



SPLIT-TYPE AIR CONDITIONERS

OUTDOOR UNIT

SERVICE MANUAL



No. OBH931

Models

MUZ-AY25VG - **E1**, **ET1**, **ER1**

MUZ-AY35VG - **E1**, **ET1**, **ER1**

MUZ-AY42VG - **E1**, **ET1**, **ER1**

MUZ-AY50VG - **E1**, **ET1**, **ER1**

MUZ-AY25VGH - **SC1**

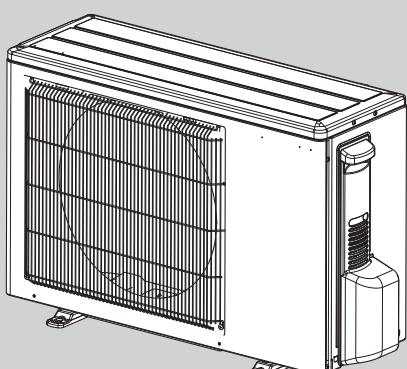
MUZ-AY35VGH - **SC1**

MUZ-AY42VGH - **SC1**

MUZ-AY50VGH - **SC1**

Indoor unit service manual
MSZ-AY•VG, VGK, VGKP Series (OBH930, 932)

MUZ-AY25VG MUZ-AY25VGH
MUZ-AY35VG MUZ-AY35VGH
MUZ-AY42VG MUZ-AY42VGH



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PARTS CATALOG (OBB931)

Use the specified refrigerant only

Never use any refrigerant other than that specified.

Doing so may cause a burst, an explosion, or fire when the unit is being used, serviced, or disposed of.

Correct refrigerant is specified in the manuals and on the spec labels provided with our products.

We will not be held responsible for mechanical failure, system malfunction, unit breakdown or accidents caused by failure to follow the instructions.

<Preparation before the repair service>

- Prepare the proper tools.
- Prepare the proper protectors.
- Provide adequate ventilation.
- After stopping the operation of the air conditioner, turn off the power-supply breaker and pull the power plug.
- Discharge the capacitor before the work involving the electric parts.

<Precautions during the repair service>

- Do not perform the work involving the electric parts with wet hands.
- Do not pour water into the electric parts.
- Do not touch the refrigerant.
- Do not touch the hot or cold areas in the refrigeration cycle.
- When the repair or the inspection of the circuit needs to be done without turning off the power, exercise great caution not to touch the live parts.

WARNING

- When the refrigeration circuit has a leak, do not execute pump down with the compressor.
- When pumping down the refrigerant, stop the compressor before disconnecting the refrigerant pipes.
The compressor may burst if air etc. get into it.
- When opening or closing the valve below freezing temperatures, refrigerant may spurt out from the gap between the valve stem and the valve body, resulting in injuries.

MUZ-AY25VG - [E1], [ET1], [ER1]

MUZ-AY35VG - [E1], [ET1], [ER1]

MUZ-AY42VG - [E1], [ET1], [ER1]

MUZ-AY50VG - [E1], [ET1], [ER1]

MUZ-AY25VGH - [SC1]

MUZ-AY35VGH - [SC1]

MUZ-AY42VGH - [SC1]

MUZ-AY50VGH - [SC1]

1. New model

Servicing precautions for units using refrigerant R32**WARNING**

This unit uses a flammable refrigerant.

If refrigerant leaks and comes in contact with fire or heating part, it will create harmful gas and there is risk of fire.

- Do not use means to accelerate the defrosting process or to clean, other than those recommended by the manufacturer.
- The appliance shall be stored in a room without continuously operating ignition sources (for example: open flames, an operating gas appliance or an operating electric heater.)
- Do not pierce or burn.
- Be aware that refrigerants may not contain an odor.
- Pipe-work shall be protected from physical damage.
- The installation of pipe-work shall be kept to a minimum.
- Compliance with national gas regulations shall be observed.
- Keep any required ventilation openings clear of obstruction.
- Servicing shall be performed only as recommended by the manufacturer.
- The appliance shall be stored so as to prevent mechanical damage from occurring.

Basic work procedures are the same as those for conventional units using refrigerant R410A.

However, pay careful attention to the following points.

1. Information on servicing
 - (1) Checks on the Area

Prior to beginning work on systems containing flammable refrigerants, safety checks are necessary to ensure that the risk of ignition is minimized.
 - (2) Work Procedure

Work shall be undertaken under a controlled procedure so as to minimize the risk of a flammable gas or vapor being present while the work is being performed.
 - (3) General Work Area

All maintenance staff and others working in the local area shall be instructed on the nature of work being carried out. Work in confined spaces shall be avoided. The area around the workspace shall be sectioned off. Ensure that the conditions within the area have been made safe by control of flammable material.
 - (4) Checking for Presence of Refrigerant

The area shall be checked with an appropriate refrigerant detector prior to and during work, to ensure the technician is aware of potentially toxic or flammable atmospheres. Ensure that the leak detection equipment being used is suitable for use with all applicable refrigerants, i.e. non-sparking, adequately sealed or intrinsically safe.
 - (5) Presence of Fire Extinguisher

If any hot work is to be conducted on the refrigeration equipment or any associated parts, appropriate fire extinguishing equipment shall be available to hand. Have a dry powder or CO₂ fire extinguisher adjacent to the charging area.
 - (6) No Ignition Sources

No person carrying out work in relation to a refrigeration system which involves exposing any pipe work shall use any sources of ignition in such a manner that it may lead to the risk of fire or explosion. All possible ignition sources, including cigarette smoking, should be kept sufficiently far away from the site of installation, repairing, removing and disposal, during which refrigerant can possibly be released to the surrounding space. Prior to work taking place, the area around the equipment is to be surveyed to make sure that there are no flammable hazards or ignition risks. "No Smoking" signs shall be displayed.
 - (7) Ventilated Area

Ensure that the area is in the open or that it is adequately ventilated before breaking into the system or conducting any hot work. A degree of ventilation shall continue during the period that the work is carried out. The ventilation should safely disperse any released refrigerant and preferably expel it externally into the atmosphere.
 - (8) Checks on the Refrigeration Equipment

Where electrical components are being changed, they shall be fit for the purpose and to the correct specification. At all times the manufacturer's maintenance and service guidelines shall be followed. If in doubt, consult the manufacturer's technical department for assistance.

The following checks shall be applied to installations using flammable refrigerants:

 - The charge size is in accordance with the room size within which the refrigerant containing parts are installed.
 - The ventilation machinery and outlets are operating adequately and are not obstructed.
 - If an indirect refrigerating circuit is being used, the secondary circuit shall be checked for the presence of refrigerant.
 - Marking to the equipment continues to be visible and legible. Markings and signs that are illegible shall be corrected.
 - Refrigeration pipe or components are installed in a position where they are unlikely to be exposed to any substance which may corrode refrigerant containing components, unless the components are constructed of materials which are inherently resistant to being corroded or are suitably protected against being corroded.
 - (9) Checks on Electrical Devices

Repair and maintenance to electrical components shall include initial safety checks and component inspection procedures. If a fault exists that could compromise safety, then no electrical supply shall be connected to the circuit until it is satisfactorily dealt with. If the fault cannot be corrected immediately but it is necessary to continue operation, an adequate temporary solution shall be used. This shall be reported to the owner of the equipment so all parties are advised.

Initial safety checks shall include that:

 - capacitors are discharged: this shall be done in a safe manner to avoid possibility of sparking;
 - no live electrical components and wiring are exposed while charging, recovering or purging the system;
 - there is continuity of earth bonding
2. Repairs to Sealed Components
 - (1) During repairs to sealed components, all electrical supplies shall be disconnected from the equipment being worked upon prior to any removal of sealed covers, etc. If it is absolutely necessary to have an electrical supply to equipment during servicing, then a permanently operating form of leak detection shall be located at the most critical point to warn of a potentially hazardous situation.
 - (2) Particular attention shall be paid to the following to ensure that by working on electrical components, the casing is not altered in such a way that the level of protection is affected. This shall include damage to cables, excessive number of connections, terminals not made to original specification, damage to seals, incorrect fitting of glands, etc.

Ensure that the apparatus is mounted securely.

Ensure that seals or sealing materials have not degraded to the point that they no longer serve the purpose of preventing the ingress of flammable atmospheres. Replacement parts shall be in accordance with the manufacturer's specifications.
3. Repair to Intrinsically Safe Components

Do not apply any permanent inductive or capacitance loads to the circuit without ensuring that this will not exceed the permissible voltage and current permitted for the equipment in use.

Intrinsically safe components are the only types that can be worked on while live in the presence of a flammable atmosphere. The test apparatus shall be at the correct rating.

Replace components only with parts specified by the manufacturer. Other parts may result in the ignition of refrigerant in the atmosphere from a leak.
4. Cabling

Check that cabling will not be subject to wear, corrosion, excessive pressure, vibration, sharp edges or any other adverse environmental effects. The check shall also take into account the effects of aging or continual vibration from sources such as compressors or fans.

5. Detection of Flammable Refrigerants

Under no circumstances shall potential sources of ignition be used in the searching for or detection of refrigerant leaks. A halide torch (or any other detector using a naked flame) shall not be used.

6. Leak Detection Methods

Electronic leak detectors may be used to detect refrigerant leaks but, in the case of flammable refrigerants, the sensitivity may not be adequate, or may need recalibration. (Detection equipment shall be calibrated in a refrigerant-free area.) Ensure that the detector is not a potential source of ignition and is suitable for the refrigerant used. Leak detection equipment shall be set at a percentage of the LFL of the refrigerant and shall be calibrated to the refrigerant employed, and the appropriate percentage of gas (25 % maximum) is confirmed.

Leak detection fluids are suitable for use with most refrigerants but the use of detergents containing chlorine shall be avoided as the chlorine may react with the refrigerant and corrode the copper pipe-work.

If a leak is suspected, all naked flames shall be removed/extinguished.

If a leakage of refrigerant is found which requires brazing, all of the refrigerant shall be recovered from the system, or isolated (by means of shut off valves) in a part of the system remote from the leak. For appliances containing flammable refrigerants, oxygen free nitrogen (OFN) shall then be purged through the system both before and during the brazing process.

7. Removal and Evacuation

When breaking into the refrigerant circuit to make repairs - or for any other purpose conventional procedures shall be used. However, for flammable refrigerants it is important that best practice is followed since flammability is a consideration. The following procedure shall be adhered to:

- remove refrigerant
- purge the circuit with inert gas
- evacuate
- purge again with inert gas
- open the circuit by cutting or brazing.

The refrigerant charge shall be recovered into the correct recovery cylinders. For appliances containing flammable refrigerants, the system shall be "flushed" with OFN to render the unit safe. This process may need to be repeated several times. Compressed air or oxygen shall not be used for purging refrigerant systems.

For appliances containing flammable refrigerants, flushing shall be achieved by breaking the vacuum in the system with OFN and continuing to fill until the working pressure is achieved, then venting to atmosphere, and finally pulling down to a vacuum. This process shall be repeated until no refrigerant is within the system. When the final OFN charge is used, the system shall be vented down to atmospheric pressure to enable work to take place. This operation is absolutely vital if brazing operations on the pipe-work are to take place.

Ensure that the outlet for the vacuum pump is not close to any ignition sources and that ventilation is available.

8. Charging Procedures

In addition to conventional charging procedures, the following requirements shall be followed:

- Ensure that contamination of different refrigerants does not occur when using charging equipment. Hoses or lines shall be as short as possible to minimize the amount of refrigerant contained in them.
- Cylinders shall be kept upright.
- Ensure that the refrigeration system is earthed prior to charging the system with refrigerant.
- Label the system when charging is complete (if not already).
- Extreme care shall be taken not to overfill the refrigeration system.

Prior to recharging the system, it shall be pressure-tested with the appropriate purging gas. The system shall be leak-tested on completion of charging but prior to commissioning. A follow up leak test shall be carried out prior to leaving the site.

9. Decommissioning

Before carrying out this procedure, it is essential that the technician is completely familiar with the equipment and all its detail. It is recommended good practice that all refrigerants are recovered safely. Prior to the task being carried out, an oil and refrigerant sample shall be taken in case analysis is required prior to reuse of reclaimed refrigerant. It is essential that electrical power is available before the task is commenced.

(1) Become familiar with the equipment and its operation.

(2) Isolate system electrically.

(3) Before attempting the procedure, ensure that:

- mechanical handling equipment is available, if required, for handling refrigerant cylinders;
- all personal protective equipment is available and being used correctly;
- the recovery process is supervised at all times by a competent person;
- recovery equipment and cylinders conform to the appropriate standards.

(4) Pump down refrigerant system, if possible.

(5) If a vacuum is not possible, make a manifold so that refrigerant can be removed from various parts of the system.

(6) Make sure that cylinder is situated on the scales before recovery takes place.

(7) Start the recovery machine and operate in accordance with manufacturer's instructions.

(8) Do not overfill cylinders. (no more than 80 % volume liquid charge).

(9) Do not exceed the maximum working pressure of the cylinder, even temporarily.

(10) When the cylinders have been filled correctly and the process completed, make sure that the cylinders and the equipment are removed from site promptly and all isolation valves on the equipment are closed off.

(11) Recovered refrigerant shall not be charged into another refrigeration system unless it has been cleaned and checked.

10. Labeling

Equipment shall be labeled stating that it has been de-commissioned and emptied of refrigerant. The label shall be dated and signed. For appliances containing flammable refrigerants, ensure that there are labels on the equipment stating the equipment contains flammable refrigerant.

11. Recovery

When removing refrigerant from a system, either for servicing or decommissioning, it is recommended good practice that all refrigerants are removed safely.

When transferring refrigerant into cylinders, ensure that only appropriate refrigerant recovery cylinders are employed. Ensure that the correct number of cylinders for holding the total system charge are available. All cylinders to be used are designated for the recovered refrigerant and labeled for that refrigerant (i.e. special cylinders for the recovery of refrigerant). Cylinders shall be complete with pressure-relief valve and associated shut-off valves in good working order. Empty recovery cylinders are evacuated and, if possible, cooled before recovery occurs.

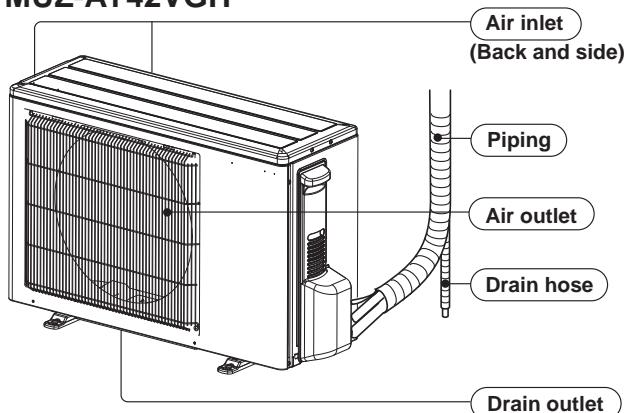
The recovery equipment shall be in good working order with a set of instructions concerning the equipment that is at hand and shall be suitable for the recovery of all appropriate refrigerants including, when applicable, flammable refrigerants. In addition, a set of calibrated weighing scales shall be available and in good working order. Hoses shall be complete with leak-free disconnect couplings and in good condition. Before using the recovery machine, check that it is in satisfactory working order, has been properly maintained and that any associated electrical components are sealed to prevent ignition in the event of a refrigerant release. Consult manufacturer if in doubt.

The recovered refrigerant shall be returned to the refrigerant supplier in the correct recovery cylinder, and the relevant waste transfer note arranged. Do not mix refrigerants in recovery units and especially not in cylinders.

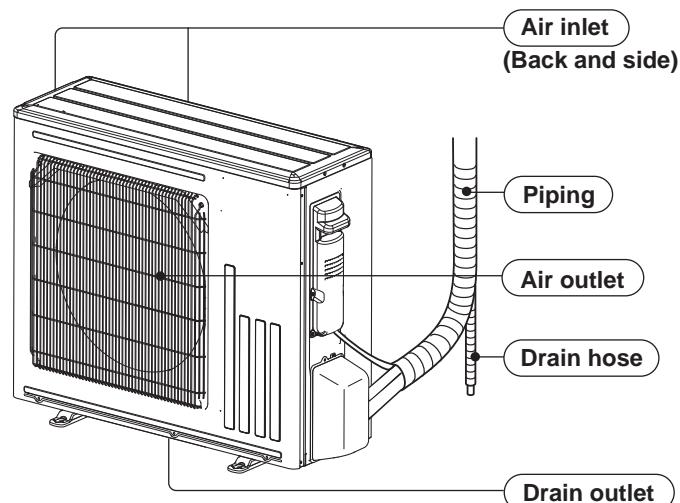
If compressors or compressor oils are to be removed, ensure that they have been evacuated to an acceptable level to make certain that flammable refrigerant does not remain within the lubricant. The evacuation process shall be carried out prior to returning the compressor to the suppliers. Only electric heating to the compressor body shall be employed to accelerate this process. When oil is drained from a system, it shall be carried out safely.

PART NAMES AND FUNCTIONS

MUZ-AY25VG
MUZ-AY35VG
MUZ-AY42VG
MUZ-AY25VGH
MUZ-AY35VGH
MUZ-AY42VGH



MUZ-AY50VG
MUZ-AY50VGH



ACCESSORIES

MODELS	MUZ-AY25VG MUZ-AY35VG MUZ-AY42VG MUZ-AY50VG
Drain socket	1

Outdoor model			MUZ-AY25VG MUZ-AY25VGH	MUZ-AY35VG MUZ-AY35VGH	MUZ-AY42VG MUZ-AY42VGH	MUZ-AY50VG MUZ-AY50VGH		
Power supply			Single phase, 230 V, 50 Hz					
Capacity Rated (Min.-Max.)	Cooling	kW	2.5 (0.9 - 3.4)	3.5 (1.1 - 3.8)	4.2 (0.9 - 4.5)	5.0 (1.4 - 5.4)		
	Heating		3.2 (1.0 - 4.1)	4.0 (1.3 - 4.6)	5.2 (1.3 - 6.0)	5.5 (1.4 - 7.3)		
Breaker Capacity		A	10		16			
Electrical data	Power input *1 (Set)	Cooling	W	600	990	1,300		
		Heating		780	1,030	1,390		
	Running current *1 (Set)	Cooling	A	2.9	4.5	5.8		
		Heating		3.6	4.7	6.1		
	Power factor *1 (Set)	Cooling	%	89	95	97		
		Heating		94	95	99		
	Starting current *1 (Set)		A	3.6	4.7	6.1		
	Coefficient of performance (COP) *1 (Set)		Cooling	4.17	3.54	3.23		
		Heating		4.10	3.88	3.74		
Compressor	Model			KVB073FYTMC		SVB130FBBMC		
	Output		W	470	470	900		
	Current *1	Cooling	A	2.50	4.10	5.42		
		Heating		3.14	4.20	6.05		
	Refrigeration oil (Model)		L	0.27 (FW68S)		0.35 (FW68S)		
Fan motor	Model			RC0J37-AA		RC0J50-RA		
	Current *1	Cooling	A	0.22	0.22	0.20		
		Heating		0.20	0.24	0.23		
Dimensions W × H × D			mm	800 × 550 × 285		800 × 714 × 285		
Weight			kg	27	28.5	34		
Special remarks	Dehumidification		Cooling	L/h	0.3	1.4		
	Airflow *1	Cooling	High	m³/h	2,178	2,058		
			Low		1,038	906		
	Heating	High			2,076	1,962		
			Med.		1,788	1,686		
		Low			1,452	1,260		
			Cooling	dB(A)	47	50		
			Heating		48	51		
	Fan speed	Cooling	High	rpm	940	940		
			Low		470	460		
		Heating	High		900	900		
			Med.		780	780		
			Low		640	600		
Fan speed regulator				3				
Refrigerant filling capacity (R32)			kg	0.55	0.55	0.70		
				1.00				

NOTE: Test conditions are based on ISO 5151.

Cooling: Indoor Dry-bulb temperature 27°C Wet-bulb temperature 19°C
 Outdoor Dry-bulb temperature 35°C

Heating: Indoor Dry-bulb temperature 20°C
 Outdoor Dry-bulb temperature 7°C

Refrigerant piping length (one way): 5 m

*1 Measured under rated operating frequency.



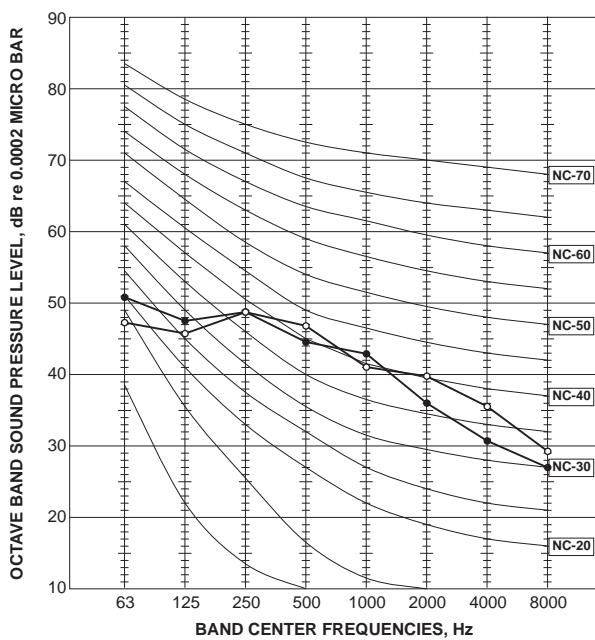
Specifications and rated conditions of main electric parts

Item	Model	MUZ-AY25VG	MUZ-AY25VGH	MUZ-AY35VG	MUZ-AY35VGH	MUZ-AY42VG	MUZ-AY42VGH	MUZ-AY50VG	MUZ-AY50VGH
Smoothing capacitor	(C61, C62)				600 µF/ 620 µF 420 V				
	(C63)		—			600 µF/ 620 µF 420 V			
Diode module	(DB61)				25 A 600 V				
	(DB65)				25 A 600 V				
Fuse	(F61)				25A 250V				
	(F62)				15A 250V				
	(F701, F801, F901)				T3.15AL250V				
Defrost heater	(H)	—	230 V 60W	—	230 V 60W	—	230 V 60W	—	230 V 130W
Power module	(IC700)		15 A 600 V			20 A 600 V			
	(IC932)				5 A 600 V				
Expansion valve coil	(LEV)				12 V DC				
Reactor	(L61)	18 mH			23 mH				
Switch power transistor	(Q821)				30 A/37 A 600 V				
Circuit protection	(PTC64, PTC65)				33 Ω				
Terminal block	(TB1)				5 P				
Relay	(X63)				3 A 250 V				
	(X64)				20 A 250 V				
	(X66)	—	3 A 250 V	—	3 A 250 V	—	3 A 250 V	—	3 A 250 V
	(X69)				10 A 230 V				
R.V.coil	(21S4)				220 - 240 V AC				
Heater protector	(26H)	—	Open 45°C	—	Open 45°C	—	Open 45°C	—	Open 45°C

NOISE CRITERIA CURVES

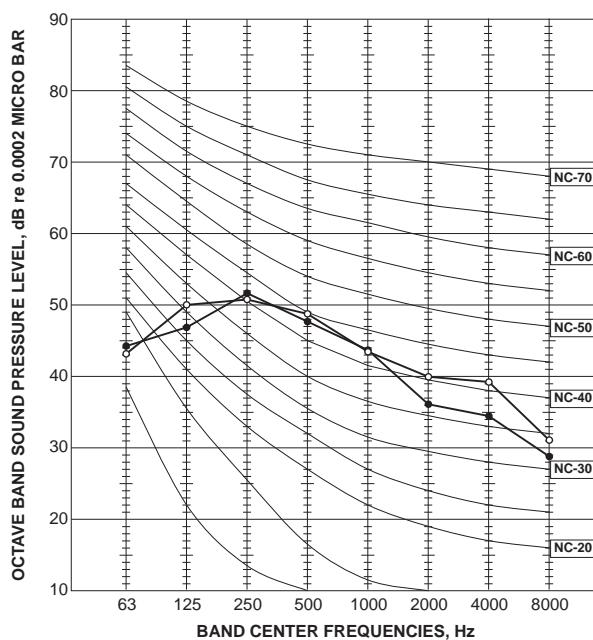
MUZ-AY25VG
MUZ-AY25VGH

FUNCTION	SPL(dB(A))	LINE
COOLING	47	●—●
HEATING	48	○—○



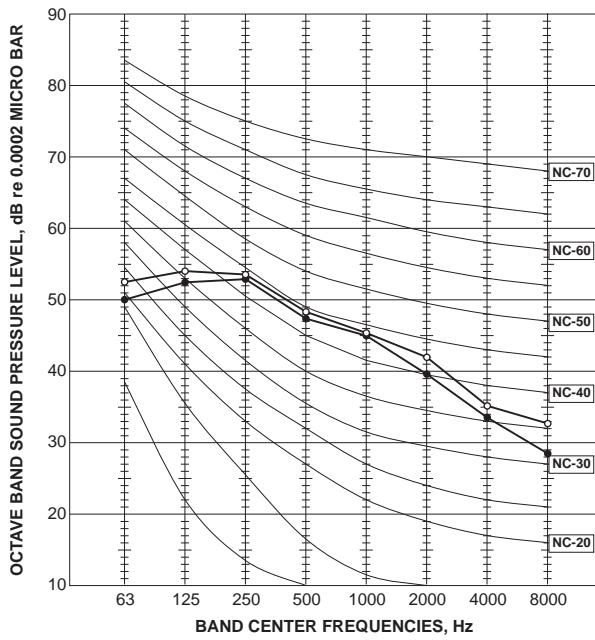
MUZ-AY35VG
MUZ-AY35VGH

FUNCTION	SPL(dB(A))	LINE
COOLING	49	●—●
HEATING	50	○—○



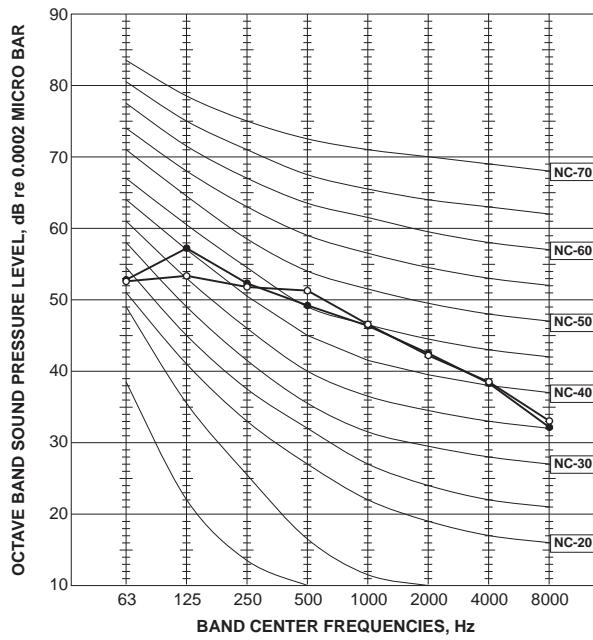
MUZ-AY42VG
MUZ-AY42VGH

FUNCTION	SPL(dB(A))	LINE
COOLING	50	●—●
HEATING	51	○—○



MUZ-AY50VG
MUZ-AY50VGH

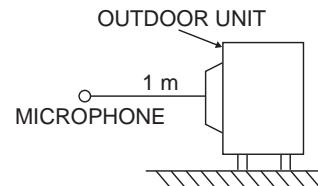
FUNCTION	SPL(dB(A))	LINE
COOLING	52	●—●
HEATING	52	○—○



Test conditions

Cooling: Dry-bulb temperature 35°C

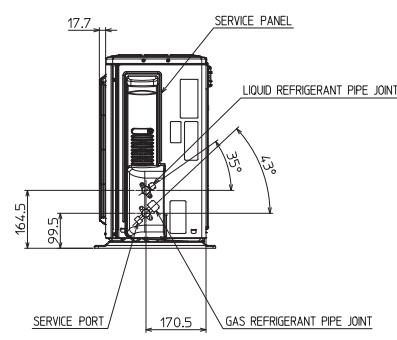
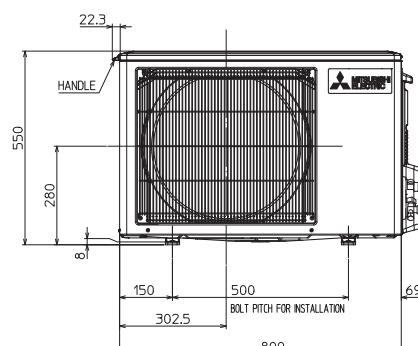
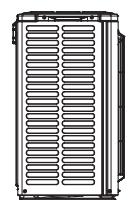
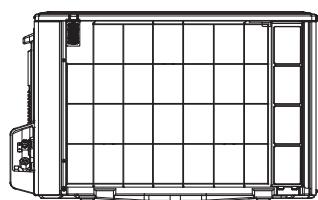
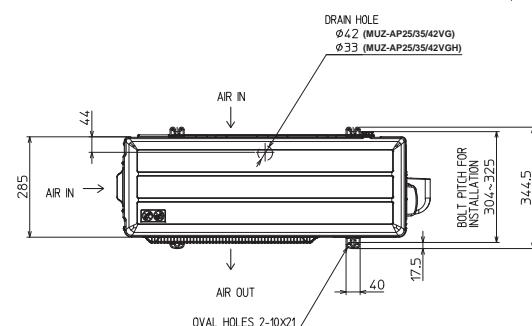
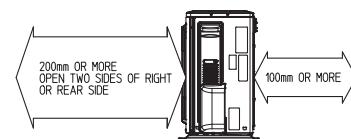
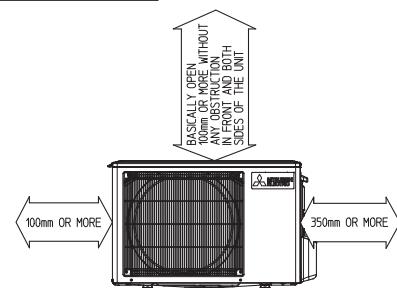
Heating: Dry-bulb temperature 7°C Wet-bulb temperature 6°C



MUZ-AY25VG MUZ-AY35VG MUZ-AY42VG
 MUZ-AY25VGH MUZ-AY35VGH MUZ-AY42VGH

Unit: mm

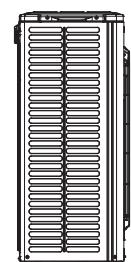
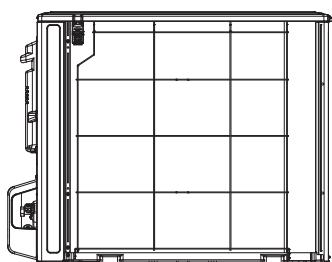
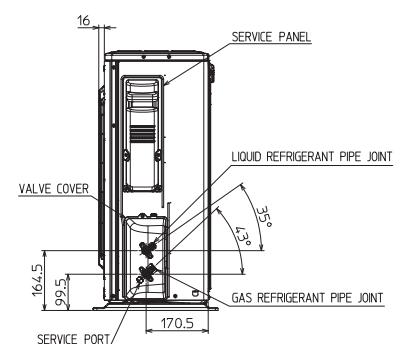
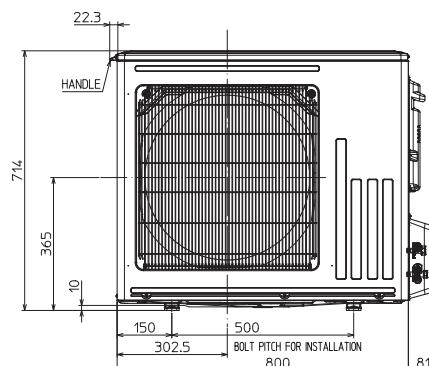
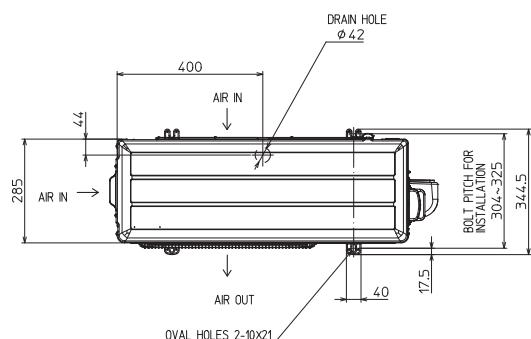
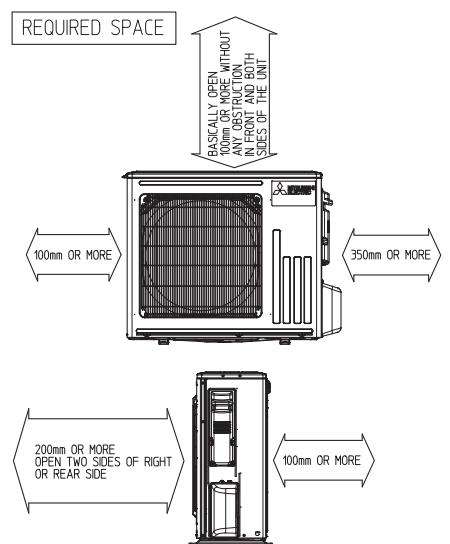
REQUIRED SPACE



REFRIGERANT PIPE JOINT	LIQUID REFRIGERANT PIPE	FLARED 6.35(1/4")
	GAS REFRIGERANT PIPE	FLARED 9.52(3/8")

MUZ-AY50VG
MUZ-AY50VGH

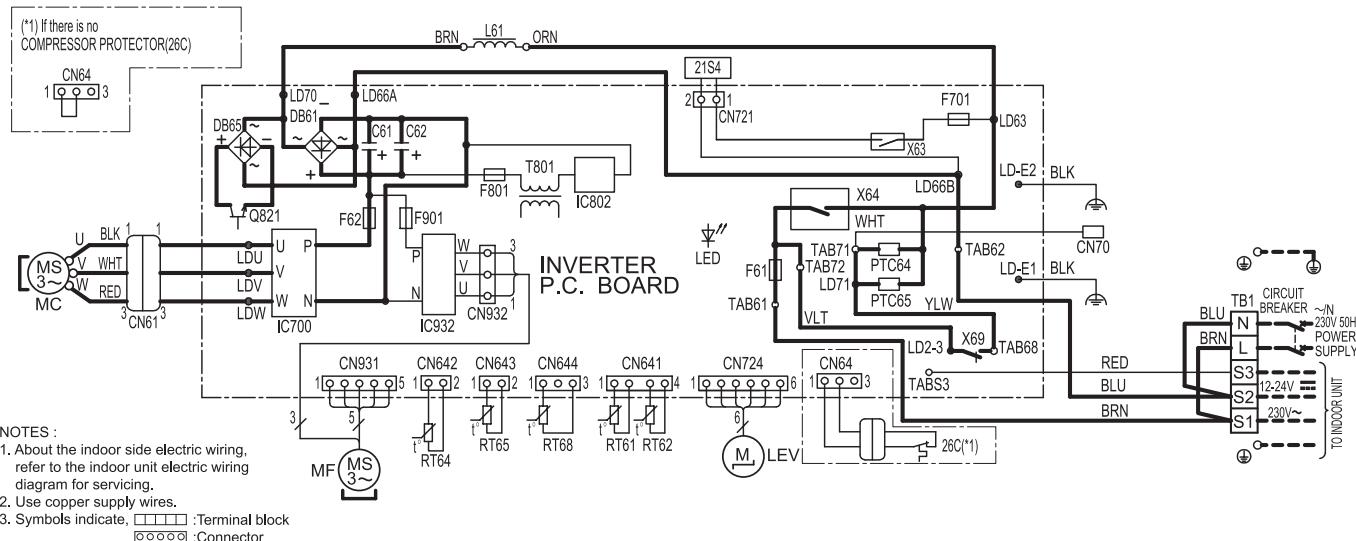
Unit: mm



REFRIGERANT PIPE JOINT	Liquid refrigerant pipe	FLARED 6.35(1/4")
	GAS REFRIGERANT PIPE	FLARED 9.52(3/8")

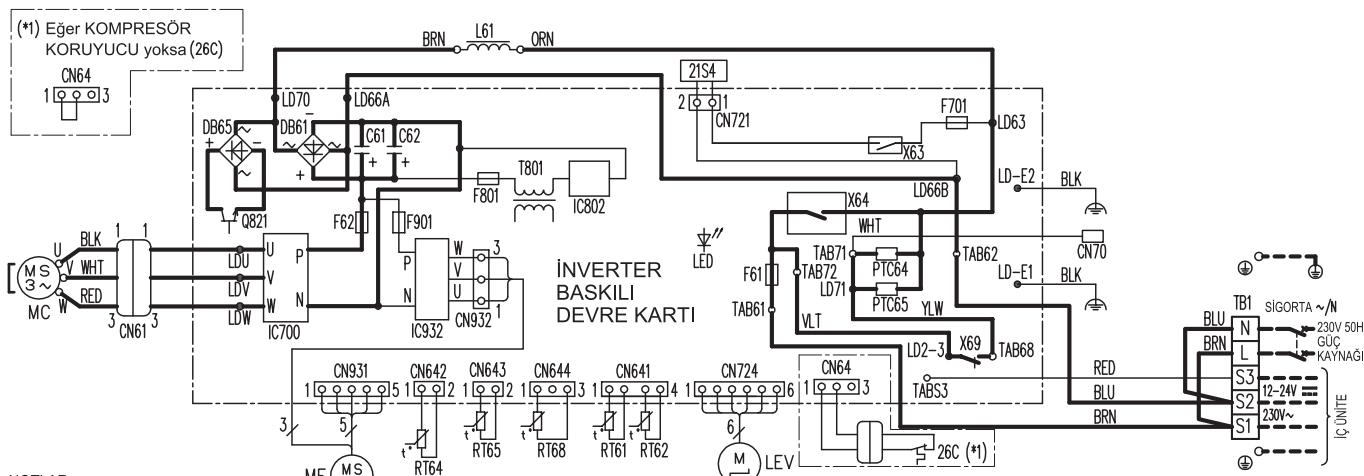
WIRING DIAGRAM

MUZ-AY25VG - [E1], [ER1] MUZ-AY35VG - [E1], [ER1]



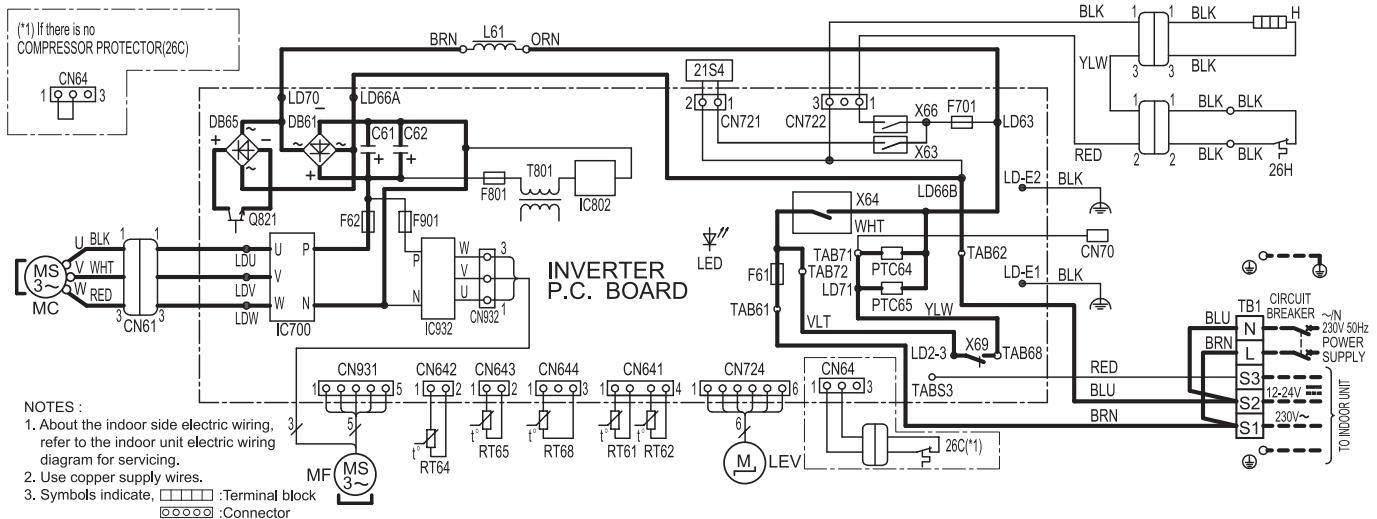
SYMBOL	NAME	SYMBOL	NAME	SYMBOL	NAME
CN61	CONNECTOR	LEV	EXPANSION VALVE COIL	RT65	AMBIENT TEMP. THERMISTOR
C61,C62	SMOOTHING CAPACITOR	L61	REACTOR	RT68	OUTDOOR HEAT EXCHANGER TEMP. THERMISTOR
DB61,DB65	DIODE MODULE	MC	COMPRESSOR	TB1	TERMINAL BLOCK
F61	FUSE (25A 250V)	MF	FAN MOTOR	T801	TRANSFORMER
F62	FUSE (15A 250V)	PTC64,PTC65	CIRCUIT PROTECTION	X63,X64,X69	RELAY
F701,F801,F901	FUSE (T3. 15AL250V)	Q821	SWITCHING POWER TRANSISTOR	21S4	REVERSING VALVE COIL
IC700,IC932	POWER MODULE	RT61	DEFROST THERMISTOR	26C	COMPRESSOR PROTECTOR
IC802	POWER DEVICE	RT62	DISCHARGE TEMP. THERMISTOR		
LED	LED	RT64	FIN TEMP. THERMISTOR		

MUZ-AY25VG - [E1] MUZ-AY35VG - [E1]



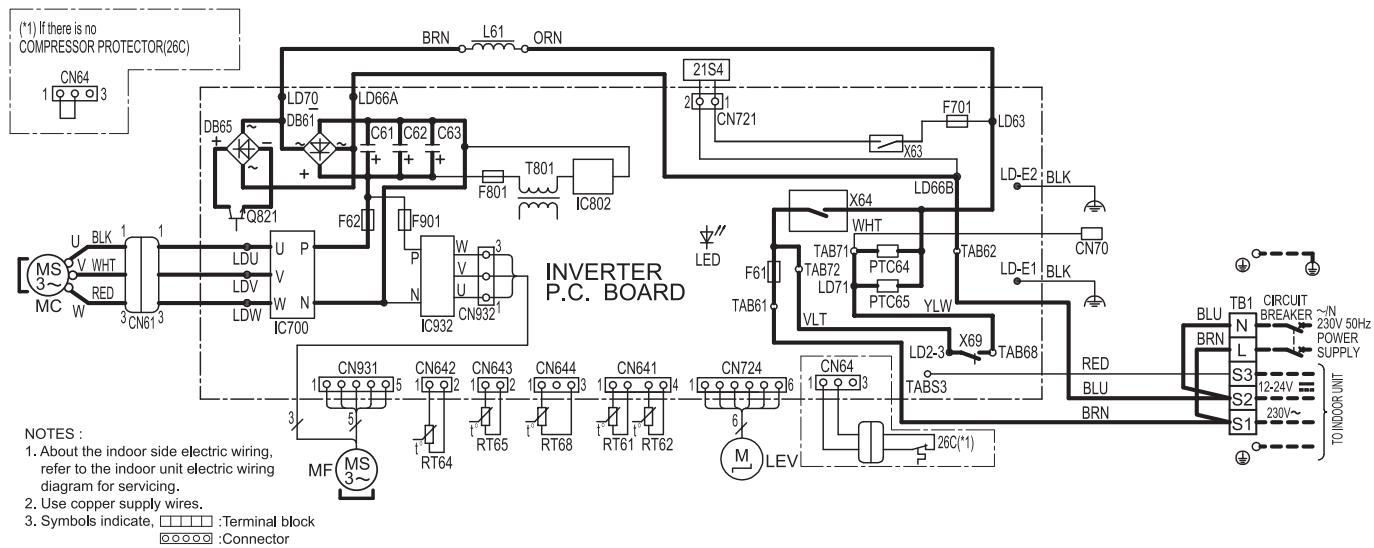
SEMBOL	PARÇA ADI	SEMBOL	PARÇA ADI	SEMBOL	PARÇA ADI
CN61	KONNEKTÖR	LEV	GENLEŞME VANSASI SARGISI	RT65	ORTAM SICAKLIK TERMİSTÖRÜ
C61,C62	KAPASİTÖR	L61	REAKTÖR	RT68	DIS ÜNİTE ESANJÖR SICAKLIK TERMİSTÖRÜ
DB61,DB65	DİYOT MODÜLÜ	MC	KOMPRESÖR	TB1	TERMİNAL BLOĞU
F61	SİGORTA (25A 250V)	MF	FAN MOTORU	T801	TRANSFORMATÖR
F62	SİGORTA (15A 250V)	PTC64,PTC65	DEVRE KORUMASI	X63,X64,X69	RÖLE
F701,F801,F901	SİGORTA (T3. 15AL250V)	Q821	SİVİCLİ GÜÇ TRANSİSTÖRÜ	21S4	4 YOLLU VANA SARGISI
IC700,IC932	GÜÇ MODÜLÜ	RT61	DEFROST TERMİSTÖRÜ	26C	KOMPRESÖR KORUYUCU
IC802	GÜÇ CİHAZI	RT62	BASMA SICAKLIK TERMİSTÖRÜ		
LED	LED	RT64	FIN SICAKLIK TERMİSTÖRÜ		

MUZ-AY25VGH - [SC1] MUZ-AY35VGH - [SC1]



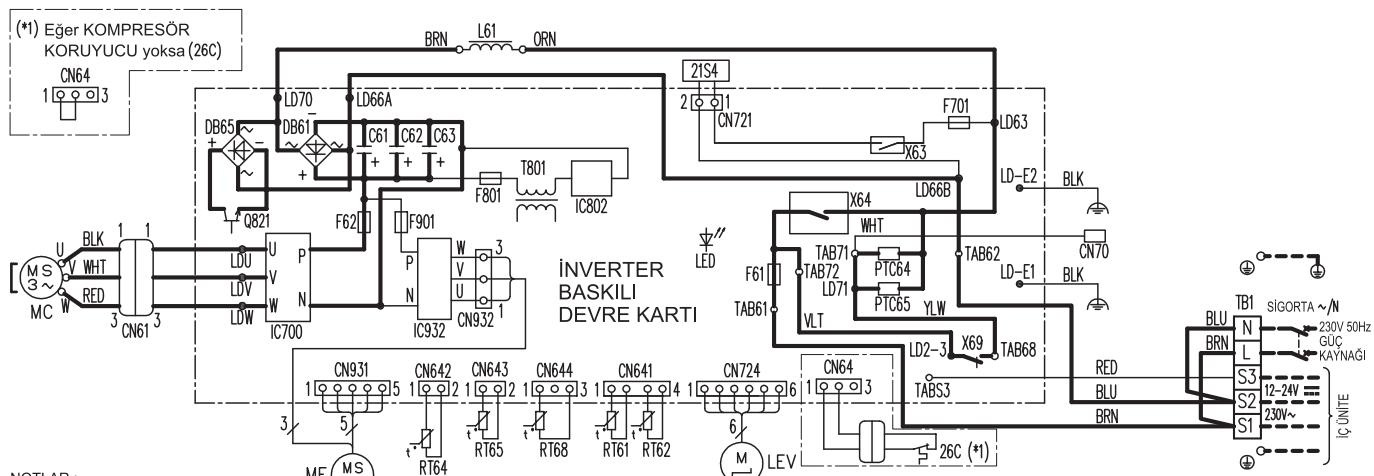
SYMBOL	NAME	SYMBOL	NAME	SYMBOL	NAME
CN61	CONNECTOR	LEV	EXPANSION VALVE COIL	RT68	OUTDOOR HEAT EXCHANGER TEMP. THERMISTOR
C61,C62	SMOOTHING CAPACITOR	L61	REACTOR	TB1	TERMINAL BLOCK
DB61,DB65	DIODE MODULE	MC	COMPRESSOR	T801	TRANSFORMER
F61	FUSE (25A 250V)	MF	FAN MOTOR	X63,X64,X66,X69	RELAY
F62	FUSE (15A 250V)	PTC64,PTC65	CIRCUIT PROTECTION	21S4	REVERSING VALVE COIL
F701,F801,F901	FUSE (T3. 15AL250V)	Q821	SWITCHING POWER TRANSISTOR	26C	COMPRESSOR PROTECTOR
H	DEFROST HEATER	RT61	DEFROST THERMISTOR	26H	HEATER PROTECTOR
IC700,IC932	POWER MODULE	RT62	DISCHARGE TEMP. THERMISTOR		
IC802	POWER DEVICE	RT64	FIN TEMP. THERMISTOR		
LED	LED	RT65	AMBIENT TEMP. THERMISTOR		

MUZ-AY42VG - [E1], [ER1]



SYMBOL	NAME	SYMBOL	NAME	SYMBOL	NAME
CN61	CONNECTOR	LEV	EXPANSION VALVE COIL	RT65	AMBIENT TEMP. THERMISTOR
C61,C62,C63	SMOOTHING CAPACITOR	L61	REACTOR	RT68	OUTDOOR HEAT EXCHANGER TEMP. THERMISTOR
DB61,DB65	DIODE MODULE	MC	COMPRESSOR	TB1	TERMINAL BLOCK
F61	FUSE (25A 250V)	MF	FAN MOTOR	T801	TRANSFORMER
F62	FUSE (15A 250V)	PTC64,PTC65	CIRCUIT PROTECTION	X63,X64,X69	RELAY
F701,F801,F901	FUSE (T3. 15AL250V)	Q821	SWITCHING POWER TRANSISTOR	21S4	REVERSING VALVE COIL
IC700,IC932	POWER MODULE	RT61	DEFROST THERMISTOR	26C	COMPRESSOR PROTECTOR
IC802	POWER DEVICE	RT62	DISCHARGE TEMP. THERMISTOR		
LED	LED	RT64	FIN TEMP. THERMISTOR		

MUZ-AY42VG - [ET1]

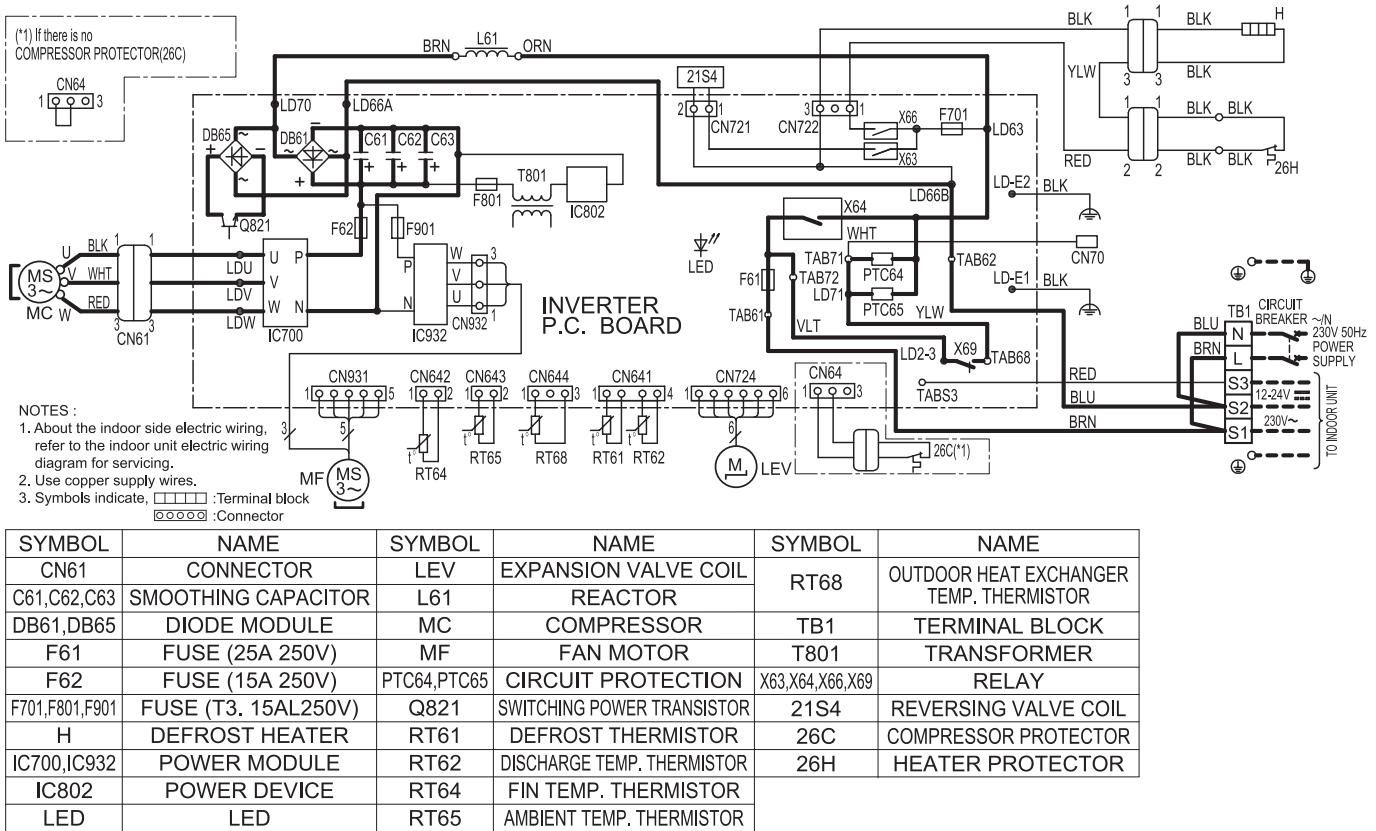


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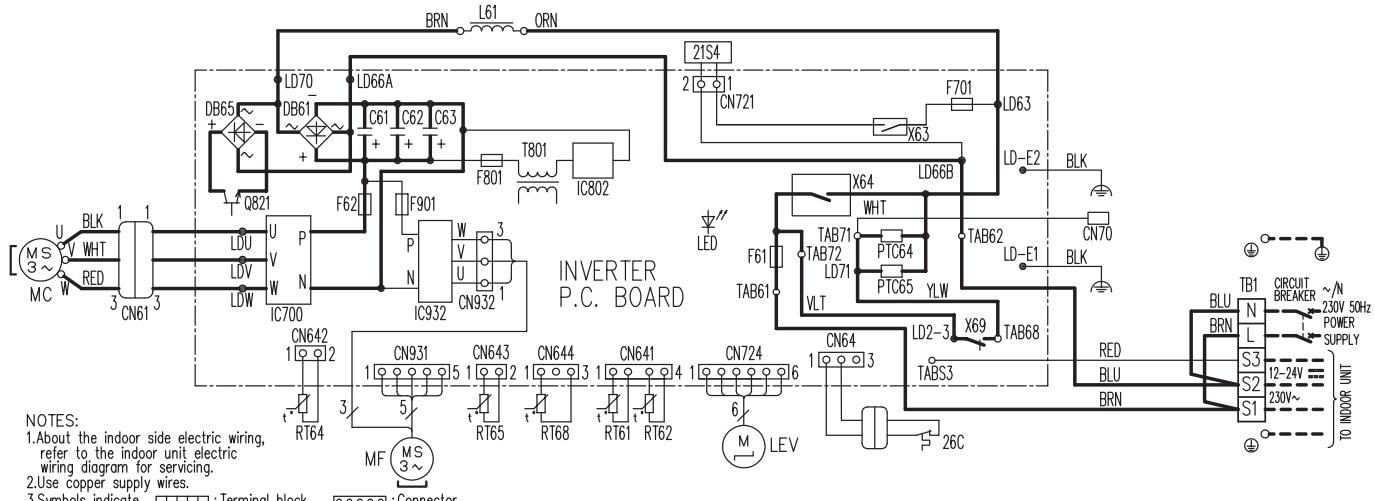
1. İç ünite elektronik kablolaması için iç ünite elektronik kablo devre şemasını referans alınır.
2. Sadece bakır besleme kablosu kullanın.
3. Sembollerini gösterir. : Terminal bloğu : Konnektör

SEMBOL	PARÇA ADI	SEMBOL	PARÇA ADI	SEMBOL	PARÇA ADI
CN61	KONNEKTÖR	LEV	GENLEŞME VANASI SARGISI	RT65	ORTAM SICAKLIK TERMİSTÖRÜ
C61,C62,C63	KAPASİTÖR	L61	REAKTÖR	RT68	DIS ÜNİTE ESANJÖR SICAKLIK TERMİSTÖRÜ
DB61,DB65	DİYOT MODÜLÜ	MC	KOMPRESÖR	TB1	TERMİNAL BLOĞU
F61	SİGORTA (25A 250V)	MF	FAN MOTORU	T801	TRANSFORMATÖR
F62	SİGORTA (15A 250V)	PTC64,PTC65	DEVRE KORUMASI	X63,X64,X69	RÖLE
F701,F801,F901	SİGORTA (T3. 15AL250V)	Q821	SİVİCLİ GÜÇ TRANSİSTÖRÜ	21S4	4 YOLLU VANA SARGISI
IC700,IC932	GÜÇ MODÜLÜ	RT61	DEFROST TERMİSTÖRÜ	26C	KOMPRESÖR KORUYUCU
IC802	GÜÇ CİHAZI	RT62	BASMA SICAKLIK TERMİSTÖRÜ		
LED	LED	RT64	FİN SICAKLIK TERMİSTÖRÜ		

MUZ-AY42VGH - SC1

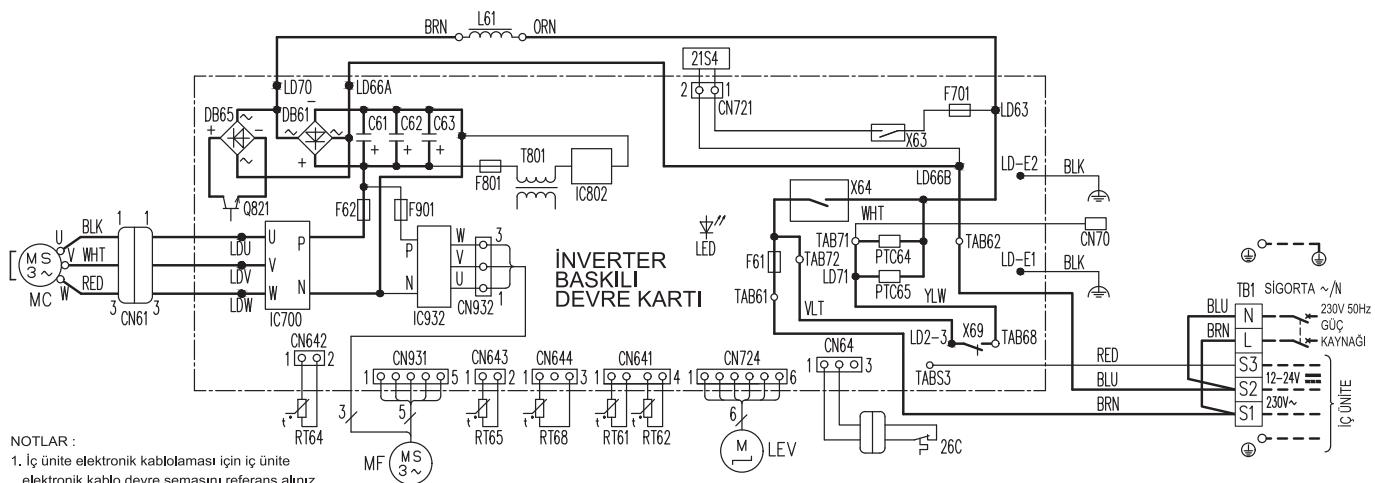


MUZ-AY50VG - [E1], [ER1]



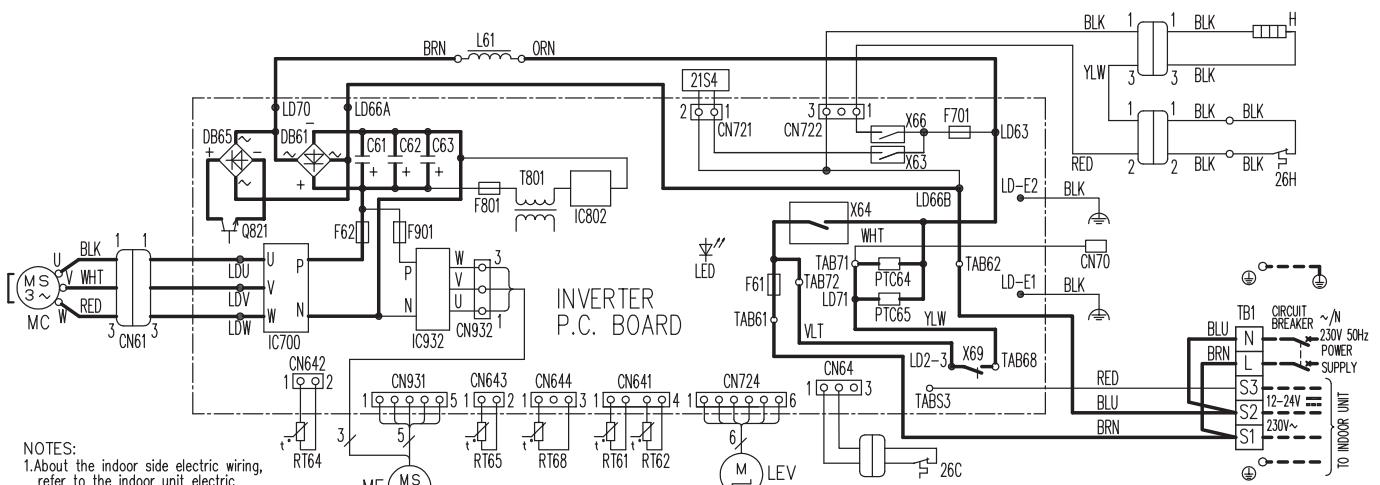
SYMBOL	NAME	SYMBOL	NAME	SYMBOL	NAME
CN61	CONNECTOR	LEV	EXPANSION VALVE COIL	RT65	AMBIENT TEMP. THERMISTOR
C61,C62,C63	SMOOTHING CAPACITOR	L61	REACTOR	RT68	OUTDOOR HEAT EXCHANGER TEMP. THERMISTOR
DB61,DB65	DIODE MODULE	MC	COMPRESSOR	TB1	TERMINAL BLOCK
F61	FUSE (25A 250V)	MF	FAN MOTOR	T801	TRANSFORMER
F62	FUSE (15A 250V)	PTC64,PTC65	CIRCUIT PROTECTION	X63,X64,X69	RELAY
F701,F801,F901	FUSE (T3.15AL250V)	Q821	SWITCHING POWER TRANSISTOR	21S4	REVERSING VALVE COIL
IC700,IC932	POWER MODULE	RT61	DEFROST THERMISTOR	26C	KOMPRESÖR KORUYUCU
IC802	POWER DEVICE	RT62	DISCHARGE TEMP. THERMISTOR		
LED	LED	RT64	FIN TEMP. THERMISTOR		

MUZ-AY50VG - [ET1]



SEMBOL	PARÇA ADI	SEMBOL	PARÇA ADI	SEMBOL	PARÇA ADI
CN61	KONNEKTÖR	LEV	GENLEŞME VANASI SARGISI	RT65	ORTAM SICAKLIK TERMİSTÖRÜ
C61,C62,C63	KAPASİTÖR	L61	REAKTÖR	RT68	DİS ÜNİTE EŞANJÖR SICAKLIK TERMİSTÖRÜ
DB61,DB65	DİYOT MODÜLÜ	MC	KOMPRESÖR	TB1	TERMINAL BLOĞU
F61	SİGORTA (25A 250V)	MF	FAN MOTORU	T801	TRANSFORMATÖR
F62	SİGORTA (15A 250V)	PTC64,PTC65	DEVRE KORUMASI		
F701,F801,F901	SİGORTA (T3. 15AL250V)	Q821	SİVİCLİ GÜÇ TRANSİSTÖRÜ	X63,X64,X69	RÖLE
IC700,IC932	GÜÇ MODÜLÜ	RT61	DEFROST TERMİSTÖRÜ	21S4	4 YOLLU VANA SARGISI
IC802	GÜÇ CİHAZI	RT62	BASMA SICAKLIK TERMİSTÖRÜ	26C	KOMPRESÖR KORUYUCU
LED	LED	RT64	FIN SICAKLIK TERMİSTÖRÜ		

MUZ-AY50VGH - [SC1]



NOTES:

1. About the indoor side electric wiring, refer to the indoor unit electric wiring diagram for servicing.
2. Use copper supply wires.

3. Symbols indicate, : Terminal block : Connector

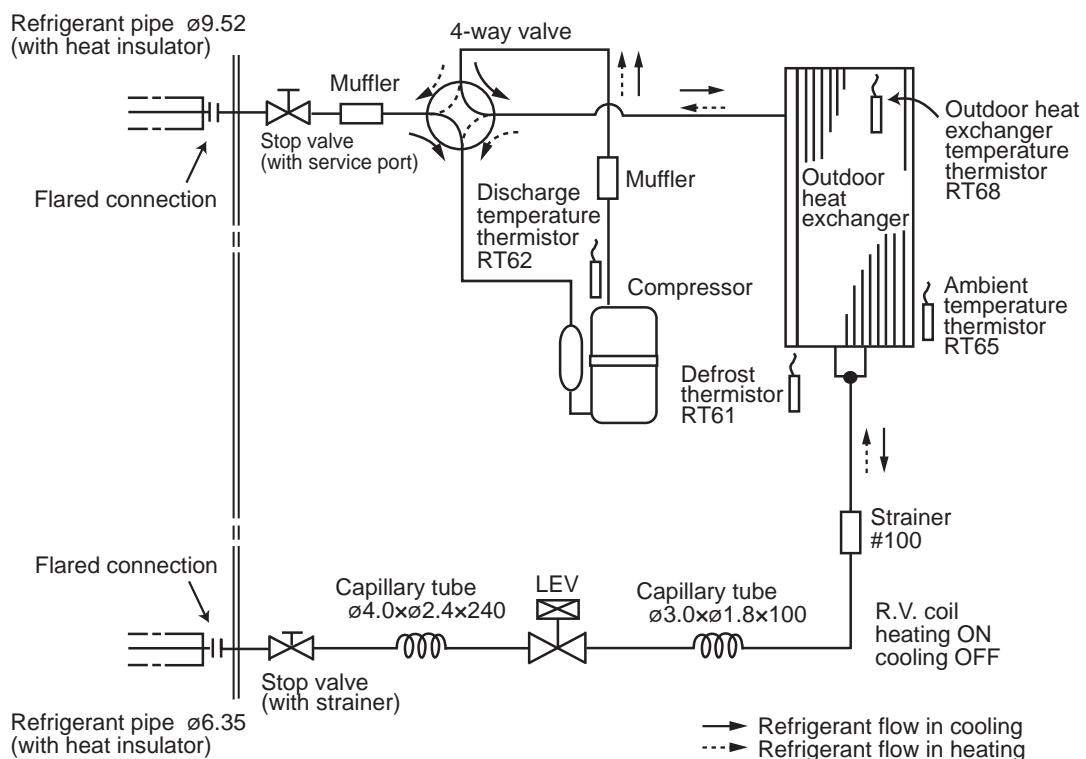
SYMBOL	NAME	SYMBOL	NAME	SYMBOL	NAME
CN61	CONNECTOR	LEV	EXPANSION VALVE COIL	RT68	OUTDOOR HEAT EXCHANGER
C61,C62,C63	SMOOTHING CAPACITOR	L61	REACTOR	TB1	TEMP. THERMISTOR
DB61,DB65	DIODE MODULE	MC	COMPRESSOR	T801	TERMINAL BLOCK
F61	FUSE (25A 250V)	MF	FAN MOTOR	21S4	TRANSFORMER
F62	FUSE (15A 250V)	PTC64,PTC65	CIRCUIT PROTECTION	X63,X64,X66,X69	RELAY
F701,F801,F901	FUSE (T3.15AL250V)	Q821	SWITCHING POWER TRANSISTOR	26H	REVERSING VALVE COIL
H	DEFROST HEATER	RT61	DEFROST THERMISTOR	26C	COMPRESSOR PROTECTOR
IC700,IC932	POWER MODULE	RT62	DISCHARGE TEMP. THERMISTOR	S1	HEATER PROTECTOR
IC802	POWER DEVICE	RT64	FIN TEMP. THERMISTOR	S2	230V~
LED	LED	RT65	AMBIENT TEMP. THERMISTOR	S3	12-24V

REFRIGERANT SYSTEM DIAGRAM

MUZ-AY25VG
MUZ-AY25VGH

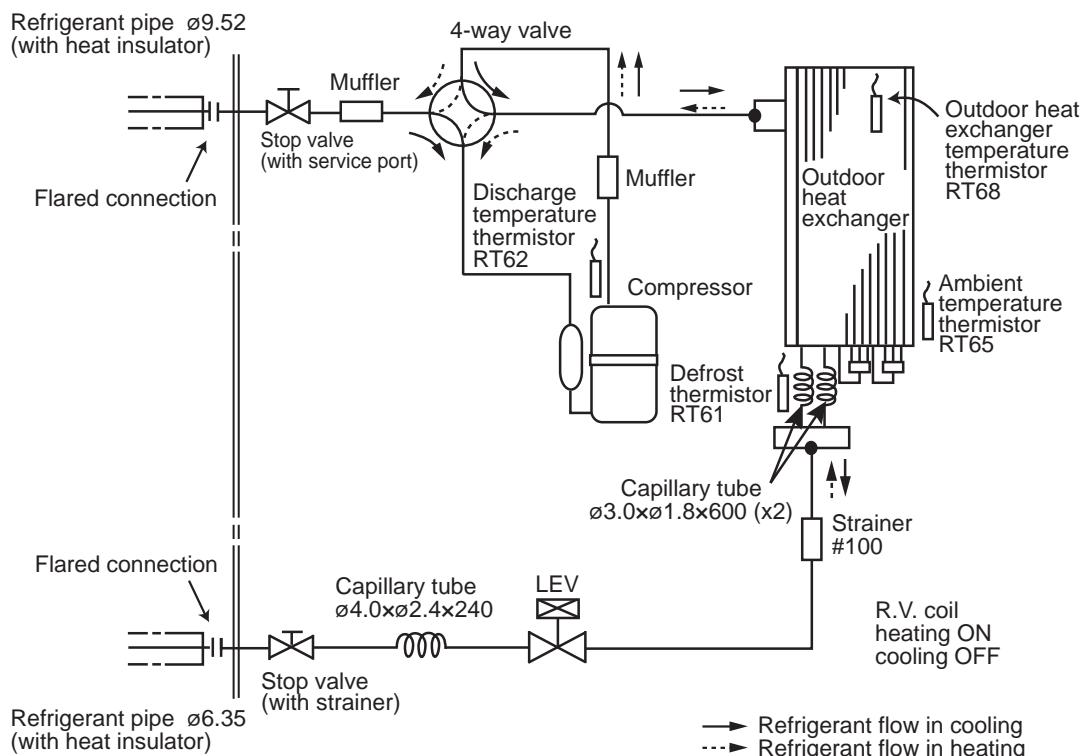
MUZ-AY35VG
MUZ-AY35VGH

Unit: mm



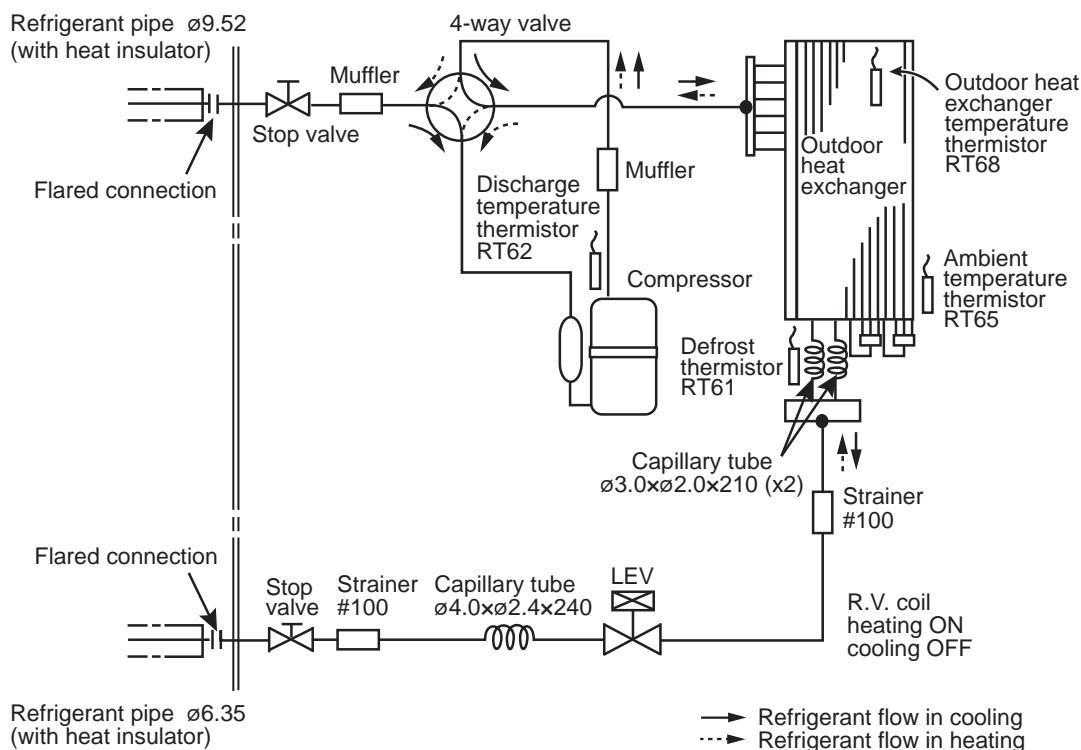
MUZ-AY42VG
MUZ-AY42VGH

Unit: mm



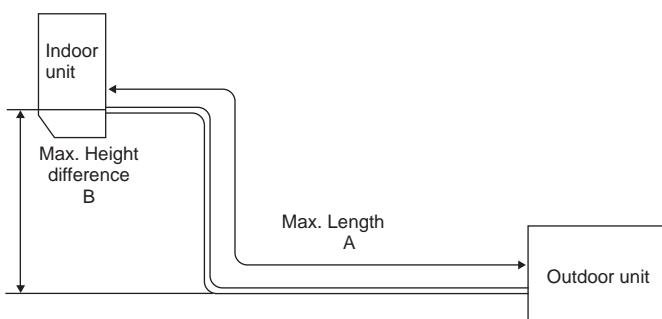
MUZ-AY50VG MUZ-AY50VGH

Unit: mm



MAX. REFRIGERANT PIPING LENGTH and MAX. HEIGHT DIFFERENCE

Model	Refrigerant piping: m		Piping size O.D: mm	
	Max. Length A	Max. Height difference B	Gas	Liquid
MUZ-AY25/35/42/50VG	20	12	9.52	6.35
MUZ-AY25/35/42/50VGH				



ADDITIONAL REFRIGERANT CHARGE (R32: g)

Model	Outdoor unit precharged	Refrigerant piping length (one way)									
		7 m	11 m	12 m	13 m	14 m	15 m	16 m	17 m	18 m	20 m
MUZ-AY25/35VG	550										
MUZ-AY25/35VGH											
MUZ-AY42VG	700	—	70	90	110	130	150	170	190	210	250
MUZ-AY50VG	1,000										
MUZ-AY50VGH											

Calculation: X g = 20 g/m × (Refrigerant piping length (m) – 7.5)

**MUZ-AY25VG MUZ-AY35VG MUZ-AY42VG MUZ-AY50VG
MUZ-AY25VGH MUZ-AY35VGH MUZ-AY42VGH MUZ-AY50VGH**

The standard specifications apply only to the operation of the air conditioner under normal conditions. Since 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

198 ~ 264 V, 50 Hz

(2) AIRFLOW

Airflow should be set at MAX.

(3) MAIN READINGS

(1) Indoor intake air wet-bulb temperature:	°C [WB]	}	Cooling
(2) Indoor outlet air wet-bulb temperature:	°C [WB]		
(3) Outdoor intake air dry-bulb temperature:	°C [DB]		
(4) Total input:	W	}	Heating
(5) Indoor intake air dry-bulb temperature:	°C [DB]		
(6) Outdoor intake air wet-bulb temperature:	°C [WB]		
(7) Total input:	W		

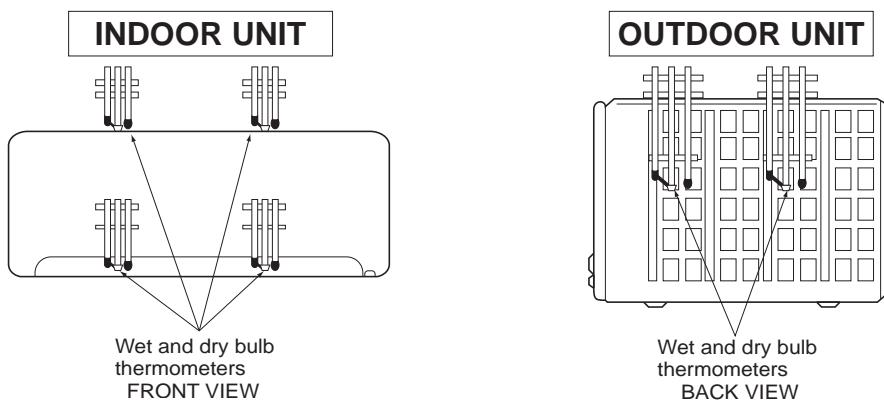
Indoor air wet and dry bulb temperature difference on the left side of the following chart shows the difference between the indoor intake air wet and dry bulb temperature and the indoor outlet air wet and dry bulb temperature for your reference at service.

(4) GUARANTEED OUTDOOR TEMPERATURE

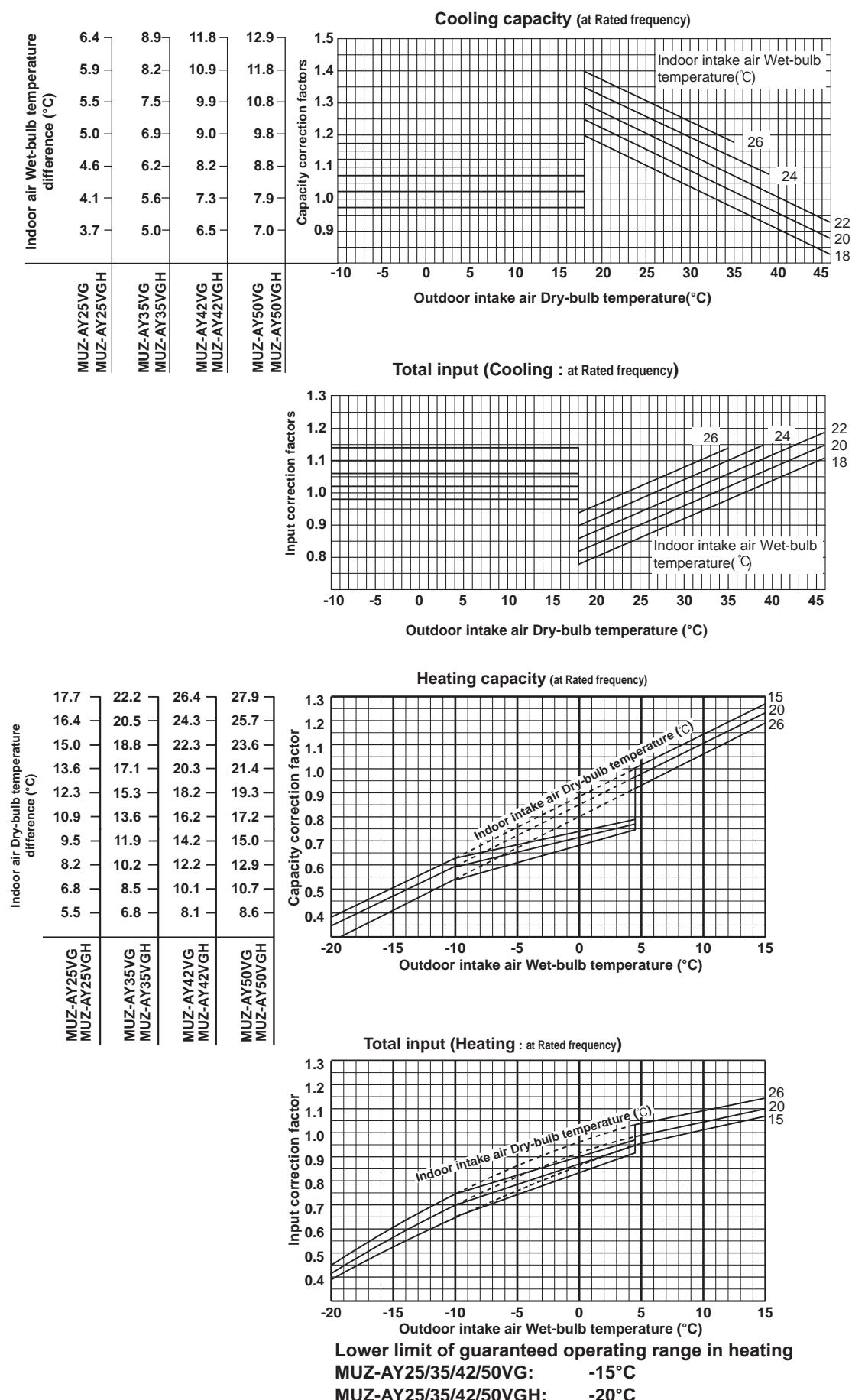
1. MUZ-AY25/35/42/50/60/71VG
COOLING (DB/WB): -10/- ~ 46/-
HEATING (DB/WB): -15/-16 ~ 24/18
2. MUZ-AY25/35/42/50VGH
COOLING (DB/WB): -10/- ~ 46/-
HEATING (DB/WB): -20/-21 ~ 24/18

How to measure the indoor air wet and dry bulb temperature difference

1. Attach at least 2 sets of wet and dry bulb thermometers to the indoor air intake 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 intake.
Cover the thermometers to prevent direct rays of the sun.
3. Check that the air filter is cleaned.
4. Open windows and doors of room.
5. Press the emergency operation switch once (twice) to start the EMERGENCY 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.



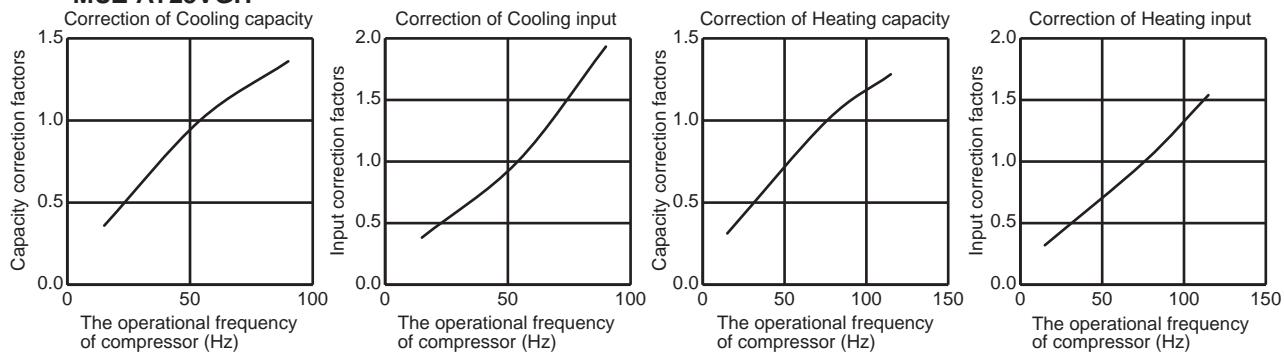
9-1. CAPACITY AND INPUT CURVES



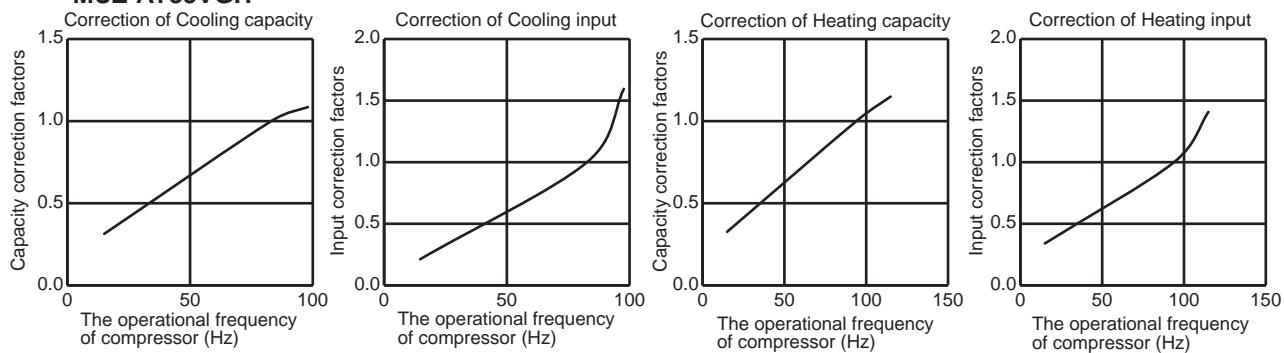
NOTE: The above broken lines are for the heating operation without any frost and defrost operation.

9-2. CAPACITY AND INPUT CORRECTION BY OPERATIONAL FREQUENCY OF COMPRESSOR

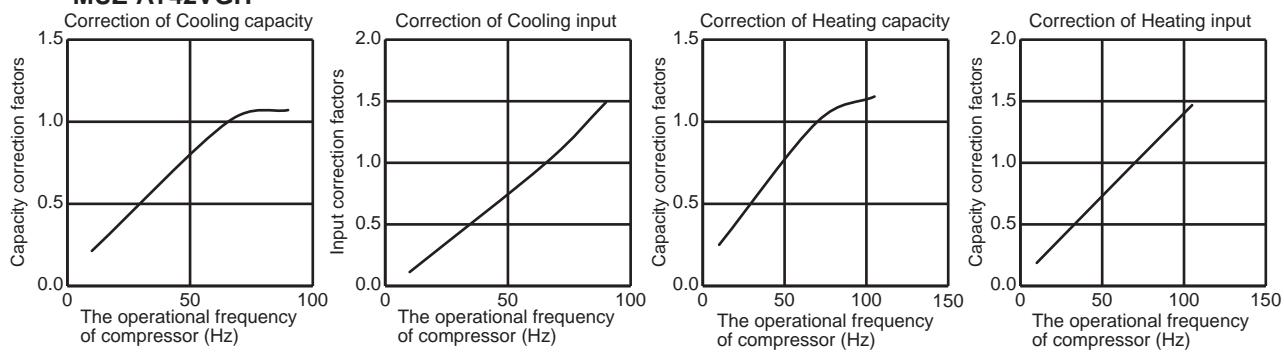
MUZ-AY25VG
MUZ-AY25VGH



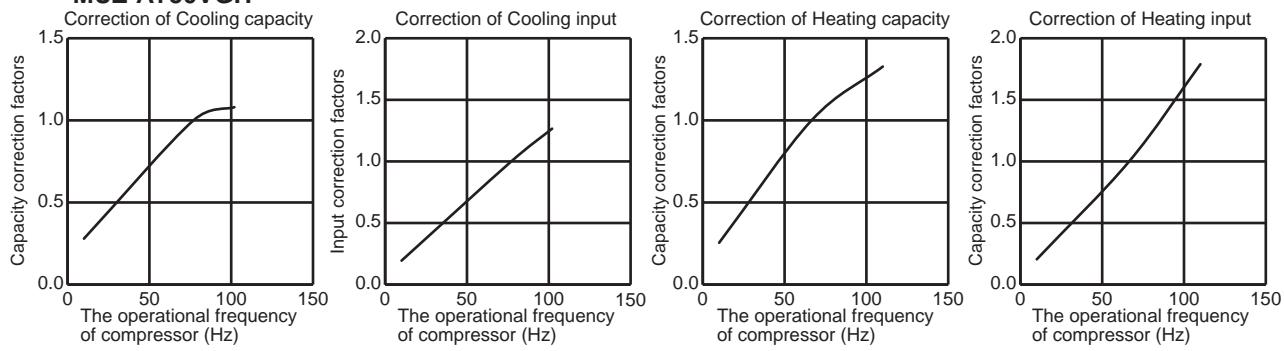
MUZ-AY35VG
MUZ-AY35VGH



MUZ-AY42VG
MUZ-AY42VGH



MUZ-AY50VG
MUZ-AY50VGH



9-3. HOW TO OPERATE FIXED-FREQUENCY OPERATION

<Test run operation>

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

9-4. OUTDOOR LOW PRESSURE AND OUTDOOR UNIT CURRENT

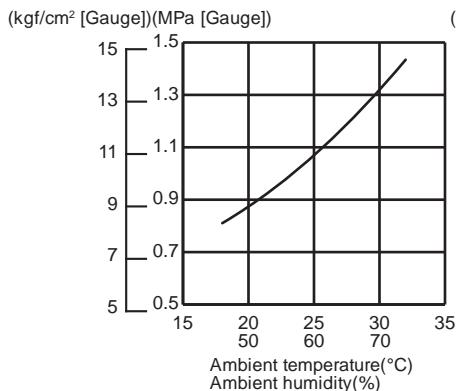
COOL operation

- ① Both indoor and outdoor unit are under the same temperature/humidity condition.
- ② Operation: TEST RUN OPERATION (Refer to 9-3.)

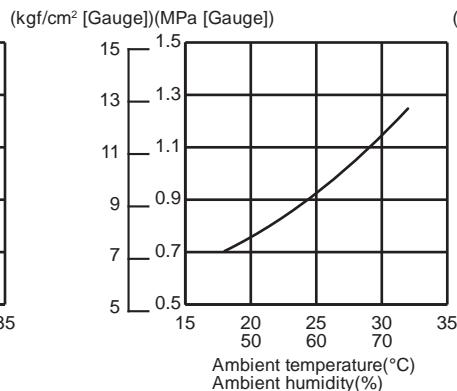
Dry-bulb temperature (°C)	Relative humidity (%)
20	50
25	60
30	70

Outdoor low pressure

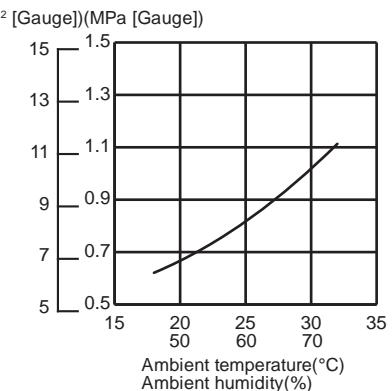
**MUZ-AY25VG
MUZ-AY25VGH**



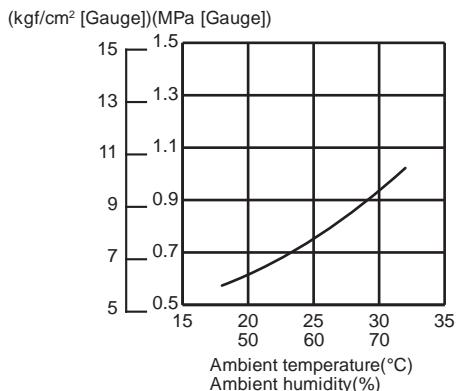
**MUZ-AY35VG
MUZ-AY35VGH**



**MUZ-AY42VG
MUZ-AY42VGH**



**MUZ-AY50VG
MUZ-AY50VGH**



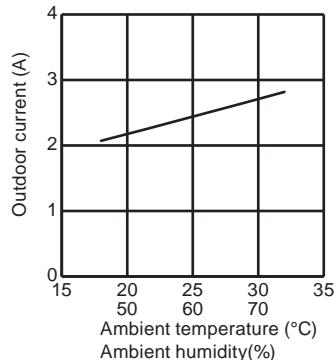
NOTE:

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

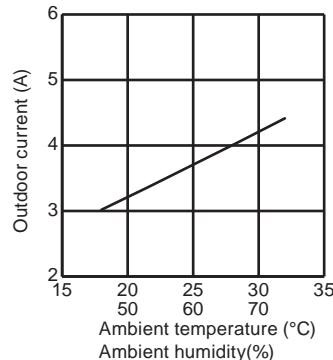
The conversion factor is: 1 (MPa [Gauge]) = 10.2 (kgf/cm² [Gauge])

Outdoor unit current

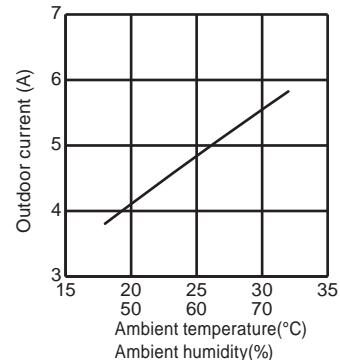
**MUZ-AY25VG
MUZ-AY25VGH**



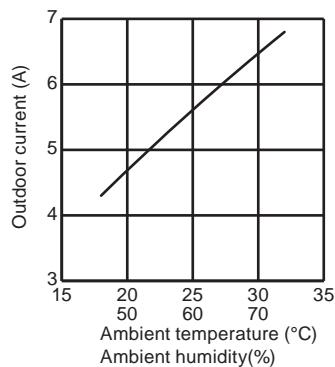
**MUZ-AY35VG
MUZ-AY35VGH**



**MUZ-AY42VG
MUZ-AY42VGH**



**MUZ-AY50VG
MUZ-AY50VGH**



HEAT operation

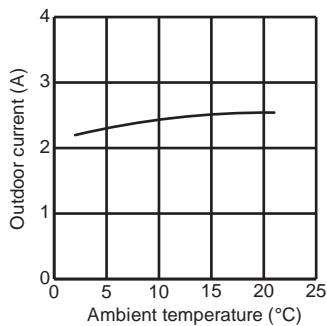
① Condition:

	Indoor	Outdoor			
		2	7	15	20.0
Dry bulb temperature (°C)	20.0	2	7	15	20.0
Wet bulb temperature (°C)	14.5	1	6	12	14.5

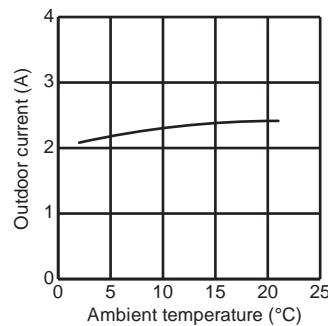
② Operation: Test run operation (Refer to 9-3.)

Outdoor unit current

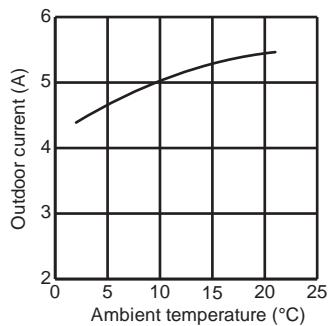
**MUZ-AY25VG
MUZ-AY25VGH**



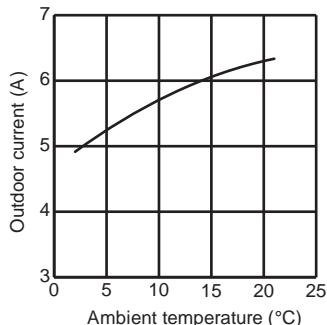
**MUZ-AY35VG
MUZ-AY35VGH**



**MUZ-AY42VG
MUZ-AY42VGH**



**MUZ-AY50VG
MUZ-AY50VGH**



PERFORMANCE DATA COOL operation at Rated frequency

MUZ-AY25VG MUZ-AY25VGH

CAPACITY: 2.5 kW

SHF: 0.92

INPUT: 600 W

INDOOR DB (°C)	INDOOR WB (°C)	OUTDOOR DB (°C)															
		21				25				27				30			
		Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT
21	18	2.94	2.17	0.74	480	2.81	2.08	0.74	504	2.70	2.00	0.74	528	2.60	1.92	0.74	552
21	20	3.06	1.90	0.62	504	2.94	1.82	0.62	534	2.85	1.77	0.62	546	2.75	1.71	0.62	570
22	18	2.94	2.29	0.78	480	2.81	2.19	0.78	504	2.70	2.11	0.78	528	2.60	2.03	0.78	552
22	20	3.06	2.02	0.66	504	2.94	1.94	0.66	534	2.85	1.88	0.66	546	2.75	1.82	0.66	570
22	22	3.19	1.72	0.54	522	3.08	1.66	0.54	555	3.00	1.62	0.54	570	2.88	1.55	0.54	594
23	18	2.94	2.41	0.82	480	2.81	2.31	0.82	504	2.70	2.21	0.82	528	2.60	2.13	0.82	552
23	20	3.06	2.14	0.70	504	2.94	2.06	0.70	534	2.85	2.00	0.70	546	2.75	1.93	0.70	570
23	22	3.19	1.85	0.58	522	3.08	1.78	0.58	555	3.00	1.74	0.58	570	2.88	1.67	0.58	594
24	18	2.94	2.53	0.86	480	2.81	2.42	0.86	504	2.70	2.32	0.86	528	2.60	2.24	0.86	552
24	20	3.06	2.27	0.74	504	2.94	2.17	0.74	534	2.85	2.11	0.74	546	2.75	2.04	0.74	570
24	22	3.19	1.98	0.62	522	3.08	1.91	0.62	555	3.00	1.86	0.62	570	2.88	1.78	0.62	594
24	24	3.35	1.68	0.50	546	3.23	1.61	0.50	576	3.15	1.58	0.50	594	3.05	1.53	0.50	624
25	18	2.94	2.64	0.90	480	2.81	2.53	0.90	504	2.70	2.43	0.90	528	2.60	2.34	0.90	552
25	20	3.06	2.39	0.78	504	2.94	2.29	0.78	534	2.85	2.22	0.78	546	2.75	2.15	0.78	570
25	22	3.19	2.10	0.66	522	3.08	2.03	0.66	555	3.00	1.98	0.66	570	2.88	1.90	0.66	594
25	24	3.35	1.81	0.54	546	3.23	1.74	0.54	576	3.15	1.70	0.54	594	3.05	1.65	0.54	624
26	18	2.94	2.76	0.94	480	2.81	2.64	0.94	504	2.70	2.54	0.94	528	2.60	2.44	0.94	552
26	20	3.06	2.51	0.82	504	2.94	2.41	0.82	534	2.85	2.34	0.82	546	2.75	2.26	0.82	570
26	22	3.19	2.23	0.70	522	3.08	2.15	0.70	555	3.00	2.10	0.70	570	2.88	2.01	0.70	594
26	24	3.35	1.94	0.58	546	3.23	1.87	0.58	576	3.15	1.83	0.58	594	3.05	1.77	0.58	624
26	26	3.45	1.59	0.46	576	3.35	1.54	0.46	606	3.30	1.52	0.46	624	3.20	1.47	0.46	642
27	18	2.94	2.88	0.98	480	2.81	2.76	0.98	504	2.70	2.65	0.98	528	2.60	2.55	0.98	552
27	20	3.06	2.63	0.86	504	2.94	2.53	0.86	534	2.85	2.45	0.86	546	2.75	2.37	0.86	570
27	22	3.19	2.36	0.74	522	3.08	2.28	0.74	555	3.00	2.22	0.74	570	2.88	2.13	0.74	594
27	24	3.35	2.08	0.62	546	3.23	2.00	0.62	576	3.15	1.95	0.62	594	3.05	1.89	0.62	624
27	26	3.45	1.73	0.50	576	3.35	1.68	0.50	606	3.30	1.65	0.50	624	3.20	1.60	0.50	642
28	18	2.94	2.94	1.00	480	2.81	2.81	1.00	504	2.70	2.70	1.00	528	2.60	2.60	1.00	552
28	20	3.06	2.76	0.90	504	2.94	2.64	0.90	534	2.85	2.57	0.90	546	2.75	2.48	0.90	570
28	22	3.19	2.49	0.78	522	3.08	2.40	0.78	555	3.00	2.34	0.78	570	2.88	2.24	0.78	594
28	24	3.35	2.21	0.66	546	3.23	2.13	0.66	576	3.15	2.08	0.66	594	3.05	2.01	0.66	624
28	26	3.45	1.86	0.54	576	3.35	1.81	0.54	606	3.30	1.78	0.54	624	3.20	1.73	0.54	642
29	18	2.94	2.94	1.00	480	2.81	2.81	1.00	504	2.70	2.70	1.00	528	2.60	2.60	1.00	552
29	20	3.06	2.88	0.94	504	2.94	2.76	0.94	534	2.85	2.68	0.94	546	2.75	2.59	0.94	570
29	22	3.19	2.61	0.82	522	3.08	2.52	0.82	555	3.00	2.46	0.82	570	2.88	2.36	0.82	594
29	24	3.35	2.35	0.70	546	3.23	2.26	0.70	576	3.15	2.21	0.70	594	3.05	2.14	0.70	624
29	26	3.45	2.00	0.58	576	3.35	1.94	0.58	606	3.30	1.91	0.58	624	3.20	1.86	0.58	642
30	18	2.94	2.94	1.00	480	2.81	2.81	1.00	504	2.70	2.70	1.00	528	2.60	2.60	1.00	552
30	20	3.06	3.00	0.98	504	2.94	2.88	0.98	534	2.85	2.79	0.98	546	2.75	2.70	0.98	570
30	22	3.19	2.74	0.86	522	3.08	2.64	0.86	555	3.00	2.58	0.86	570	2.88	2.47	0.86	594
30	24	3.35	2.48	0.74	546	3.23	2.39	0.74	576	3.15	2.33	0.74	594	3.05	2.26	0.74	624
30	26	3.45	2.14	0.62	576	3.35	2.08	0.62	606	3.30	2.05	0.62	624	3.20	1.98	0.62	642
31	18	2.94	2.94	1.00	480	2.81	2.81	1.00	504	2.70	2.70	1.00	528	2.60	2.60	1.00	552
31	20	3.06	3.06	1.00	504	2.94	2.94	1.00	534	2.85	2.85	1.00	546	2.75	2.75	1.00	570
31	22	3.19	2.87	0.90	522	3.08	2.77	0.90	555	3.00	2.70	0.90	570	2.88	2.59	0.90	594
31	24	3.35	2.61	0.78	546	3.23	2.52	0.78	576	3.15	2.46	0.78	594	3.05	2.38	0.78	624
31	26	3.45	2.28	0.66	576	3.35	2.21	0.66	606	3.30	2.18	0.66	624	3.20	2.11	0.66	642
32	18	2.94	2.94	1.00	480	2.81	2.81	1.00	504	2.70	2.70	1.00	528	2.60	2.60	1.00	552
32	20	3.06	3.06	1.00	504	2.94	2.94	1.00	534	2.85	2.85	1.00	546	2.75	2.75	1.00	570
32	22	3.19	3.00	0.94	522	3.08	2.89	0.94	555	3.00	2.82	0.94	570	2.88	2.70	0.94	594
32	24	3.35	2.75	0.82	546	3.23	2.64	0.82	576	3.15	2.58	0.82	594	3.05	2.50	0.82	624
32	26	3.45	2.42	0.70	576	3.35	2.35	0.70	606	3.30	2.31	0.70	624	3.20	2.24	0.70	642

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 COOL operation at Rated frequency

MUZ-AY25VG MUZ-AY25VGH

CAPACITY: 2.5 kW

SHF: 0.92

INPUT: 600 W

INDOOR DB (°C)	INDOOR WB (°C)	OUTDOOR DB (°C)											
		35				40				46			
		Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT
21	18	2.45	1.81	0.74	588	2.25	1.67	0.74	624	2.08	1.54	0.74	648
21	20	2.58	1.60	0.62	612	2.40	1.49	0.62	642	2.23	1.38	0.62	678
22	18	2.45	1.91	0.78	588	2.25	1.76	0.78	624	2.08	1.62	0.78	648
22	20	2.58	1.70	0.66	612	2.40	1.58	0.66	642	2.23	1.47	0.66	678
22	22	2.73	1.47	0.54	636	2.55	1.38	0.54	672	2.38	1.28	0.54	696
23	18	2.45	2.01	0.82	588	2.25	1.85	0.82	624	2.08	1.70	0.82	648
23	20	2.58	1.80	0.70	612	2.40	1.68	0.70	642	2.23	1.56	0.70	678
23	22	2.73	1.58	0.58	636	2.55	1.48	0.58	672	2.38	1.38	0.58	696
24	18	2.45	2.11	0.86	588	2.25	1.94	0.86	624	2.08	1.78	0.86	648
24	20	2.58	1.91	0.74	612	2.40	1.78	0.74	642	2.23	1.65	0.74	678
24	22	2.73	1.69	0.62	636	2.55	1.58	0.62	672	2.38	1.47	0.62	696
24	24	2.88	1.44	0.50	660	2.70	1.35	0.50	690	2.55	1.28	0.50	720
25	18	2.45	2.21	0.90	588	2.25	2.03	0.90	624	2.08	1.87	0.9	648
25	20	2.58	2.01	0.78	612	2.40	1.87	0.78	642	2.23	1.74	0.78	678
25	22	2.73	1.80	0.66	636	2.55	1.68	0.66	672	2.38	1.57	0.66	696
25	24	2.88	1.55	0.54	660	2.70	1.46	0.54	690	2.55	1.38	0.54	720
26	18	2.45	2.30	0.94	588	2.25	2.12	0.94	624	2.08	1.95	0.94	648
26	20	2.58	2.11	0.82	612	2.40	1.97	0.82	642	2.23	1.82	0.82	678
26	22	2.73	1.91	0.70	636	2.55	1.79	0.70	672	2.38	1.66	0.70	696
26	24	2.88	1.67	0.58	660	2.70	1.57	0.58	690	2.55	1.48	0.58	720
26	26	3.03	1.39	0.46	684	2.85	1.31	0.46	714	2.68	1.23	0.46	744
27	18	2.45	2.40	0.98	588	2.25	2.21	0.98	624	2.08	2.03	0.98	648
27	20	2.58	2.21	0.86	612	2.40	2.06	0.86	642	2.23	1.91	0.86	678
27	22	2.73	2.02	0.74	636	2.55	1.89	0.74	672	2.38	1.76	0.74	696
27	24	2.88	1.78	0.62	660	2.70	1.67	0.62	690	2.55	1.58	0.62	720
27	26	3.03	1.51	0.50	684	2.85	1.43	0.50	714	2.68	1.34	0.50	744
28	18	2.45	2.45	1.00	588	2.25	2.25	1.00	624	2.08	2.08	1.00	648
28	20	2.58	2.32	0.90	612	2.40	2.16	0.90	642	2.23	2.00	0.90	678
28	22	2.73	2.13	0.78	636	2.55	1.99	0.78	672	2.38	1.85	0.78	696
28	24	2.88	1.90	0.66	660	2.70	1.78	0.66	690	2.55	1.68	0.66	720
28	26	3.03	1.63	0.54	684	2.85	1.54	0.54	714	2.68	1.44	0.54	744
29	18	2.45	2.45	1.00	588	2.25	2.25	1.00	624	2.08	2.08	1.00	648
29	20	2.58	2.42	0.94	612	2.40	2.26	0.94	642	2.23	2.09	0.94	678
29	22	2.73	2.23	0.82	636	2.55	2.09	0.82	672	2.38	1.95	0.82	696
29	24	2.88	2.01	0.70	660	2.70	1.89	0.70	690	2.55	1.79	0.70	720
29	26	3.03	1.75	0.58	684	2.85	1.65	0.58	714	2.68	1.55	0.58	744
30	18	2.45	2.45	1.00	588	2.25	2.25	1.00	624	2.08	2.08	1.00	648
30	20	2.58	2.52	0.98	612	2.40	2.35	0.98	642	2.23	2.18	0.98	678
30	22	2.73	2.34	0.86	636	2.55	2.19	0.86	672	2.38	2.04	0.86	696
30	24	2.88	2.13	0.74	660	2.70	2.00	0.74	690	2.55	1.89	0.74	720
30	26	3.03	1.88	0.62	684	2.85	1.77	0.62	714	2.68	1.66	0.62	744
31	18	2.45	2.45	1.00	588	2.25	2.25	1.00	624	2.08	2.08	1.00	648
31	20	2.58	2.58	1.00	612	2.40	2.40	1.00	642	2.23	2.23	1.00	678
31	22	2.73	2.45	0.90	636	2.55	2.30	0.90	672	2.38	2.14	0.90	696
31	24	2.88	2.24	0.78	660	2.70	2.11	0.78	690	2.55	1.99	0.78	720
31	26	3.03	2.00	0.66	684	2.85	1.88	0.66	714	2.68	1.77	0.66	744
32	18	2.45	2.45	1.00	588	2.25	2.25	1.00	624	2.08	2.08	1.00	648
32	20	2.58	2.58	1.00	612	2.40	2.40	1.00	642	2.23	2.23	1.00	678
32	22	2.73	2.56	0.94	636	2.55	2.40	0.94	672	2.38	2.23	0.94	696
32	24	2.88	2.36	0.82	660	2.70	2.21	0.82	690	2.55	2.09	0.82	720
32	26	3.03	2.12	0.70	684	2.85	2.00	0.70	714	2.68	1.87	0.70	744

NOTE Q : Total capacity (kW)

SHC : Sensible heat capacity (kW)

SHF : Sensible heat factor

INPUT : Total power input (W)

DB : Dry-bulb temperature

WB : Wet-bulb temperature

PERFORMANCE DATA COOL operation at Rated frequency

MUZ-AY35VG MUZ-AY35VGH

CAPACITY: 3.5 kW

SHF: 0.88

INPUT: 990 W

INDOOR DB (°C)	INDOOR WB (°C)	OUTDOOR DB (°C)															
		21				25				27				30			
		Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT
21	18	4.11	2.88	0.70	792	3.94	2.76	0.70	832	3.78	2.65	0.70	871	3.64	2.55	0.70	911
21	20	4.29	2.49	0.58	832	4.11	2.39	0.58	881	3.99	2.31	0.58	901	3.85	2.23	0.58	941
22	18	4.11	3.04	0.74	792	3.94	2.91	0.74	832	3.78	2.80	0.74	871	3.64	2.69	0.74	911
22	20	4.29	2.66	0.62	832	4.11	2.55	0.62	881	3.99	2.47	0.62	901	3.85	2.39	0.62	941
22	22	4.46	2.23	0.50	861	4.31	2.15	0.50	916	4.20	2.10	0.50	941	4.03	2.01	0.50	980
23	18	4.11	3.21	0.78	792	3.94	3.07	0.78	832	3.78	2.95	0.78	871	3.64	2.84	0.78	911
23	20	4.29	2.83	0.66	832	4.11	2.71	0.66	881	3.99	2.63	0.66	901	3.85	2.54	0.66	941
23	22	4.46	2.41	0.54	861	4.31	2.32	0.54	916	4.20	2.27	0.54	941	4.03	2.17	0.54	980
24	18	4.11	3.37	0.82	792	3.94	3.23	0.82	832	3.78	3.10	0.82	871	3.64	2.98	0.82	911
24	20	4.29	3.00	0.70	832	4.11	2.88	0.70	881	3.99	2.79	0.70	901	3.85	2.70	0.70	941
24	22	4.46	2.59	0.58	861	4.31	2.50	0.58	916	4.20	2.44	0.58	941	4.03	2.33	0.58	980
24	24	4.69	2.16	0.46	901	4.52	2.08	0.46	950	4.41	2.03	0.46	980	4.27	1.96	0.46	1030
25	18	4.11	3.54	0.86	792	3.94	3.39	0.86	832	3.78	3.25	0.86	871	3.64	3.13	0.86	911
25	20	4.29	3.17	0.74	832	4.11	3.04	0.74	881	3.99	2.95	0.74	901	3.85	2.85	0.74	941
25	22	4.46	2.77	0.62	861	4.31	2.67	0.62	916	4.20	2.60	0.62	941	4.03	2.50	0.62	980
25	24	4.69	2.35	0.50	901	4.52	2.26	0.50	950	4.41	2.21	0.50	980	4.27	2.14	0.50	1030
26	18	4.11	3.70	0.90	792	3.94	3.54	0.90	832	3.78	3.40	0.90	871	3.64	3.28	0.90	911
26	20	4.29	3.34	0.78	832	4.11	3.21	0.78	881	3.99	3.11	0.78	901	3.85	3.00	0.78	941
26	22	4.46	2.95	0.66	861	4.31	2.84	0.66	916	4.20	2.77	0.66	941	4.03	2.66	0.66	980
26	24	4.69	2.53	0.54	901	4.52	2.44	0.54	950	4.41	2.38	0.54	980	4.27	2.31	0.54	1030
26	26	4.83	2.03	0.42	950	4.69	1.97	0.42	1000	4.62	1.94	0.42	1030	4.48	1.88	0.42	1059
27	18	4.11	3.87	0.94	792	3.94	3.70	0.94	832	3.78	3.55	0.94	871	3.64	3.42	0.94	911
27	20	4.29	3.52	0.82	832	4.11	3.37	0.82	881	3.99	3.27	0.82	901	3.85	3.16	0.82	941
27	22	4.46	3.12	0.70	861	4.31	3.01	0.70	916	4.20	2.94	0.70	941	4.03	2.82	0.70	980
27	24	4.69	2.72	0.58	901	4.52	2.62	0.58	950	4.41	2.56	0.58	980	4.27	2.48	0.58	1030
27	26	4.83	2.22	0.46	950	4.69	2.16	0.46	1000	4.62	2.13	0.46	1030	4.48	2.06	0.46	1059
28	18	4.11	4.03	0.98	792	3.94	3.86	0.98	832	3.78	3.70	0.98	871	3.64	3.57	0.98	911
28	20	4.29	3.69	0.86	832	4.11	3.54	0.86	881	3.99	3.43	0.86	901	3.85	3.31	0.86	941
28	22	4.46	3.30	0.74	861	4.31	3.19	0.74	916	4.20	3.11	0.74	941	4.03	2.98	0.74	980
28	24	4.69	2.91	0.62	901	4.52	2.80	0.62	950	4.41	2.73	0.62	980	4.27	2.65	0.62	1030
28	26	4.83	2.42	0.50	950	4.69	2.35	0.50	1000	4.62	2.31	0.50	1030	4.48	2.24	0.50	1059
29	18	4.11	4.11	1.00	792	3.94	3.94	1.00	832	3.78	3.78	1.00	871	3.64	3.64	1.00	911
29	20	4.29	3.86	0.90	832	4.11	3.70	0.90	881	3.99	3.59	0.90	901	3.85	3.47	0.90	941
29	22	4.46	3.48	0.78	861	4.31	3.36	0.78	916	4.20	3.28	0.78	941	4.03	3.14	0.78	980
29	24	4.69	3.10	0.66	901	4.52	2.98	0.66	950	4.41	2.91	0.66	980	4.27	2.82	0.66	1030
29	26	4.83	2.61	0.54	950	4.69	2.53	0.54	1000	4.62	2.49	0.54	1030	4.48	2.42	0.54	1059
30	18	4.11	4.11	1.00	792	3.94	3.94	1.00	832	3.78	3.78	1.00	871	3.64	3.64	1.00	911
30	20	4.29	4.03	0.94	832	4.11	3.87	0.94	881	3.99	3.75	0.94	901	3.85	3.62	0.94	941
30	22	4.46	3.66	0.82	861	4.31	3.53	0.82	916	4.20	3.44	0.82	941	4.03	3.30	0.82	980
30	24	4.69	3.28	0.70	901	4.52	3.16	0.70	950	4.41	3.09	0.70	980	4.27	2.99	0.70	1030
30	26	4.83	2.80	0.58	950	4.69	2.72	0.58	1000	4.62	2.68	0.58	1030	4.48	2.60	0.58	1059
31	18	4.11	4.11	1.00	792	3.94	3.94	1.00	832	3.78	3.78	1.00	871	3.64	3.64	1.00	911
31	20	4.29	4.20	0.98	832	4.11	4.03	0.98	881	3.99	3.91	0.98	901	3.85	3.77	0.98	941
31	22	4.46	3.84	0.86	861	4.31	3.70	0.86	916	4.20	3.61	0.86	941	4.03	3.46	0.86	980
31	24	4.69	3.47	0.74	901	4.52	3.34	0.74	950	4.41	3.26	0.74	980	4.27	3.16	0.74	1030
31	26	4.83	2.99	0.62	950	4.69	2.91	0.62	1000	4.62	2.86	0.62	1030	4.48	2.78	0.62	1059
32	18	4.11	4.11	1.00	792	3.94	3.94	1.00	832	3.78	3.78	1.00	871	3.64	3.64	1.00	911
32	20	4.29	4.29	1.00	832	4.11	4.11	1.00	881	3.99	3.99	1.00	901	3.85	3.85	1.00	941
32	22	4.46	4.02	0.90	861	4.31	3.87	0.90	916	4.20	3.78	0.90	941	4.03	3.62	0.90	980
32	24	4.69	3.66	0.78	901	4.52	3.52	0.78	950	4.41	3.44	0.78	980	4.27	3.33	0.78	1030
32	26	4.83	3.19	0.66	950	4.69	3.10	0.66	1000	4.62	3.05	0.66	1030	4.48	2.96	0.66	1059

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 COOL operation at Rated frequency

MUZ-AY35VG MUZ-AY35VGH

CAPACITY: 3.5 kW

SHF: 0.88

INPUT: 990 W

INDOOR DB (°C)	INDOOR WB (°C)	OUTDOOR DB (°C)											
		35				40				46			
		Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT
21	18	3.43	2.40	0.70	970	3.15	2.21	0.70	1030	2.91	2.03	0.70	1069
21	20	3.61	2.09	0.58	1010	3.36	1.95	0.58	1059	3.12	1.81	0.58	1119
22	18	3.43	2.54	0.74	970	3.15	2.33	0.74	1030	2.91	2.15	0.74	1069
22	20	3.61	2.24	0.62	1010	3.36	2.08	0.62	1059	3.12	1.93	0.62	1119
22	22	3.82	1.91	0.50	1049	3.57	1.79	0.50	1109	3.33	1.66	0.50	1148
23	18	3.43	2.68	0.78	970	3.15	2.46	0.78	1030	2.91	2.27	0.78	1069
23	20	3.61	2.38	0.66	1010	3.36	2.22	0.66	1059	3.12	2.06	0.66	1119
23	22	3.82	2.06	0.54	1049	3.57	1.93	0.54	1109	3.33	1.80	0.54	1148
24	18	3.43	2.81	0.82	970	3.15	2.58	0.82	1030	2.91	2.38	0.82	1069
24	20	3.61	2.52	0.70	1010	3.36	2.35	0.70	1059	3.12	2.18	0.70	1119
24	22	3.82	2.21	0.58	1049	3.57	2.07	0.58	1109	3.33	1.93	0.58	1148
24	24	4.03	1.85	0.46	1089	3.78	1.74	0.46	1139	3.57	1.64	0.46	1188
25	18	3.43	2.95	0.86	970	3.15	2.71	0.86	1030	2.91	2.50	0.86	1069
25	20	3.61	2.67	0.74	1010	3.36	2.49	0.74	1059	3.12	2.31	0.74	1119
25	22	3.82	2.37	0.62	1049	3.57	2.21	0.62	1109	3.33	2.06	0.62	1148
25	24	4.03	2.01	0.50	1089	3.78	1.89	0.50	1139	3.57	1.79	0.50	1188
26	18	3.43	3.09	0.90	970	3.15	2.84	0.90	1030	2.91	2.61	0.90	1069
26	20	3.61	2.81	0.78	1010	3.36	2.62	0.78	1059	3.12	2.43	0.78	1119
26	22	3.82	2.52	0.66	1049	3.57	2.36	0.66	1109	3.33	2.19	0.66	1148
26	24	4.03	2.17	0.54	1089	3.78	2.04	0.54	1139	3.57	1.93	0.54	1188
26	26	4.24	1.78	0.42	1129	3.99	1.68	0.42	1178	3.75	1.57	0.42	1228
27	18	3.43	3.22	0.94	970	3.15	2.96	0.94	1030	2.91	2.73	0.94	1069
27	20	3.61	2.96	0.82	1010	3.36	2.76	0.82	1059	3.12	2.55	0.82	1119
27	22	3.82	2.67	0.70	1049	3.57	2.50	0.70	1109	3.33	2.33	0.70	1148
27	24	4.03	2.33	0.58	1089	3.78	2.19	0.58	1139	3.57	2.07	0.58	1188
27	26	4.24	1.95	0.46	1129	3.99	1.84	0.46	1178	3.75	1.72	0.46	1228
28	18	3.43	3.36	0.98	970	3.15	3.09	0.98	1030	2.91	2.85	0.98	1069
28	20	3.61	3.10	0.86	1010	3.36	2.89	0.86	1059	3.12	2.68	0.86	1119
28	22	3.82	2.82	0.74	1049	3.57	2.64	0.74	1109	3.33	2.46	0.74	1148
28	24	4.03	2.50	0.62	1089	3.78	2.34	0.62	1139	3.57	2.21	0.62	1188
28	26	4.24	2.12	0.50	1129	3.99	2.00	0.50	1178	3.75	1.87	0.50	1228
29	18	3.43	3.43	1.00	970	3.15	3.15	1.00	1030	2.91	2.91	1.00	1069
29	20	3.61	3.24	0.90	1010	3.36	3.02	0.90	1059	3.12	2.80	0.90	1119
29	22	3.82	2.98	0.78	1049	3.57	2.78	0.78	1109	3.33	2.59	0.78	1148
29	24	4.03	2.66	0.66	1089	3.78	2.49	0.66	1139	3.57	2.36	0.66	1188
29	26	4.24	2.29	0.54	1129	3.99	2.15	0.54	1178	3.75	2.02	0.54	1228
30	18	3.43	3.43	1.00	970	3.15	3.15	1.00	1030	2.91	2.91	1.00	1069
30	20	3.61	3.39	0.94	1010	3.36	3.16	0.94	1059	3.12	2.93	0.94	1119
30	22	3.82	3.13	0.82	1049	3.57	2.93	0.82	1109	3.33	2.73	0.82	1148
30	24	4.03	2.82	0.70	1089	3.78	2.65	0.70	1139	3.57	2.50	0.70	1188
30	26	4.24	2.46	0.58	1129	3.99	2.31	0.58	1178	3.75	2.17	0.58	1228
31	18	3.43	3.43	1.00	970	3.15	3.15	1.00	1030	2.91	2.91	1.00	1069
31	20	3.61	3.53	0.98	1010	3.36	3.29	0.98	1059	3.12	3.05	0.98	1119
31	22	3.82	3.28	0.86	1049	3.57	3.07	0.86	1109	3.33	2.86	0.86	1148
31	24	4.03	2.98	0.74	1089	3.78	2.80	0.74	1139	3.57	2.64	0.74	1188
31	26	4.24	2.63	0.62	1129	3.99	2.47	0.62	1178	3.75	2.32	0.62	1228
32	18	3.43	3.43	1.00	970	3.15	3.15	1.00	1030	2.91	2.91	1.00	1069
32	20	3.61	3.61	1.00	1010	3.36	3.36	1.00	1059	3.12	3.12	1.00	1119
32	22	3.82	3.43	0.90	1049	3.57	3.21	0.90	1109	3.33	2.99	0.90	1148
32	24	4.03	3.14	0.78	1089	3.78	2.95	0.78	1139	3.57	2.78	0.78	1188
32	26	4.24	2.80	0.66	1129	3.99	2.63	0.66	1178	3.75	2.47	0.66	1228

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 COOL operation at Rated frequency

MUZ-AY42VG MUZ-AY42VGH

CAPACITY: 4.2 kW

SHF: 0.77

INPUT: 1300 W

INDOOR DB (°C)	INDOOR WB (°C)	OUTDOOR DB (°C)															
		21				25				27				30			
		Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT
21	18	4.94	2.91	0.59	1040	4.73	2.79	0.59	1092	4.54	2.68	0.59	1144	4.37	2.58	0.59	1196
21	20	5.15	2.42	0.47	1092	4.94	2.32	0.47	1157	4.79	2.25	0.47	1183	4.62	2.17	0.47	1235
22	18	4.94	3.11	0.63	1040	4.73	2.98	0.63	1092	4.54	2.86	0.63	1144	4.37	2.75	0.63	1196
22	20	5.15	2.62	0.51	1092	4.94	2.52	0.51	1157	4.79	2.44	0.51	1183	4.62	2.36	0.51	1235
22	22	5.36	2.09	0.39	1131	5.17	2.01	0.39	1203	5.04	1.97	0.39	1235	4.83	1.88	0.39	1287
23	18	4.94	3.31	0.67	1040	4.73	3.17	0.67	1092	4.54	3.04	0.67	1144	4.37	2.93	0.67	1196
23	20	5.15	2.83	0.55	1092	4.94	2.71	0.55	1157	4.79	2.63	0.55	1183	4.62	2.54	0.55	1235
23	22	5.36	2.30	0.43	1131	5.17	2.22	0.43	1203	5.04	2.17	0.43	1235	4.83	2.08	0.43	1287
24	18	4.94	3.50	0.71	1040	4.73	3.35	0.71	1092	4.54	3.22	0.71	1144	4.37	3.10	0.71	1196
24	20	5.15	3.04	0.59	1092	4.94	2.91	0.59	1157	4.79	2.82	0.59	1183	4.62	2.73	0.59	1235
24	22	5.36	2.52	0.47	1131	5.17	2.43	0.47	1203	5.04	2.37	0.47	1235	4.83	2.27	0.47	1287
24	24	5.63	1.97	0.35	1183	5.42	1.90	0.35	1248	5.29	1.85	0.35	1287	5.12	1.79	0.35	1352
25	18	4.94	3.70	0.75	1040	4.73	3.54	0.75	1092	4.54	3.40	0.75	1144	4.37	3.28	0.75	1196
25	20	5.15	3.24	0.63	1092	4.94	3.11	0.63	1157	4.79	3.02	0.63	1183	4.62	2.91	0.63	1235
25	22	5.36	2.73	0.51	1131	5.17	2.63	0.51	1203	5.04	2.57	0.51	1235	4.83	2.46	0.51	1287
25	24	5.63	2.19	0.39	1183	5.42	2.11	0.39	1248	5.29	2.06	0.39	1287	5.12	2.00	0.39	1352
26	18	4.94	3.90	0.79	1040	4.73	3.73	0.79	1092	4.54	3.58	0.79	1144	4.37	3.45	0.79	1196
26	20	5.15	3.45	0.67	1092	4.94	3.31	0.67	1157	4.79	3.21	0.67	1183	4.62	3.10	0.67	1235
26	22	5.36	2.95	0.55	1131	5.17	2.84	0.55	1203	5.04	2.77	0.55	1235	4.83	2.66	0.55	1287
26	24	5.63	2.42	0.43	1183	5.42	2.33	0.43	1248	5.29	2.28	0.43	1287	5.12	2.20	0.43	1352
26	26	5.80	1.80	0.31	1248	5.63	1.74	0.31	1313	5.54	1.72	0.31	1352	5.38	1.67	0.31	1391
27	18	4.94	4.10	0.83	1040	4.73	3.92	0.83	1092	4.54	3.76	0.83	1144	4.37	3.63	0.83	1196
27	20	5.15	3.65	0.71	1092	4.94	3.50	0.71	1157	4.79	3.40	0.71	1183	4.62	3.28	0.71	1235
27	22	5.36	3.16	0.59	1131	5.17	3.05	0.59	1203	5.04	2.97	0.59	1235	4.83	2.85	0.59	1287
27	24	5.63	2.65	0.47	1183	5.42	2.55	0.47	1248	5.29	2.49	0.47	1287	5.12	2.41	0.47	1352
27	26	5.80	2.03	0.35	1248	5.63	1.97	0.35	1313	5.54	1.94	0.35	1352	5.38	1.88	0.35	1391
28	18	4.94	4.29	0.87	1040	4.73	4.11	0.87	1092	4.54	3.95	0.87	1144	4.37	3.80	0.87	1196
28	20	5.15	3.86	0.75	1092	4.94	3.70	0.75	1157	4.79	3.59	0.75	1183	4.62	3.47	0.75	1235
28	22	5.36	3.37	0.63	1131	5.17	3.25	0.63	1203	5.04	3.18	0.63	1235	4.83	3.04	0.63	1287
28	24	5.63	2.87	0.51	1183	5.42	2.76	0.51	1248	5.29	2.70	0.51	1287	5.12	2.61	0.51	1352
28	26	5.80	2.26	0.39	1248	5.63	2.19	0.39	1313	5.54	2.16	0.39	1352	5.38	2.10	0.39	1391
29	18	4.94	4.49	0.91	1040	4.73	4.30	0.91	1092	4.54	4.13	0.91	1144	4.37	3.97	0.91	1196
29	20	5.15	4.06	0.79	1092	4.94	3.90	0.79	1157	4.79	3.78	0.79	1183	4.62	3.65	0.79	1235
29	22	5.36	3.59	0.67	1131	5.17	3.46	0.67	1203	5.04	3.38	0.67	1235	4.83	3.24	0.67	1287
29	24	5.63	3.10	0.55	1183	5.42	2.98	0.55	1248	5.29	2.91	0.55	1287	5.12	2.82	0.55	1352
29	26	5.80	2.49	0.43	1248	5.63	2.42	0.43	1313	5.54	2.38	0.43	1352	5.38	2.31	0.43	1391
30	18	4.94	4.69	0.95	1040	4.73	4.49	0.95	1092	4.54	4.31	0.95	1144	4.37	4.15	0.95	1196
30	20	5.15	4.27	0.83	1092	4.94	4.10	0.83	1157	4.79	4.07	0.83	1183	4.62	3.83	0.83	1235
30	22	5.36	3.80	0.71	1131	5.17	3.67	0.71	1203	5.04	3.58	0.71	1235	4.83	3.43	0.71	1287
30	24	5.63	3.32	0.59	1183	5.42	3.20	0.59	1248	5.29	3.12	0.59	1287	5.12	3.02	0.59	1352
30	26	5.80	2.72	0.47	1248	5.63	2.65	0.47	1313	5.54	2.61	0.47	1352	5.38	2.53	0.47	1391
31	18	4.94	4.89	0.99	1040	4.73	4.68	0.99	1092	4.54	4.49	0.99	1144	4.37	4.32	0.99	1196
31	20	5.15	4.48	0.87	1092	4.94	4.29	0.87	1157	4.79	4.17	0.87	1183	4.62	4.02	0.87	1235
31	22	5.36	4.02	0.75	1131	5.17	3.87	0.75	1203	5.04	3.78	0.75	1235	4.83	3.62	0.75	1287
31	24	5.63	3.55	0.63	1183	5.42	3.41	0.63	1248	5.29	3.33	0.63	1287	5.12	3.23	0.63	1352
31	26	5.80	2.96	0.51	1248	5.63	2.87	0.51	1313	5.54	2.83	0.51	1352	5.38	2.74	0.51	1391
32	18	4.94	4.94	1.00	1040	4.73	4.73	1.00	1092	4.54	4.54	1.00	1144	4.37	4.37	1.00	1196
32	20	5.15	4.68	0.91	1092	4.94	4.49	0.91	1157	4.79	4.36	0.91	1183	4.62	4.20	0.91	1235
32	22	5.36	4.23	0.79	1131	5.17	4.08	0.79	1203	5.04	3.98	0.79	1235	4.83	3.82	0.79	1287
32	24	5.63	3.77	0.67	1183	5.42	3.63	0.67	1248	5.29	3.55	0.67	1287	5.12	3.43	0.67	1352
32	26	5.80	3.19	0.55	1248	5.63	3.10	0.55	1313	5.54	3.05	0.55	1352	5.38	2.96	0.55	1391

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 COOL operation at Rated frequency

MUZ-AY42VG MUZ-AY42VGH

CAPACITY: 4.2 kW

SHF: 0.77

INPUT: 1300 W

INDOOR DB (°C)	INDOOR WB (°C)	OUTDOOR DB (°C)											
		35				40				46			
		Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT
21	18	4.12	2.43	0.59	1274	3.78	2.23	0.59	1352	3.49	2.06	0.59	1404
21	20	4.33	2.03	0.47	1326	4.03	1.90	0.47	1391	3.74	1.76	0.47	1469
22	18	4.12	2.59	0.63	1274	3.78	2.38	0.63	1352	3.49	2.20	0.63	1404
22	20	4.33	2.21	0.51	1326	4.03	2.06	0.51	1391	3.74	1.91	0.51	1469
22	22	4.58	1.79	0.39	1378	4.28	1.67	0.39	1456	3.99	1.56	0.39	1508
23	18	4.12	2.76	0.67	1274	3.78	2.53	0.67	1352	3.49	2.34	0.67	1404
23	20	4.33	2.38	0.55	1326	4.03	2.22	0.55	1391	3.74	2.06	0.55	1469
23	22	4.58	1.97	0.43	1378	4.28	1.84	0.43	1456	3.99	1.72	0.43	1508
24	18	4.12	2.92	0.71	1274	3.78	2.68	0.71	1352	3.49	2.48	0.71	1404
24	20	4.33	2.55	0.59	1326	4.03	2.38	0.59	1391	3.74	2.21	0.59	1469
24	22	4.58	2.15	0.47	1378	4.28	2.01	0.47	1456	3.99	1.88	0.47	1508
24	24	4.83	1.69	0.35	1430	4.54	1.59	0.35	1495	4.28	1.50	0.35	1560
25	18	4.12	3.09	0.75	1274	3.78	2.84	0.75	1352	3.49	2.61	0.75	1404
25	20	4.33	2.73	0.63	1326	4.03	2.54	0.63	1391	3.74	2.35	0.63	1469
25	22	4.58	2.33	0.51	1378	4.28	2.18	0.51	1456	3.99	2.03	0.51	1508
25	24	4.83	1.88	0.39	1430	4.54	1.77	0.39	1495	4.28	1.67	0.39	1560
26	18	4.12	3.25	0.79	1274	3.78	2.99	0.79	1352	3.49	2.75	0.79	1404
26	20	4.33	2.90	0.67	1326	4.03	2.70	0.67	1391	3.74	2.50	0.67	1469
26	22	4.58	2.52	0.55	1378	4.28	2.36	0.55	1456	3.99	2.19	0.55	1508
26	24	4.83	2.08	0.43	1430	4.54	1.95	0.43	1495	4.28	1.84	0.43	1560
26	26	5.08	1.58	0.31	1482	4.79	1.48	0.31	1547	4.49	1.39	0.31	1612
27	18	4.12	3.42	0.83	1274	3.78	3.14	0.83	1352	3.49	2.89	0.83	1404
27	20	4.33	3.07	0.71	1326	4.03	2.86	0.71	1391	3.74	2.65	0.71	1469
27	22	4.58	2.70	0.59	1378	4.28	2.53	0.59	1456	3.99	2.35	0.59	1508
27	24	4.83	2.27	0.47	1430	4.54	2.13	0.47	1495	4.28	2.01	0.47	1560
27	26	5.08	1.78	0.35	1482	4.79	1.68	0.35	1547	4.49	1.57	0.35	1612
28	18	4.12	3.58	0.87	1274	3.78	3.29	0.87	1352	3.49	3.03	0.87	1404
28	20	4.33	3.24	0.75	1326	4.03	3.02	0.75	1391	3.74	2.80	0.75	1469
28	22	4.58	2.88	0.63	1378	4.28	2.70	0.63	1456	3.99	2.51	0.63	1508
28	24	4.83	2.46	0.51	1430	4.54	2.31	0.51	1495	4.28	2.18	0.51	1560
28	26	5.08	1.98	0.39	1482	4.79	1.87	0.39	1547	4.49	1.75	0.39	1612
29	18	4.12	3.75	0.91	1274	3.78	3.44	0.91	1352	3.49	3.17	0.91	1404
29	20	4.33	3.42	0.79	1326	4.03	3.19	0.79	1391	3.74	2.95	0.79	1469
29	22	4.58	3.07	0.67	1378	4.28	2.87	0.67	1456	3.99	2.67	0.67	1508
29	24	4.83	2.66	0.55	1430	4.54	2.49	0.55	1495	4.28	2.36	0.55	1560
29	26	5.08	2.19	0.43	1482	4.79	2.06	0.43	1547	4.49	1.93	0.43	1612
30	18	4.12	3.91	0.95	1274	3.78	3.59	0.95	1352	3.49	3.31	0.95	1404
30	20	4.33	3.59	0.83	1326	4.03	3.35	0.83	1391	3.74	3.10	0.83	1469
30	22	4.58	3.25	0.71	1378	4.28	3.04	0.71	1456	3.99	2.83	0.71	1508
30	24	4.83	2.85	0.59	1430	4.54	2.68	0.59	1495	4.28	2.53	0.59	1560
30	26	5.08	2.39	0.47	1482	4.79	2.25	0.47	1547	4.49	2.11	0.47	1612
31	18	4.12	4.07	0.99	1274	3.78	3.74	0.99	1352	3.49	3.45	0.99	1404
31	20	4.33	3.76	0.87	1326	4.03	3.51	0.87	1391	3.74	3.25	0.87	1469
31	22	4.58	3.43	0.75	1378	4.28	3.21	0.75	1456	3.99	2.99	0.75	1508
31	24	4.83	3.04	0.63	1430	4.54	2.86	0.63	1495	4.28	2.70	0.63	1560
31	26	5.08	2.59	0.51	1482	4.79	2.44	0.51	1547	4.49	2.29	0.51	1612
32	18	4.12	4.12	1.00	1274	3.78	3.78	1.00	1352	3.49	3.49	1.00	1404
32	20	4.33	3.94	0.91	1326	4.03	3.67	0.91	1391	3.74	3.40	0.91	1469
32	22	4.58	3.62	0.79	1378	4.28	3.38	0.79	1456	3.99	3.15	0.79	1508
32	24	4.83	3.24	0.67	1430	4.54	3.04	0.67	1495	4.28	2.87	0.67	1560
32	26	5.08	2.80	0.55	1482	4.79	2.63	0.55	1547	4.49	2.47	0.55	1612

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 COOL operation at Rated frequency

MUZ-AY50VG MUZ-AY50VGH

CAPACITY: 5.0 kW

SHF: 0.74

INPUT: 1540 W

INDOOR DB (°C)	INDOOR WB (°C)	OUTDOOR DB (°C)															
		21				25				27				30			
		Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT
21	18	5.88	3.29	0.56	1232	5.63	3.15	0.56	1294	5.40	3.02	0.56	1355	5.20	2.91	0.56	1417
21	20	6.13	2.70	0.44	1294	5.88	2.59	0.44	1371	5.70	2.51	0.44	1401	5.50	2.42	0.44	1463
22	18	5.88	3.53	0.60	1232	5.63	3.38	0.60	1294	5.40	3.24	0.60	1355	5.20	3.12	0.60	1417
22	20	6.13	2.94	0.48	1294	5.88	2.82	0.48	1371	5.70	2.74	0.48	1401	5.50	2.64	0.48	1463
22	22	6.38	2.30	0.36	1340	6.15	2.21	0.36	1425	6.00	2.16	0.36	1463	5.75	2.07	0.36	1525
23	18	5.88	3.76	0.64	1232	5.63	3.60	0.64	1294	5.40	3.46	0.64	1355	5.20	3.33	0.64	1417
23	20	6.13	3.19	0.52	1294	5.88	3.06	0.52	1371	5.70	2.96	0.52	1401	5.50	2.86	0.52	1463
23	22	6.38	2.55	0.40	1340	6.15	2.46	0.40	1425	6.00	2.40	0.40	1463	5.75	2.30	0.40	1525
24	18	5.88	4.00	0.68	1232	5.63	3.83	0.68	1294	5.40	3.67	0.68	1355	5.20	3.54	0.68	1417
24	20	6.13	3.43	0.56	1294	5.88	3.29	0.56	1371	5.70	3.19	0.56	1401	5.50	3.08	0.56	1463
24	22	6.38	2.81	0.44	1340	6.15	2.71	0.44	1425	6.00	2.64	0.44	1463	5.75	2.53	0.44	1525
24	24	6.70	2.14	0.32	1401	6.45	2.06	0.32	1478	6.30	2.02	0.32	1525	6.10	1.95	0.32	1602
25	18	5.88	4.23	0.72	1232	5.63	4.05	0.72	1294	5.40	3.89	0.72	1355	5.20	3.74	0.72	1417
25	20	6.13	3.68	0.60	1294	5.88	3.53	0.60	1371	5.70	3.42	0.60	1401	5.50	3.30	0.60	1463
25	22	6.38	3.06	0.48	1340	6.15	2.95	0.48	1425	6.00	2.88	0.48	1463	5.75	2.76	0.48	1525
25	24	6.70	2.41	0.36	1401	6.45	2.32	0.36	1478	6.30	2.27	0.36	1525	6.10	2.20	0.36	1602
26	18	5.88	4.47	0.76	1232	5.63	4.28	0.76	1294	5.40	4.10	0.76	1355	5.20	3.95	0.76	1417
26	20	6.13	3.92	0.64	1294	5.88	3.76	0.64	1371	5.70	3.65	0.64	1401	5.50	3.52	0.64	1463
26	22	6.38	3.32	0.52	1340	6.15	3.20	0.52	1425	6.00	3.12	0.52	1463	5.75	2.99	0.52	1525
26	24	6.70	2.68	0.40	1401	6.45	2.58	0.40	1478	6.30	2.52	0.40	1525	6.10	2.44	0.40	1602
26	26	6.90	1.93	0.28	1478	6.70	1.88	0.28	1555	6.60	1.85	0.28	1602	6.40	1.79	0.28	1648
27	18	5.88	4.70	0.80	1232	5.63	4.50	0.80	1294	5.40	4.32	0.80	1355	5.20	4.16	0.80	1417
27	20	6.13	4.17	0.68	1294	5.88	4.00	0.68	1371	5.70	3.88	0.68	1401	5.50	3.74	0.68	1463
27	22	6.38	3.57	0.56	1340	6.15	3.44	0.56	1425	6.00	3.36	0.56	1463	5.75	3.22	0.56	1525
27	24	6.70	2.95	0.44	1401	6.45	2.84	0.44	1478	6.30	2.77	0.44	1525	6.10	2.68	0.44	1602
27	26	6.90	2.21	0.32	1478	6.70	2.14	0.32	1555	6.60	2.11	0.32	1602	6.40	2.05	0.32	1648
28	18	5.88	4.94	0.84	1232	5.63	4.73	0.84	1294	5.40	4.54	0.84	1355	5.20	4.37	0.84	1417
28	20	6.13	4.41	0.72	1294	5.88	4.23	0.72	1371	5.70	4.10	0.72	1401	5.50	3.96	0.72	1463
28	22	6.38	3.83	0.60	1340	6.15	3.69	0.60	1425	6.00	3.60	0.60	1463	5.75	3.45	0.60	1525
28	24	6.70	3.22	0.48	1401	6.45	3.10	0.48	1478	6.30	3.02	0.48	1525	6.10	2.93	0.48	1602
28	26	6.90	2.48	0.36	1478	6.70	2.41	0.36	1555	6.60	2.38	0.36	1602	6.40	2.30	0.36	1648
29	18	5.88	5.17	0.88	1232	5.63	4.95	0.88	1294	5.40	4.75	0.88	1355	5.20	4.58	0.88	1417
29	20	6.13	4.66	0.76	1294	5.88	4.47	0.76	1371	5.70	4.33	0.76	1401	5.50	4.18	0.76	1463
29	22	6.38	4.08	0.64	1340	6.15	3.94	0.64	1425	6.00	3.84	0.64	1463	5.75	3.68	0.64	1525
29	24	6.70	3.48	0.52	1401	6.45	3.35	0.52	1478	6.30	3.28	0.52	1525	6.10	3.17	0.52	1602
29	26	6.90	2.76	0.40	1478	6.70	2.68	0.40	1555	6.60	2.64	0.40	1602	6.40	2.56	0.40	1648
30	18	5.88	5.41	0.92	1232	5.63	5.18	0.92	1294	5.40	4.97	0.92	1355	5.20	4.78	0.92	1417
30	20	6.13	4.90	0.80	1294	5.88	4.70	0.80	1371	5.70	4.56	0.80	1401	5.50	4.40	0.80	1463
30	22	6.38	4.34	0.68	1340	6.15	4.18	0.68	1425	6.00	4.08	0.68	1463	5.75	3.91	0.68	1525
30	24	6.70	3.75	0.56	1401	6.45	3.61	0.56	1478	6.30	3.53	0.56	1525	6.10	3.42	0.56	1602
30	26	6.90	3.04	0.44	1478	6.70	2.95	0.44	1555	6.60	2.90	0.44	1602	6.40	2.82	0.44	1648
31	18	5.88	5.64	0.96	1232	5.63	5.40	0.96	1294	5.40	5.18	0.96	1355	5.20	4.99	0.96	1417
31	20	6.13	5.15	0.84	1294	5.88	4.94	0.84	1371	5.70	4.79	0.84	1401	5.50	4.62	0.84	1463
31	22	6.38	4.59	0.72	1340	6.15	4.43	0.72	1425	6.00	4.32	0.72	1463	5.75	4.14	0.72	1525
31	24	6.70	4.02	0.60	1401	6.45	3.87	0.60	1478	6.30	3.78	0.60	1525	6.10	3.66	0.60	1602
31	26	6.90	3.31	0.48	1478	6.70	3.22	0.48	1555	6.60	3.17	0.48	1602	6.40	3.07	0.48	1648
32	18	5.88	5.88	1.00	1232	5.63	5.63	1.00	1294	5.40	5.40	1.00	1355	5.20	5.20	1.00	1417
32	20	6.13	5.39	0.88	1294	5.88	5.17	0.88	1371	5.70	5.02	0.88	1401	5.50	4.84	0.88	1463
32	22	6.38	4.85	0.76	1340	6.15	4.67	0.76	1425	6.00	4.56	0.76	1463	5.75	4.37	0.76	1525
32	24	6.70	4.29	0.64	1401	6.45	4.13	0.64	1478	6.30	4.03	0.64	1525	6.10	3.90	0.64	1602
32	26	6.90	3.59	0.52	1478	6.70	3.48	0.52	1555	6.60	3.43	0.52	1602	6.40	3.33	0.52	1648

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 COOL operation at Rated frequency

MUZ-AY50VG MUZ-AY50VGH

CAPACITY: 5.0 kW

SHF: 0.74

INPUT: 1540 W

INDOOR DB (°C)	INDOOR WB (°C)	OUTDOOR DB (°C)											
		35				40				46			
		Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT	Q	SHC	SHF	INPUT
21	18	4.90	2.74	0.56	1509	4.50	2.52	0.56	1602	4.15	2.32	0.56	1663
21	20	5.15	2.27	0.44	1571	4.80	2.11	0.44	1648	4.45	1.96	0.44	1740
22	18	4.90	2.94	0.60	1509	4.50	2.70	0.60	1602	4.15	2.49	0.60	1663
22	20	5.15	2.47	0.48	1571	4.80	2.30	0.48	1648	4.45	2.14	0.48	1740
22	22	5.45	1.96	0.36	1632	5.10	1.84	0.36	1725	4.75	1.71	0.36	1786
23	18	4.90	3.14	0.64	1509	4.50	2.88	0.64	1602	4.15	2.66	0.64	1663
23	20	5.15	2.68	0.52	1571	4.80	2.50	0.52	1648	4.45	2.31	0.52	1740
23	22	5.45	2.18	0.40	1632	5.10	2.04	0.40	1725	4.75	1.90	0.40	1786
24	18	4.90	3.33	0.68	1509	4.50	3.06	0.68	1602	4.15	2.82	0.68	1663
24	20	5.15	2.88	0.56	1571	4.80	2.69	0.56	1648	4.45	2.49	0.56	1740
24	22	5.45	2.40	0.44	1632	5.10	2.24	0.44	1725	4.75	2.09	0.44	1786
24	24	5.75	1.84	0.32	1694	5.40	1.73	0.32	1771	5.10	1.63	0.32	1848
25	18	4.90	3.53	0.72	1509	4.50	3.24	0.72	1602	4.15	2.99	0.72	1663
25	20	5.15	3.09	0.60	1571	4.80	2.88	0.60	1648	4.45	2.67	0.60	1740
25	22	5.45	2.62	0.48	1632	5.10	2.45	0.48	1725	4.75	2.28	0.48	1786
25	24	5.75	2.07	0.36	1694	5.40	1.94	0.36	1771	5.10	1.84	0.36	1848
26	18	4.90	3.72	0.76	1509	4.50	3.42	0.76	1602	4.15	3.15	0.76	1663
26	20	5.15	3.30	0.64	1571	4.80	3.07	0.64	1648	4.45	2.85	0.64	1740
26	22	5.45	2.83	0.52	1632	5.10	2.65	0.52	1725	4.75	2.47	0.52	1786
26	24	5.75	2.30	0.40	1694	5.40	2.16	0.40	1771	5.10	2.04	0.40	1848
26	26	6.05	1.69	0.28	1756	5.70	1.60	0.28	1833	5.35	1.50	0.28	1910
27	18	4.90	3.92	0.80	1509	4.50	3.60	0.80	1602	4.15	3.32	0.80	1663
27	20	5.15	3.50	0.68	1571	4.80	3.26	0.68	1648	4.45	3.03	0.68	1740
27	22	5.45	3.05	0.56	1632	5.10	2.86	0.56	1725	4.75	2.66	0.56	1786
27	24	5.75	2.53	0.44	1694	5.40	2.38	0.44	1771	5.10	2.24	0.44	1848
27	26	6.05	1.94	0.32	1756	5.70	1.82	0.32	1833	5.35	1.71	0.32	1910
28	18	4.90	4.12	0.84	1509	4.50	3.78	0.84	1602	4.15	3.49	0.84	1663
28	20	5.15	3.71	0.72	1571	4.80	3.46	0.72	1648	4.45	3.20	0.72	1740
28	22	5.45	3.27	0.60	1632	5.10	3.06	0.60	1725	4.75	2.85	0.60	1786
28	24	5.75	2.76	0.48	1694	5.40	2.59	0.48	1771	5.10	2.45	0.48	1848
28	26	6.05	2.18	0.36	1756	5.70	2.05	0.36	1833	5.35	1.93	0.36	1910
29	18	4.90	4.31	0.88	1509	4.50	3.96	0.88	1602	4.15	3.65	0.88	1663
29	20	5.15	3.91	0.76	1571	4.80	3.65	0.76	1648	4.45	3.38	0.76	1740
29	22	5.45	3.49	0.64	1632	5.10	3.26	0.64	1725	4.75	3.04	0.64	1786
29	24	5.75	2.99	0.52	1694	5.40	2.81	0.52	1771	5.10	2.65	0.52	1848
29	26	6.05	2.42	0.40	1756	5.70	2.28	0.40	1833	5.35	2.14	0.40	1910
30	18	4.90	4.51	0.92	1509	4.50	4.14	0.92	1602	4.15	3.82	0.92	1663
30	20	5.15	4.12	0.80	1571	4.80	3.84	0.80	1648	4.45	3.56	0.80	1740
30	22	5.45	3.71	0.68	1632	5.10	3.47	0.68	1725	4.75	3.23	0.68	1786
30	24	5.75	3.22	0.56	1694	5.40	3.02	0.56	1771	5.10	2.86	0.56	1848
30	26	6.05	2.66	0.44	1756	5.70	2.51	0.44	1833	5.35	2.35	0.44	1910
31	18	4.90	4.70	0.96	1509	4.50	4.32	0.96	1602	4.15	3.98	0.96	1663
31	20	5.15	4.33	0.84	1571	4.80	4.03	0.84	1648	4.45	3.74	0.84	1740
31	22	5.45	3.92	0.72	1632	5.10	3.67	0.72	1725	4.75	3.42	0.72	1786
31	24	5.75	3.45	0.60	1694	5.40	3.24	0.60	1771	5.10	3.06	0.60	1848
31	26	6.05	2.90	0.48	1756	5.70	2.74	0.48	1833	5.35	2.57	0.48	1910
32	18	4.90	4.90	1.00	1509	4.50	4.50	1.00	1602	4.15	4.15	1.00	1663
32	20	5.15	4.53	0.88	1571	4.80	4.22	0.88	1648	4.45	3.92	0.88	1740
32	22	5.45	4.14	0.76	1632	5.10	3.88	0.76	1725	4.75	3.61	0.76	1786
32	24	5.75	3.68	0.64	1694	5.40	3.46	0.64	1771	5.10	3.26	0.64	1848
32	26	6.05	3.15	0.52	1756	5.70	2.96	0.52	1833	5.35	2.78	0.52	1910

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

ANSWER The answer is 1000.

PERFORMANCE DATA HEAT operation at Rated frequency

MUZ-AY25VG

CAPACITY: 3.2 kW

INPUT: 780 W

INDOOR DB (°C)	OUTDOOR WB (°C)															
	-15		-10		-5		0		5		10		15		20	
	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT
15	1.60	406	2.02	507	2.43	608	2.85	686	3.26	741	3.68	788	4.06	811	4.48	827
21	1.50	429	1.92	546	2.30	647	2.72	718	3.10	772	3.52	811	3.90	835	4.30	866
26	1.31	468	1.73	585	2.14	686	2.53	757	2.94	811	3.36	850	3.74	874	4.16	897

MUZ-AY25VGH

CAPACITY: 3.2 kW

INPUT: 780 W

INDOOR DB (°C)	OUTDOOR WB (°C)																	
	-20		-15		-10		-5		0		5		10		15		20	
	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT
15	1.22	312	1.60	406	2.02	507	2.43	608	2.85	686	3.26	741	3.68	788	4.06	811	4.48	827
21	1.12	328	1.50	429	1.92	546	2.30	647	2.72	718	3.10	772	3.52	811	3.90	835	4.30	866
26	0.90	351	1.31	468	1.73	585	2.14	686	2.53	757	2.94	811	3.36	850	3.74	874	4.16	897

MUZ-AY35VG

CAPACITY: 4.0 kW

INPUT: 1030 W

INDOOR DB (°C)	OUTDOOR WB (°C)															
	-15		-10		-5		0		5		10		15		20	
	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT
15	2.00	536	2.52	670	3.04	803	3.56	906	4.08	979	4.60	1040	5.08	1071	5.60	1092
21	1.88	567	2.40	721	2.88	855	3.40	948	3.88	1020	4.40	1071	4.88	1102	5.38	1143
26	1.64	618	2.16	773	2.68	906	3.16	999	3.68	1071	4.20	1123	4.68	1154	5.20	1185

MUZ-AY35VGH

CAPACITY: 4.0 kW

INPUT: 1030 W

INDOOR DB (°C)	OUTDOOR WB (°C)															
	-20		-15		-10		-5		0		5		10		15	
	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT
15	1.52	412	2.00	536	2.52	670	3.04	803	3.56	906	4.08	979	4.60	1040	5.08	1071
21	1.40	433	1.88	567	2.40	721	2.88	855	3.40	948	3.88	1020	4.40	1071	4.88	1102
26	1.12	464	1.64	618	2.16	773	2.68	906	3.16	999	3.68	1071	4.20	1123	4.68	1154
															5.20	1185

MUZ-AY42VG

CAPACITY: 5.2 kW

INPUT: 1390 W

INDOOR DB (°C)	OUTDOOR WB (°C)															
	-15		-10		-5		0		5		10		15		20	
	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT
15	2.60	723	3.28	904	3.95	1084	4.63	1223	5.30	1321	5.98	1404	6.60	1446	7.28	1473
21	2.44	765	3.12	973	3.74	1154	4.42	1279	5.04	1376	5.72	1446	6.34	1487	6.99	1543
26	2.13	834	2.81	1043	3.48	1223	4.11	1348	4.78	1446	5.46	1515	6.08	1557	6.76	1599

MUZ-AY42VGH

CAPACITY: 5.2 kW

INPUT: 1390 W

INDOOR DB (°C)	OUTDOOR WB (°C)															
	-20		-15		-10		-5		0		5		10		15	
	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT
15	1.98	556	2.60	723	3.28	904	3.95	1084	4.63	1223	5.30	1321	5.98	1404	6.60	1446
21	1.82	584	2.44	765	3.12	973	3.74	1154	4.42	1279	5.04	1376	5.72	1446	6.34	1487
26	1.46	626	2.13	834	2.81	1043	3.48	1223	4.11	1348	4.78	1446	5.46	1515	6.08	1557

NOTE: Q: Total capacity (kW) INPUT : Total power input (W) DB: Dry-bulb temperature WB: Wet-bulb temperature

PERFORMANCE DATA HEAT operation at Rated frequency

MUZ-AY50VG

CAPACITY: 5.5 kW

INPUT: 1470 W

INDOOR DB (°C)	OUTDOOR WB (°C)															
	-15		-10		-5		0		5		10		15		20	
	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT
15	2.75	764	3.47	956	4.18	1147	4.90	1294	5.61	1397	6.33	1485	6.99	1529	7.70	1558
21	2.59	809	3.30	1029	3.96	1220	4.68	1352	5.34	1455	6.05	1529	6.71	1573	7.40	1632
26	2.26	882	2.97	1103	3.69	1294	4.35	1426	5.06	1529	5.78	1602	6.44	1646	7.15	1691

MUZ-AY50VGH

CAPACITY: 5.5 kW

INPUT: 1470 W

INDOOR DB (°C)	OUTDOOR WB (°C)																	
	-20		-15		-10		-5		0		5		10		15		20	
	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT
15	2.09	588	2.75	764	3.47	956	4.18	1147	4.90	1294	5.61	1397	6.33	1485	6.99	1529	7.70	1558
21	1.93	617	2.59	809	3.30	1029	3.96	1220	4.68	1352	5.34	1455	6.05	1529	6.71	1573	7.40	1632
26	1.54	662	2.26	882	2.97	1103	3.69	1294	4.35	1426	5.06	1529	5.78	1602	6.44	1646	7.15	1691

NOTE: Q: Total capacity (kW) INPUT : Total power input (W) DB: Dry-bulb temperature WB: Wet-bulb temperature

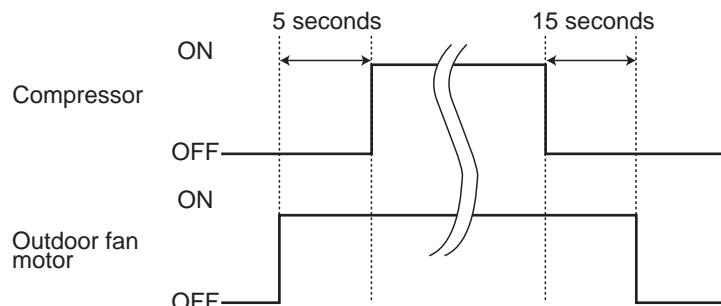
**MUZ-AY25VG MUZ-AY35VG MUZ-AY42VG MUZ-AY50VG
MUZ-AY25VGH MUZ-AY35VGH MUZ-AY42VGH MUZ-AY50VGH**

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

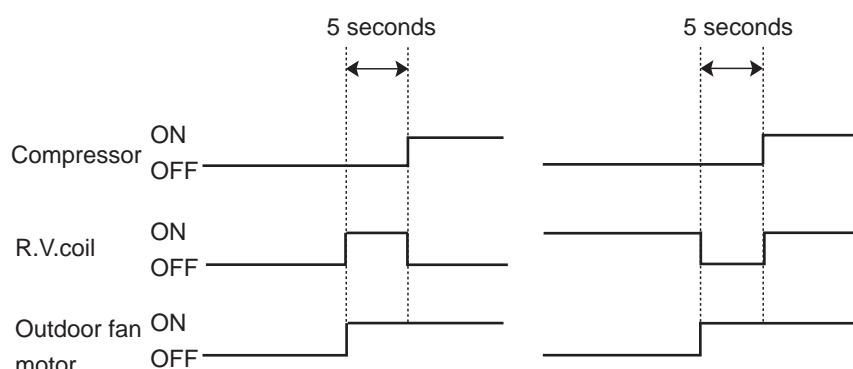
Heating ON

Cooling OFF

Dry OFF

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

<COOL> **<HEAT>**



10-3. RELATION BETWEEN MAIN SENSOR AND ACTUATOR

Sensor	Purpose	Actuator					
		Compressor	LEV	Outdoor fan motor	R.V. coil	Indoor fan motor	Defrost heater
Discharge temperature thermistor	Protection	○	○				
Indoor coil temperature thermistor	Cooling: Coil frost prevention	○					
	Heating: High pressure protection	○	○				
Defrost thermistor	Heating: Defrosting	○	○	○	○	○	
Fin temperature thermistor	Protection	○		○			
Ambient temperature thermistor	Cooling: Low ambient temperature operation	○	○	○			
	Heating: Defrosting (Heater)						○
Outdoor heat exchanger temperature thermistor	Cooling: Low ambient temperature operation	○	○	○			
	Cooling: High pressure protection	○	○	○			

**MUZ-AY25VG MUZ-AY35VG MUZ-AY42VG MUZ-AY50VG
MUZ-AY25VGH MUZ-AY35VGH MUZ-AY42VGH MUZ-AY50VGH**

11-1. CHANGE IN DEFROST SETTING

Changing defrost finish temperature

<JS> To change the defrost finish temperature, cut/solder the JS wire of the outdoor inverter P.C. board.
(Refer to 12-6-1.)

Jumper wire		Defrost finish temperature (°C)
JS	Soldered (Initial setting)	5
	None (Cut)	10

11-2. PRE-HEAT CONTROL SETTING

PRE-HEAT CONTROL

When moisture gets into the refrigerant cycle, it may interfere the startup of the compressor at low outside temperature. The pre-heat control prevents this interference. The pre-heat control turns ON when the discharge temperature thermistor is 20°C or below. When the pre-heat control turns ON, the compressor is energized. (About 50 W)

Pre-heat control setting

<JK>

ON: To activate the pre-heat control, cut the JK wire of the inverter P.C. board.

OFF: To deactivate the pre-heat control, solder the JK wire of the inverter P.C. board.

(Refer to 12-6-1)

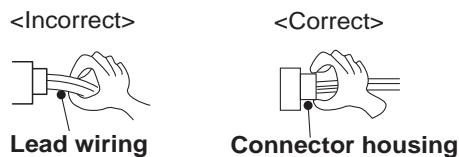
NOTE: When the inverter P.C. board is replaced, check the jumper wires, and cut/solder them if necessary.

**MUZ-AY25VG MUZ-AY35VG MUZ-AY42VG MUZ-AY50VG
MUZ-AY25VGH MUZ-AY35VGH MUZ-AY42VGH MUZ-AY50VGH****12-1. CAUTIONS ON TROUBLESHOOTING****1. Before troubleshooting, check the following**

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

2. Take care of the following during servicing

- 1) Before servicing the air conditioner, be sure to turn OFF the main unit first with the remote controller, and 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 electronic control P.C. board.
- 3) When removing the electrical parts, be careful of the residual voltage of smoothing capacitor.
- 4) When removing the electronic control 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 connector housing. DO NOT pull the lead wires.

**3. Troubleshooting procedure**

- 1) Check if the OPERATION INDICATOR lamp on the indoor unit is blinking on and off to indicate an abnormality.
To make sure, check how many times the OPERATION INDICATOR lamp is blinking on and off before starting service work.
- 2) Before servicing, verify that all connectors and terminals are connected properly.
- 3) When the electronic control P.C. board seems to be defective, check for disconnection of the copper foil pattern and burnt or discolored components.
- 4) Refer to 12-2 and 12-3.

12-2. FAILURE MODE RECALL FUNCTION

Outline of the function

This air conditioner can memorize the abnormal condition which has occurred once.

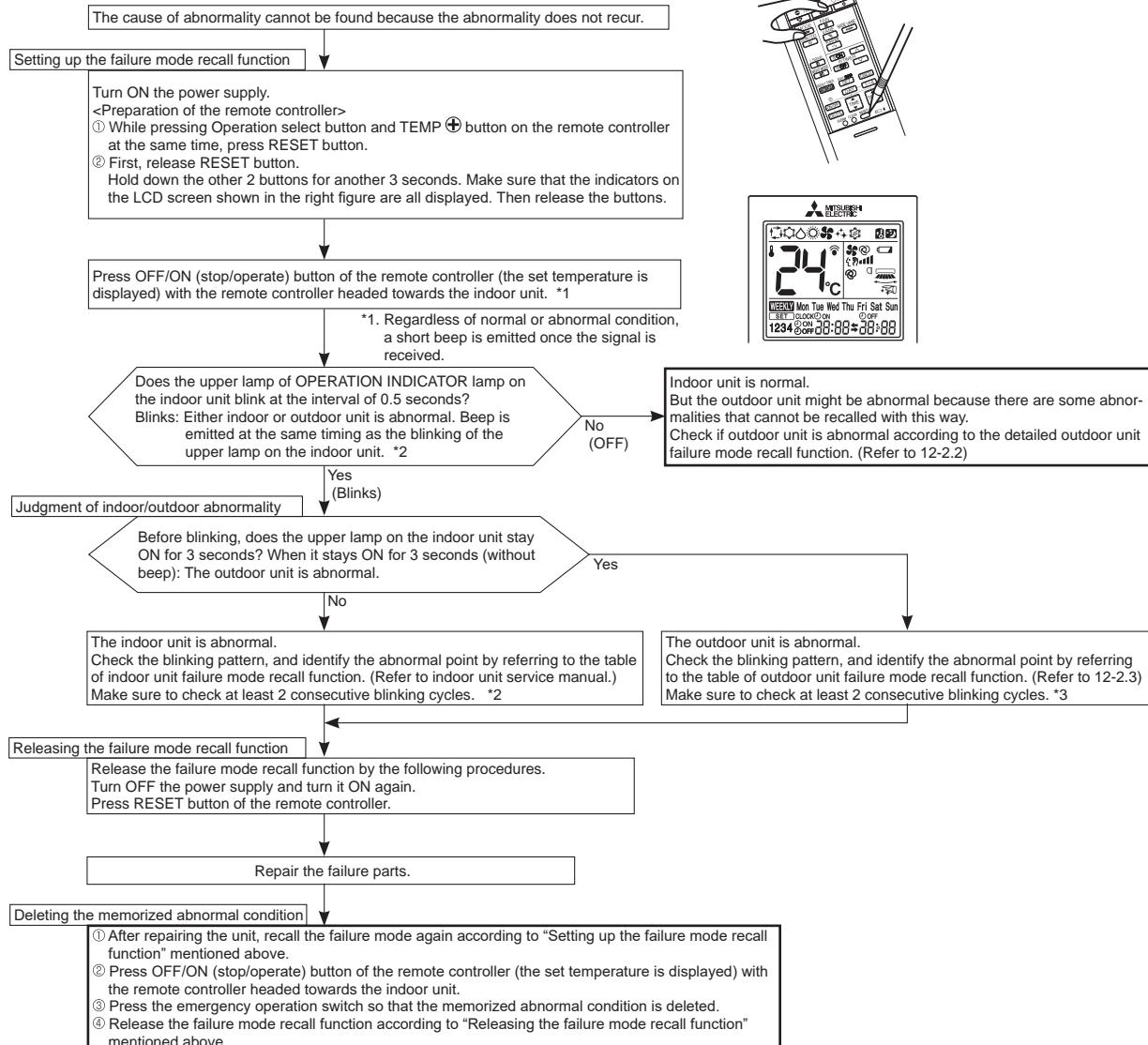
Even though LED indication listed on the troubleshooting check table (12-3.) disappears, the memorized failure details can be recalled.

1. Flow chart of failure mode recall function for the indoor/outdoor unit

NOTE: The indoor unit does not operate by smartphone, refer to 10-3.2. "Check of Wi-Fi Interface".

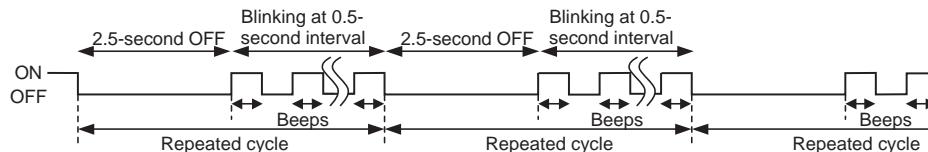
**MSZ-AY25/35/42/50VGK
MSZ-AY25/35/42/50VGKP**

Operational procedure

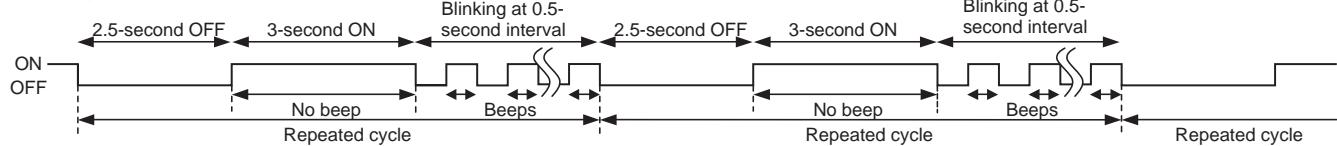


NOTE: 1. Make sure to release the failure mode recall function after it is set up, otherwise the unit cannot operate properly.
2. If the abnormal condition is not deleted from the memory, the last abnormal condition is kept memorized.

*2. Blinking pattern when the indoor unit is abnormal:

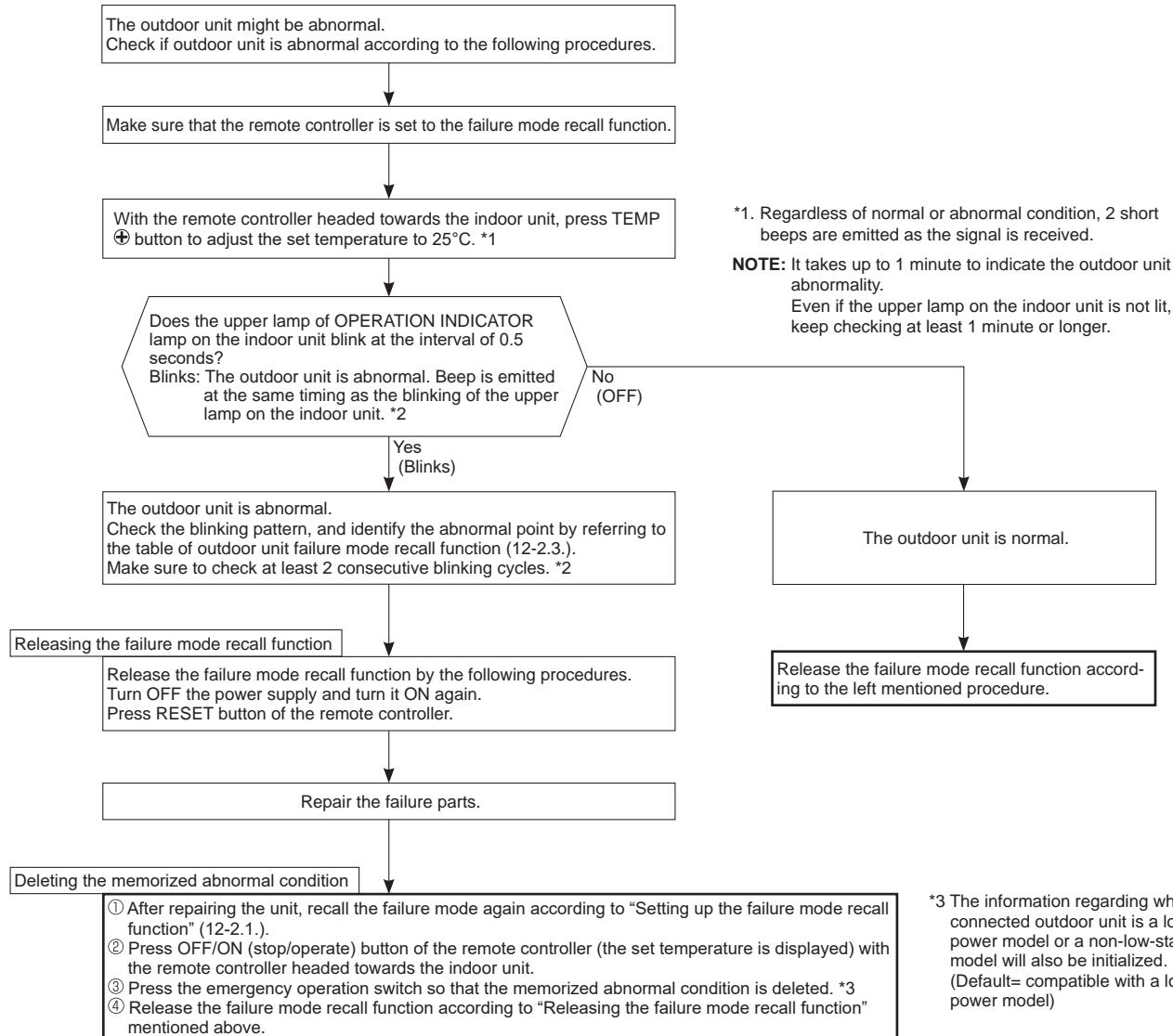


*3.Blinking pattern when the outdoor unit is abnormal:



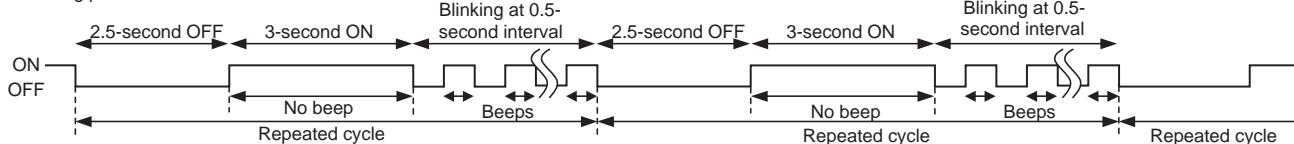
2. Flow chart of the detailed outdoor unit failure mode recall function

Operational procedure



NOTE: 1. Make sure to release the failure mode recall function after it is set up, otherwise the unit cannot operate properly.
2. If the abnormal condition is not deleted from the memory, the last abnormal condition is kept memorized.

*2.Blinking pattern when outdoor unit is abnormal:



3. Table of outdoor unit failure mode recall function

NOTE: Blinking patterns of this mode differ from the ones of TROUBLESHOOTING CHECK TABLE (12-3.).

Upper lamp (Indoor unit)	Abnormal point (Failure mode/protection)	LED indication (Outdoor P.C. board)	Condition	Remedy	Indoor/outdoor unit failure mode recall function	Outdoor unit failure mode recall function
OFF	None (Normal)	—	—	—	—	—
1-time blink 2.5 seconds OFF	Indoor/outdoor communication, receiving error	—	Any signals from the inverter P.C. board cannot be received normally for 3 minutes.	•Refer to 12-5. ⑩ How to check miswiring and serial signal error.	○	○
	Indoor/outdoor communication, receiving error	—	Although the inverter P.C. board sends signal “0”, signal “1” has been received 30 consecutive times.	•Refer to 12-5. ⑩ How to check miswiring and serial signal error.		
2-time blink 2.5 seconds OFF	Outdoor power system	—	Overcurrent protection cut-out operates 3 consecutive times within 1 minute after the compressor gets started.	•Reconnect connectors. •Refer to 12-5. ⑪ How to check inverter/ compressor”. •Check stop valve.	○	○
3-time blink 2.5 seconds OFF	Discharge temperature thermistor	1-time blink every 2.5 seconds	Thermistor shorts or opens during compressor running.	•Refer to 12-5. ⑥ “Check of outdoor thermistors”. Defective outdoor thermistors can be identified by checking the blinking pattern of LED.	○	○
	Defrost thermistor	—		•Replace the inverter P.C. board.		
	Fin temperature thermistor	3-time blink 2.5 seconds OFF		•		
	Ambient temperature thermistor	2-time blink 2.5 seconds OFF		•		
	Outdoor heat exchanger temperature thermistor	—		•		
	P.C. board temperature thermistor	4-time blink 2.5 seconds OFF		•		
4-time blink 2.5 seconds OFF	Overcurrent	11-time blink 2.5 seconds OFF	Large current flows into power module (IC700).	•Reconnect compressor connector. •Refer to 12-5. ⑪ How to check inverter/ compressor”. •Check stop valve.	—	○
	Compressor synchronous abnormality (Compressor startup failure protection)	12-time blink 2.5 seconds OFF	Waveform of compressor current is distorted.	•Reconnect compressor connector. •Refer to 12-5. ⑪ How to check inverter/ compressor”.	—	○
5-time blink 2.5 seconds OFF	Discharge temperature	—	Temperature of discharge temperature thermistor exceeds 116°C, compressor stops. Compressor can restart if discharge temperature thermistor reads 100°C or less 3 minutes later.	•Check refrigerant circuit and refrigerant amount. •Refer to 12-5. ⑫ “Check of LEV”.	—	○
6-time blink 2.5 seconds OFF	High pressure	—	Temperature of indoor coil thermistor exceeds 70°C in HEAT mode. Temperature of defrost thermistor exceeds 70°C in COOL mode.	•Check refrigerant circuit and refrigerant amount. •Check stop valve.	—	○
7-time blink 2.5 seconds OFF	Fin temperature/P.C. board temperature	7-time blink 2.5 seconds OFF	Temperature of fin temperature thermistor on the inverter P.C. board exceeds 75 ~ 86°C, or temperature of P.C. board temperature thermistor on the inverter P.C. board exceeds 72 ~ 85°C.	•Check around outdoor unit. •Check outdoor unit air passage. •Refer to 12-5. ⑬ “Check of outdoor fan motor”.	—	○
8-time blink 2.5 seconds OFF	Outdoor fan motor	—	Outdoor fan has stopped 3 times in a row within 30 seconds after outdoor fan startup.	•Refer to 12-5. ⑭ “Check of outdoor fan motor”. Refer to 12-5. ⑮ “Check of inverter P.C. board”.	—	○
9-time blink 2.5 seconds OFF	Nonvolatile memory data	5-time blink 2.5 seconds OFF	Nonvolatile memory data cannot be read properly.	•Replace the inverter P.C. board.	○	○
	Power module (IC700)	6-time blink 2.5 seconds OFF	The interface short circuit occurs in the output of the power module (IC700). The compressor winding shorts circuit.	•Refer to 12-5. ⑪ How to check inverter/ compressor”.	—	
10-time blink 2.5 seconds OFF	Discharge temperature	—	Temperature of discharge temperature thermistor has been 50°C or less for 20 minutes.	•Refer to 12-5. ⑫ “Check of LEV”. •Check refrigerant circuit and refrigerant amount.	—	○
11-time blink 2.5 seconds OFF	Bus-bar voltage (DC)	8-time blink 2.5 seconds OFF	Bus-bar voltage of inverter cannot be detected normally.	•Refer to 12-5. ⑪ How to check inverter/ compressor”.	—	○
	Each phase current of compressor	9-time blink 2.5 seconds OFF	Each phase current of compressor cannot be detected normally.	•Refer to 12-5. ⑪ How to check inverter/ compressor”.	—	

NOTE: Blinking patterns of this mode differ from the ones of TROUBLESHOOTING CHECK TABLE (12-3.).

Upper lamp (Indoor unit)	Abnormal point (Failure mode/protection)	LED indication (Outdoor P.C. board)	Condition	Remedy	Indoor/outdoor unit failure mode recall function	Outdoor unit failure mode recall function
14-time blink 2.5 seconds OFF	Stop valve (Closed valve)	14-time blink 2.5 seconds OFF	Closed valve is detected by compressor current.	•Check stop valve.	○	○
	4-way valve/ Pipe temperature	16-time blink 2.5 seconds OFF	The 4-way valve does not work properly. The indoor coil thermistor detects an abnormal temperature.	•Check the 4-way valve. •Replace the inverter P.C. board.		
16-time blink 2.5 seconds OFF	Outdoor refrigerant system abnormality	1-time blink 2.5 seconds OFF	A closed valve and air trapped in the refrigerant circuit are detected based on the temperature sensed by the indoor and outdoor thermistors and the current of the compressor.	•Check for a gas leak in a connecting piping etc. •Check the stop valve. •Refer to 12-5. ⑧ "Check of outdoor refrigerant circuit".	○	○

12-3. TROUBLESHOOTING CHECK TABLE

No.	Symptom	LED indication	Abnormal point/ Condition	Condition	Remedy
1	'Outdoor unit does not operate.'	1-time blink every 2.5 seconds	Outdoor power system	Overcurrent protection cut-out operates 3 consecutive times within 1 minute after the compressor gets started.	<ul style="list-style-type: none"> •Reconnect connector of compressor. •Refer to 12-5.Ⓐ "How to check inverter/compressor". •Check stop valve.
2			Outdoor thermistors	Discharge temperature thermistor, fin temperature thermistor, defrost thermistor, outdoor heat exchanger temperature thermistor or ambient temperature thermistor shorts or opens during compressor running.	•Refer to 12-5.Ⓑ "Check of outdoor thermistors".
3			Outdoor control system	P.C. board temperature thermistor shorts or opens during compressor running. Nonvolatile memory data cannot be read properly. (Upper lamp of OPERATION INDICATOR lamp on the indoor unit lights up or blinks 7-time.)	•Replace inverter P.C. board.
4			6-time blink 2.5 seconds OFF	Serial signal	The communication fails between the indoor and outdoor unit for 3 minutes. •Refer to 12-5.⓪ "How to check miswiring and serial signal error".
5			11-time blink 2.5 seconds OFF	Stop valve/ Closed valve	Closed valve is detected by compressor current. •Check stop valve.
6			14-time blink 2.5 seconds OFF	Outdoor unit (Other abnormality)	Outdoor unit is defective. •Refer to 12-2.2. "Flow chart of the detailed outdoor unit failure mode recall function".
7			16-time blink 2.5 seconds OFF	4-way valve/ Pipe temperature	The 4-way valve does not work properly. The indoor coil thermistor detects an abnormal temperature. •Refer to 12-5.Ⓓ "Check of R.V. coil". •Replace the inverter P.C. board.
8			17-time blink 2.5 seconds OFF	Outdoor refrigerant system abnormality	A closed valve and air trapped in the refrigerant circuit are detected based on the temperature sensed by the indoor and outdoor thermistors and the current of the compressor. •Check for a gas leak in a connecting piping etc. •Check the stop valve. •Refer to 12-5.Ⓔ "Check of outdoor refrigerant circuit".
9			2-time blink 2.5 seconds OFF	Overcurrent protection	Large current flows into power module (IC700). •Reconnect connector of compressor. •Refer to 12-5.Ⓐ "How to check inverter/compressor". •Check stop valve.
10			3-time blink 2.5 seconds OFF	Discharge tempera-ture overheat protection	Temperature of discharge temperature thermistor exceeds 116°C, compressor stops. Compressor can restart if discharge temperature thermistor reads 100°C or less 3 minutes later. •Check refrigerant circuit and refrigerant amount. •Refer to 12-5.Ⓕ "Check of LEV".
11			4-time blink 2.5 seconds OFF	Fin temperature /P.C. board temper-ature thermistor overheat protection	Temperature of fin temperature thermistor on the heat sink exceeds 75 ~ 86°C or temperature of P.C. board temperature thermistor on the inverter P.C. board exceeds 72 ~ 85°C. •Check around outdoor unit. •Check outdoor unit air passage. •Refer to 12-5.Ⓖ "Check of outdoor fan motor".
12			5-time blink 2.5 seconds OFF	High pressure protection	Indoor coil thermistor exceeds 70°C in HEAT mode. Defrost thermistor exceeds 70°C in COOL mode. •Check refrigerant circuit and refrigerant amount. •Check stop valve.
13			8-time blink 2.5 seconds OFF	Compressor syn-chronous abnormality	The waveform of compressor current is distorted. •Reconnect connector of compressor. •Refer to 12-5.Ⓐ "How to check inverter/compressor".
14			10-time blink 2.5 seconds OFF	Outdoor fan motor	Outdoor fan has stopped 3 times in a row within 30 seconds after outdoor fan startup. •Refer to 12-5.Ⓗ "Check of outdoor fan motor". •Refer to 12-5.Ⓘ "Check of inverter P.C. board".
15			12-time blink 2.5 seconds OFF	Each phase current of compressor	Each phase current of compressor cannot be detected normally. •Refer to 12-5.Ⓐ "How to check inverter/compressor".
16			13-time blink 2.5 seconds OFF	Bus-bar voltage (DC)	Bus-bar voltage of inverter cannot be detected normally. •Refer to 12-5.Ⓐ "How to check inverter/compressor".
17	Outdoor unit operates.	1-time blink 2.5 seconds OFF	Deceleration of the operational frequency of the compressor by the current protection control	When the input current exceeds approximately 10A, compressor frequency lowers.	The unit is normal, but check the following. <ul style="list-style-type: none"> •Check if indoor filters are clogged. •Check if refrigerant is short. •Check if indoor/outdoor unit air circulation is short cycled.
18			3-time blink 2.5 seconds OFF	Deceleration of the operational frequency of the compressor by the high pressure protection	
			Deceleration of the operational frequency of the compressor by the overcooling prevention of the indoor heat exchanger	Temperature of indoor coil thermistor exceeds 55°C in HEAT mode, compressor frequency lowers. Indoor coil thermistor reads 8°C or less in COOL mode, compressor frequency lowers.	

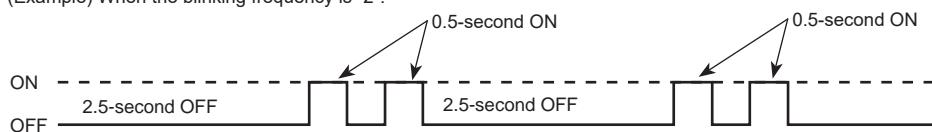


No.	Symptom	LED indication	Abnormal point/ Condition	Condition	Remedy
19	Outdoor unit operates.	4-time blink 2.5 seconds OFF	Deceleration of the operational frequency of the compressor by the discharge temperature protection	Temperature of discharge temperature thermistor exceeds 111°C, compressor frequency lowers.	<ul style="list-style-type: none"> Check refrigerant circuit and refrigerant amount. Refer to 12-5.⑧ "Check of LEV". Refer to 12-5.⑨ "Check of outdoor thermistors".
20		5-time blink 2.5 seconds OFF	Outside temperature thermistor protection	When the outside temperature thermistor shorts or opens, protective operation without that thermistor is performed.	•Refer to 12-5.⑩ Check of outdoor thermistors.
21		7-time blink 2.5 seconds OFF	Low discharge temperature protection	Temperature of discharge temperature thermistor has been 50°C or less for 20 minutes.	<ul style="list-style-type: none"> Refer to 12-5.⑧ "Check of LEV". Check refrigerant circuit and refrigerant amount.
22		8-time blink 2.5 seconds OFF	PAM protection PAM: Pulse Amplitude Modulation	The overcurrent flows into PFC (Power factor correction: IC820) or the bus-bar voltage reaches 394 V or more, PAM stops and restarts.	This is not malfunction. PAM protection will be activated in the following cases: 1 Instantaneous power voltage drop. (Short time power failure) 2 When the power supply voltage is high.
23		9-time blink 2.5 seconds OFF	Inverter check mode	The connector of compressor is disconnected, inverter check mode starts.	<ul style="list-style-type: none"> Check if the connector of the compressor is correctly connected. Refer to 12-5.⑪ "How to check inverter/compressor".

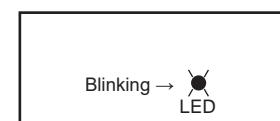
NOTE: 1. The location of LED is illustrated at the right figure. Refer to 12-6.1.

2. LED is lit during normal operation.

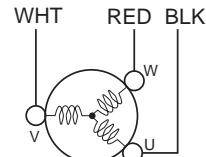
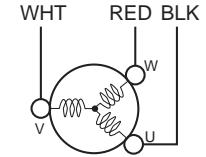
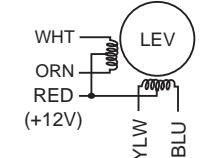
The blinking frequency shows the number of times the LED blinks after every 2.5-second OFF.
(Example) When the blinking frequency is "2".



Inverter P.C. board

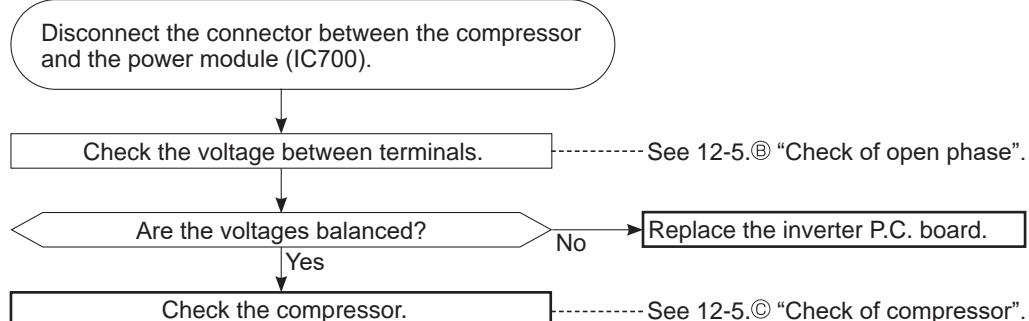


12-4. TROUBLESHOOTING CRITERION OF MAIN PARTS

Part name	Check method and criterion	Figure															
Defrost thermistor (RT61)	Measure the resistance with a multimeter.																
Fin temperature thermistor (RT64) Ambient temperature thermistor (RT65) Outdoor heat exchanger temperature thermistor (RT68)	Refer to 12-6. "Test point diagram and voltage", 1. "Inverter P.C. board", for the chart of thermistor.																
Discharge temperature thermistor (RT62)	Measure the resistance with a multimeter. Before measurement, hold the thermistor with your hands to warm it up. Refer to 12-6. "Test point diagram and voltage", 1. "Inverter P.C. board", for the chart of thermistor.																
Compressor (MC)	Measure the resistance between terminals using a multimeter. (Temperature: -10 to 40°C) <table border="1" style="width: 100%; text-align: center;"> <thead> <tr> <th></th> <th colspan="2">Normal (Ω)</th> </tr> <tr> <th></th> <th>MUZ-AY25/35VG MUZ-AY25/35VGH</th> <th>MUZ-AY42/50VG MUZ-AY42/50VGH</th> </tr> </thead> <tbody> <tr> <td>U-V</td> <td>2.21 - 2.99</td> <td>0.82 - 1.11</td> </tr> <tr> <td>U-W</td> <td></td> <td></td> </tr> <tr> <td>V-W</td> <td></td> <td></td> </tr> </tbody> </table>		Normal (Ω)			MUZ-AY25/35VG MUZ-AY25/35VGH	MUZ-AY42/50VG MUZ-AY42/50VGH	U-V	2.21 - 2.99	0.82 - 1.11	U-W			V-W			
	Normal (Ω)																
	MUZ-AY25/35VG MUZ-AY25/35VGH	MUZ-AY42/50VG MUZ-AY42/50VGH															
U-V	2.21 - 2.99	0.82 - 1.11															
U-W																	
V-W																	
Outdoor fan motor (MF)	Measure the resistance between lead wires using a multimeter. (Temperature: -10 to 40°C) <table border="1" style="width: 100%; text-align: center;"> <thead> <tr> <th>Color of lead wire</th> <th colspan="2">Normal (Ω)</th> </tr> <tr> <th></th> <th>MUZ-AY25/35/42VG MUZ-AY25/35/42VGH</th> <th>MUZ-AY50VG MUZ-AY50VGH</th> </tr> </thead> <tbody> <tr> <td>RED – BLK</td> <td>31 - 42</td> <td>15 - 20</td> </tr> <tr> <td>BLK – WHT</td> <td></td> <td></td> </tr> <tr> <td>WHT – RED</td> <td></td> <td></td> </tr> </tbody> </table>	Color of lead wire	Normal (Ω)			MUZ-AY25/35/42VG MUZ-AY25/35/42VGH	MUZ-AY50VG MUZ-AY50VGH	RED – BLK	31 - 42	15 - 20	BLK – WHT			WHT – RED			
Color of lead wire	Normal (Ω)																
	MUZ-AY25/35/42VG MUZ-AY25/35/42VGH	MUZ-AY50VG MUZ-AY50VGH															
RED – BLK	31 - 42	15 - 20															
BLK – WHT																	
WHT – RED																	
R. V. coil (21S4)	Measure the resistance using a multimeter. (Temperature: -10 - 40°C) <table border="1" style="width: 100%; text-align: center;"> <thead> <tr> <th colspan="2">Normal (kΩ)</th> </tr> <tr> <th></th> <th>1.41 - 2.00</th> </tr> </thead> </table>	Normal (kΩ)			1.41 - 2.00												
Normal (kΩ)																	
	1.41 - 2.00																
Expansion valve coil (LEV)	Measure the resistance using a multimeter. (Temperature: -10 to 40°C) <table border="1" style="width: 100%; text-align: center;"> <thead> <tr> <th>Color of lead wire</th> <th>Normal (Ω)</th> </tr> </thead> <tbody> <tr> <td>RED – ORN</td> <td></td> </tr> <tr> <td>RED – WHT</td> <td></td> </tr> <tr> <td>RED – BLU</td> <td></td> </tr> <tr> <td>RED – YLW</td> <td></td> </tr> <tr> <td></td> <td>37 - 54</td> </tr> </tbody> </table>	Color of lead wire	Normal (Ω)	RED – ORN		RED – WHT		RED – BLU		RED – YLW			37 - 54				
Color of lead wire	Normal (Ω)																
RED – ORN																	
RED – WHT																	
RED – BLU																	
RED – YLW																	
	37 - 54																
Defrost heater MUZ-AY•VGH	Normal (Ω) <table border="1" style="width: 100%; text-align: center;"> <thead> <tr> <th></th> <th>MUZ-AY25/35/42VGH</th> <th>MUZ-AY50VGH</th> </tr> </thead> <tbody> <tr> <td></td> <td>802 - 980</td> <td>370 - 428</td> </tr> </tbody> </table>		MUZ-AY25/35/42VGH	MUZ-AY50VGH		802 - 980	370 - 428										
	MUZ-AY25/35/42VGH	MUZ-AY50VGH															
	802 - 980	370 - 428															

12-5. TROUBLESHOOTING FLOW

A How to check inverter/compressor



B Check of open phase

- With the connector between the compressor and the power module (IC700) disconnected, activate the inverter and check if the inverter is normal by measuring **the voltage balance** between the terminals.

Output voltage is 50 - 130 V. (The voltage may differ according to the multimeter.)

<< Operation method >>

Start cooling or heating operation by pressing the emergency operation switch on the indoor unit. (TEST RUN OPERATION: Refer to 9-3.)

<< Measurement point >>

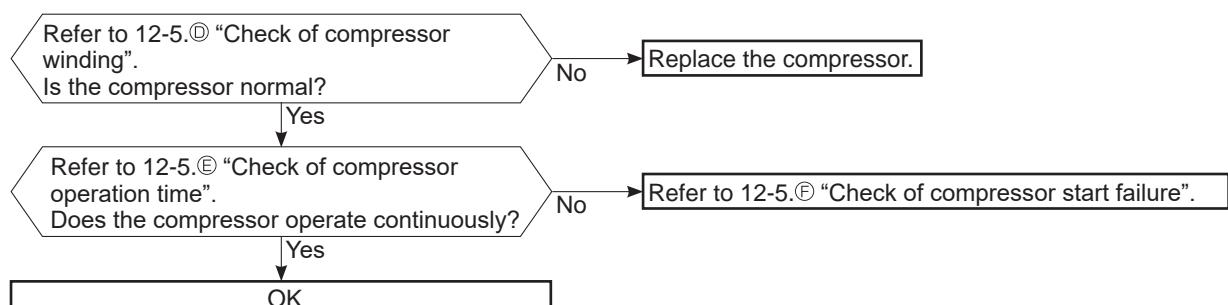
At 3 points *Measure AC voltage between the lead wires at 3 points.
BLK (U)-WHT (V)
BLK (U)-RED (W)
WHT(V)-RED (W)

NOTE: 1. Output voltage varies according to power supply voltage.

2. Measure the voltage by analog type multimeter.

3. During this check, LED of the inverter P.C. board blinks 9 times. (Refer to 12-6.1.)

C Check of compressor



D Check of compressor winding

- Disconnect the connector between the compressor and the power module (IC700), and measure the resistance between the compressor terminals.

<<Measurement point>>

At 3 points

BLK-WHT

*Measure the resistance between the lead wires at 3 points.

BLK-RED

WHT-RED

<<Judgement>>

Refer to 12-4.

0 [Ω] Abnormal [short]

Infinite [Ω] Abnormal [open]

NOTE: Be sure to zero the ohmmeter before measurement.

E Check of compressor operation time

- Connect the compressor and activate the inverter. Then measure the time until the inverter stops due to overcurrent.

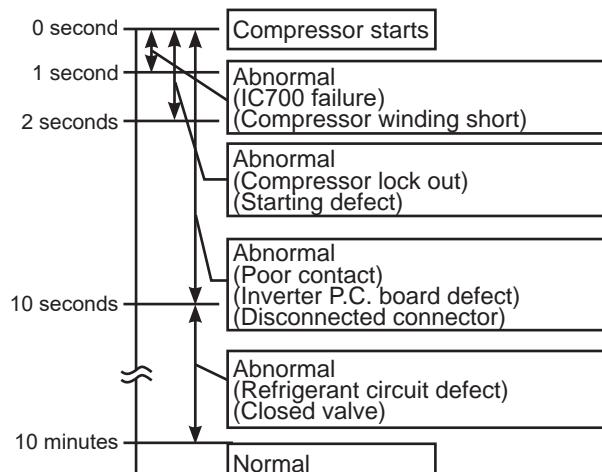
<<Operation method>>

Start heating or cooling operation by pressing the emergency operation switch on the indoor unit. (TEST RUN OPERATION: Refer to 9-3.)

<<Measurement>>

Measure the time from the start of compressor to the stop of compressor due to overcurrent.

<<Judgement>>



F Check of compressor start failure

Confirm that ①~④ is normal.

•Electrical circuit check

①. Contact of the compressor connector

②. Output voltage of inverter P.C. board and balance of them (See 12-5.⑧)

③. Direct current voltage between DB61(+) and (-) on the inverter P.C. board

④. Voltage between outdoor terminal block S1-S2

Does the compressor run for 10 seconds or more after it starts?

Yes → Check the refrigerant circuit.
Check the stop valve.

No

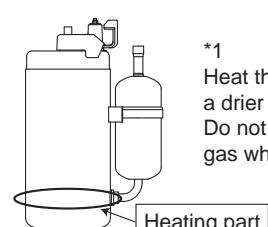
After the compressor is heated with a drier, does the compressor start? *1

No → Replace the compressor.

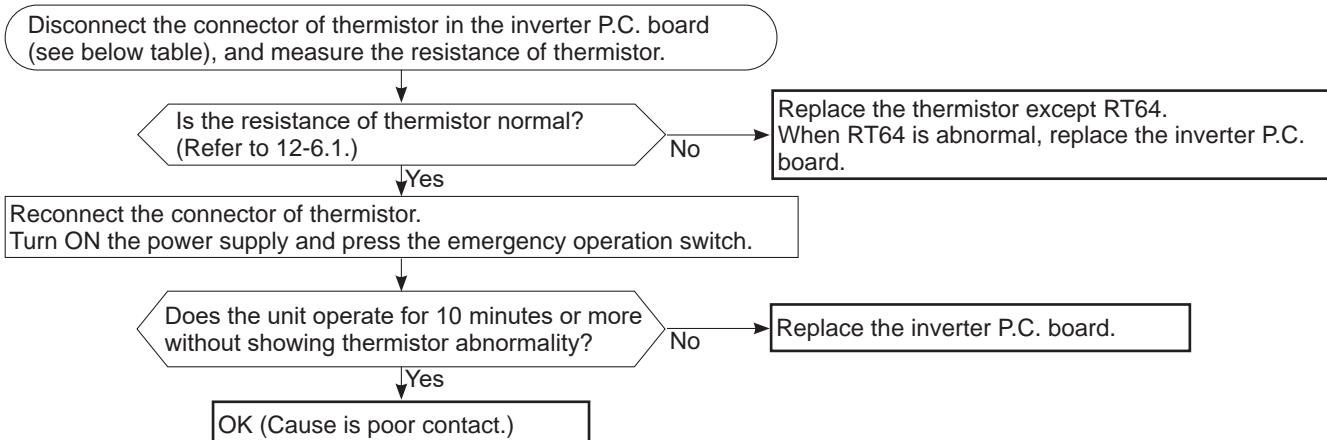
Yes

Compressor start failure. Activate pre-heat control.
(Refer to 11-2. "PRE-HEAT CONTROL SETTING")

*1
Heat the compressor with a drier for about 20 minutes.
Do not recover refrigerant gas while heating.



(G) Check of outdoor thermistors

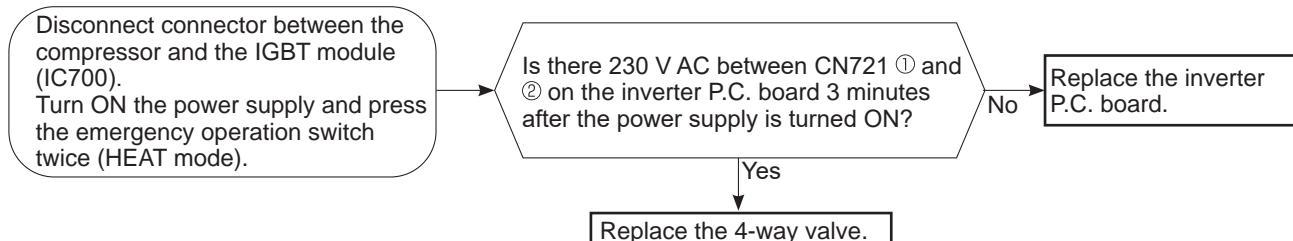


Thermistor	Symbol	Connector, Pin No.	Board
Defrost	RT61	Between CN641 pin1 and pin2	Inverter P.C. board
Discharge temperature	RT62	Between CN641 pin3 and pin4	
Fin temperature	RT64	Between CN642 pin1 and pin2	
Ambient temperature	RT65	Between CN643 pin1 and pin2	
Outdoor heat exchanger temperature	RT68	Between CN644 pin1 and pin3	

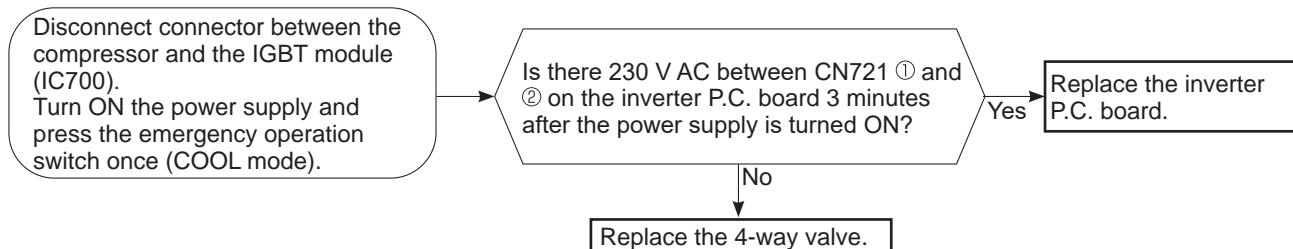
(H) Check of R.V. coil

- * First of all, measure the resistance of R.V. coil to check if the coil is defective. Refer to 12-4.
- * In case CN721 is disconnected or R.V. coil is open, voltage is generated between the terminal pins of the connector although no signal is being transmitted to R.V. coil.
Check if CN721 is connected.

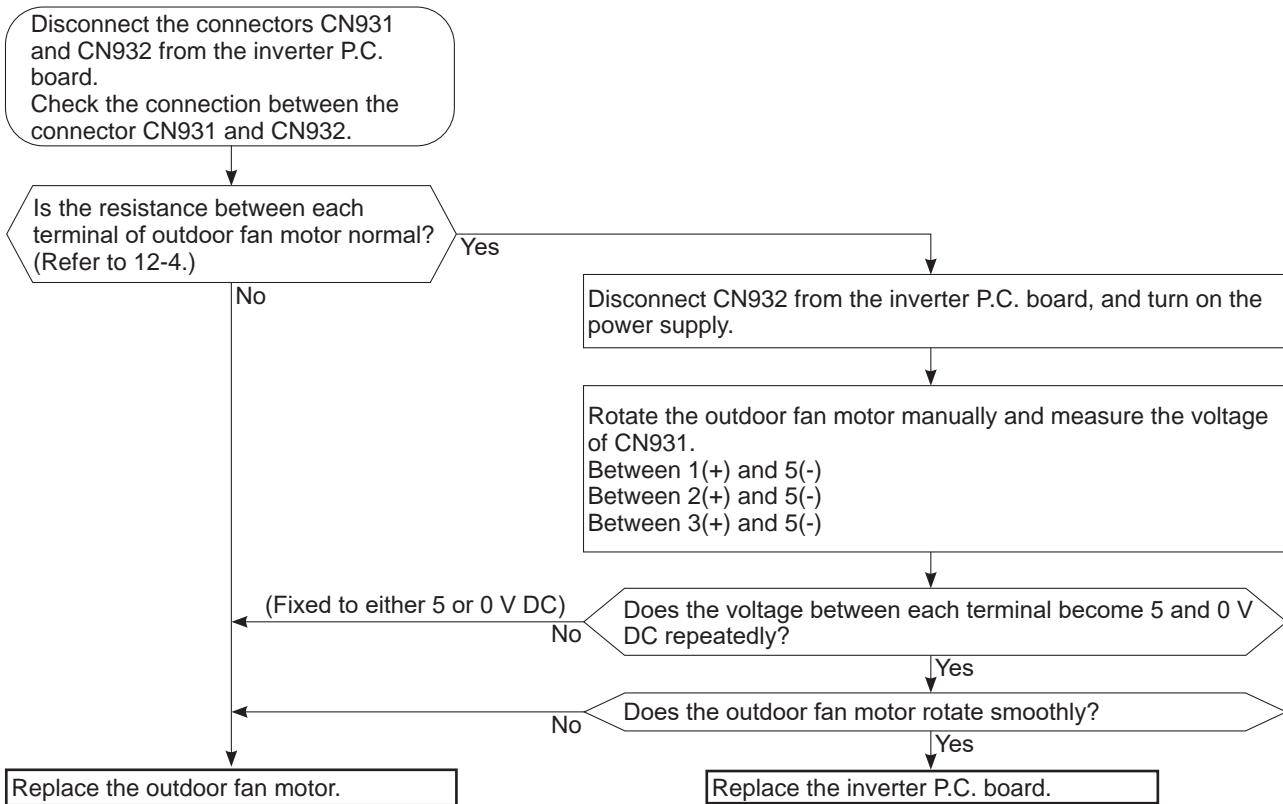
Unit operates in COOL mode even if it is set to HEAT mode.



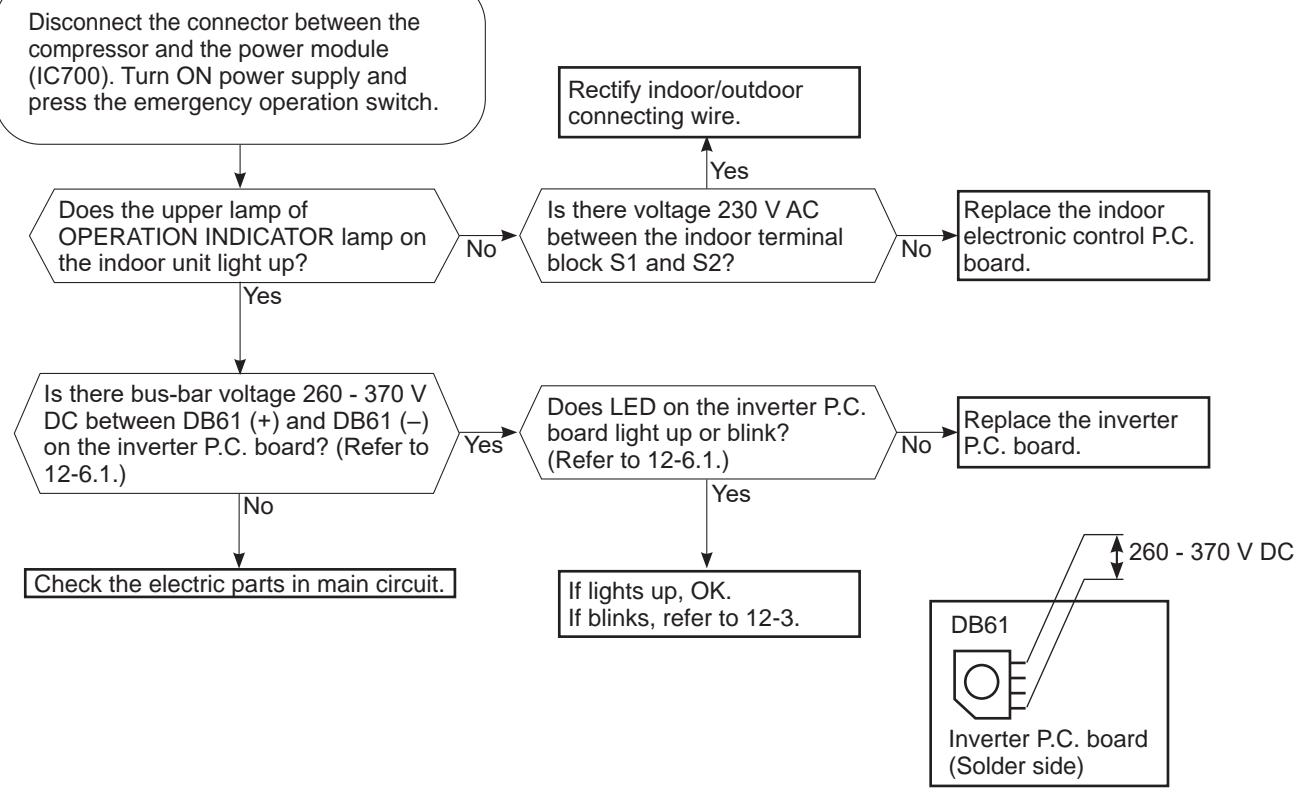
Unit operates in HEAT mode even if it is set to COOL mode.



I Check of outdoor fan motor



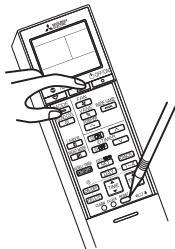
J Check of power supply



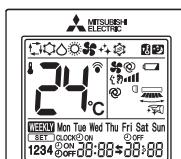
K Check of LEV (Expansion valve)

MSZ-AY25/35/42/50VGK
MSZ-AY25/35/42/50VGKP

Turn ON the power supply.
 <Preparation of the remote controller>
 ① While pressing both Operation select button and TEMP + button on the remote controller at the same time, press RESET button.
 ② First, release RESET button.
 Hold down the other 2 buttons for another 3 seconds.
 Make sure that the indicators on the LCD screen shown in the right figure are all displayed. Then release the buttons.



Press OFF/ON (stop/operate) button of the remote controller (the set temperature is displayed) with the remote controller headed towards the indoor unit. *1



Expansion valve operates in full-opening direction.

*1. Regardless of normal or abnormal condition, a short beep is emitted once the signal is received.

Do you hear the expansion valve "click, click....."?
 Do you feel the expansion valve vibrate when touching it ?

Yes → OK

Is LEV coil properly fixed to the expansion valve?

No → Properly fix the LEV coil to the expansion valve.

Yes

Does the resistance of LEV coil have the characteristics? (Refer to 12-4.)

Yes → Measure each voltage between connector pins of CN724 on the inverter P.C. board.
 1. Pin ③(-) — Pin ①(+)
 2. Pin ④(-) — Pin ①(+)
 3. Pin ⑤(-) — Pin ①(+)
 4. Pin ⑥(-) — Pin ①(+)
 Is there about 3 - 5 V AC between each?
NOTE: Measure the voltage by an analog multimeter.

No → Replace the inverter P.C. board.

Replace the LEV coil.

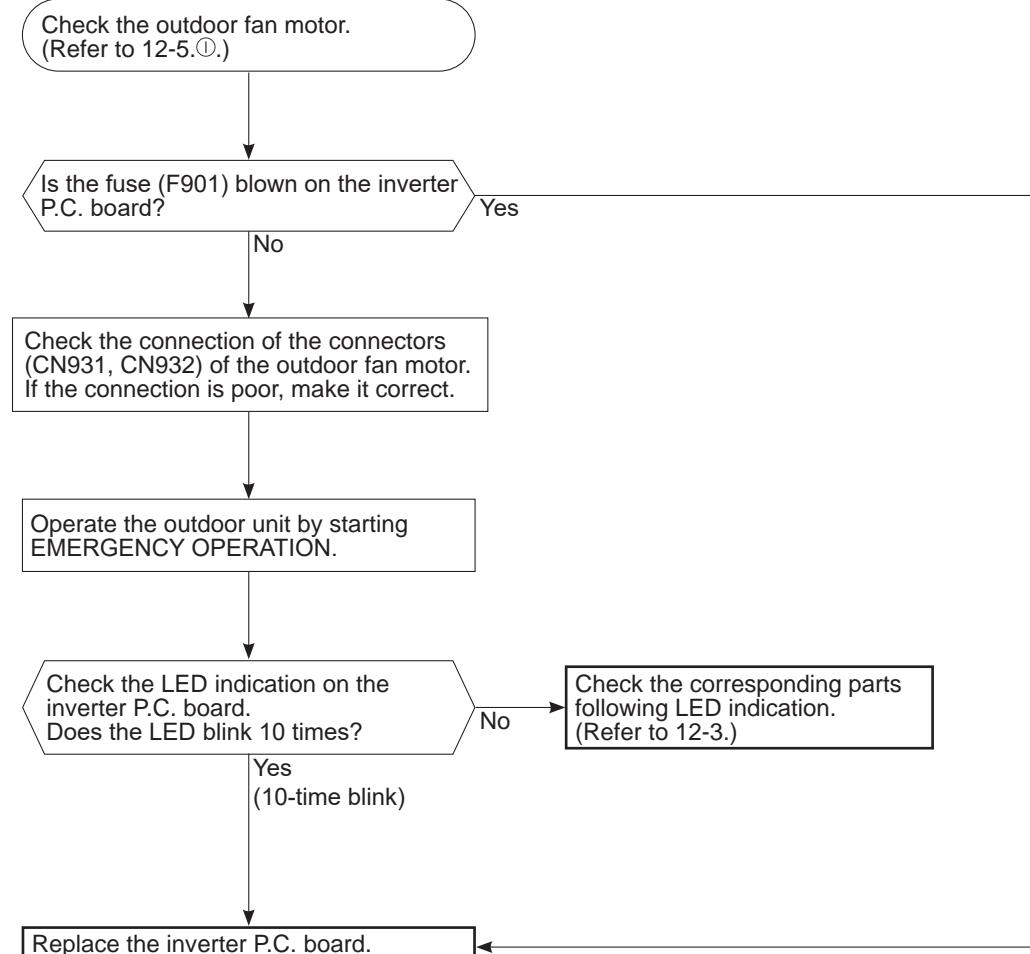
Yes

Replace the expansion valve.

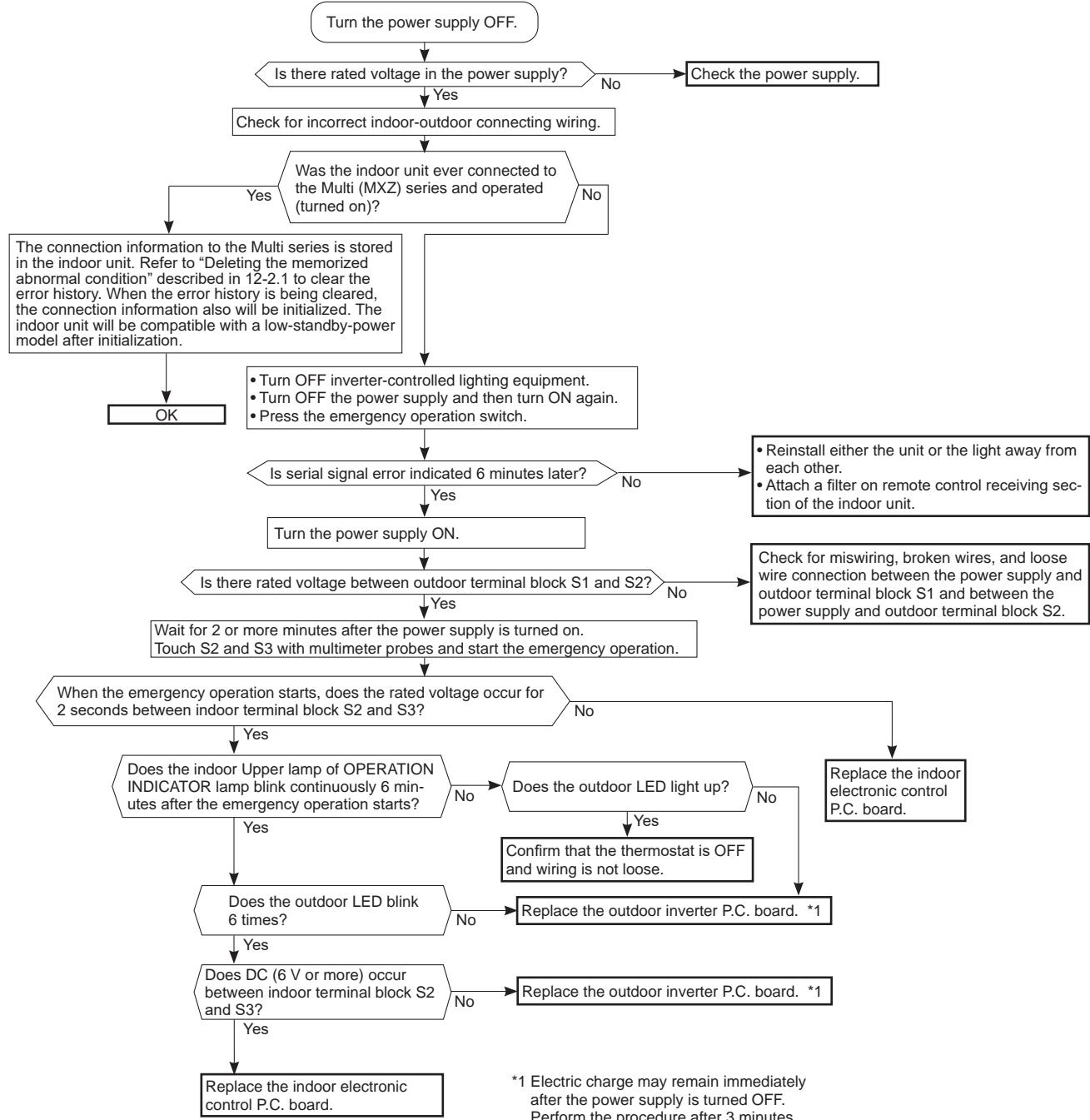
NOTE: After check of LEV, take the following steps.

1. Turn OFF the power supply and turn it ON again.
2. Press RESET button on the remote controller.

(L) Check of inverter P.C. board



(M) How to check miswiring and serial signal error



(N) Check of the outdoor refrigerant circuit

Has the operation stopped during pump down?

Yes

The operation has stopped to prevent the diesel explosion caused by air trapped in the refrigerant circuit. Close the stop valve, and disconnect the power plug or turn the breaker OFF.

CAUTION : Do not start the operation again to prevent hazards.

No

Was the operation started with the stop valve closed, and was it opened during operation?

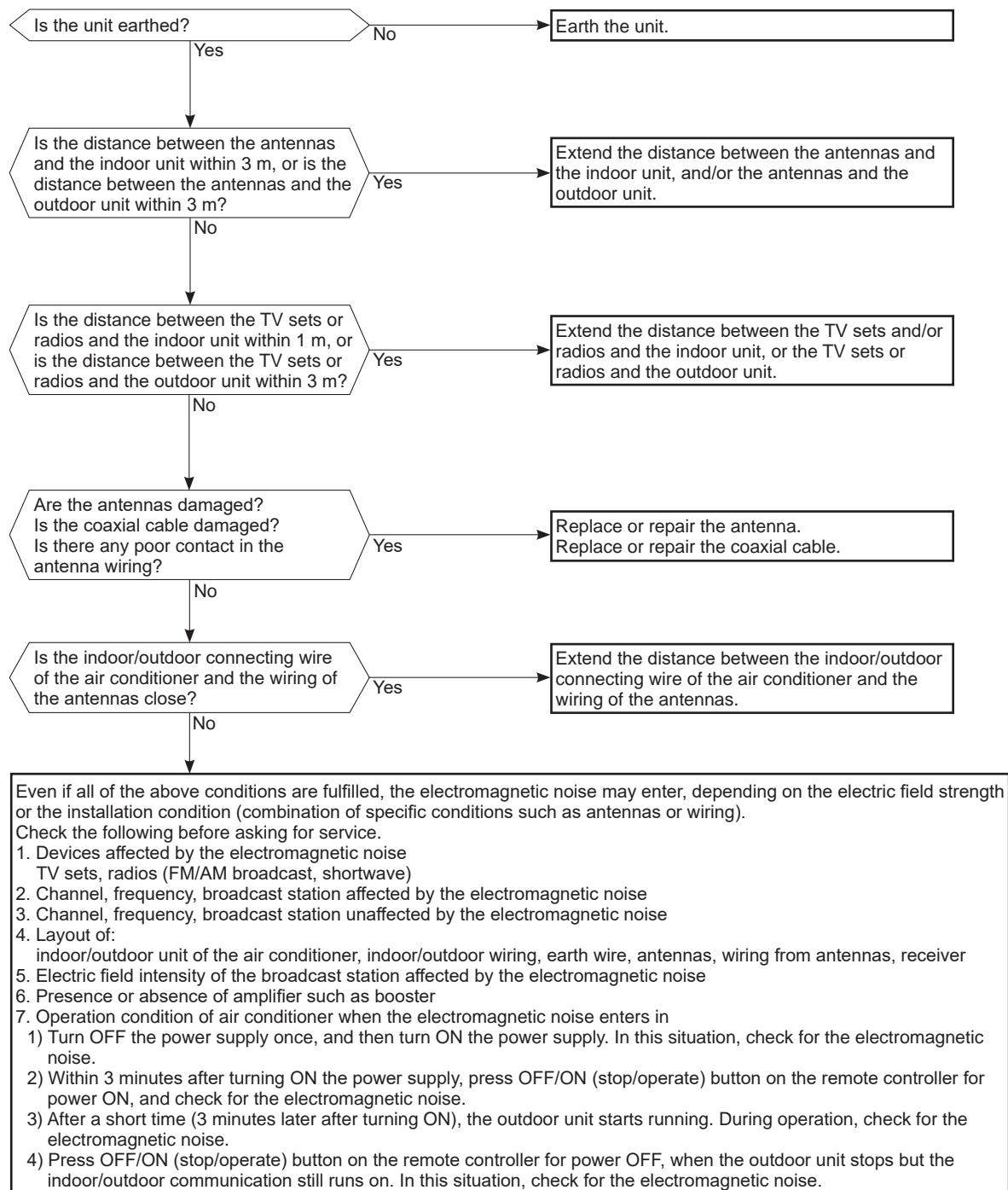
Yes

The unit occasionally stops when the stop valve is opened or closed during operation. Open the stop valve and start the cooling operation again.

No

The refrigerant gas amount may be 60% or less than the normal amount. Identify where the gas is leaking from, and fix the leak.

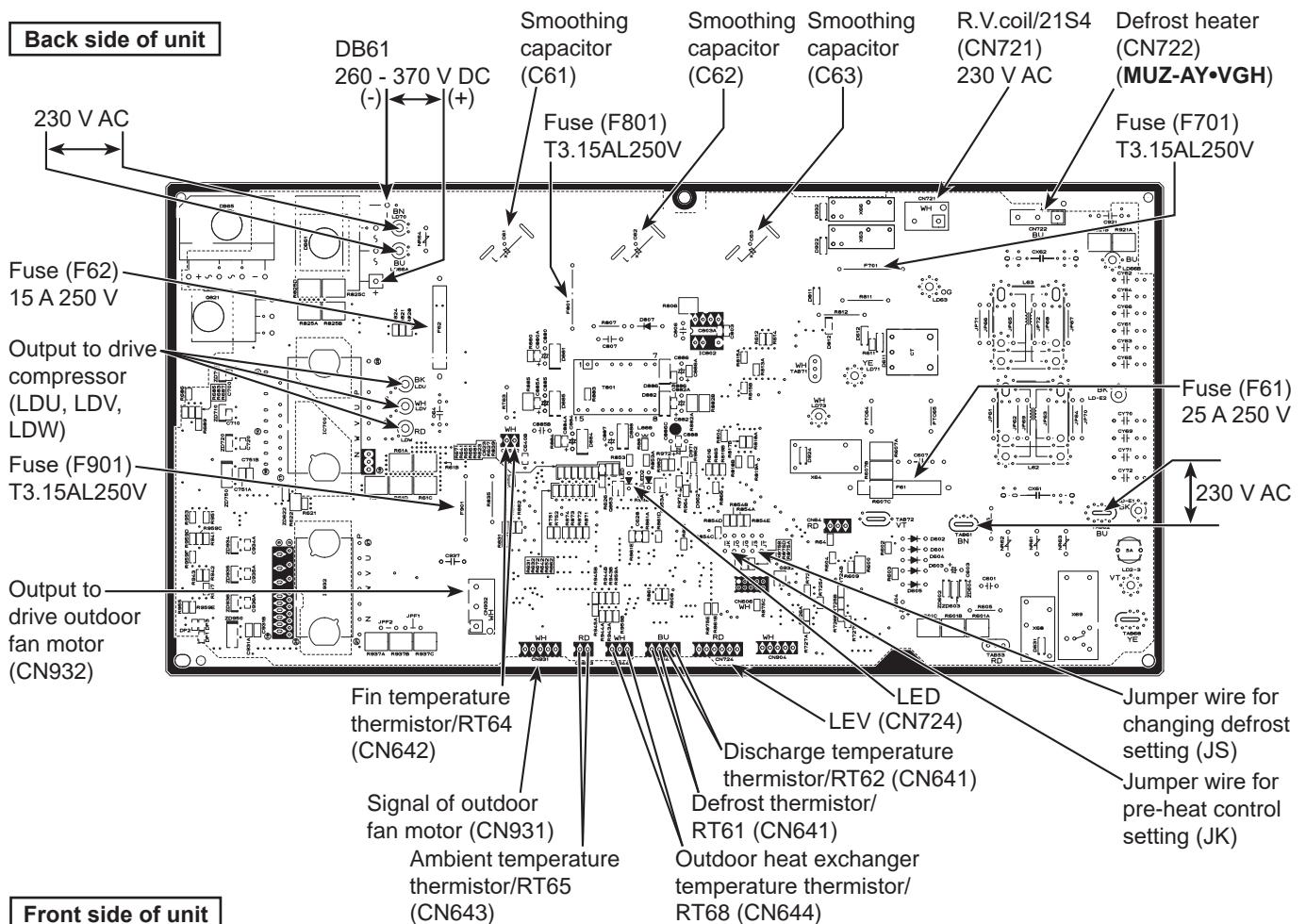
① Electromagnetic noise enters into TV sets or radios



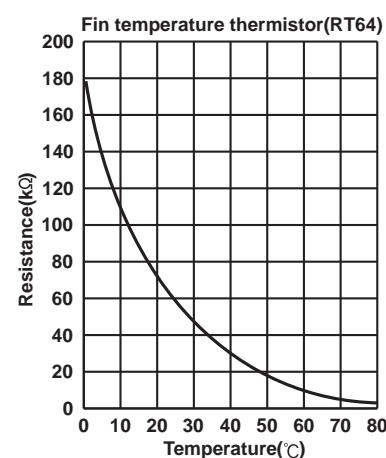
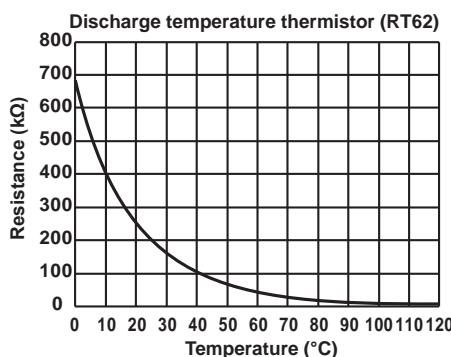
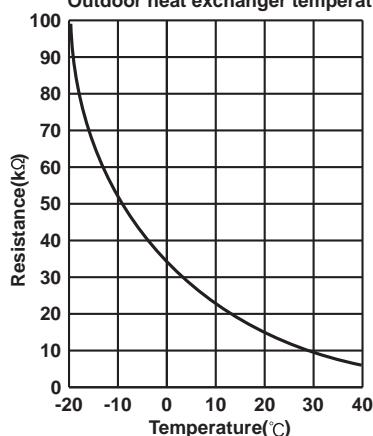
12-6. TEST POINT DIAGRAM AND VOLTAGE

1. Inverter P.C. board

**MUZ-AY25VG MUZ-AY35VG MUZ-AY42VG MUZ-AY50VG
MUZ-AY25VGH MUZ-AY35VGH MUZ-AY42VGH MUZ-AY50VGH**



Defrost thermistor(RT61)
Ambient temperature thermistor(RT65)
Outdoor heat exchanger temperature thermistor(RT68)



<Detaching method of the terminal with locking mechanism>

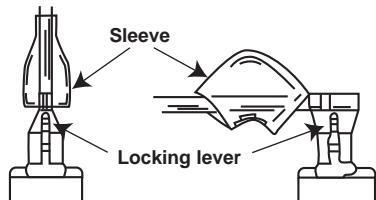
The terminal which has the locking mechanism can be detached as shown below.

There are 2 types of the terminal with locking mechanism.

The terminal without locking mechanism can be detached by pulling it out.

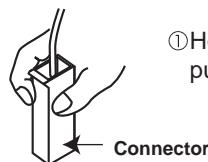
Check the shape of the terminal before detaching.

(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 shown below has the locking mechanism.



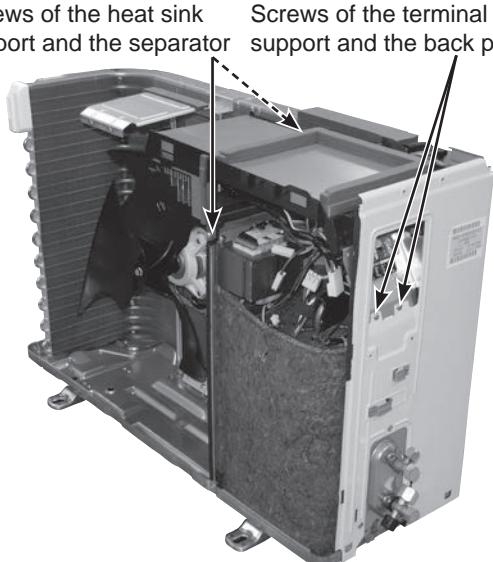
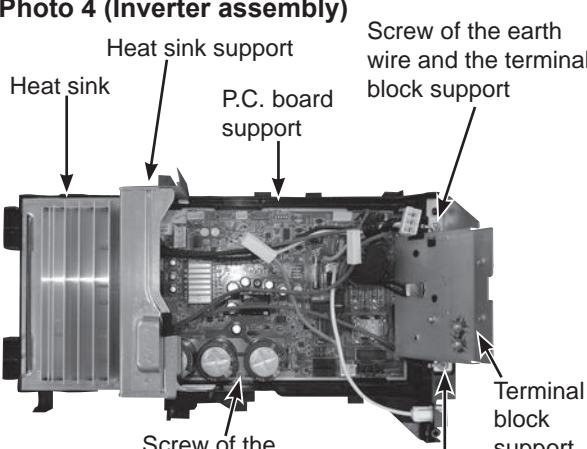
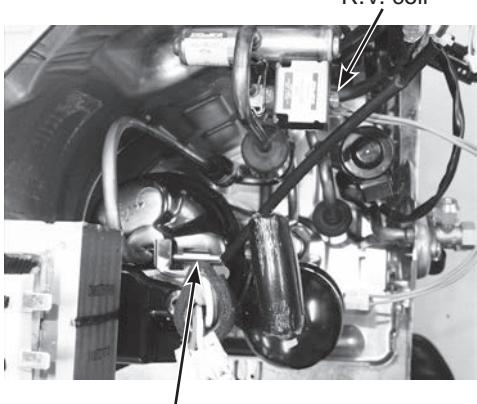
- ①Hold the sleeve, and pull out the terminal slowly.

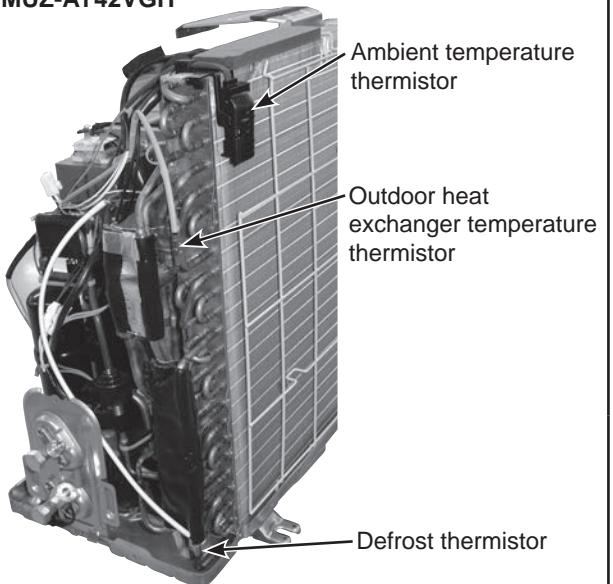
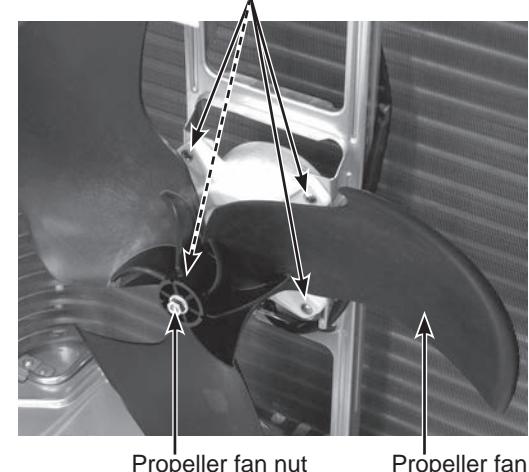
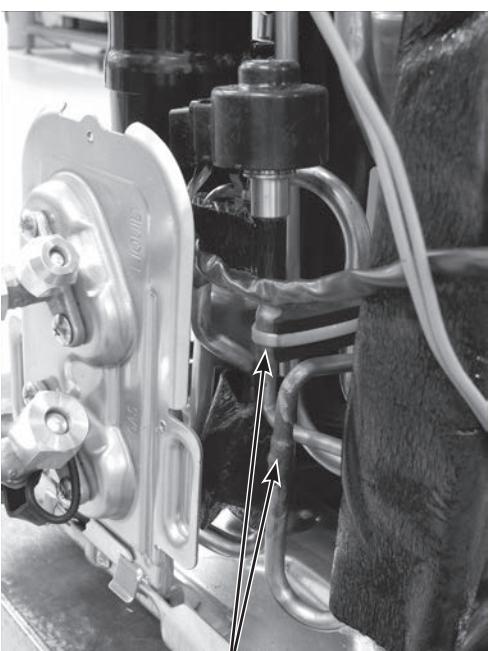
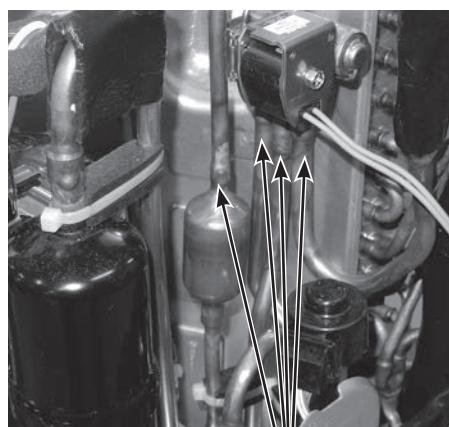
13-1. MUZ-AY25VG MUZ-AY35VG MUZ-AY42VG**MUZ-AY25VGH MUZ-AY35VGH MUZ-AY42VGH**

NOTE: Turn OFF the power supply before disassembly.

—→: Indicates the visible parts in the photos/figures.
- - - →: Indicates the invisible parts in the photos/figures.

OPERATING PROCEDURE	PHOTOS/FIGURES
<p>1. Removing the cabinet</p> <ul style="list-style-type: none"> (1) Remove the screw fixing the service panel. (2) Pull down the service panel and remove it. (3) Disconnect the power supply cord and indoor/outdoor connecting wire. (4) Remove the screws fixing the top panel. (5) Remove the top panel. (6) Remove the screws fixing the cabinet. (7) Remove the cabinet. (8) Remove the screws fixing the back panel. (9) Remove the back panel. 	<p>Photo 1</p> <p>Screws of the top panel Screws of the back panel Service panel Screws of the cabinet Back panel</p> <p>Photo 2</p> <p>Screw of the cabinet Screws of the terminal block support and the back panel Screws of the service panel Direction to remove Hooks Screws of the cabinet</p>

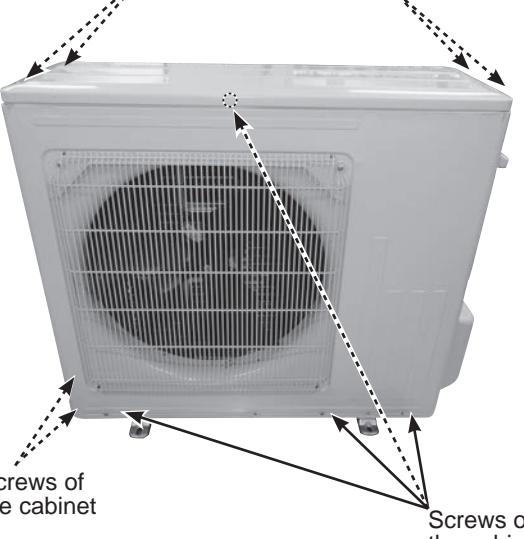
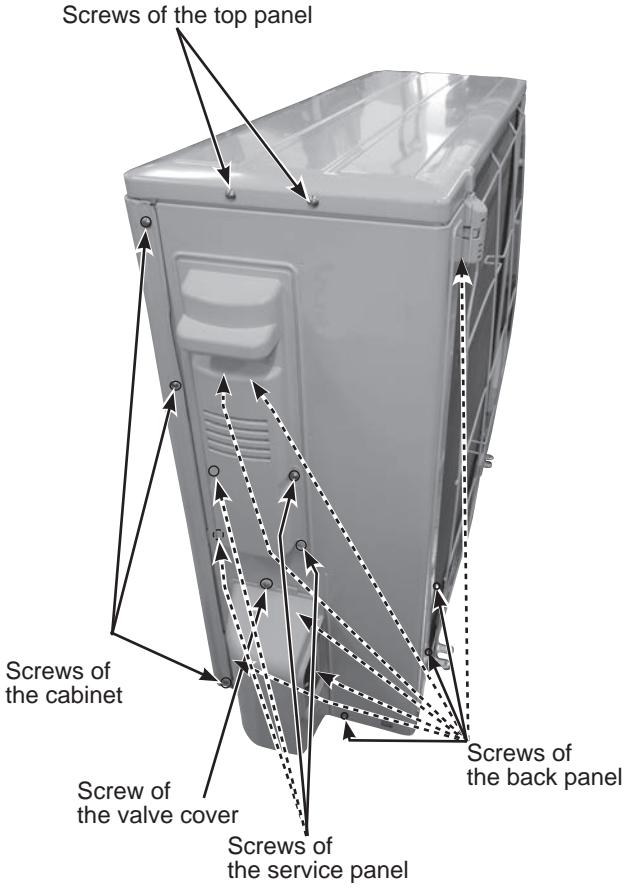
OPERATING PROCEDURE	PHOTOS/FIGURES
<p>2. Removing the inverter assembly, inverter P.C. board</p> <p>(1) Remove the top panel, cabinet and service panel. (Refer to section 1.)</p> <p>(2) Disconnect the lead wire to the reactor and the following connectors:</p> <p><Inverter P.C. board> CN721 (R.V. coil) CN722 (Defrost heater)(MUZ-AY•VGH) CN931, CN932 (Fan motor) CN641 (Defrost thermistor and discharge temperature thermistor) CN643 (Ambient temperature thermistor) CN644 (Outdoor heat exchanger temperature thermistor) CN724 (Expansion valve coil)</p> <p>(3) Remove the compressor connector (CN61).</p> <p>(4) Remove the screws fixing the heat sink support and the separator.</p> <p>(5) Remove the fixing screws of the terminal block support and the back panel.</p> <p>(6) Remove the inverter assembly.</p> <p>(7) Remove the screw of the earth wire and screw of the terminal block support.</p> <p>(8) Remove the heat sink support from the P.C. board support.</p> <p>(9) Remove the screw of the inverter P.C. board and remove the inverter P.C. board from the P.C. board support.</p>	<p>Photo 3</p> 
<p>3. Removing R.V. coil</p> <p>(1) Remove the cabinet and panels. (Refer to section 1.)</p> <p>(2) Disconnect the following connectors:</p> <p><Inverter P.C. board> CN721 (R.V. coil)</p> <p>(3) Remove the R.V. coil.</p>	<p>Photo 4 (Inverter assembly)</p> 
<p>4. Removing the discharge temperature thermistor, defrost thermistor, outdoor heat exchanger temperature thermistor and ambient temperature thermistor</p> <p>(1) Remove the cabinet and panels. (Refer to section 1.)</p> <p>(2) Disconnect the lead wire to the reactor and the following connectors:</p> <p><Inverter P.C. board> CN641 (Defrost thermistor and discharge temperature thermistor) CN643 (Ambient temperature thermistor) CN644 (Outdoor heat exchanger temperature thermistor)</p> <p>(3) Pull out the discharge temperature thermistor from its holder.</p> <p>(4) Pull out the defrost thermistor from its holder. (Photo 6)</p> <p>(5) Pull out the outdoor heat exchanger temperature thermistor from its holder. (Photo 6)</p> <p>(6) Pull out the ambient temperature thermistor from its holder.</p>	<p>Photo 5</p> 

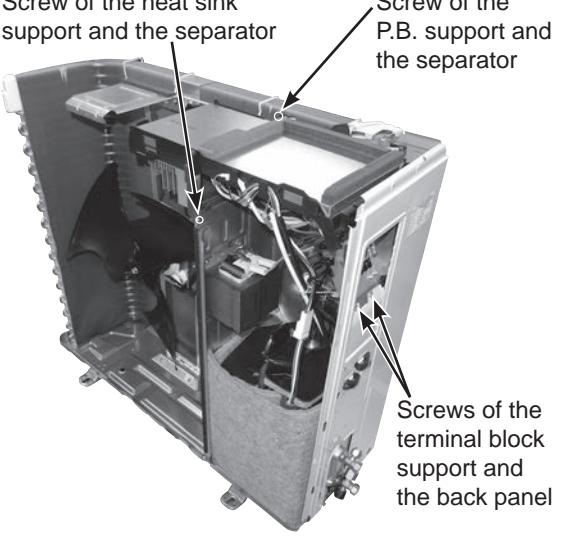
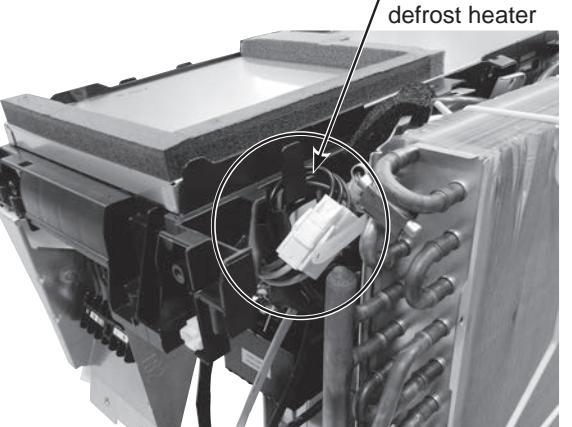
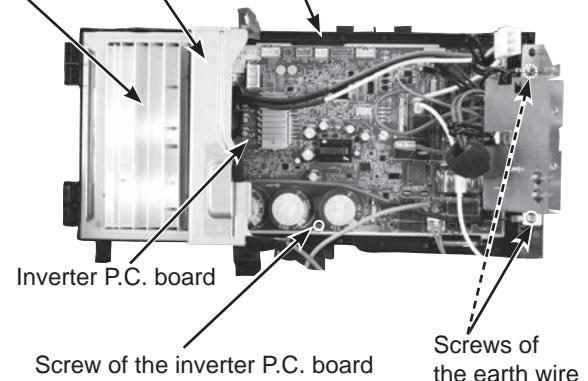
OPERATING PROCEDURE	PHOTOS/FIGURES
<p>5. Removing outdoor fan motor</p> <p>(1) Remove the top panel, cabinet and service panel. (Refer to section 1.)</p> <p>(2) Disconnect the following connectors: <Inverter P.C. board> CN931, CN932 (Fan motor)</p> <p>(3) Remove the propeller fan nut.</p> <p>(4) Remove the propeller fan.</p> <p>(5) Remove the screws fixing the fan motor.</p> <p>(6) Remove the fan motor.</p>	<p>Photo 6 MUZ-AY42VGH</p> 
<p>6. Removing the compressor and 4-way valve</p> <p>(1) Remove the cabinet and panels. (Refer to section 1.)</p> <p>(2) Remove the inverter assembly. (Refer to section 2.)</p> <p>(3) Recover gas from the refrigerant circuit.</p> <p>NOTE: Recover gas from the pipes until the pressure gauge shows 0 kg/cm² (0 MPa).</p> <p>(4) Detach the brazed part of the suction and the discharge pipe connected with compressor.</p> <p>(5) Remove the nuts of compressor legs.</p> <p>(6) Remove the compressor.</p> <p>(7) Detach the brazed part of pipes connected with 4-way valve.</p>	<p>NOTE: MUZ-AY25/35VG/H are different in the installation position of thermistors.</p>
<p>7. Removing the expansion valve assembly</p> <p>(1) Detaching the brazed part of pipes connected with the expansion valve.</p>	<p>Photo 7</p>  <p>Screws of the outdoor fan motor</p> <p>Propeller fan nut</p> <p>Propeller fan</p>
<p>Photo 9</p>  <p>Brazed parts of the expansion valve</p>	<p>Photo 8</p>  <p>Brazed parts of 4-way valve</p>

13-2. MUZ-AY50VG

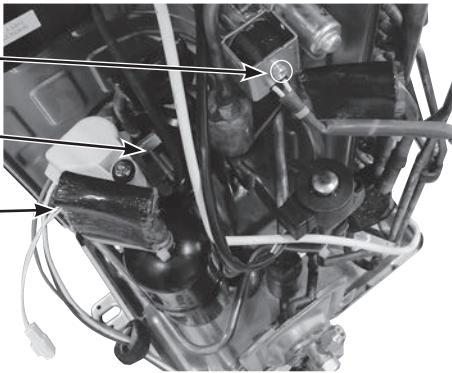
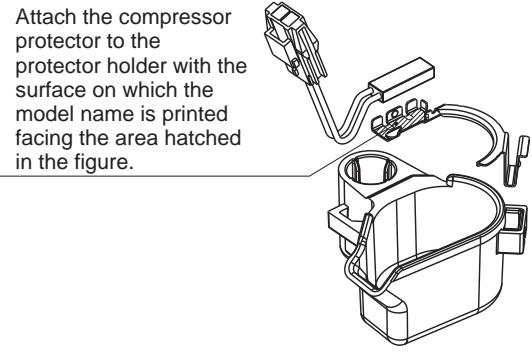
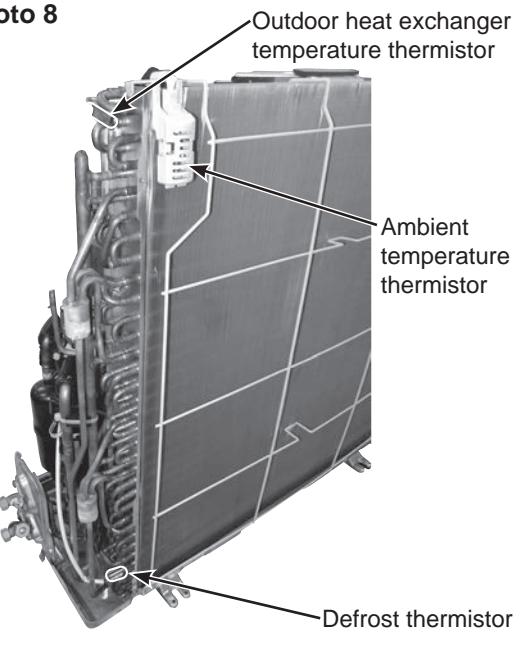
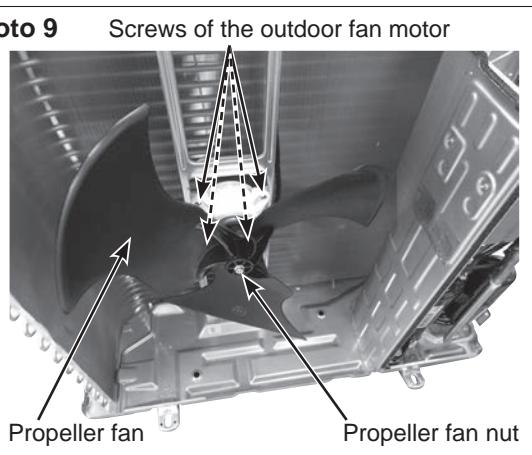
MUZ-AY50VGH

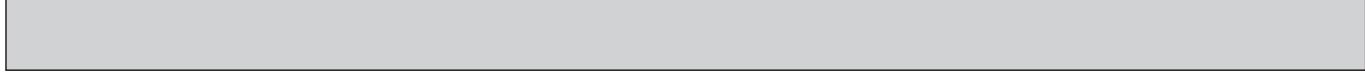
NOTE: Turn OFF the power supply before disassembly.

OPERATING PROCEDURE	PHOTOS/FIGURES
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) Disconnect the power supply cord and indoor/outdoor connecting wire. (8) Remove the screws of the cabinet. (9) Remove the cabinet. (10) Remove the screws of the back panel. (11) Remove the back panel.	Photo 1  <p>Screws of the top panel Screws of the cabinet</p>
Photo 2  <p>Screws of the top panel Screws of the cabinet Screw of the valve cover Screws of the service panel Screws of the back panel</p>	

OPERATING PROCEDURE	PHOTOS/FIGURES
<p>2. Removing the inverter assembly and inverter P.C. board</p> <p>(1) Remove the cabinet and panels (refer to section 1).</p> <p>(2) Disconnect the lead wire to the reactor and the following connectors:</p> <ul style="list-style-type: none"> <Inverter P.C. board> CN721 (R.V. coil) CN931, CN932 (Fan motor) CN641 (Defrost thermistor and discharge temperature thermistor) CN643 (Ambient temperature thermistor) CN644 (Outdoor heat exchanger temperature thermistor) CN724 (Expansion valve coil) CN722 (Defrost heater and heater protector) (MUZ-AY50VGH) CN64 (Compressor protector) <p>(3) Remove the compressor connector (CN61).</p> <p>(4) Remove the screws fixing the heat sink support and the separator.</p> <p>(5) Remove the fixing screw of the P.B. support and the separator.</p> <p>(6) Remove the fixing screws of the terminal block support and the back panel.</p> <p>(7) Remove the inverter assembly.</p> <p>(8) Remove the screws of the earth wires.</p> <p>(9) Remove the heat sink support from the P.C. board support.</p> <p>(10) Remove the screw of the inverter P.C. board and remove the inverter P.C. board from the P.C. board support.</p>	<p>Photo 3</p>  <p>Screw of the heat sink support and the separator Screw of the P.B. support and the separator Screws of the terminal block support and the back panel</p> <p>Photo 4 (MUZ-AY50VGH)</p>  <p>Lead wires of the defrost heater</p> <p>Photo 5 (Inverter assembly)</p>  <p>Heat sink support Heat sink P.C. board support Inverter P.C. board Screw of the inverter P.C. board Screws of the earth wire</p>

OPERATING PROCEDURE	PHOTOS/FIGURES
<p>* Connection procedure when attaching the inverter P.C. board (Photo 6)</p> <ol style="list-style-type: none"> 1. Connect the lead wires of the heat exchanger temperature thermistor, the defrost thermistor and discharge temperature thermistor to the connector on the inverter P.C. board. Pull the lead wires toward you and put them on the right hook on the P.C. board support. 2. Connect the lead wires of the expansion valve coil to the connector on the inverter P.C. board. Pull the lead wires toward you and put them on the right hook on the P.C. board support. 3. Connect the lead wires of the ambient temperature thermistor to the connector on the inverter P.C. board. Pull the lead wires toward you and put them on the left hook on the P.C. board support so that the fan motor lead wires are bundled up as shown in Photo 6. 4. Hook the lead wires of the defrost heater and the heater protector. (Photo 4) 	<p>Photo 6</p> <p>Lead wires of the ambient temperature thermistor Inverter P.C. board support Lead wires of the heat exchanger temperature, defrost and discharge temperature thermistor Connector of the compressor protector Lead wires of the expansion valve coil</p> <p>Pass the lead wire of compressor protector through the top felt hole. Fix the lead wires of the compressor protector and the discharge temperature thermistor.</p>

OPERATING PROCEDURE	PHOTOS/FIGURES
<p>3. Removing R. V. coil</p> <p>(1) Remove the cabinet and panels (refer to section 1). (2) Disconnect the following connectors: <Inverter P.C. board> CN721 (R.V. coil) (3) Remove the R.V. coil.</p>	<p>Photo 7</p>  <p>Figure 1</p> 
<p>4. Removing the discharge temperature thermistor, defrost thermistor, outdoor heat exchanger temperature thermistor and ambient temperature thermistor</p> <p>(1) Remove the cabinet and panels (refer to section 1). (2) Disconnect the lead wire to the reactor and the following connectors: <Inverter P.C. board> CN641 (Defrost thermistor and discharge temperature thermistor) CN643 (Ambient temperature thermistor) CN644 (Outdoor heat exchanger temperature thermistor) (3) Pull out the discharge temperature thermistor from its holder. (4) Pull out the defrost thermistor from its holder. (5) Pull out the outdoor heat exchanger temperature thermistor from its holder. (6) Pull out the ambient temperature thermistor from its holder.</p>	<p>Photo 8</p> 
<p>5. Removing outdoor fan motor</p> <p>(1) Remove the cabinet and panels (refer to section 1). (2) Disconnect the following connectors: <Inverter P.C. board> CN931, CN932 (Fan motor) (3) Remove the propeller fan nut. (4) Remove the propeller fan. (5) Remove the screws fixing the fan motor. (6) Remove the fan motor.</p>	<p>Photo 9</p> 



OPERATING PROCEDURE	PHOTOS/FIGURES
<p>6. Removing the compressor and 4-way valve</p> <p>(1) Remove the cabinet and panels (refer to section 1). (2) Remove the inverter assembly (refer to section 2). (3) Recover gas from the refrigerant circuit.</p> <p>NOTE: Recover gas from the pipes until the pressure gauge shows 0 kg/cm² (0 MPa).</p> <p>(4) Detach the brazed part of the suction and the discharge pipe connected with compressor. (5) Remove the compressor nuts. (6) Remove the compressor. (7) Detach the brazed part of pipes connected with 4-way valve.</p>	<p>Photo 10</p> <p>Suction pipe brazed part</p> <p>Discharge pipe brazed part</p> <p>Brazed parts of 4-way valve</p>

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