(OUT)		1	1	
27	E02 817 009	HANDLE		1	1	
28	E02 851 515	MOTOR SUPPORT		1	1	
㉙	E02 127 382	FUSE	F801	1	1	250V/3.15A
㉚	E02 737 382	FUSE	F911	1	1	250V/1A
㉛	E02 735 385	FUSE & VARISTOR	F912,NR63	1	1	250V/3.15A
㉜	E02 851 936	CAPILLARY TUBE(TAPER PIPE)		1	1	ϕ3.6xϕ2.4x50

SUZ-A18VR.TH
SUZ-A24VR.TH
14-5. ACCESSORY



No.	Part No.	Part Name	Symbol in Wiring Diagram	Q'ty/unit		Remarks
				SUZ-A18VR.TH	SUZ-A24VR.TH	
1	E02 817 704	DRAIN SOCKET		1	1	
2	E02 444 705	DRAIN CAP		2	2	ϕ33

MITSUBISHI ELECTRIC CORPORATION
HEAD OFFICE: MITSUBISHI DENKI BLDG., 2-2-3, MARUNOUCHI, CHIYODA-KU, TOKYO100-8310, JAPAN

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