MITSUBISHI ELECTRIC

SPLIT-TYPE AIR CONDITIONERS

Revision B:
Some descriptions have been changed.
OBD951 REVISED EDITION-A is void.

OUTDOOR UNIT

TECHNICAL & SERVICE MANUAL

HFC utilized R454B

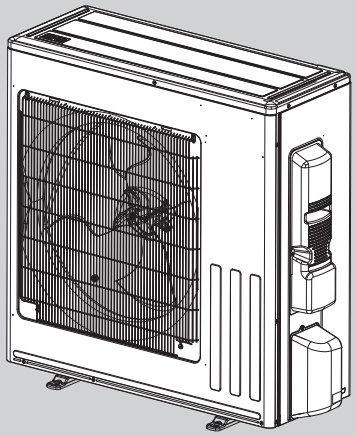
No. OBD951
REVISED EDITION-B

Models

MUZ-GX09NL - U1	MUZ-GX09NLHZ - U1	MUY-GX09NL - U1
MUZ-GX12NL - U1	MUZ-GX12NLHZ - U1	MUY-GX12NL - U1
MUZ-GX15NL - U1	MUZ-GX15NLHZ - U1	MUY-GX15NL - U1
MUZ-GX18NL - U1	MUZ-GX18NLHZ - U1	MUY-GX18NL - U1
MUZ-GX24NL - U1	MUZ-GX24NLHZ - U1	MUY-GX24NL - U1
MUZ-GX30NL - U1		MUY-GX30NL - U1
MUZ-GX36NL - U1		MUY-GX36NL - U1

Indoor unit technical & service manual
MSZ-GX•NL, MSY-GX•NL Series (OBD950)
Indoor unit service manual
MSZ-GX•NL, MSY-GX•NL Series (OBH950)

Outdoor unit service manual
MUZ-GX•NL/NLHZ, MUY-GX•NL Series (OBH951)



MUZ-GX18NL
MUZ-GX24NL
MUZ-GX30NL
MUZ-GX36NL
MUZ-GX18NLHZ
MUZ-GX24NLHZ
MUY-GX18NL
MUY-GX24NL
MUY-GX30NL
MUY-GX36NL

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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 refrigerant 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.**

Revision A:

• MUZ-GX09/12/15NL-U1, MUZ-GX09/12/15NLHZ-U1 and MUY-GX09/12/15NL-U1 have been added.
• 12. DISASSEMBLY INSTRUCTIONS has been corrected.

Revision B:

Some descriptions have been changed.

1 TECHNICAL CHANGES

MUZ-GX18NL - U1 **MUY-GX18NL - U1**
MUZ-GX24NL - U1 **MUY-GX24NL - U1**
MUZ-GX30NL - U1 **MUY-GX30NL - U1**
MUZ-GX36NL - U1 **MUY-GX36NL - U1**
MUZ-GX18NLHZ - U1
MUZ-GX24NLHZ - U1
1. New model

MUZ-GX09NL - U1 **MUY-GX09NL - U1**
MUZ-GX12NL - U1 **MUY-GX12NL - U1**
MUZ-GX15NL - U1 **MUY-GX15NL - U1**
MUZ-GX09NLHZ - U1
MUZ-GX12NLHZ - U1
MUZ-GX15NLHZ - U1
1. New model

2 SERVICING PRECAUTIONS FOR UNITS USING REFRIGERANT R454B

Servicing precautions for units using refrigerant R454B

Refrigerant Safety Group A2L **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 should not be stored in a room with 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.
- Maintenance, service and repair operations shall be performed by authorized technician with required qualification.
- Servicing shall be performed only by methods recommended by the manufacturer.
- Refrigerant piping shall be protected from physical damage.
- Field installed piping should be kept to a minimum.
- Compliance with national gas regulations shall be observed.
- All field joints shall be accessible for inspection prior to being covered or enclosed.

WARNING

- The mounting height of indoor unit shall be 5.9 ft (1.8 m) or more from the floor. Up to 7.5 ft (2.3 m) is recommended.
- The unit shall be installed in rooms exceed the minimum room area (A_{min}) determined by total refrigerant amount (M).

NOTE: For the corresponding table of the branch box system, refer to the multi-unit installation manual.

SYSTEM WITHOUT BRANCH BOX

M			A_{min}	
[kg]	[lbs, oz]		[m²]	[ft²]
0.5	1	1	1.9	21
0.6	1	5	2.3	25
0.7	1	8	2.6	28
0.8	1	12	3.0	33
0.9	1	15	3.4	37
1.0	2	3	3.8	41
1.1	2	6	4.1	45
1.2	2	10	4.5	49
1.3	2	13	4.9	53
1.4	3	1	5.2	56
1.5	3	4	5.6	61
1.6	3	8	6.0	65

M			A_{min}	
[kg]	[lbs, oz]		[m²]	[ft²]
1.7	3	11	6.3	68
1.8	3	15	6.8	74
1.9	4	3	7.2	78
2.0	4	6	7.6	82
2.1	4	10	7.9	86
2.2	4	13	8.3	90
2.3	5	1	8.7	94
2.4	5	4	9.1	98
2.5	5	8	9.4	102
2.6	5	11	9.8	106
2.7	5	15	10.2	110
2.8	6	2	10.6	115

1. REFRIGERANT PIPE NITROGEN PRESSURE TEST METHOD

(1) Connect the testing tools.
- Make sure the stop valves are closed and do not open them.
- Add pressure to the refrigerant lines through the service port of the stop valve for GAS.

(2) Do not add pressure to the specified pressure all at once; add pressure little by little.
1. Pressurize to 0.5 MPa (73 psig, 5 kgf/cm²G), wait 5 minutes, and make sure the pressure does not decrease.
2. Pressurize to 1.5 MPa (218 psig, 15 kgf/cm²G), wait 5 minutes, and make sure the pressure does not decrease.
3. Pressurize to 4.15 MPa (601 psig, 41.5 kgf/cm²G) and measure the surrounding temperature and refrigerant pressure.

(3) If the specified pressure holds for 24 Hours and does not decrease, the pipes have passed the test and there are no leaks.
- If the surrounding temperature changes by 1°F (0.5°C), the pressure will change by about 1 psig (0.007 MPa). Make the necessary corrections.

(4) If the pressure decreases in steps (2) or (3), there is a gas leak. Look for the source of the gas leak.

2. Additional refrigerant charge

Additional refrigerant charge

Refrigerant for the indoor units and the extended piping is not included in the outdoor unit when the unit is shipped from the factory. Therefore, charge each refrigerant piping system with additional refrigerant at the installation site. In addition, in order to carry out service, enter the size and length of each liquid pipe and additional refrigerant charge amounts in the spaces provided on the “Refrigerant amount” plate on the outdoor unit.

NOTE:

- When the unit is stopped, charge the unit with the additional refrigerant through the liquid stop valve after the pipe extensions and indoor units have been vacuumized.
- When the unit is operating, add refrigerant to the gas check valve using a safety charger. Do not add liquid refrigerant directly to the check valve.

Refrigerant adjustment *1

Model	**MSZ-GX09/12/15NL** **MSY-GX09/12/15NL**	**MSZ-GX18/24/30/36NL** **MSY-GX18/24/30/36NL**
Chargeless pipe length A	25 ft (7.5 m)	50 ft (15 m)
Refrigerant adjustment B	0.22 oz/ft (20 g/m)	
Additional refrigerant	Pipe length up to A : No need Pipe length exceeds A : B×(pipe length - A)	

*1 When installing multi units, refer to the installation manual of the multi outdoor unit for unit installation.

3. REFRIGERANT SENSOR INSTALLATION AND REPLACEMENT

- For system with branch box, the refrigerant sensor shall be installed to the indoor unit before turning on the breaker. The refrigerant sensor is located inside the branch box package or can be ordered separately Parts Number MAC-100RS-E.
- When the refrigerant sensor is installed in the indoor unit, the system may stop operation if refrigerant leaks are detected.
- If the refrigerant sensor fails, replace the refrigerant sensor.
- The refrigerant sensor shall only be replaced with manufacturer approved sensor.
- If the refrigerant sensor error occurs even if the sensor is installed, check the cable connection for the sensor side and the main board side.

MSZ-GX06/09/12/15NL

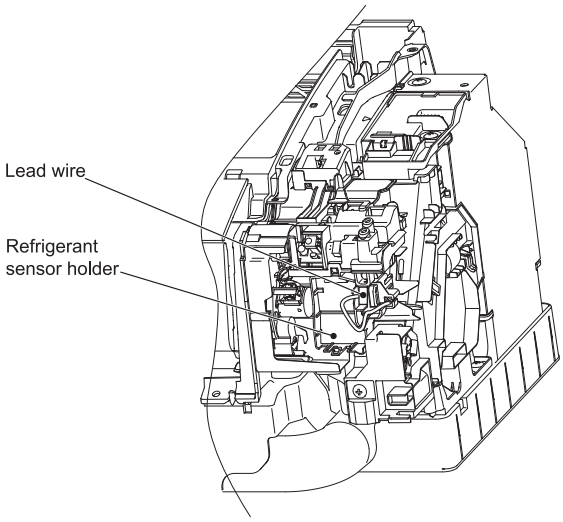


Fig. 1

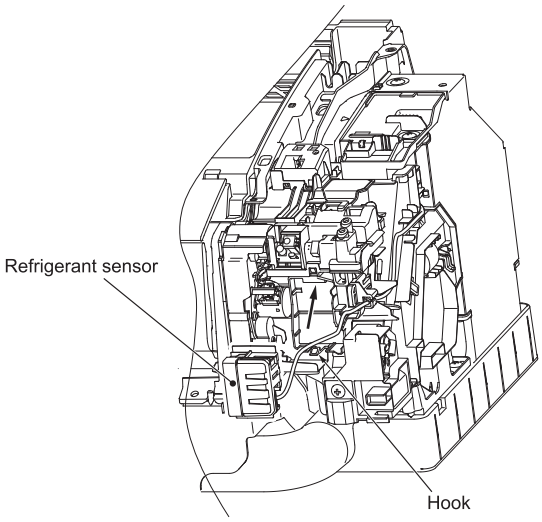


Fig. 2

(1) Remove the lead wire fixed to the refrigerant sensor holder, then connect it to the refrigerant sensor board. (Fig.1)
(2) Insert the refrigerant sensor in the direction of the arrow and then fix it with the hook. (Fig. 2)

MSZ-GX18/24NL

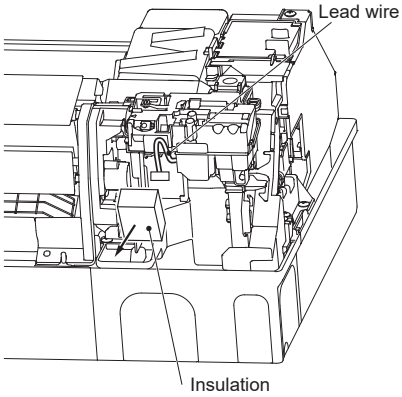


Fig. 1

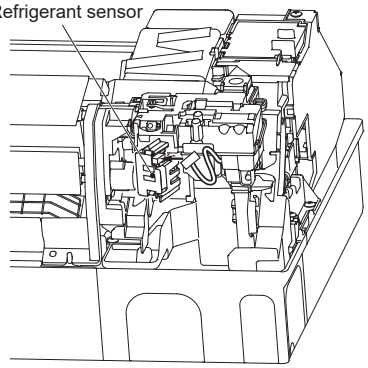


Fig. 2

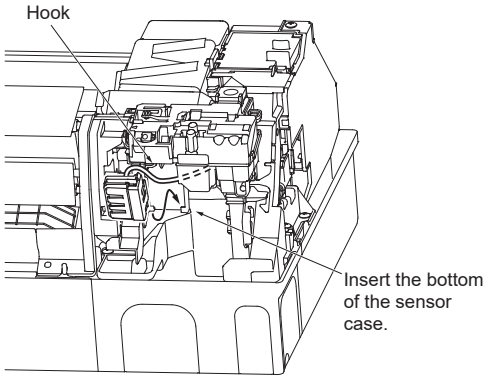


Fig. 3

(1) Remove the panel.
(2) Remove the insulation and take out the lead wire below the insulation. Dispose of the insulation. (Fig. 1)
(3) Connect the lead wire to refrigerant sensor. (Fig. 2)
(4) Insert the refrigerant sensor in the direction of the arrow and then fix it with the hook. (Fig. 3)

4. Cautions for the unit using R454B refrigerant

Basic work procedures are the same as those for conventional units using refrigerant R410A. However, pay careful attention to the following points.

■ Information on servicing

1. Checks to the area
Prior to beginning work on systems containing FLAMMABLE REFRIGERANTS, safety checks are necessary to ensure that the risk of ignition is minimized. For repair to the REFRIGERATING SYSTEM, 2 to 6 below shall be completed prior to conducting work on the system.

2. Work procedure
Work shall be undertaken under a controlled procedure so as to minimize the risk of a flammable gas or vapour 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.

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 refrigerating equipment or any associated parts, appropriate fire extinguishing equipment shall be available to hand. Have a dry powder or CO_2 fire extinguisher adjacent to the charging area.

6. No ignition sources
No person carrying out work in relation to a REFRIGERATING 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 to the refrigerating 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 actual REFRIGERANT CHARGE 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;
- marking to the equipment continues to be visible and legible. Markings and signs that are illegible shall be corrected;
- refrigerating 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 so corroded.

9. Checks to 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;
- that no live electrical components and wiring are exposed while charging, recovering or purging the system;
- that there is continuity of earth bonding.

■ **Repairs to sealed components**
Sealed electrical components shall be replaced.

■ **Repair to intrinsically safe components**
Intrinsically safe components must be replaced.

■ **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.

■ **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.
The following leak detection methods are deemed acceptable for all refrigerant systems.
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 re-calibration. (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 also 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.

■ **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 be followed, since flammability is a consideration.
The following procedure shall be adhered to:
• safely remove refrigerant following local and national regulations;
• evacuate;
• purge the circuit with inert gas;
• evacuate;
• continuously flush or purge with inert gas when using flame to open circuit; and
• open the circuit.
The refrigerant charge shall be recovered into the correct recovery cylinders if venting is not allowed by local and national codes.
For appliances containing flammable refrigerants, the system shall be purged with oxygen-free nitrogen to render the appliance safe for flammable refrigerants. This process might need to be repeated several times.
Compressed air or oxygen shall not be used for purging refrigerant systems.
For appliances containing flammable refrigerants, refrigerants purging shall be achieved by breaking the vacuum in the system with oxygen-free nitrogen 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 oxygen-free nitrogen charge is used, the system shall be vented down to atmospheric pressure to enable work to take place.
The outlet for the vacuum pump shall not be close to any potential ignition sources, and ventilation shall be available.

■ **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 in an appropriate position according to the instructions.
• Ensure that the REFRIGERATING 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 REFRIGERATING 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.

■ 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 re-use of recovered refrigerant. It is essential that electrical power is available before the task is commenced.

- Become familiar with the equipment and its operation.
- Isolate system electrically.
- 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.
- Pump down refrigerant system, if possible.
- If a vacuum is not possible, make a manifold so that refrigerant can be removed from various parts of the system.
- Make sure that cylinder is situated on the scales before recovery takes place.
- Start the recovery machine and operate in accordance with instructions.
- Do not overfill cylinders (no more than 80 % volume liquid charge).
- Do not exceed the maximum working pressure of the cylinder, even temporarily.
- 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.
- Recovered refrigerant shall not be charged into another REFRIGERATING SYSTEM unless it has been cleaned and checked.

■ Labelling

Equipment shall be labelled 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.

■ 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 is available.

All cylinders to be used are designated for the recovered refrigerant and labelled 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 the flammable refrigerant.

If in doubt, the manufacturer should be consulted. 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.

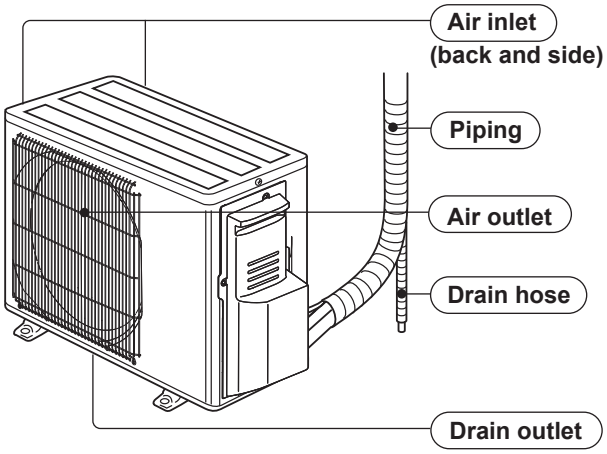
The recovered refrigerant shall be processed according to local legislation in the correct recovery cylinder, and the relevant waste transfer note arranged. Do not mix refrigerants in recovery units and especially not in cylinders.

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.

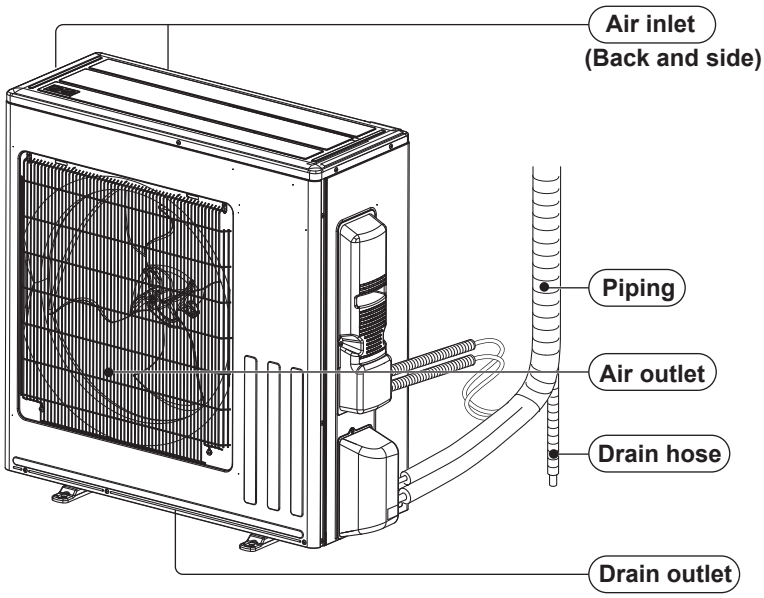
The compressor body shall not be heated by an open flame or other ignition sources to accelerate this process. When oil is drained from a system, it shall be carried out safely.

3 PART NAMES AND FUNCTIONS

MUZ-GX09NL MUZ-GX12NL MUZ-GX15NL
MUY-GX09NL MUY-GX12NL MUY-GX15NL
MUZ-GX09NLHZ MUZ-GX12NLHZ MUZ-GX15NLHZ



MUZ-GX18NL MUZ-GX24NL MUZ-GX30NL MUZ-GX36NL
MUY-GX18NL MUY-GX24NL MUY-GX30NL MUY-GX36NL
MUZ-GX18NLHZ MUZ-GX24NLHZ



4 SPECIFICATION

Outdoor unit model			MUZ-GX09NL	MUY-GX09NL	MUZ-GX09NLHZ
Capacity Rated (Minimum – Maximum)	Cooling *1	Btu/h	9,000 (3,200 – 12,200)	9,000 (3,200 – 12,200)	9,000 (3,200 – 12,200)
	Heating 47 *1	Btu/h	10,900 (3,300 – 15,900)	—	9,600 (3,300 – 15,900)
Capacity Rated (Maximum)	Heating 17 *2	Btu/h	6,700 (10,200)	—	5,900 (11,500)
Power consumption Rated (Minimum – Maximum)	Cooling *1	W	585 (210 – 1,050)	585 (210 – 1,050)	585 (210 – 1,050)
	Heating 47 *1	W	720 (170 – 1,740)	—	580 (170 – 1,750)
Power consumption Rated (Maximum)	Heating 17 *2	W	730 (1,390)	—	650 (1,410)
EER2 *1 [SEER2] *3	Cooling		15.4 [28.4]	15.4 [28.4]	15.4 [28.4]
HSPF2 Region IV*4	Heating		10.9	—	10.2
COP	Heating *1		4.44	—	4.85
Power factor	Cooling	%	84	84	84
	Heating	%	92	—	90
Power supply		V, phase, Hz	208/230, 1, 60	208/230, 1, 60	208/230, 1, 60
Max. fuse size (time delay)		A	15	15	15
Min. circuit ampacity		A	12	12	12
Fan motor	F.L.A	A	0.71	0.71	0.71
Compressor	Model		SRB092FQFMC/ SRB092FQFMT	SRB092FQFMC/ SRB092FQFMT	SRB092FQFMC/ SRB092FQFMT
	R.L.A	A	7.0	7.0	7.0
	L.R.A	A	8.7	8.7	8.7
	Refrigeration oil	fl oz. (L) (Model)	11.8 (0.35)/(RM68EH)	11.8 (0.35)/(RM68EH)	11.8 (0.35)/(RM68EH)
Refrigerant control			Linear expansion valve	Linear expansion valve	Linear expansion valve
Sound level *1	Cooling	dB(A)	48	48	48
	Heating	dB(A)	50	—	50
Airflow High - Med. - Low	Cooling	CFM	1,152 – 1,152 – 541	1,152 – 1,152 – 541	1,177 – 1,177 – 553
	Heating	CFM	1,139 – 1,097 – 739	—	1,163 – 1,121 – 752
Fan speed High - Med. - Low	Cooling	rpm	900 – 900 – 460	900 – 900 – 460	900 – 900 – 460
	Heating	rpm	890 – 860 – 600	—	890 – 860 – 600
Defrost method			Reverse cycle	—	Reverse cycle
Dimensions	W	in.	31-1/2	31-1/2	31-1/2
	D	in.	11-1/4	11-1/4	11-1/4
	H	in.	21-5/8	21-5/8	21-5/8
Weight		lb.	77	77	77
External finish			Munsell 3Y 7.8/1.1	Munsell 3Y 7.8/1.1	Munsell 3Y 7.8/1.1
Remote controller			Wireless type	Wireless type	Wireless type
Control voltage (by built-in transformer)		V DC	12 – 24	12 – 24	12 – 24
Refrigerant piping			Not supplied	Not supplied	Not supplied
Refrigerant pipe size (Min. wall thickness)	Liquid	in.	1/4 (0.0315)	1/4 (0.0315)	1/4 (0.0315)
	Gas	in.	3/8 (0.0315)	3/8 (0.0315)	3/8 (0.0315)
Connection method	Indoor		Flared	Flared	Flared
	Outdoor		Flared	Flared	Flared
Between the indoor & outdoor units	Height difference	ft.	40	40	40
	Piping length	ft.	65	65	65
Refrigerant charge (R454B)			2lbs.	2lbs.	2lbs.

NOTE: Test conditions are based on AHRI 210/240.

*1: Rating conditions (Cooling) — Indoor: 80˚FDB, 67˚FWB, Outdoor: 95˚FDB, (75˚FWB)
(Heating) — Indoor: 70˚FDB, 60˚FWB, Outdoor: 47˚FDB, 43˚FWB
*2: Rating conditions (Heating) — Indoor: 70˚FDB, 60˚FWB, Outdoor: 17˚FDB, 15˚FWB
*3: Test condition (Refer to page 17.)
*4: Test condition (Refer to page 17.)

Outdoor unit model			MUZ-GX12NL	MUY-GX12NL	MUZ-GX12NLHZ
Capacity Rated (Minimum – Maximum)	Cooling *1	Btu/h	12,000 (1,300 – 14,000)	12,000 (1,300 – 14,000)	12,000 (1,300 – 14,000)
	Heating 47 *1	Btu/h	14,400 (1,500 – 18,100)	—	12,300 (3,300 – 19,100)
Capacity Rated (Maximum)	Heating 17 *2	Btu/h	9,000 (12,000)	—	7,600 (16,000)
Power consumption Rated (Minimum – Maximum)	Cooling *1	W	900 (90 – 1,490)	900 (90 – 1,490)	900 (180 – 1,910)
	Heating 47 *1	W	1,100 (110 – 1,780)	—	920 (250 – 2,500)
Power consumption Rated (Maximum)	Heating 17 *2	W	1,000 (1,670)	—	820 (2,530)
EER2 *1 [SEER2] *3	Cooling		13.35 [25.6]	13.35 [25.6]	13.35 [25.6]
HSPF2 Region IV*4	Heating		10.7	—	10.0
COP	Heating *1		3.84	—	3.92
Power factor	Cooling	%	93	93	93
	Heating	%	95	—	93
Power supply	V, phase, Hz		208/230, 1, 60	208/230, 1, 60	208/230, 1, 60
Max. fuse size (time delay)		A	15	15	20
Min. circuit ampacity		A	12	12	16
Fan motor	F.L.A	A	0.71	0.71	0.71
Compressor	Model		SRB092FQFMC/ SRB092FQFMT	SRB092FQFMC/ SRB092FQFMT	SRB140FQHMC/ SRB140FQHMT
	R.L.A	A	7.0	7.0	9.4
	L.R.A	A	8.7	8.7	11.7
	Refrigeration oil	fl oz. (L) (Model)	11.8 (0.35)/(RM68EH)	11.8 (0.35)/(RM68EH)	11.8 (0.35)/(RM68EH)
Refrigerant control			Linear expansion valve	Linear expansion valve	Linear expansion valve
Sound level *1	Cooling	dB(A)	49	49	49
	Heating	dB(A)	51	—	51
Airflow High - Med. - Low	Cooling	CFM	1,152 – 1,152 – 541	1,152 – 1,152 – 541	1,191 – 1,191 – 553
	Heating	CFM	1,139 – 1,097 – 739	—	1,177 – 1,177 – 752
Fan speed High - Med. - Low	Cooling	rpm	900 – 900 – 460	900 – 900 – 460	910 – 910 – 460
	Heating	rpm	890 – 860 – 600	—	900 – 900 – 600
Defrost method			Reverse cycle	—	Reverse cycle
Dimensions	W	in.	31-1/2	31-1/2	31-1/2
	D	in.	11-1/4	11-1/4	11-1/4
	H	in.	21-5/8	21-5/8	21-5/8
Weight		lb.	77	77	82
External finish			Munsell 3Y 7.8/1.1	Munsell 3Y 7.8/1.1	Munsell 3Y 7.8/1.1
Remote controller			Wireless type	Wireless type	Wireless type
Control voltage (by built-in transformer)		V DC	12 – 24	12 – 24	12 – 24
Refrigerant piping			Not supplied	Not supplied	Not supplied
Refrigerant pipe size (Min. wall thickness)	Liquid	in.	1/4 (0.0315)	1/4 (0.0315)	1/4 (0.0315)
	Gas	in.	3/8 (0.0315)	3/8 (0.0315)	3/8 (0.0315)
Connection method	Indoor		Flared	Flared	Flared
	Outdoor		Flared	Flared	Flared
Between the indoor & outdoor units	Height difference	ft.	40	40	40
	Piping length	ft.	65	65	65
Refrigerant charge (R454B)			2lbs.	2lbs.	2lbs. 4oz

NOTE: Test conditions are based on AHRI 210/240.

*1: Rating conditions (Cooling) — Indoor: 80˚FDB, 67˚FWB, Outdoor: 95˚FDB, (75˚FWB)
(Heating) — Indoor: 70˚FDB, 60˚FWB, Outdoor: 47˚FDB, 43˚FWB
*2: Rating conditions (Heating) — Indoor: 70˚FDB, 60˚FWB, Outdoor: 17˚FDB, 15˚FWB
*3: Test condition (Refer to page 17.)
*4: Test condition (Refer to page 17.)

Outdoor unit model			MUZ-GX15NL	MUY-GX15NL	MUZ-GX15NLHZ
Capacity Rated (Minimum – Maximum)	Cooling *1	Btu/h	14,000 (2,800 – 18,200)	14,000 (2,800 – 18,200)	14,000 (2,800 – 18,200)
	Heating 47 *1	Btu/h	18,000 (4,300 – 21,000)	—	14,000 (4,300 – 21,000)
Capacity Rated (Maximum)	Heating 17 *2	Btu/h	11,400 (16,400)	—	8,700 (16,800)
Power consumption Rated (Minimum – Maximum)	Cooling *1	W	1,075 (190 – 2,200)	1,075 (190 – 2,200)	1,075 (190 – 2,200)
	Heating 47 *1	W	1,600 (250 – 2,510)	—	1,100 (230 – 2,510)
Power consumption Rated (Maximum)	Heating 17 *2	W	1,330 (2,500)	—	950 (2,500)
EER2 *1 [SEER2] *3	Cooling		13.0 [22.2]	13.0 [22.2]	13.0 [22.2]
HSPF2 Region IV*4	Heating		11.0	—	10.0
COP	Heating *1		3.3	—	3.73
Power factor	Cooling	%	97	97	97
	Heating	%	96	—	95
Power supply	V, phase, Hz		208/230, 1, 60	208/230, 1, 60	208/230, 1, 60
Max. fuse size (time delay)		A	20	20	20
Min. circuit ampacity		A	16	16	16
Fan motor	F.L.A	A	0.71	0.71	0.71
Compressor	Model		SRB140FQHMC/ SRB140FQHMT	SRB140FQHMC/ SRB140FQHMT	SRB140FQHMC/ SRB140FQHMT
	R.L.A	A	9.4	9.4	9.4
	L.R.A	A	11.7	11.7	11.7
	Refrigeration oil	fl oz. (L) (Model)	11.8 (0.35)/(RM68EH)	11.8 (0.35)/(RM68EH)	11.8 (0.35)/(RM68EH)
Refrigerant control			Linear expansion valve	Linear expansion valve	Linear expansion valve
Sound level *1	Cooling	dB(A)	49	49	49
	Heating	dB(A)	51	51	51
Airflow High - Med. - Low	Cooling	CFM	1,166 – 1,166 – 541	1,166 – 1,166 – 541	1,191 – 1,191 – 553
	Heating	CFM	1,152 – 1,152 – 739	—	1,177 – 1,177 – 752
Fan speed High - Med. - Low	Cooling	rpm	910 – 910 – 460	910 – 910 – 460	910 – 910 – 460
	Heating	rpm	900 – 900 – 600	—	900 – 900 – 600
Defrost method			Reverse cycle	—	Reverse cycle
Dimensions	W	in.	31-1/2	31-1/2	31-1/2
	D	in.	11-1/4	11-1/4	11-1/4
	H	in.	21-5/8	21-5/8	21-5/8
Weight		lb.	81	81	82
External finish			Munsell 3Y 7.8/1.1	Munsell 3Y 7.8/1.1	Munsell 3Y 7.8/1.1
Remote controller			Wireless type	Wireless type	Wireless type
Control voltage (by built-in transformer)		V DC	12 – 24	12 – 24	12 – 24
Refrigerant piping			Not supplied	Not supplied	Not supplied
Refrigerant pipe size (Min. wall thickness)	Liquid	in.	1/4 (0.0315)	1/4 (0.0315)	1/4 (0.0315)
	Gas	in.	1/2 (0.0315)	1/2 (0.0315)	1/2 (0.0315)
Connection method	Indoor		Flared	Flared	Flared
	Outdoor		Flared	Flared	Flared
Between the indoor & outdoor units	Height difference	ft.	40	40	40
	Piping length	ft.	65	65	65
Refrigerant charge (R454B)			2lbs. 4oz	2lbs. 4oz	2lbs. 4oz

NOTE: Test conditions are based on AHRI 210/240.

*1: Rating conditions (Cooling) — Indoor: 80˚FDB, 67˚FWB, Outdoor: 95˚FDB, (75˚FWB)
(Heating) — Indoor: 70˚FDB, 60˚FWB, Outdoor: 47˚FDB, 43˚FWB
*2: Rating conditions (Heating) — Indoor: 70˚FDB, 60˚FWB, Outdoor: 17˚FDB, 15˚FWB
*3: Test condition (Refer to page 17.)
*4: Test condition (Refer to page 17.)

Outdoor unit model			MUZ-GX18NL	MUY-GX18NL	MUZ-GX18NLHZ
Capacity Rated (Minimum – Maximum)	Cooling *1	Btu/h	18,000 (5,200 – 22,000)	18,000 (5,200 – 22,000)	18,000 (5,200 – 22,000)
	Heating 47 *1	Btu/h	21,600 (6,800 – 27,400)	—	19,000 (6,800 – 27,400)
Capacity Rated (Maximum)	Heating 17 *2	Btu/h	13,700 (18,200)	—	12,000 (22,400)
Power consumption Rated (Minimum – Maximum)	Cooling *1	W	1,280 (340 – 2,150)	1,280 (340 – 2,150)	1,280 (340 – 2,150)
	Heating 47 *1	W	1,680 (400 – 4,000)	—	1,340 (410 – 4,000)
Power consumption Rated (Maximum)	Heating 17 *2	W	1,460 (2,900)	—	1,230 (3,240)
EER2 *1 [SEER2] *3	Cooling		14.05 [22.5]	14.05 [22.5]	14.05 [22.5]
HSPF2 Region IV*4	Heating		10.3	—	10.0
COP	Heating *1		3.77	—	4.16
Power factor	Cooling	%	97	97	97
	Heating	%	97	—	98
Power supply	V, phase, Hz		208/230, 1, 60	208/230, 1, 60	208/230, 1, 60
Max. fuse size (time delay)		A	25	25	25
Min. circuit ampacity		A	23	23	23
Fan motor	F.L.A	A	0.76	0.76	0.76
Compressor	Model		SRB172FQHMC/ SRB172FQHMT	SRB172FQHMC/ SRB172FQHMT	SRB172FQHMC/ SRB172FQHMT
	R.L.A	A	13.8	13.8	13.8
	L.R.A	A	17.2	17.2	17.2
	Refrigeration oil	fl oz. (L) (Model)	14.5 (0.43)/(RM68EH)	14.5 (0.43)/(RM68EH)	14.5 (0.43)/(RM68EH)
Refrigerant control			Linear expansion valve	Linear expansion valve	Linear expansion valve
Sound level *1	Cooling	dB(A)	54	54	54
	Heating	dB(A)	55	—	55
Airflow High - Med. - Low	Cooling	CFM	2,202 – 1,934 – 977	2,202 – 1,934 – 977	2,202 – 1,934 – 977
	Heating	CFM	1,934 – 1,934 – 1,281	—	1,934 – 1,934 – 1,281
Fan speed High - Med. - Low	Cooling	rpm	900 – 800 – 450	900 – 800 – 450	900 – 800 – 450
	Heating	rpm	800 – 800 – 560	—	800 – 800 – 560
Defrost method			Reverse cycle	—	Reverse cycle
Dimensions	W	in.	33-1/16	33-1/16	33-1/16
	D	in.	13	13	13
	H	in.	34-5/8	34-5/8	34-5/8
Weight		lb.	116	116	117
External finish			Munsell 3Y 7.8/1.1	Munsell 3Y 7.8/1.1	Munsell 3Y 7.8/1.1
Remote controller			Wireless type	Wireless type	Wireless type
Control voltage (by built-in transformer)		V DC	12 – 24	12 – 24	12 – 24
Refrigerant piping			Not supplied	Not supplied	Not supplied
Refrigerant pipe size (Min. wall thickness)	Liquid	in.	1/4 (0.0315)	1/4 (0.0315)	1/4 (0.0315)
	Gas	in.	1/2 (0.0315)	1/2 (0.0315)	1/2 (0.0315)
Connection method	Indoor		Flared	Flared	Flared
	Outdoor		Flared	Flared	Flared
Between the indoor & outdoor units	Height difference	ft.	50	50	50
	Piping length	ft.	100	100	100
Refrigerant charge (R454B)			3lbs.12oz	3lbs.12oz	3lbs.12oz

NOTE: Test conditions are based on AHRI 210/240.

*1: Rating conditions (Cooling) — Indoor: 80˚FDB, 67˚FWB, Outdoor: 95˚FDB, (75˚FWB)
(Heating) — Indoor: 70˚FDB, 60˚FWB, Outdoor: 47˚FDB, 43˚FWB
*2: Rating conditions (Heating) — Indoor: 70˚FDB, 60˚FWB, Outdoor: 17˚FDB, 15˚FWB
*3: Test condition (Refer to page 17.)
*4: Test condition (Refer to page 17.)

Outdoor unit model			MUZ-GX24NL	MUY-GX24NL	MUZ-GX24NLHZ
Capacity Rated (Minimum – Maximum)	Cooling *1	Btu/h	22,400 (7,400 – 27,000)	22,400 (7,400 – 27,000)	22,400 (7,400 – 27,000)
	Heating 47 *1	Btu/h	27,600 (6,800 – 32,000)	—	21,200 (6,800 – 32,000)
Capacity Rated (Maximum)	Heating 17 *2	Btu/h	19,200 (24,600)	—	14,000 (25,400)
Power consumption Rated (Minimum – Maximum)	Cooling *1	W	1,720 (510 – 2,890)	1,720 (510 – 2,890)	1,720 (510 – 2,890)
	Heating 47 *1	W	2,340 (470 – 4,000)	—	1,500 (470 – 4,000)
Power consumption Rated (Maximum)	Heating 17 *2	W	2,020 (3,110)	—	1,400 (3,500)
EER2 *1 [SEER2] *3	Cooling		13.0 [21.5]	13.0 [21.5]	13.0 [21.5]
HSPF2 Region IV*4	Heating		10.3	—	10.0
COP	Heating *1		3.46	—	4.14
Power factor	Cooling	%	98	98	98
	Heating	%	95	—	97
Power supply	V, phase, Hz		208/230, 1, 60	208/230, 1, 60	208/230, 1, 60
Max. fuse size (time delay)		A	25	25	25
Min. circuit ampacity		A	23	23	23
Fan motor	F.L.A	A	0.76	0.76	0.76
Compressor	Model		SRB172FQHMC/ SRB172FQHMT	SRB172FQHMC/ SRB172FQHMT	SRB172FQHMC/ SRB172FQHMT
	R.L.A	A	13.8	13.8	13.8
	L.R.A	A	17.2	17.2	17.2
	Refrigeration oil	fl oz. (L) (Model)	14.5 (0.43)/(RM68EH)	14.5 (0.43)/(RM68EH)	14.5 (0.43)/(RM68EH)
Refrigerant control			Linear expansion valve	Linear expansion valve	Linear expansion valve
Sound level *1	Cooling	dB(A)	55	55	55
	Heating	dB(A)	55	—	55
Airflow High - Med. - Low	Cooling	CFM	2,202 – 2,015 – 977	2,202 – 2,015 – 977	2,202 – 2,015 – 977
	Heating	CFM	1,934 – 1,934 – 1,281	—	1,934 – 1,934 – 1,281
Fan speed High - Med. - Low	Cooling	rpm	900 – 830 – 450	900 – 830 – 450	900 – 830 – 450
	Heating	rpm	800 – 800 – 560	—	800 – 800 – 560
Defrost method			Reverse cycle	—	Reverse cycle
Dimensions	W	in.	33-1/16	33-1/16	33-1/16
	D	in.	13	13	13
	H	in.	34-5/8	34-5/8	34-5/8
Weight		lb.	116	116	117
External finish			Munsell 3Y 7.8/1.1	Munsell 3Y 7.8/1.1	Munsell 3Y 7.8/1.1
Remote controller			Wireless type	Wireless type	Wireless type
Control voltage (by built-in transformer)		V DC	12 – 24	12 – 24	12 – 24
Refrigerant piping			Not supplied	Not supplied	Not supplied
Refrigerant pipe size (Min. wall thickness)	Liquid	in.	1/4 (0.0315)	1/4 (0.0315)	1/4 (0.0315)
	Gas	in.	5/8 (0.0394)	5/8 (0.0394)	5/8 (0.0394)
Connection method	Indoor		Flared	Flared	Flared
	Outdoor		Flared	Flared	Flared
Between the indoor & outdoor units	Height difference	ft.	50	50	50
	Piping length	ft.	100	100	100
Refrigerant charge (R454B)			3lbs.12oz	3lbs.12oz	3lbs.12oz

NOTE: Test conditions are based on AHRI 210/240.

*1: Rating conditions (Cooling) — Indoor: 80˚FDB, 67˚FWB, Outdoor: 95˚FDB, (75˚FWB)
(Heating) — Indoor: 70˚FDB, 60˚FWB, Outdoor: 47˚FDB, 43˚FWB
*2: Rating conditions (Heating) — Indoor: 70˚FDB, 60˚FWB, Outdoor: 17˚FDB, 15˚FWB
*3: Test condition (Refer to page 17.)
*4: Test condition (Refer to page 17.)

Outdoor unit model			MUZ-GX30NL	MUY-GX30NL	MUZ-GX36NL	MUY-GX36NL
Capacity Rated (Minimum – Maximum)	Cooling *1	Btu/h	30,600 (10,300 – 30,600)	30,600 (10,300 – 30,600)	33,800 (10,300 – 33,800)	33,800 (10,300 – 33,800)
	Heating 47 *1	Btu/h	32,600 (9,800 – 34,000)	—	35,200 (9,800 – 36,000)	—
Capacity Rated (Maximum)	Heating 17 *2	Btu/h	21,200 (26,000)	—	22,600 (26,400)	—
Power consumption Rated (Minimum – Maximum)	Cooling *1	W	3,380 (650 – 3,380)	3,380 (650 – 3,380)	4,020 (650 – 4,020)	4,020 (650 – 4,020)
	Heating 47 *1	W	3,360 (590 – 4,000)	—	3,840 (590 – 4,000)	—
Power consumption Rated (Maximum)	Heating 17 *2	W	2,500 (3,320)	—	2,770 (3,470)	—
EER2 *1 [SEER2] *3	Cooling		9.05 [19.2]	9.05 [19.2]	8.4 [18.5]	8.4 [18.5]
HSPF2 Region IV*4	Heating		8.9	—	8.5	—
COP	Heating *1		2.84	—	2.69	—
Power factor	Cooling	%	99	99	98	98
	Heating	%	98	—	98	—
Power supply	V, phase, Hz		208/230, 1, 60	208/230, 1, 60	208/230, 1, 60	208/230, 1, 60
Max. fuse size (time delay)		A	25	25	25	25
Min. circuit ampacity		A	23	23	23	23
Fan motor	F.L.A	A	0.76	0.76	0.76	0.76
Compressor	Model		SRB172FQHMC/ SRB172FQHMT	SRB172FQHMC/ SRB172FQHMT	SRB172FQHMC/ SRB172FQHMT	SRB172FQHMC/ SRB172FQHMT
	R.L.A	A	13.9	13.9	13.9	13.9
	L.R.A	A	17.4	17.4	17.4	17.4
	Refrigeration oil	fl oz. (L) (Model)	14.5 (0.43)/ (RM68EH)	14.5 (0.43)/ (RM68EH)	14.5 (0.43)/ (RM68EH)	14.5 (0.43)/ (RM68EH)
Refrigerant control			Linear expansion valve	Linear expansion valve	Linear expansion valve	Linear expansion valve
Sound level *1	Cooling	dB(A)	57	57	57	57
	Heating	dB(A)	57	—	57	—
Airflow High - Med. - Low	Cooling	CFM	2,202 – 2,202 – 977	2,202 – 2,202 – 977	2,202 – 2,202 – 977	2,202 – 2,202 – 977
	Heating	CFM	1,934 – 1,934 – 1,281	—	1,934 – 1,934 – 1,281	—
Fan speed High - Med. - Low	Cooling	rpm	900 – 900 – 450	900 – 900 – 450	900 – 900 – 450	900 – 900 – 450
	Heating	rpm	800 – 800 – 560	—	800 – 800 – 560	—
Defrost method			Reverse cycle	—	Reverse cycle	—
Dimensions	W	in.	33-1/16	33-1/16	33-1/16	33-1/16
	D	in.	13	13	13	13
	H	in.	34-5/8	34-5/8	34-5/8	34-5/8
Weight		lb.	116	116	116	116
External finish			Munsell 3Y 7.8/1.1	Munsell 3Y 7.8/1.1	Munsell 3Y 7.8/1.1	Munsell 3Y 7.8/1.1
Remote controller			Wireless type	Wireless type	Wireless type	Wireless type
Control voltage (by built-in transformer)		V DC	12 – 24	12 – 24	12 – 24	12 – 24
Refrigerant piping			Not supplied	Not supplied	Not supplied	Not supplied
Refrigerant pipe size (Min. wall thickness)	Liquid	in.	1/4 (0.0315)	1/4 (0.0315)	1/4 (0.0315)	1/4 (0.0315)
	Gas	in.	5/8 (0.0394)	5/8 (0.0394)	5/8 (0.0394)	5/8 (0.0394)
Connection method	Indoor		Flared	Flared	Flared	Flared
	Outdoor		Flared	Flared	Flared	Flared
Between the indoor & outdoor units	Height difference	ft.	50	50	50	50
	Piping length	ft.	100	100	100	100
Refrigerant charge (R454B)			3lbs.12oz	3lbs.12oz	3lbs.12oz	3lbs.12oz

NOTE: Test conditions are based on AHRI 210/240.

*1: Rating conditions (Cooling) — Indoor: 80˚FDB, 67˚FWB, Outdoor: 95˚FDB, (75˚FWB)
(Heating) — Indoor: 70˚FDB, 60˚FWB, Outdoor: 47˚FDB, 43˚FWB

*2: Rating conditions (Heating) — Indoor: 70˚FDB, 60˚FWB, Outdoor: 17˚FDB, 15˚FWB

*3: Test condition (Refer to page 17.)

*4: Test condition (Refer to page 17.)

Test condition

*3, *4

AHRI 210/240	Mode	Test	Indoor air condition (°F)		Outdoor air condition (°F)	
			Dry bulb	Wet bulb	Dry bulb	Wet bulb
	SEER (Cooling)	"A-Full" Cooling Steady State at rated compressor speed	80	67	95	(75)
		"B-Full" Cooling Steady State at rated compressor speed	80	67	82	(65)
		"B-Low" Cooling Steady State at minimum compressor speed	80	67	82	(65)
		"F-Low" Cooling Steady State at minimum compressor speed	80	67	67	(53.5)
		"E-Int" Cooling Steady State at intermediate compressor speed *5	80	67	87	(69)
	HSPF (Heating)	"H1-Nom" Heating Steady State at rated compressor speed	70	60	47	43
		"H3-Full" Heating at rated compressor speed	70	60	17	15
		"H0-Low" Heating Steady State at minimum compressor speed	70	60	62	56.5
		"H1-Low" Heating Steady State at minimum compressor speed	70	60	47	43
		"H2-Int" Heating at intermediate compressor speed *5	70	60	35	33

*5: At intermediate compressor speed
= ("Rated compressor speed" - "minimum compressor speed") / 3 + "minimum compressor speed".

OPERATING RANGE

(1) POWER SUPPLY

	Rated voltage	Guaranteed voltage (V)
Outdoor unit	208/230 V 1 phase 60 Hz	Min. 187 208 230 Max. 253

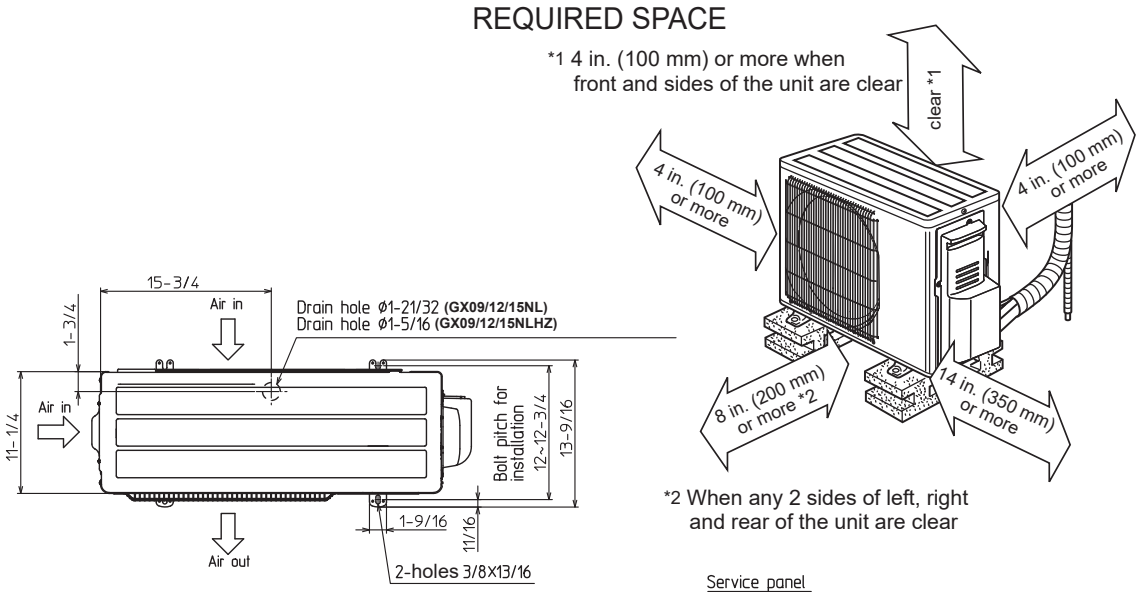
(2) OPERATION

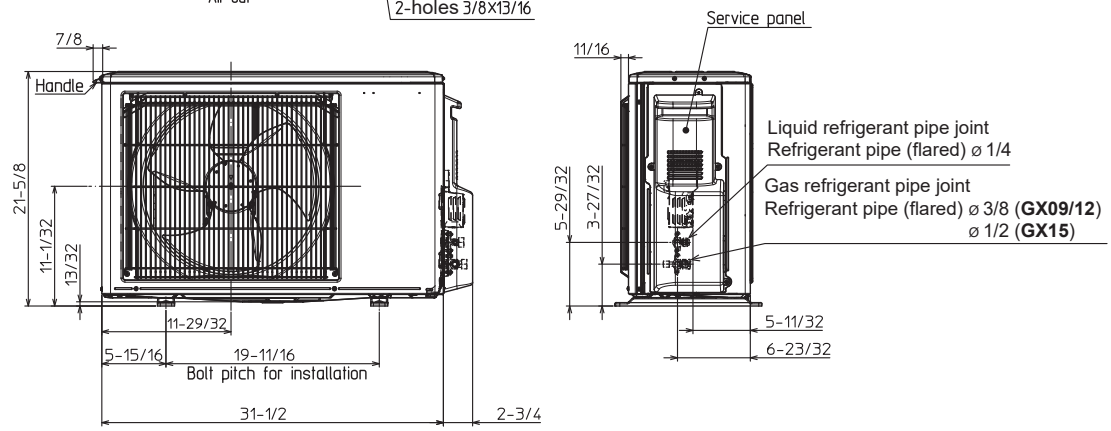
Mode	Condition	Intake air temperature (°F)	
		Outdoor	
		DB	WB
Cooling	Standard temperature	95	—
	Maximum temperature	115	—
	Minimum temperature	14	—
	Maximum humidity	—	
Heating	Standard temperature	47	43
	Maximum temperature	75	65
	Minimum temperature	**NL:** -5 **NLHZ:** -22	**NL:** -6 **NLHZ:** -23

5 OUTLINES AND DIMENSIONS

MUZ-GX09NL MUZ-GX12NL MUZ-GX15NL
MUY-GX09NL MUY-GX12NL MUY-GX15NL
MUZ-GX09NLHZ MUZ-GX12NLHZ MUZ-GX15NLHZ

Unit: inch





MUZ-GX09/12NL MUZ-GX09/12NLHZ
MUY-GX09/12NL

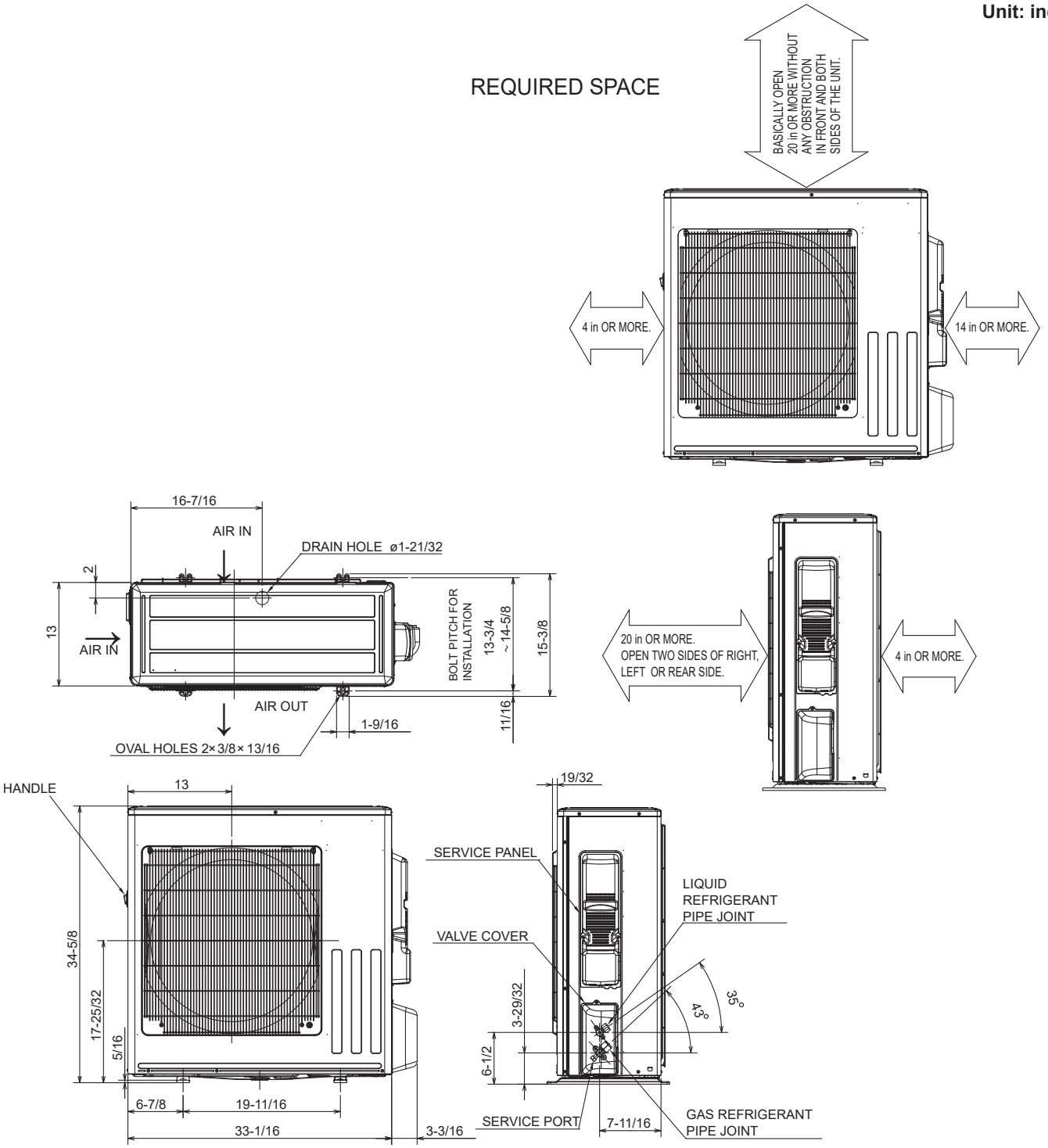
REFRIGERANT PIPE JOINT	LIQUID REFRIGERANT PIPE	FLARED 1/4"
	GAS REFRIGERANT PIPE	FLARED 3/8"

MUZ-GX15NL MUZ-GX15NLHZ
MUY-GX15NL

REFRIGERANT PIPE JOINT	LIQUID REFRIGERANT PIPE	FLARED 1/4"
	GAS REFRIGERANT PIPE	FLARED 1/2"

MUZ-GX18NL MUZ-GX24NL MUZ-GX30NL MUZ-GX36NL
MUY-GX18NL MUY-GX24NL MUY-GX30NL MUY-GX36NL
MUZ-GX18NLHZ MUZ-GX24NLHZ

Unit: inch



MUZ-GX18NL MUZ-GX18NLHZ
MUY-GX18NL

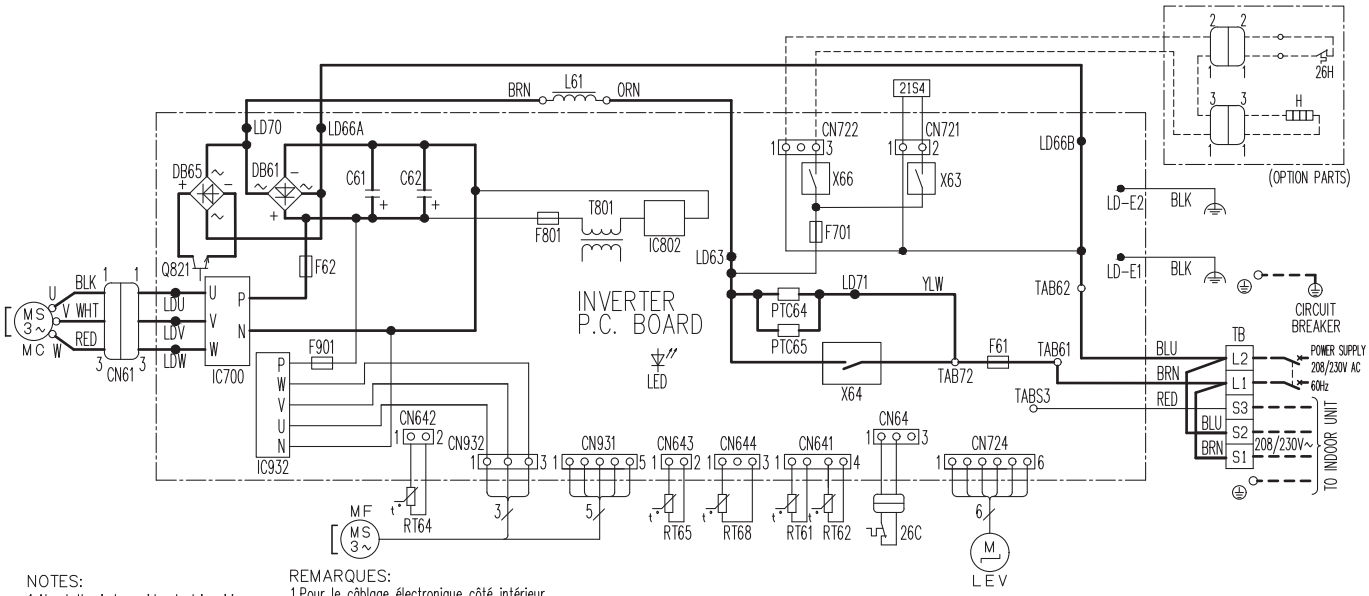
REFRIGERANT PIPE JOINT	LIQUID REFRIGERANT PIPE	FLARED 1/4"
	GAS REFRIGERANT PIPE	FLARED 1/2"

MUZ-GX24/30/36NL MUZ-GX24NLHZ
MUY-GX24/30/36NL

REFRIGERANT PIPE JOINT	LIQUID REFRIGERANT PIPE	FLARED 1/4"
	GAS REFRIGERANT PIPE	FLARED 5/8"

6 WIRING DIAGRAM

MUZ-GX09NL MUZ-GX12NL MUZ-GX15NL

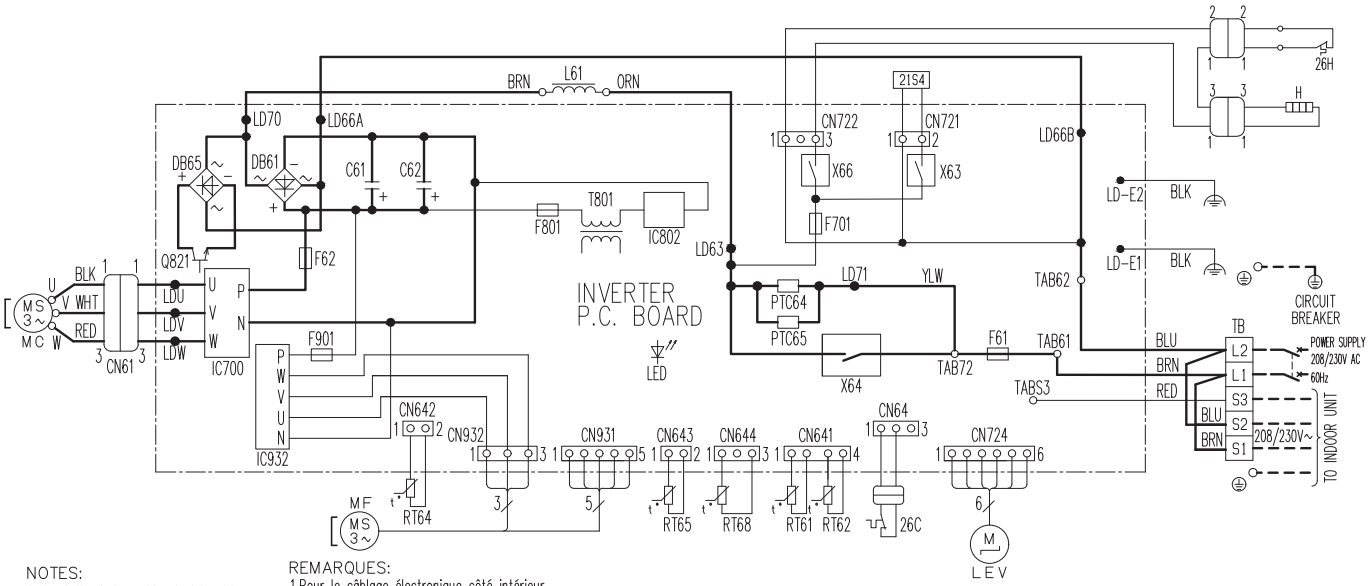


NOTES:
1.About the indoor side electric wiring, refer to the indoor unit electric wiring diagram for servicing.
2.Use copper supply wires.
3.Symbols indicate, ☐☐☐ : Terminal block
⊙⊙⊙ : Connector

REMARQUES:
1.Pour le câblage électronique côté intérieur, se reporter au schéma d'entretien du câblage électronique de l'appareil interieur.
2.Utiliser des fils d'alimentation en cuivre.
3.Les symboles ont les significations suivantes, ☐☐☐ : Borne
⊙⊙⊙ : Connecteur

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

MUZ-GX09NLHZ MUZ-GX12NLHZ MUZ-GX15NLHZ



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
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REMARQUES:
1. Pour le câblage électronique côté intérieur, se reporter au schéma d'entretien du câblage électronique de l'appareil interieur.
2. Utiliser des fils d'alimentation en cuivre.
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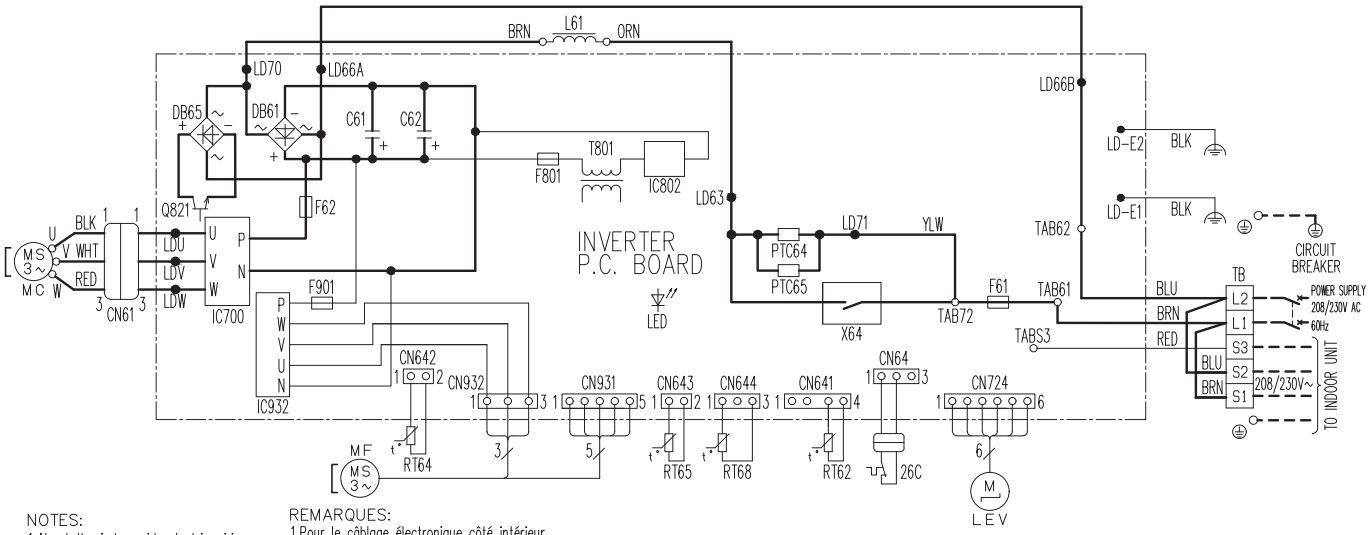
   ⊙⊙⊙ : Connecteur

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

MUY-GX09NL MUY-GX12NL MUY-GX15NL

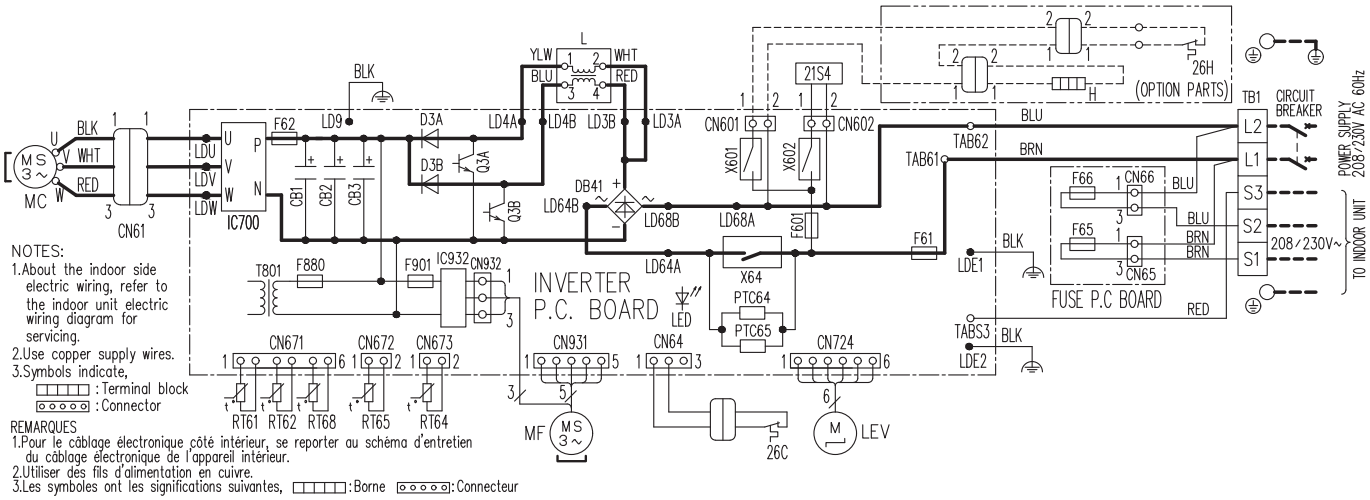


NOTES:
1.About the indoor side electric wiring, refer to the indoor unit electric wiring diagram for servicing.
2.Use copper supply wires.
3.Symbols indicate, ⊟⊟⊟ : Terminal block
⊙⊙⊙ : Connector

REMARQUES:
1.Pour le câblage électronique côté intérieur, se reporter au schéma d'entretien du câblage électronique de l'appareil interieur.
2.Utiliser des fils d'alimentation en cuivre.
3.Les symboles ont les significations suivantes, ⊟⊟⊟ : Borne
⊙⊙⊙ : Connecteur

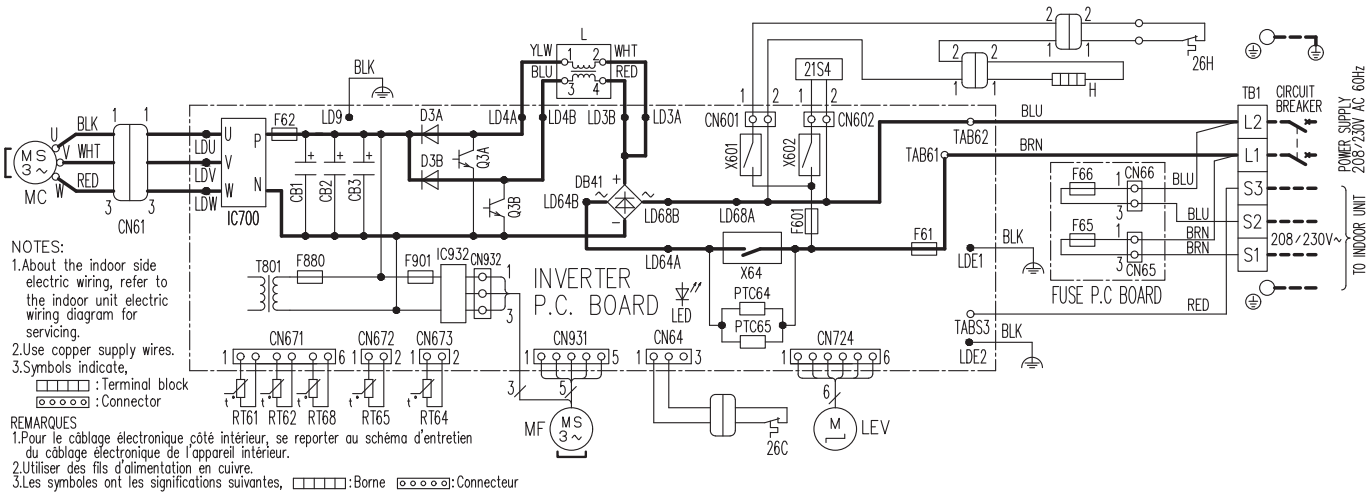
SYMBOL	NAME	SYMBOL	NAME	SYMBOL	NAME
CN61	CONNECTOR	L61	REACTOR	TB	TERMINAL BLOCK
C61,C62	SMOOTHING CAPACITOR	MC	COMPRESSOR	T801	TRANSFORMER
DB61,DB65	DIODE MODULE	MF	FAN MOTOR	X64	RELAY
F61	FUSE (25A 250V)	PTC64,PTC65	CIRCUIT PROTECTION	26C	COMPRESSOR PROTECTOR
F62	FUSE (15A 250V)	Q821	SWITCHING POWER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

MUZ-GX18NL MUZ-GX24NL MUZ-GX30NL MUZ-GX36NL



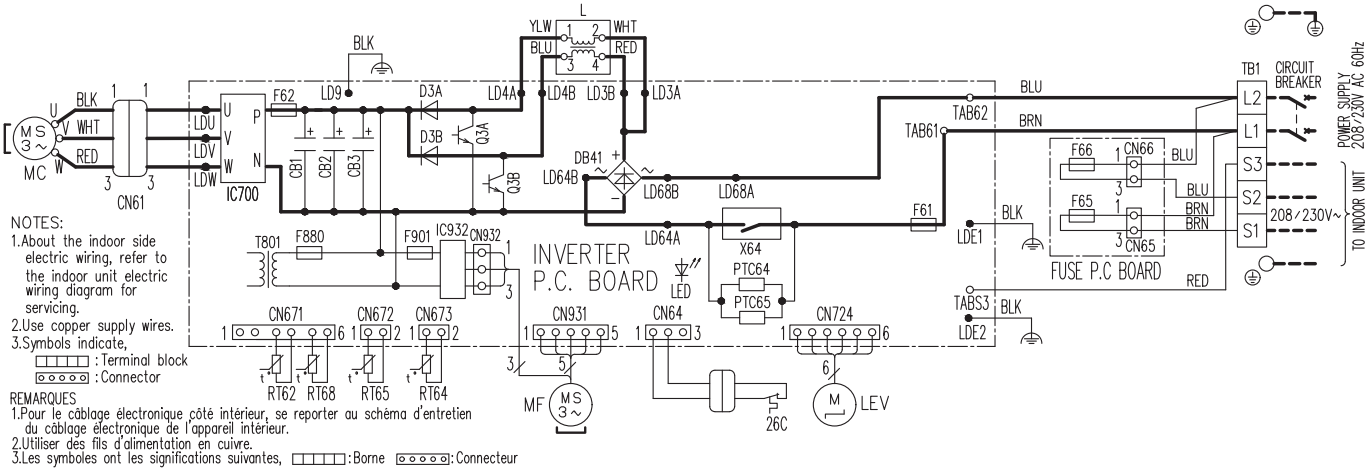
SYMBOL	NAME	SYMBOL	NAME	SYMBOL	NAME
CB1,CB2,CB3	SMOOTHING CAPACITOR	L	REACTOR	RT65	AMBIENT TEMP. THERMISTOR
CN61	CONNECTOR	LED	LED	RT68	OUTDOOR HEAT EXCHANGER TEMP. THERMISTOR
DB41	DIODE MODULE	LEV	EXPANSION VALVE COIL		
D3A,D3B	DIODE	MC	COMPRESSOR	TB1	TERMINAL BLOCK
F61	FUSE (25A 250V)	MF	FAN MOTOR	T801	TRANSFORMER
F62	FUSE (15A 250V)	PTC64,PTC65	CIRCUIT PROTECTION	X64,X601,X602	RELAY
F65,F66	FUSE (T6.3AL250V)	Q3A,Q3B	SWITCHING POWER TRANSISTOR	21S4	REVERSING VALVE COIL
F601,F880,F901	FUSE (T3.15AL250V)	RT61	DEFROST TEMP. THERMISTOR	26C	COMPRESSOR PROTECTOR
H	DEFROST HEATER (OPTION PARTS)	RT62	DISCHARGE TEMP. THERMISTOR	26H	HEATER PROTECTOR (OPTION PARTS)
IC700,IC932	POWER MODULE	RT64	FIN TEMP. THERMISTOR		

MUZ-GX18NLHZ MUZ-GX24NLHZ



SYMBOL	NAME	SYMBOL	NAME	SYMBOL	NAME
CB1,CB2,CB3	SMOOTHING CAPACITOR	L	REACTOR	RT65	AMBIENT TEMP. THERMISTOR
CN61	CONNECTOR	LED	LED	RT68	OUTDOOR HEAT EXCHANGER TEMP. THERMISTOR
DB41	DIODE MODULE	LEV	EXPANSION VALVE COIL		
D3A,D3B	DIODE	MC	COMPRESSOR	TB1	TERMINAL BLOCK
F61	FUSE (25A 250V)	MF	FAN MOTOR	T801	TRANSFORMER
F62	FUSE (15A 250V)	PTC64,PTC65	CIRCUIT PROTECTION	X64,X601,X602	RELAY
F65,F66	FUSE (T6.3AL250V)	Q3A,Q3B	SWITCHING POWER TRANSISTOR	21S4	REVERSING VALVE COIL
F601,F880,F901	FUSE (T3.15AL250V)	RT61	DEFROST TEMP. THERMISTOR	26C	COMPRESSOR PROTECTOR
H	DEFROST HEATER	RT62	DISCHARGE TEMP. THERMISTOR	26H	HEATER PROTECTOR
IC700,IC932	POWER MODULE	RT64	FIN TEMP. THERMISTOR		

MUY-GX18NL MUY-GX24NL MUY-GX30NL MUY-GX36NL

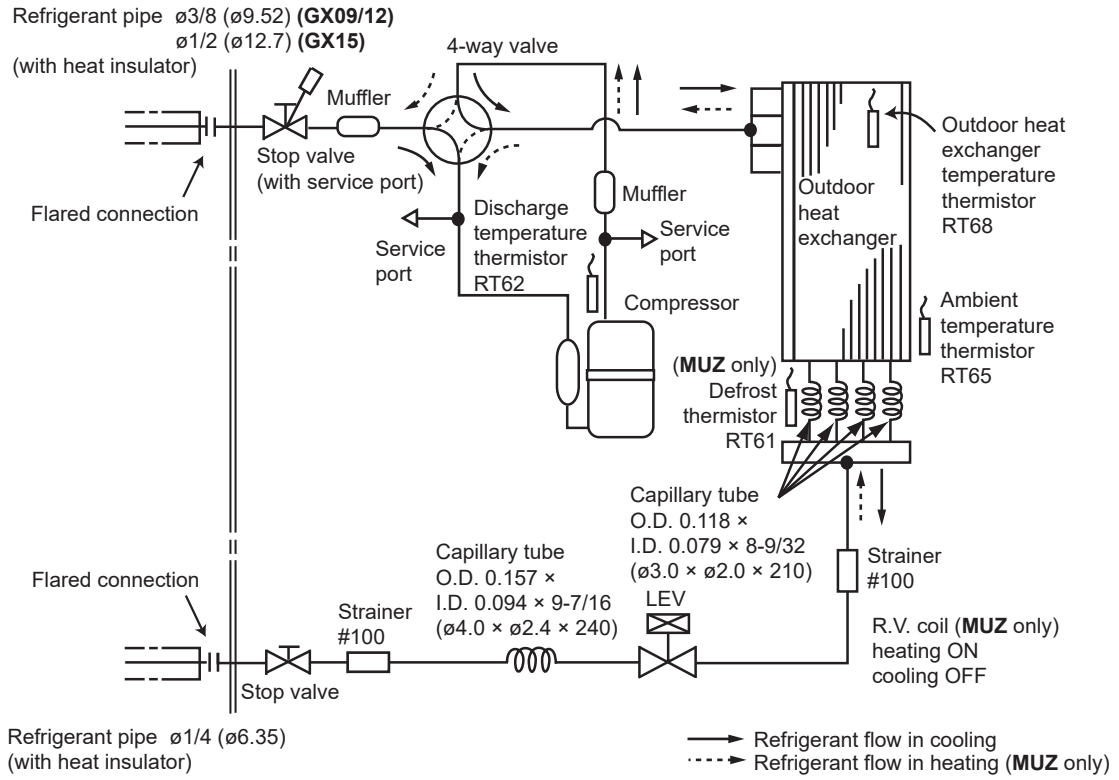


SYMBOL	NAME	SYMBOL	NAME	SYMBOL	NAME
CB1,CB2,CB3	SMOOTHING CAPACITOR	L	REACTOR	RT65	AMBIENT TEMP. THERMISTOR
CN61	CONNECTOR	LED	LED	RT68	OUTDOOR HEAT EXCHANGER TEMP. THERMISTOR
DB41	DIODE MODULE	LEV	EXPANSION VALVE COIL		
D3A,D3B	DIODE	MC	COMPRESSOR	TB1	TERMINAL BLOCK
F61	FUSE (25A 250V)	MF	FAN MOTOR	T801	TRANSFORMER
F62	FUSE (15A 250V)	PTC64,PTC65	CIRCUIT PROTECTION	X64	RELAY
F65,F66	FUSE (T6.3AL250V)	Q3A,Q3B	SWITCHING POWER TRANSISTOR	26C	COMPRESSOR PROTECTOR
F880,F901	FUSE (T3.15AL250V)	RT62	DISCHARGE TEMP. THERMISTOR		
IC700,IC932	POWER MODULE	RT64	FIN TEMP. THERMISTOR		

7 REFRIGERANT SYSTEM DIAGRAM

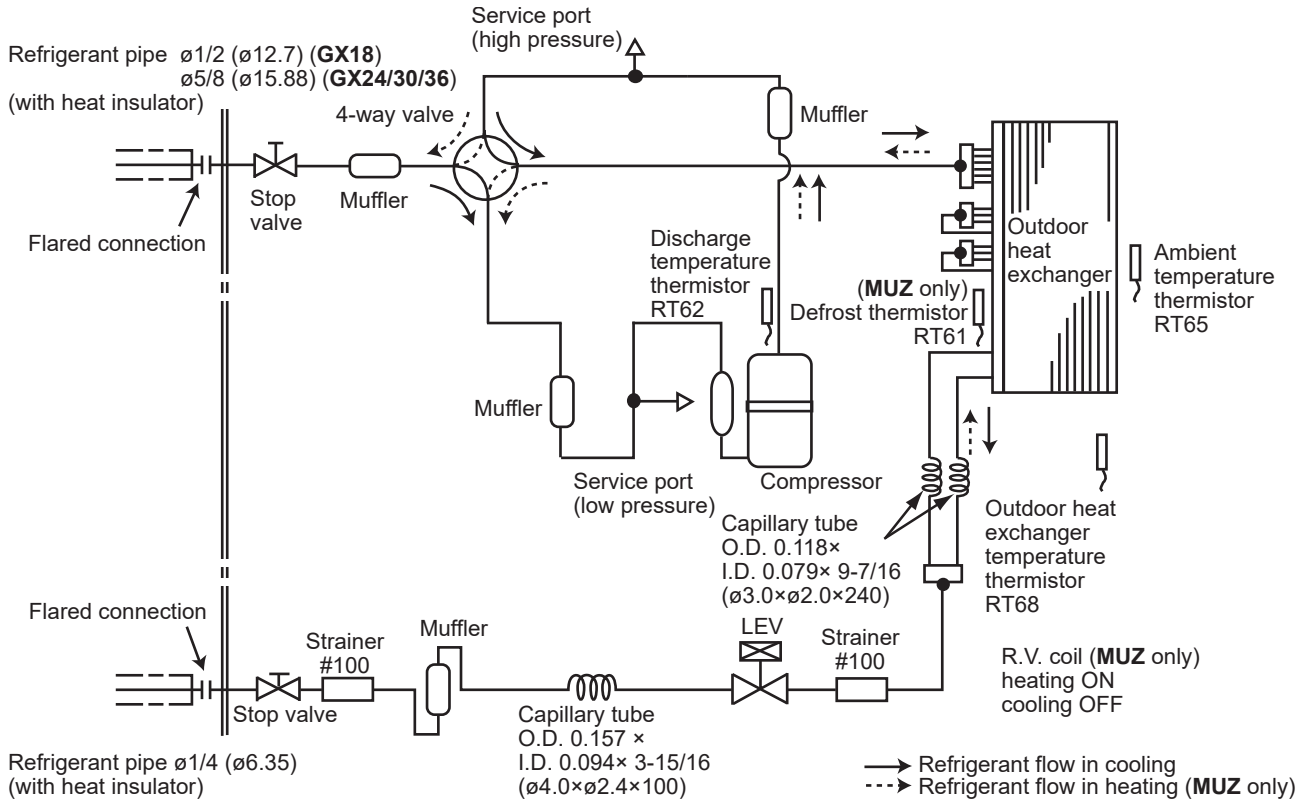
MUZ-GX09NL MUZ-GX12NL MUZ-GX15NL
MUY-GX09NL MUY-GX12NL MUY-GX15NL
MUZ-GX09NLHZ MUZ-GX12NLHZ MUZ-GX15NLHZ

Unit: Inch (mm)



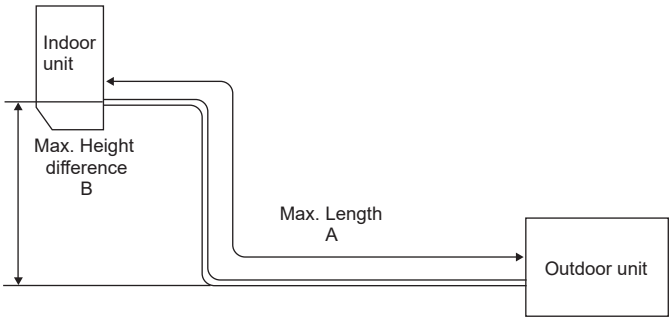
MUZ-GX18NL **MUZ-GX24NL** **MUZ-GX30NL** **MUZ-GX36NL**
MUY-GX18NL **MUY-GX24NL** **MUY-GX30NL** **MUY-GX36NL**
MUZ-GX18NLHZ **MUZ-GX24NLHZ**

Unit: Inch (mm)



MAX. REFRIGERANT PIPING LENGTH and MAX. HEIGHT DIFFERENCE

Model	Refrigerant piping: ft.		Piping size O.D: in.	
	Max. Length A	Max. Height difference B	Gas	Liquid
MUZ-GX09NL **MUZ-GX09NLHZ** **MUY-GX09NL** **MUZ-GX12NL** **MUZ-GX12NLHZ** **MUY-GX12NL**	65	40	3/8	1/4
MUZ-GX15NL **MUZ-GX15NLHZ** **MUY-GX15NL**	65	40	1/2	1/4
MUZ-GX18NL **MUZ-GX18NLHZ** **MUY-GX18NL**	100	50	1/2	1/4
MUZ-GX24NL **MUZ-GX24NLHZ** **MUY-GX24NL** **MUZ-GX30NL** **MUY-GX30NL** **MUZ-GX36NL** **MUY-GX36NL**	100	50	5/8	1/4



8 DATA

MUZ-GX09NL MUZ-GX12NL MUZ-GX15NL
MUZ-GX18NL MUZ-GX24NL MUZ-GX30NL MUZ-GX36NL
MUY-GX09NL MUY-GX12NL MUY-GX15NL
MUY-GX18NL MUY-GX24NL MUY-GX30NL MUY-GX36NL
MUZ-GX09NLHZ MUZ-GX12NLHZ MUZ-GX15NLHZ
MUZ-GX18NLHZ MUZ-GX24NLHZ

8-1. PERFORMANCE DATA

1) COOLING CAPACITY

Model	Indoor air IWB (˚F)	Outdoor intake air DB temperature (˚F)											
		75				85				95			
		TC	SHC	SHF	TPC	TC	SHC	SHF	TPC	TC	SHC	SHF	TPC
MUZ-GX09NL MUZ-GX09NLHZ MUY-GX09NL	71	11.0	8.5	0.77	0.52	10.3	7.9	0.77	0.57	9.7	7.4	0.77	0.61
	67	10.4	9.4	0.90	0.49	9.7	8.7	0.90	0.54	9.0	8.1	0.90	0.59
	63	9.8	10.1	1.03	0.47	9.1	9.4	1.03	0.52	8.5	8.7	1.03	0.56
MUZ-GX12NL MUY-GX12NL	71	14.7	9.4	0.64	0.80	13.7	8.7	0.64	0.88	12.9	8.2	0.64	0.95
	67	13.9	10.7	0.77	0.76	13.0	10.0	0.77	0.83	12.0	9.2	0.77	0.90
	63	13.1	11.8	0.90	0.72	12.1	10.9	0.90	0.80	11.3	10.2	0.90	0.86
MUZ-GX12NLHZ	71	14.7	9.5	0.65	0.80	13.7	8.9	0.65	0.88	12.9	8.3	0.65	0.95
	67	13.9	10.9	0.78	0.76	13.0	10.1	0.78	0.83	12.0	9.4	0.78	0.90
	63	13.1	11.9	0.91	0.72	12.1	11.1	0.91	0.80	11.3	10.3	0.91	0.86
MUZ-GX15NL MUZ-GX15NLHZ MUY-GX15NL	71	17.2	11.8	0.69	0.96	16.0	11.0	0.69	1.05	15.1	10.3	0.69	1.13
	67	16.2	13.3	0.82	0.90	15.1	12.4	0.82	0.99	14.0	11.5	0.82	1.08
	63	15.3	14.5	0.95	0.86	14.1	13.5	0.95	0.95	13.2	12.5	0.95	1.03
MUZ-GX18NL MUZ-GX18NLHZ MUY-GX18NL	71	22.1	14.5	0.66	1.14	20.6	13.5	0.66	1.25	19.4	12.7	0.66	1.34
	67	20.9	16.5	0.79	1.08	19.4	15.4	0.79	1.18	18.0	14.2	0.79	1.28
	63	19.6	18.1	0.92	1.02	18.2	16.8	0.92	1.13	16.9	15.6	0.92	1.22
MUZ-GX24NL MUZ-GX24NLHZ MUY-GX24NL	71	27.4	17.7	0.65	1.53	25.6	16.6	0.65	1.68	24.1	15.6	0.65	1.81
	67	26.0	20.3	0.78	1.44	24.2	18.9	0.78	1.59	22.4	17.5	0.78	1.72
	63	24.4	22.3	0.91	1.38	22.6	20.7	0.91	1.52	21.1	19.2	0.91	1.64
MUZ-GX30NL MUY-GX30NL	71	37.5	21.2	0.57	3.01	35.0	19.9	0.57	3.30	32.9	18.6	0.57	3.55
	67	35.5	24.8	0.70	2.84	33.0	23.1	0.70	3.13	30.6	21.4	0.70	3.38
	63	33.4	27.8	0.83	2.70	30.9	25.8	0.83	2.99	28.8	24.0	0.83	3.23
MUZ-GX36NL MUY-GX36NL	71	41.4	22.6	0.55	3.58	38.7	21.2	0.55	3.92	36.3	19.9	0.55	4.22
	67	39.2	26.7	0.68	3.38	36.5	24.8	0.68	3.72	33.8	23.0	0.68	4.02
	63	36.8	30.0	0.81	3.22	34.1	27.8	0.81	3.56	31.8	25.8	0.81	3.84

NOTE: 1. IWB : Intake air wet-bulb temperature TC : Total Capacity ($\times 10^3$ Btu/h)
SHC : Sensible Heat Capacity ($\times 10^3$ Btu/h) SHF : Sensible Heat Factor
TPC : Total Power Consumption (kW)
2. SHC is based on 80˚F of indoor Intake air DB temperature.

Model	Indoor air IWB (˚F)	Outdoor intake air DB temperature (˚F) 105 TC	105 SHC	105 SHF	105 TPC	115 TC	115 SHC	115 SHF	115 TPC
MUZ-GX09NL MUZ-GX09NLHZ MUY-GX09NL	71	9.0	6.9	0.77	0.65	8.3	6.3	0.77	0.67
	67	8.4	7.5	0.90	0.62	7.7	6.9	0.90	0.65
	63	7.7	8.0	1.03	0.60	7.0	7.3	1.03	0.62
MUZ-GX12NL MUY-GX12NL	71	12.0	7.6	0.64	0.99	11.0	7.0	0.64	1.04
	67	11.2	8.6	0.77	0.95	10.3	7.9	0.77	1.00
	63	10.3	9.3	0.90	0.92	9.4	8.5	0.90	0.95
MUZ-GX12NLHZ	71	12.0	7.8	0.65	0.99	11.0	7.1	0.65	1.04
	67	11.2	8.7	0.78	0.95	10.3	8.0	0.78	1.00
	63	10.3	9.4	0.91	0.92	9.4	8.5	0.91	0.95
MUZ-GX15NL MUZ-GX15NLHZ MUY-GX15NL	71	14.0	9.6	0.69	1.19	12.9	8.8	0.69	1.24
	67	13.0	10.7	0.82	1.14	12.0	9.8	0.82	1.19
	63	12.0	11.4	0.95	1.10	10.9	10.4	0.95	1.14
MUZ-GX18NL MUZ-GX18NLHZ MUY-GX18NL	71	18.0	11.8	0.66	1.41	16.6	10.9	0.66	1.47
	67	16.7	13.2	0.79	1.36	15.4	12.2	0.79	1.42
	63	15.4	14.2	0.92	1.31	14.0	13.0	0.92	1.36
MUZ-GX24NL MUZ-GX24NLHZ MUY-GX24NL	71	22.4	14.5	0.65	1.90	20.6	13.3	0.65	1.98
	67	20.8	16.2	0.78	1.82	19.2	14.9	0.78	1.91
	63	19.2	17.5	0.91	1.75	17.5	16.0	0.91	1.82
MUZ-GX30NL MUY-GX30NL	71	30.6	17.3	0.57	3.73	28.2	16.0	0.57	3.89
	67	28.5	19.9	0.70	3.58	26.2	18.3	0.70	3.75
	63	26.2	21.8	0.83	3.45	23.9	19.9	0.83	3.58
MUZ-GX36NL MUY-GX36NL	71	33.8	18.5	0.55	4.44	31.1	17.0	0.55	4.62
	67	31.4	21.4	0.68	4.26	28.9	19.7	0.68	4.46
	63	28.9	23.5	0.81	4.10	26.4	21.4	0.81	4.26

NOTE: 1. IWB : Intake air wet-bulb temperature TC : Total Capacity ($\times 10^3$ Btu/h)
SHC : Sensible Heat Capacity ($\times 10^3$ Btu/h) SHF : Sensible Heat Factor
TPC : Total Power Consumption (kW)
2. SHC is based on 80˚F of indoor Intake air DB temperature.

2) COOLING CAPACITY CORRECTIONS

Model	Refrigerant piping length (one way: ft.)			
	25 (std.)	40	65	100
MUZ-GX09NL **MUZ-GX09NLHZ** **MUY-GX09NL**	1.0	0.993	0.981	—
MUZ-GX12NL **MUZ-GX12NLHZ** **MUY-GX12NL**	1.0	0.987	0.967	—
MUZ-GX15NL **MUZ-GX15NLHZ** **MUY-GX15NL**	1.0	0.996	0.988	—
MUZ-GX18NL **MUZ-GX18NLHZ** **MUY-GX18NL**	1.0	0.994	0.983	0.969
MUZ-GX24NL **MUZ-GX24NLHZ** **MUY-GX24NL**	1.0	0.996	0.990	0.982
MUZ-GX30NL **MUY-GX30NL**	1.0	0.992	0.979	0.962
MUZ-GX36NL **MUY-GX36NL**	1.0	0.991	0.975	0.954

3) HEATING CAPACITY CORRECTIONS

Model	Refrigerant piping length (one way: ft.)			
	25 (std.)	40	65	100
MUZ-GX09NL **MUZ-GX09NLHZ** **MUZ-GX12NL** **MUZ-GX12NLHZ** **MUZ-GX15NL** **MUZ-GX15NLHZ**	1.0	0.997	0.993	—
MUZ-GX18NL **MUZ-GX18NLHZ** **MUZ-GX24NL** **MUZ-GX24NLHZ** **MUZ-GX30NL** **MUZ-GX36NL**	1.0	0.997	0.993	0.987

NOTE: 1. IDB : Intake air dry-bulb temperature
TC : Total Capacity ($\times 10^3$ Btu/h) TPC : Total Power Consumption (kW)
2. Above data is for heating operation without any frost.

4) HEATING CAPACITY

Model	Indoor air	Outdoor intake air WB temperature (˚F)													
	IDB (˚F)	5		15		25		35		43		45		55	
		TC	TPC	TC	TPC	TC	TPC	TC	TPC	TC	TPC	TC	TPC	TC	TPC
MUZ-GX09NL	75	4.8	0.42	6.3	0.54	7.9	0.63	9.4	0.70	10.6	0.74	11.0	0.75	12.4	0.78
	70	5.2	0.41	6.7	0.52	8.2	0.62	9.6	0.68	10.9	0.72	11.2	0.73	12.7	0.76
	65	5.5	0.39	6.9	0.50	8.6	0.59	10.0	0.67	11.2	0.70	11.6	0.71	13.0	0.75
MUZ-GX09NLHZ	75	4.2	0.40	5.6	0.49	7.0	0.57	8.3	0.57	9.4	0.59	9.6	0.60	10.9	0.63
	70	4.6	0.39	5.9	0.48	7.2	0.56	8.5	0.55	9.6	0.58	9.9	0.59	11.2	0.61
	65	4.8	0.37	6.0	0.46	7.5	0.54	8.8	0.54	9.9	0.57	10.2	0.57	11.4	0.60
MUZ-GX12NL	75	6.3	0.65	8.4	0.82	10.4	0.96	12.5	1.07	14.0	1.13	14.5	1.14	16.4	1.19
	70	6.8	0.62	8.9	0.79	10.8	0.94	12.7	1.05	14.4	1.10	14.8	1.12	16.8	1.17
	65	7.2	0.59	9.1	0.76	11.3	0.91	13.2	1.02	14.8	1.07	15.3	1.09	17.1	1.14
MUZ-GX12NLHZ	75	5.4	0.60	7.1	0.75	8.9	0.87	10.6	0.90	12.0	0.94	12.4	0.96	14.0	0.99
	70	5.8	0.58	7.6	0.72	9.2	0.85	10.9	0.87	12.3	0.92	12.7	0.94	14.3	0.98
	65	6.2	0.56	7.7	0.69	9.7	0.82	11.3	0.85	12.7	0.90	13.0	0.91	14.6	0.96
MUZ-GX15NL	75	7.9	0.94	10.4	1.19	13.1	1.40	15.6	1.56	17.6	1.64	18.1	1.66	20.5	1.73
	70	8.6	0.90	11.1	1.15	13.5	1.37	15.9	1.52	18.0	1.60	18.5	1.63	21.0	1.70
	65	9.0	0.86	11.3	1.10	14.1	1.32	16.5	1.48	18.5	1.56	19.1	1.58	21.4	1.66
MUZ-GX15NLHZ	75	6.2	0.71	8.1	0.88	10.2	1.02	12.1	1.07	13.7	1.13	14.1	1.14	16.0	1.19
	70	6.7	0.68	8.6	0.85	10.5	1.00	12.4	1.05	14.0	1.10	14.4	1.12	16.3	1.17
	65	7.0	0.65	8.8	0.82	11.0	0.97	12.8	1.02	14.4	1.07	14.8	1.09	16.7	1.14
MUZ-GX18NL	75	9.5	0.99	12.5	1.25	15.7	1.47	18.7	1.64	21.1	1.72	21.7	1.75	24.6	1.81
	70	10.3	0.95	13.3	1.21	16.2	1.44	19.1	1.60	21.6	1.68	22.2	1.71	25.2	1.78
	65	10.8	0.91	13.6	1.16	17.0	1.39	19.8	1.55	22.2	1.64	22.9	1.66	25.7	1.75
MUZ-GX18NLHZ	75	8.4	0.91	11.0	1.12	13.8	1.29	16.4	1.31	18.5	1.37	19.1	1.39	21.7	1.45
	70	9.0	0.88	11.7	1.08	14.3	1.27	16.8	1.27	19.0	1.34	19.6	1.37	22.1	1.42
	65	9.5	0.84	12.0	1.04	14.9	1.23	17.4	1.24	19.6	1.31	20.1	1.33	22.6	1.39
MUZ-GX24NL	75	12.1	1.38	16.0	1.74	20.0	2.05	23.9	2.28	26.9	2.40	27.7	2.43	31.5	2.53
	70	13.1	1.32	17.0	1.68	20.7	2.00	24.4	2.22	27.6	2.34	28.4	2.39	32.2	2.48
	65	13.8	1.26	17.4	1.61	21.7	1.93	25.3	2.16	28.4	2.28	29.3	2.32	32.8	2.43
MUZ-GX24NLHZ	75	9.3	1.01	12.3	1.24	15.4	1.43	18.3	1.46	20.7	1.54	21.3	1.56	24.2	1.62
	70	10.1	0.97	13.0	1.20	15.9	1.40	18.8	1.43	21.2	1.50	21.8	1.53	24.7	1.59
	65	10.6	0.93	13.4	1.16	16.6	1.36	19.4	1.39	21.8	1.46	22.5	1.49	25.2	1.56
MUZ-GX30NL	75	14.3	1.98	18.9	2.50	23.6	2.94	28.2	3.28	31.8	3.44	32.8	3.49	37.2	3.63
	70	15.5	1.90	20.0	2.42	24.5	2.87	28.9	3.19	32.6	3.36	33.6	3.43	38.0	3.56
	65	16.3	1.81	20.5	2.32	25.6	2.77	29.8	3.11	33.6	3.28	34.6	3.33	38.8	3.49
MUZ-GX36NL	75	15.5	2.27	20.4	2.86	25.5	3.36	30.4	3.74	34.3	3.94	35.4	3.99	40.1	4.15
	70	16.7	2.17	21.6	2.76	26.4	3.28	31.2	3.65	35.2	3.84	36.3	3.92	41.0	4.07
	65	17.6	2.07	22.2	2.65	27.6	3.17	32.2	3.55	36.3	3.74	37.3	3.80	41.9	3.99

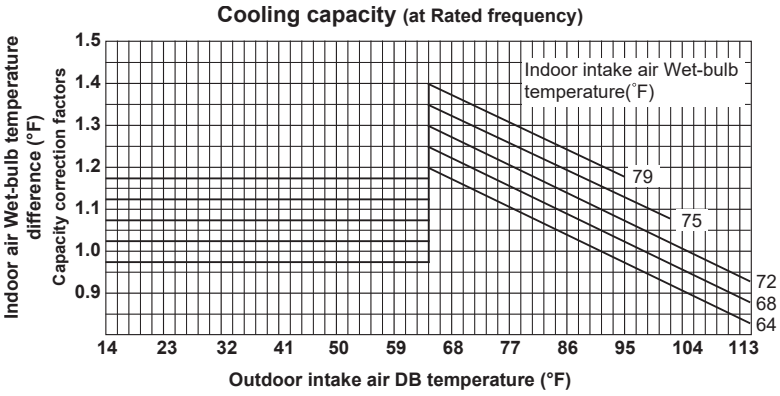
NOTE: 1. IDB : Intake air dry-bulb temperature
TC : Total Capacity ($\times 10^3$ Btu/h) TPC : Total Power Consumption (kW)
2. Above data is for heating operation without any frost.

How to operate with fixed operational frequency of the compressor

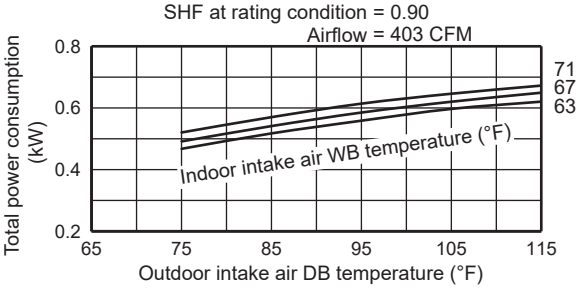
1. Press the emergency operation switch on the front of the indoor unit, and select either EMERGENCY COOL mode or EMERGENCY HEAT mode before starting to operate the air conditioner.
2. The compressor starts with operational frequency.
3. The fan speed of the indoor unit is High.
4. This operation continues for 30 minutes.
5. In order to release this operation, press the emergency operation switch twice or once, or press any button on the remote controller.

8-2. PERFORMANCE CURVE

Cooling



MUZ-GX09NL MUZ-GX09NLHZ
MUY-GX09NL



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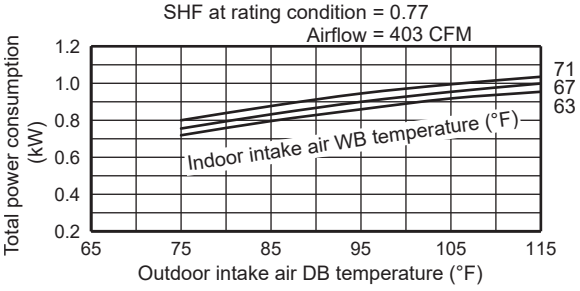

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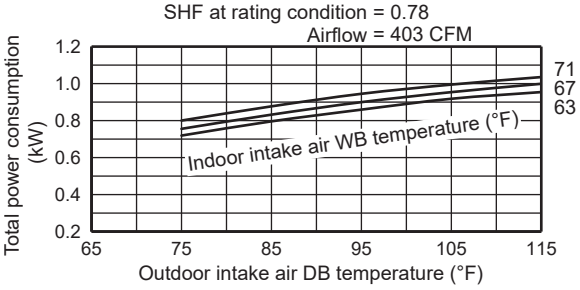
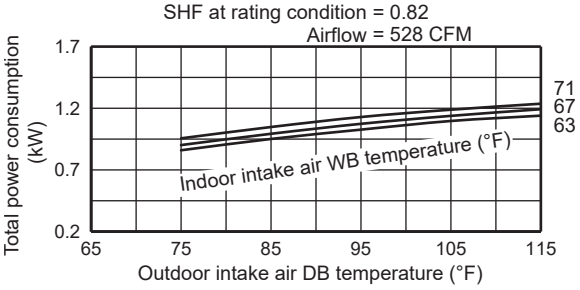
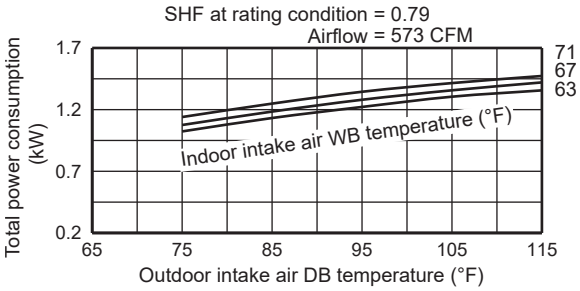


MUZ-GX15NL MUZ-GX15LHZ
MUY-GX15NL

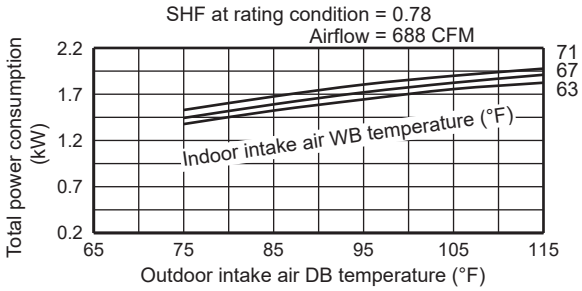


This value of frequency is not the same as the actual frequency in operating. Refer to 8-5 and 8-6 for the relationships between frequency and capacity.

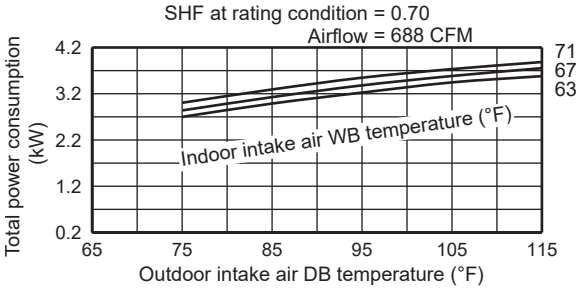
MUZ-GX18NL MUZ-GX18NLHZ
MUY-GX18NL



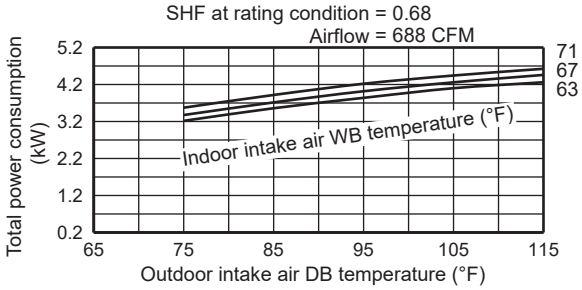
MUZ-GX24NL MUZ-GX24NLHZ
MUY-GX24NL



MUZ-GX30NL
MUY-GX30NL

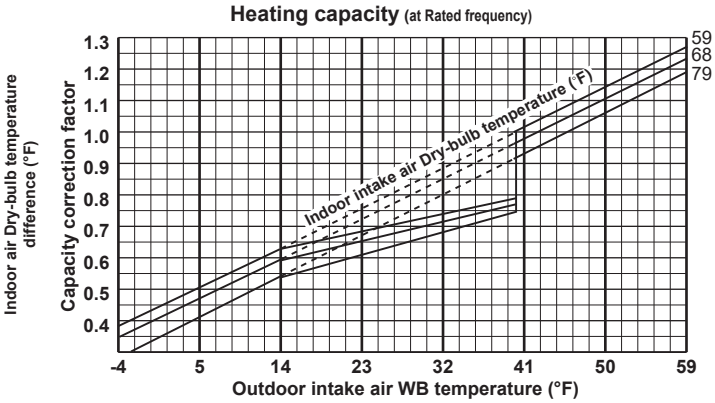


MUZ-GX36NL
MUY-GX36NL

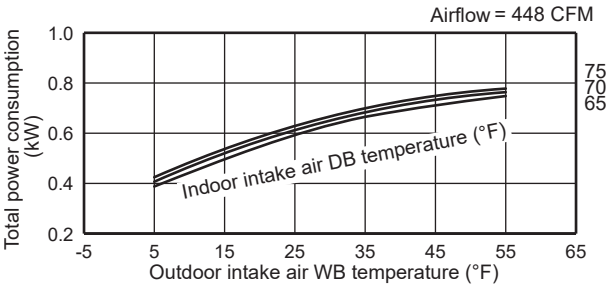


This value of frequency is not the same as the actual frequency in operating. Refer to 8-5 and 8-6 for the relationships between frequency and capacity.

Heating



MUZ-GX09NL



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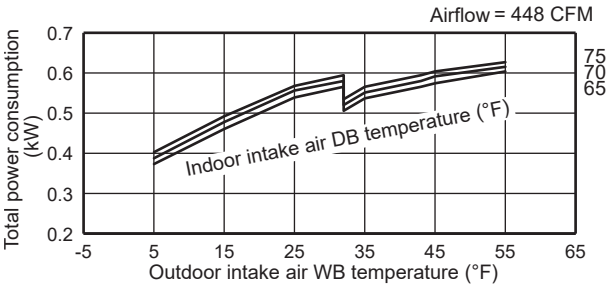

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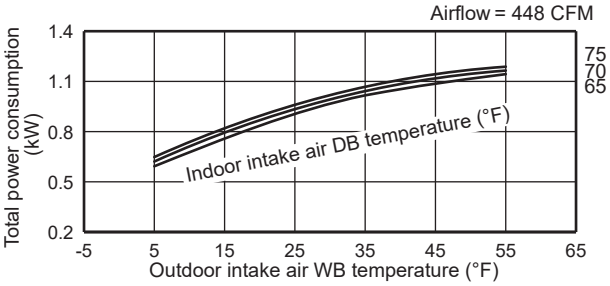

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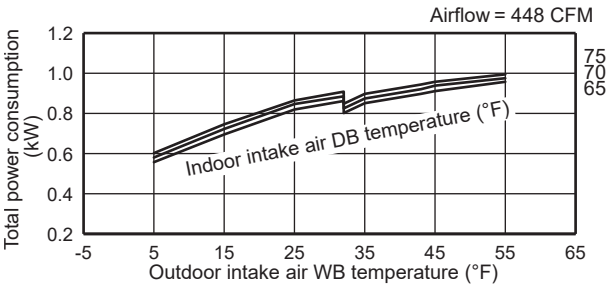
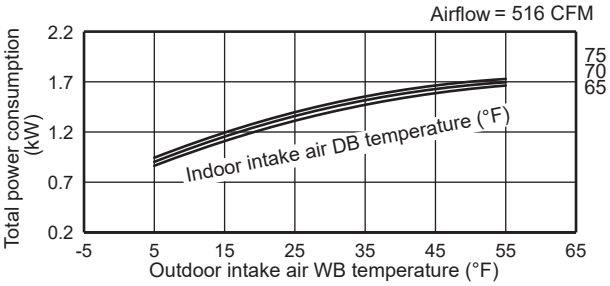


MUZ-GX15NL



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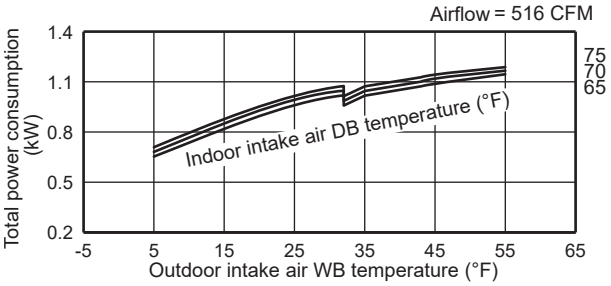
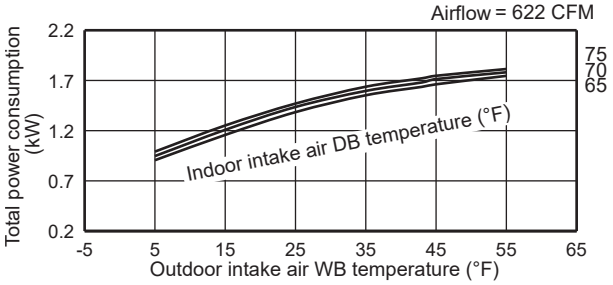


This value of frequency is not the same as the actual frequency in operating. Refer to 8-5 and 8-6 for the relationships between frequency and capacity.

MUZ-GX18NL



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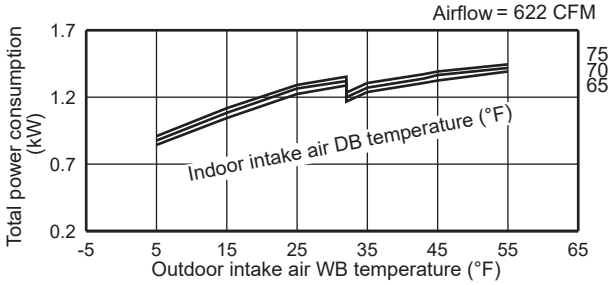
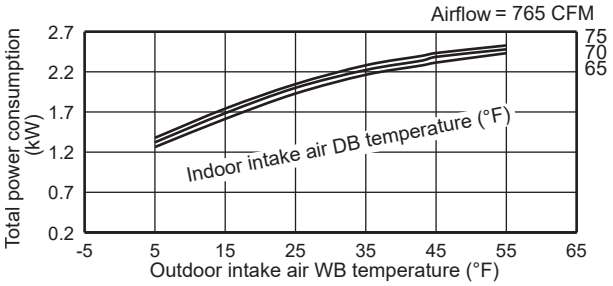
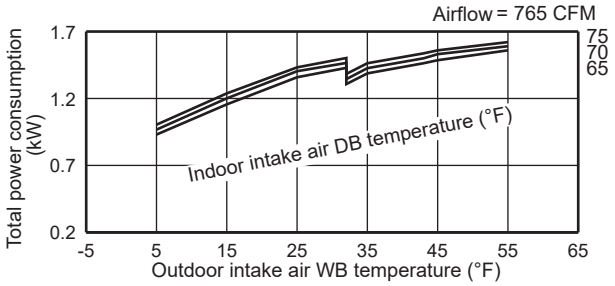


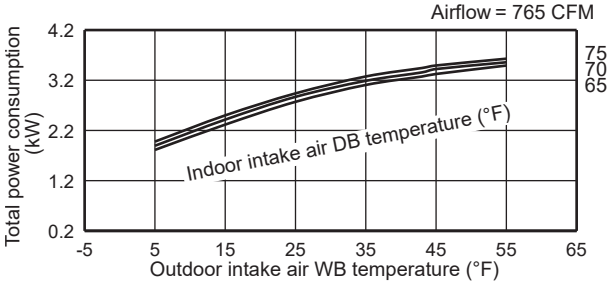
MUZ-GX24NL



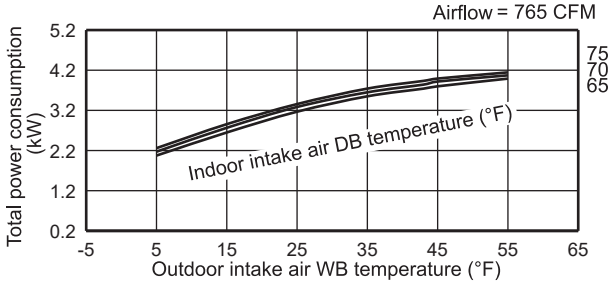
MUZ-GX24NLHZ



MUZ-GX30NL



MUZ-GX36NL



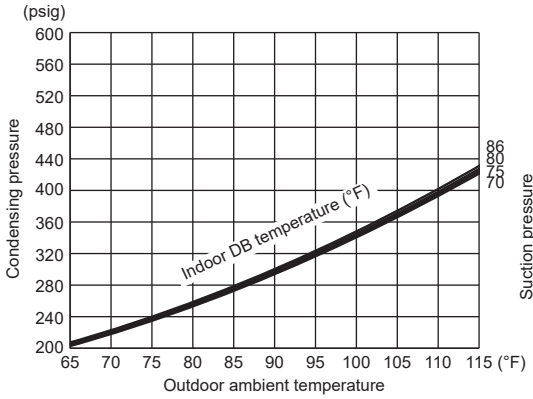
This value of frequency is not the same as the actual frequency in operating. Refer to 8-5 and 8-6 for the relationships between frequency and capacity.

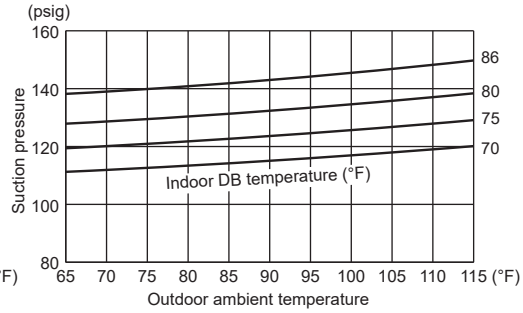
8-3. CONDENSING PRESSURE

Cooling

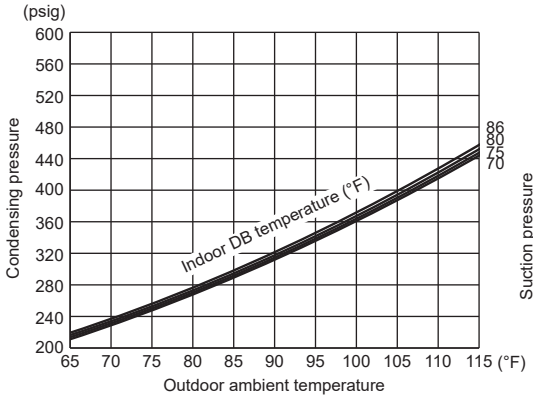
Data are based on the condition of indoor humidity 50 %.
Air flow should be set to High speed.

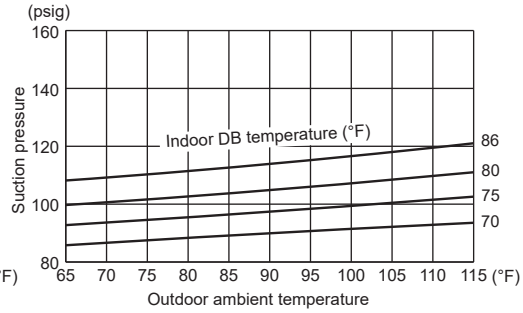
MUZ-GX09NL MUY-GX09NL MUZ-GX09NLHZ





MUZ-GX12NL MUY-GX12NL





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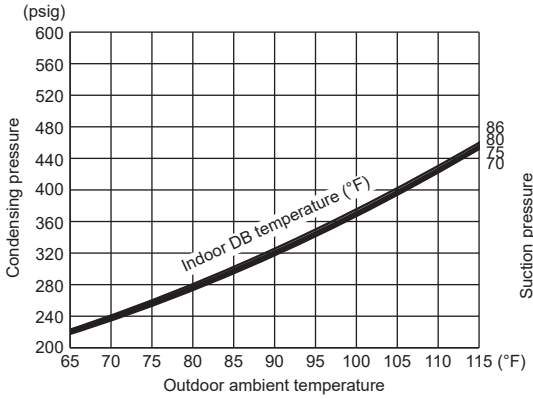
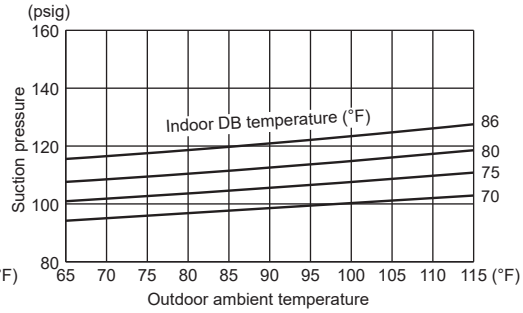
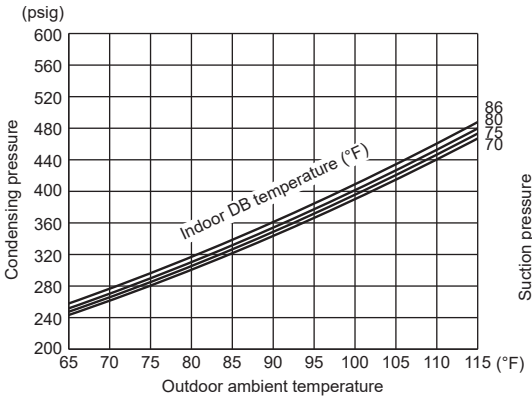
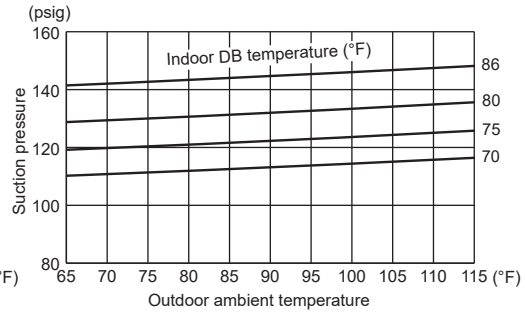


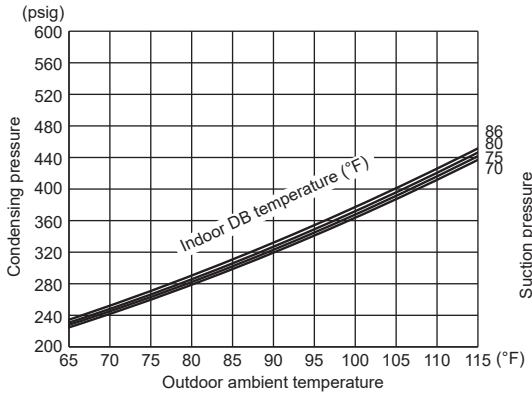


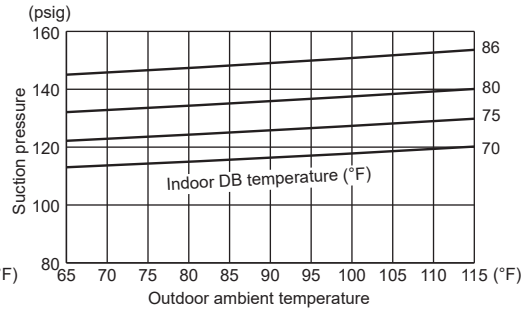
MUZ-GX15NL MUY-GX15NL MUZ-GX15NLHZ





MUZ-GX18NL MUY-GX18NL MUZ-GX18NLHZ





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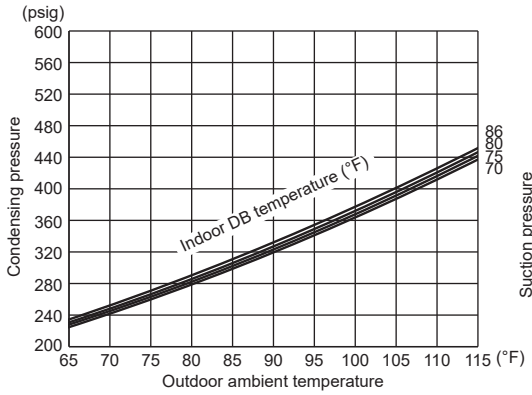
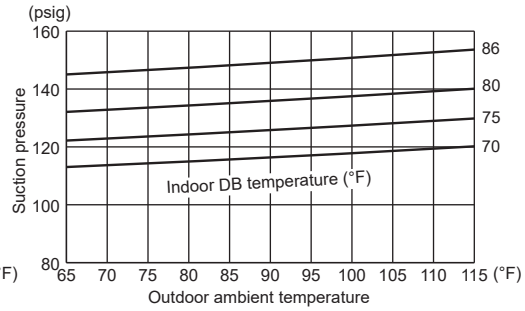
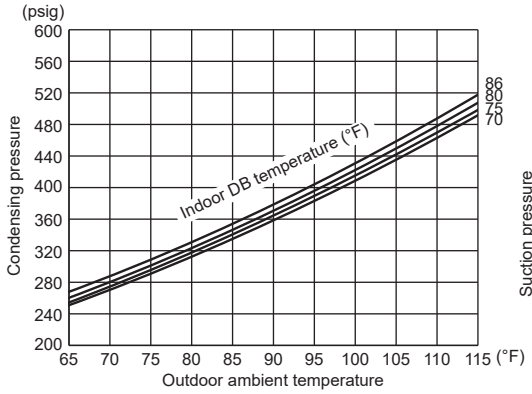
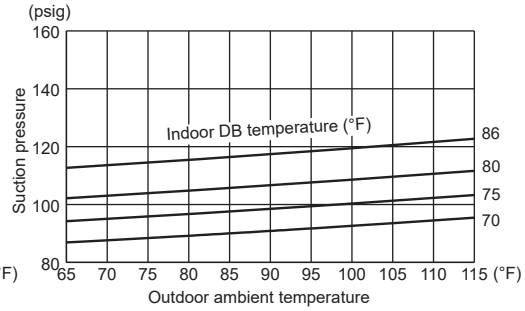




MUZ-GX30NL MUY-GX30NL





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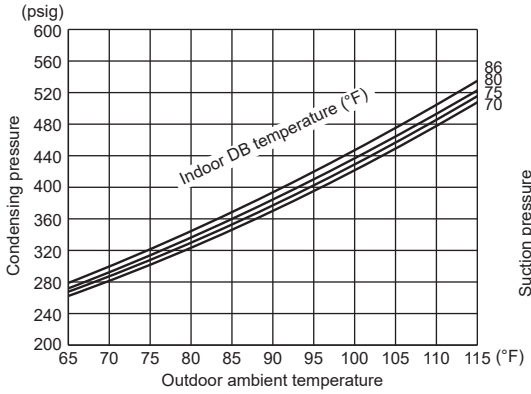
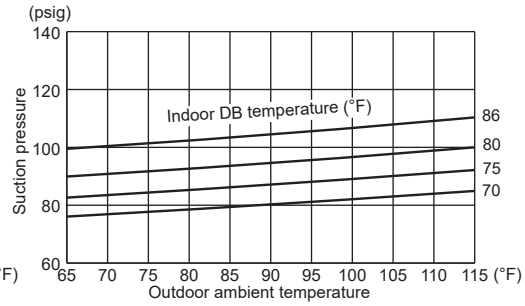
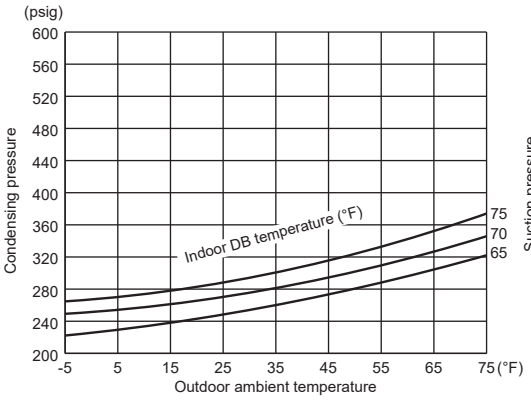


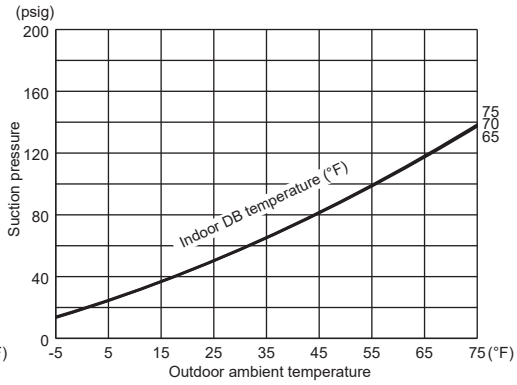


Heating

Data are based on the condition of outdoor humidity 75%.
Air flow should be set to High speed.
Data are for heating operation without any frost.

MUZ-GX09NL





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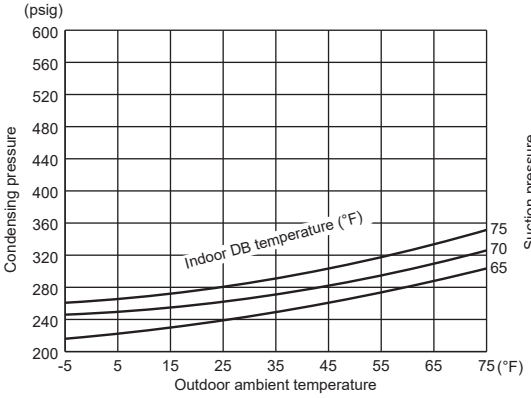
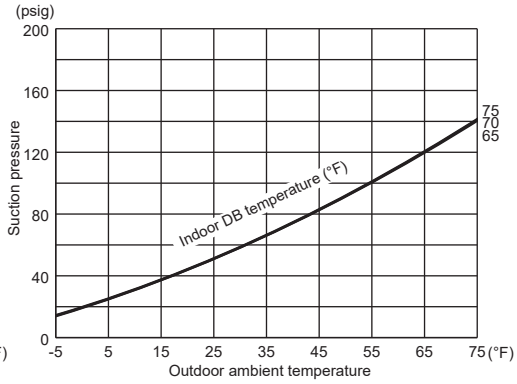
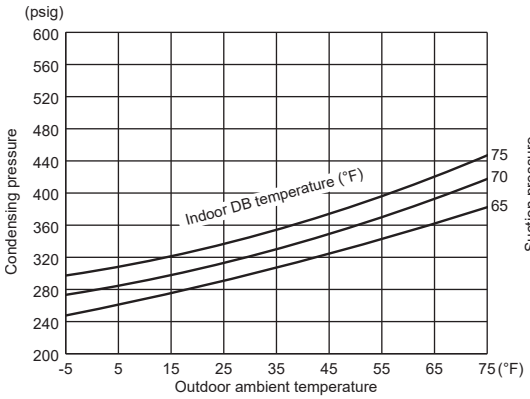
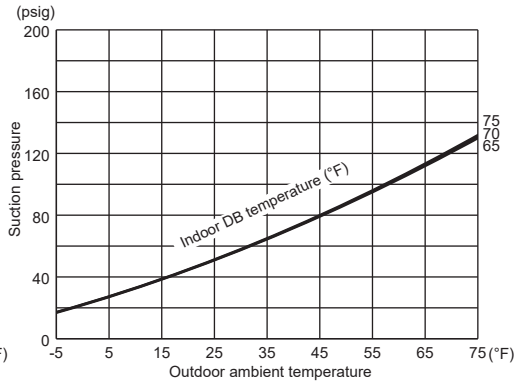




MUZ-GX12NL





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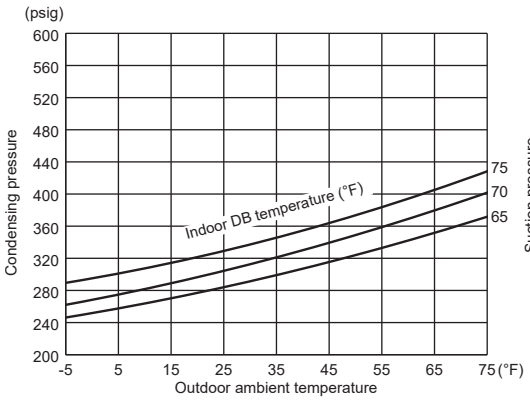

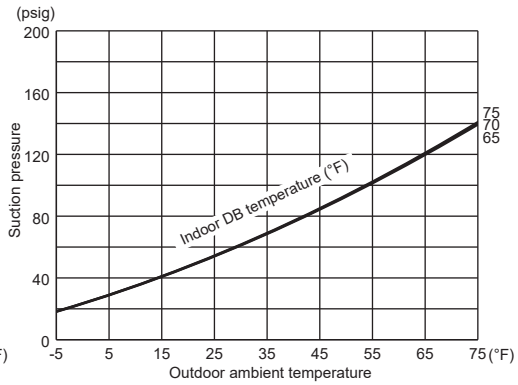

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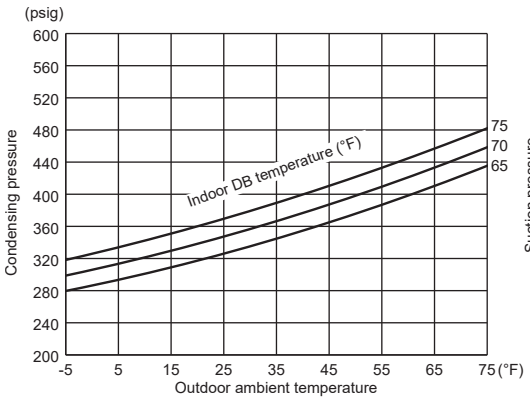

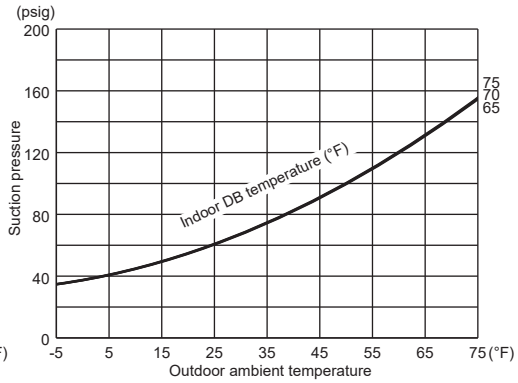

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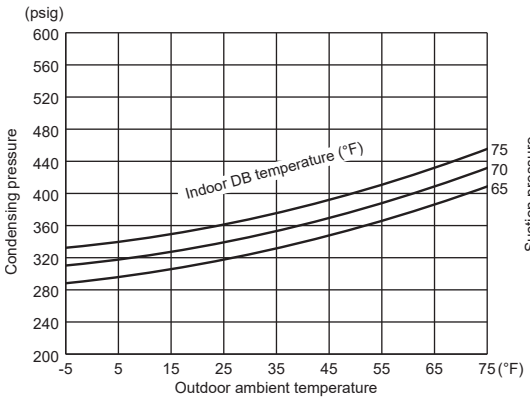

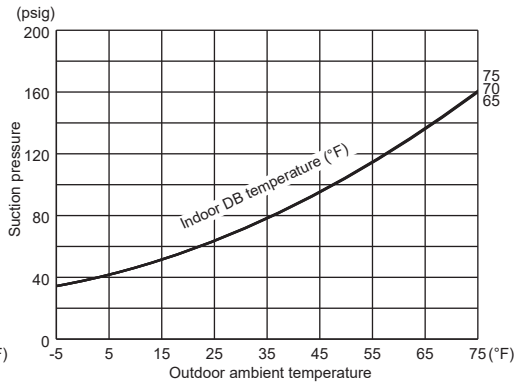

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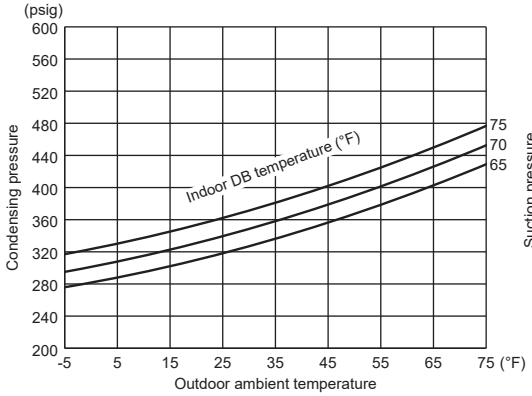

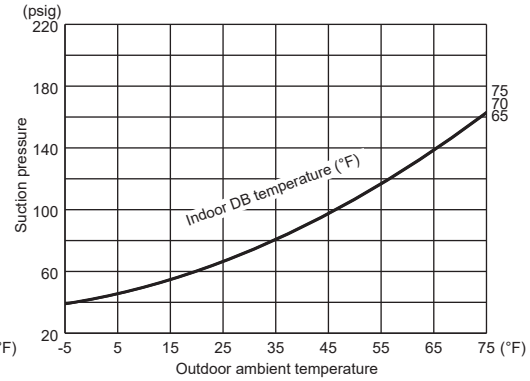

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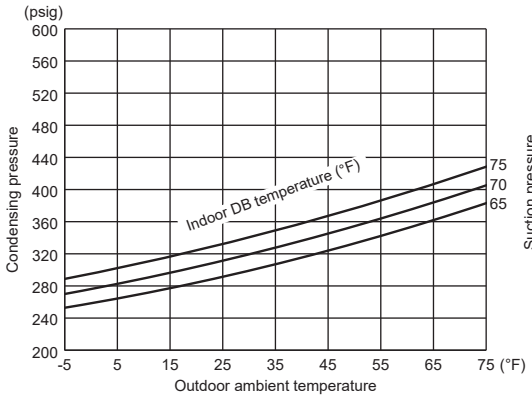

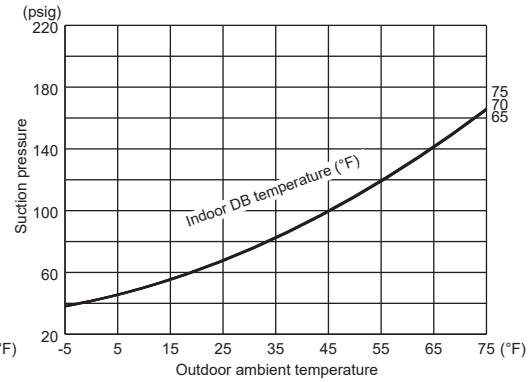

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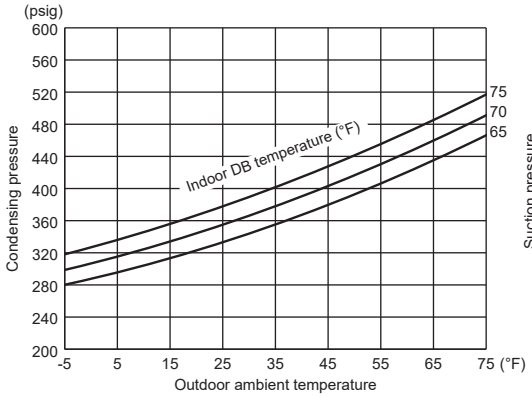

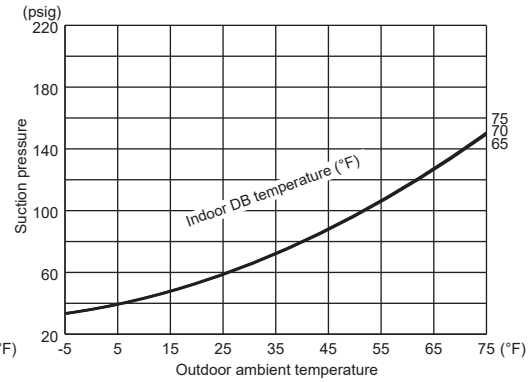

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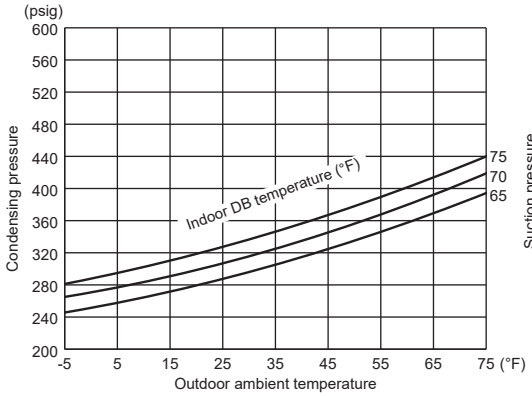

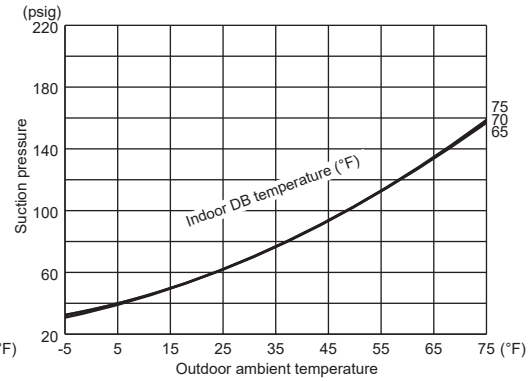

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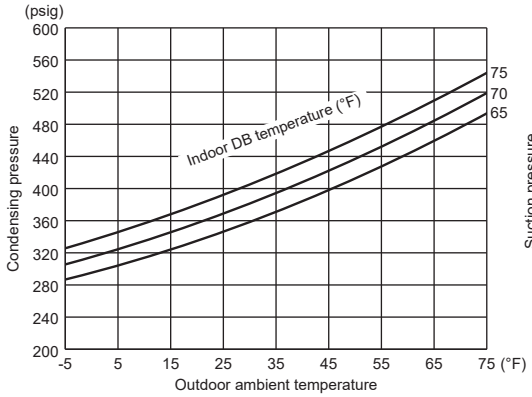

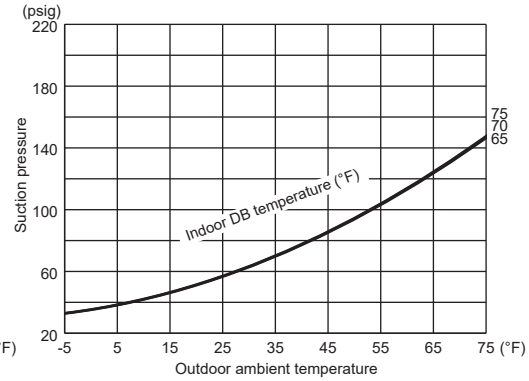

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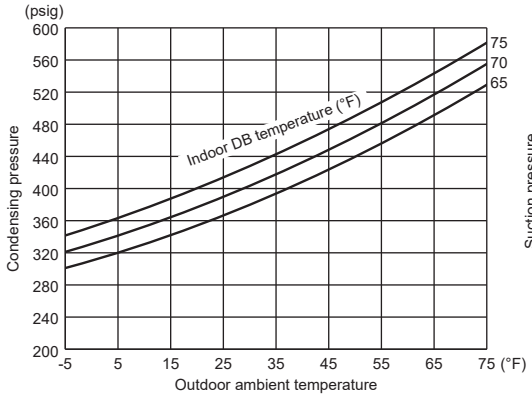
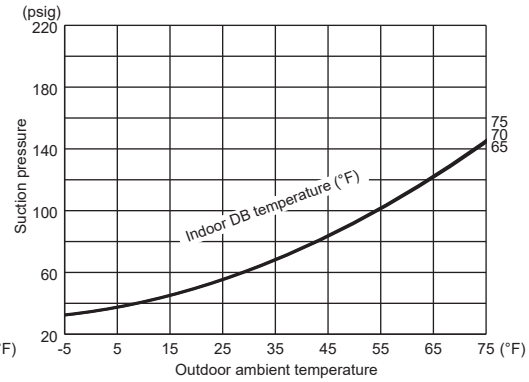




8-4. STANDARD OPERATION DATA

Model				MSZ-GX09NL		MSZ-GX09NL		MSY-GX09NL
Item			Unit	COOL	HEAT	COOL	HEAT	COOL
Total	Capacity		Btu/h	9,000	10,900	9,000	9,600	9,000
	SHF		—	0.9	—	0.9	—	0.9
	Input		kW	0.585	0.72	0.585	0.58	0.585
	Rated frequency		Hz	48	62	48	54	48
Electrical circuit	Indoor unit			**MSZ-GX09NL**		**MSZ-GX09NL**		**MSY-GX09NL**
	Power supply		V, phase, Hz	208/230, 1, 60		208/230, 1, 60		208/230, 1, 60
	Input		kW	0.024		0.024		0.024
	Fan motor current		A	0.26/0.24		0.26/0.24		0.26/0.24
	Outdoor unit			**MUZ-GX09NL**		**MUZ-GX09NLHZ**		**MUY-GX09NL**
	Power supply		V, phase, Hz	208/230, 1, 60		208/230, 1, 60		208/230, 1, 60
	Input		kW	0.561	0.696	0.561	0.556	0.561
	Comp. current		A	2.52/2.28	3.11/2.81	2.49/2.25	2.54/2.30	2.52/2.28
	Fan motor current		A	0.32/0.29	0.29/0.26	0.35/0.32	0.32/0.29	0.32/0.29
Refrigerant circuit	Condensing pressure		psig	334	317	334	297	334
	Suction pressure		psig	147	120	147	104	147
	Discharge temperature		°F	143	160	143	145	143
	Condensing temperature		°F	110	106	110	101	110
	Suction temperature		°F	56	41	56	38	56
	Comp. shell bottom temperature		°F	136	147	136	133	136
	Ref. pipe length		ft.	25		25		25
	Refrigerant charge (R454B)			2lbs.		2lbs.		2lbs.
Indoor unit	Intake air temperature	DB	°F	80	70	80	70	80
		WB	°F	67	60	67	60	67
	Discharge air temperature	DB	°F	62	93	62	91	62
		WB	°F	61	—	61	—	61
	Fan speed		rpm	1,020		1,020		1,020
	Airflow		CFM	403 (wet)	448	403 (wet)	448	403 (wet)
Outdoor unit	Intake air temperature	DB	°F	95	47	95	47	95
		WB	°F	—	43	—	43	—
	Fan speed		rpm	900	860	900	860	900
	Airflow		CFM	1,152	1,097	1,177	1,121	1,152

Model				MSZ-GX12NL		MSZ-GX12NL		MSY-GX12NL
Item			Unit	COOL	HEAT	COOL	HEAT	COOL
Total	Capacity		Btu/h	12,000	14,400	12,000	12,300	12,000
	SHF		—	0.77	—	0.78	—	0.77
	Input		kW	0.9	1.1	0.9	0.92	0.9
	Rated frequency		Hz	74	84	47.5	46	74
Electrical circuit	Indoor unit			**MSZ-GX12NL**		**MSZ-GX12NL**		**MSY-GX12NL**
	Power supply		V, phase, Hz	208/230, 1, 60		208/230, 1, 60		208/230, 1, 60
	Input		kW	0.024		0.024		0.024
	Fan motor current		A	0.26/0.24		0.26/0.24		0.26/0.24
	Outdoor unit			**MUZ-GX12NL**		**MUZ-GX12NLHZ**		**MUY-GX12NL**
	Power supply		V, phase, Hz	208/230, 1, 60		208/230, 1, 60		208/230, 1, 60
	Input		kW	0.876	1.076	0.876	0.896	0.876
	Comp. current		A	4.12/3.72	4.80/4.34	4.00/3.62	3.83/3.46	4.12/3.72
	Fan motor current		A	0.32/0.29	0.29/0.26	0.36/0.32	0.35/0.32	0.32/0.29
Refrigerant circuit	Condensing pressure		psig	359	370	360	358	359
	Suction pressure		psig	128	96	128	102	128
	Discharge temperature		°F	168	180	170	168	168
	Condensing temperature		°F	115	117	115	115	115
	Suction temperature		°F	56	36	58	37	56
	Comp. shell bottom temperature		°F	161	171	156	159	161
	Ref. pipe length		ft.	25		25		25
	Refrigerant charge (R454B)			2lbs.		2lbs. 4oz		2lbs.
Indoor unit	Intake air temperature	DB	°F	80	70	80	70	80
		WB	°F	67	60	67	60	67
	Discharge air temperature	DB	°F	58	101	62	96	58
		WB	°F	57	—	61	—	57
	Fan speed		rpm	1,020		1,020		1,020
	Airflow		CFM	403 (wet)	448	403 (wet)	448	403 (wet)
Outdoor unit	Intake air temperature	DB	°F	95	47	95	47	95
		WB	°F	—	43	—	43	—
	Fan speed		rpm	900	860	910	900	900
	Airflow		CFM	1,152	1,097	1,191	1,177	1,152

Model				MSZ-GX15NL		MSZ-GX15NL		MSY-GX15NL
Item			Unit	COOL	HEAT	COOL	HEAT	COOL
Total	Capacity		Btu/h	14,000	18,000	14,000		14,000
	SHF		—	0.82	—	0.82	—	0.82
	Input		kW	1.075	1.6	1.075	1.1	1.075
	Rated frequency		Hz	54	70	54	52.5	54
Electrical circuit	Indoor unit			**MSZ-GX15NL**		**MSZ-GX15NL**		**MSY-GX15NL**
	Power supply		V, phase, Hz	208/230, 1, 60		208/230, 1, 60		208/230, 1, 60
	Input		kW	0.053	0.037	0.053	0.037	0.053
	Fan motor current		A	0.50/0.46	0.37/0.34	0.50/0.46	0.37/0.34	0.50/0.46
	Outdoor unit			**MUZ-GX15NL**		**MUZ-GX15NLHZ**		**MUY-GX15NL**
	Power supply		V, phase, Hz	208/230, 1, 60		208/230, 1, 60		208/230, 1, 60
	Input		kW	1.022	1.563	1.022	1.063	1.022
	Comp. current		A	4.61/4.17	6.29/5.69	4.58/4.14	4.40/3.98	4.61/4.17
	Fan motor current		A	0.33/0.30	0.32/0.29	0.36/0.32	0.35/0.32	0.33/0.30
Refrigerant circuit	Condensing pressure		psig	378	391	378	371	378
	Suction pressure		psig	132	94	132	97	132
	Discharge temperature		°F	172	186	172	182	172
	Condensing temperature		°F	119	121	119	117	119
	Suction temperature		°F	57	33	57	41	57
	Comp. shell bottom temperature		°F	158	174	158	163	158
	Ref. pipe length		ft.	25		25		25
	Refrigerant charge (R454B)			2lbs. 4oz		2lbs. 4oz		2lbs. 4oz
Indoor unit	Intake air temperature	DB	°F	80	70	80	70	80
		WB	°F	67	60	67	60	67
	Discharge air temperature	DB	°F	58	95	58	88	58
		WB	°F	57	—	57	—	57
	Fan speed		rpm	1,260	1,140	1,260	1,140	1,260
	Airflow		CFM	528 (wet)	516	528 (wet)	516	528 (wet)
Outdoor unit	Intake air temperature	DB	°F	95	47	95	47	95
		WB	°F	—	43	—	43	—
	Fan speed		rpm	910	900	910	900	910
	Airflow		CFM	1,166	1,152	1,191	1,177	1,166

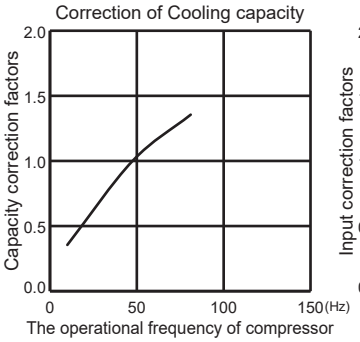
Model				MSZ-GX18NL		MSZ-GX18NL		MSY-GX18NL
Item			Unit	COOL	HEAT	COOL	HEAT	COOL
Total	Capacity		Btu/h	18,000	21,600	18,000	19,000	18,000
	SHF		—	0.79	—	0.79	—	0.79
	Input		kW	1.28	1.68	1.28	1.34	1.28
	Rated frequency		Hz	54	65.5	54	57.5	54
Electrical circuit	Indoor unit			**MSZ-GX18NL**		**MSZ-GX18NL**		**MSY-GX18NL**
	Power supply		V, phase, Hz	208/230, 1, 60		208/230, 1, 60		208/230, 1, 60
	Input		kW	0.037	0.035	0.037	0.035	0.037
	Fan motor current		A	0.38/0.34	0.36/0.32	0.38/0.34	0.36/0.32	0.38/0.34
	Outdoor unit			**MUZ-GX18NL**		**MUZ-GX18NLHZ**		**MUY-GX18NL**
	Power supply		V, phase, Hz	208/230, 1, 60		208/230, 1, 60		208/230, 1, 60
	Input		kW	1.243	1.645	1.243	1.305	1.243
	Comp. current		A	4.81/4.35	6.88/6.22	4.81/4.35	5.29/4.79	4.81/4.35
	Fan motor current		A	0.93/0.84		0.93/0.84		0.93/0.84
Refrigerant circuit	Condensing pressure		psig	350	382	350	349	350
	Suction pressure		psig	137	100	137	103	137
	Discharge temperature		°F	155	178	155	160	155
	Condensing temperature		°F	113	120	113		113
	Suction temperature		°F	54	36	54	36	54
	Comp. shell bottom temperature		°F	146	164	146		146
	Ref. pipe length		ft.	25		25		25
	Refrigerant charge (R454B)			3lbs. 12oz		3lbs. 12oz		3lbs. 12oz
Indoor unit	Intake air temperature	DB	°F	80	70	80	70	80
		WB	°F	67	60	67	60	67
	Discharge air temperature	DB	°F	58	110	58	104	58
		WB	°F	57	—	57	—	57
	Fan speed		rpm	1,120	1,100	1,120	1,100	1,120
	Airflow		CFM	573 (wet)	622	573 (wet)	622	573 (wet)
Outdoor unit	Intake air temperature	DB	°F	95	47	95	47	95
		WB	°F	—	43	—	43	—
	Fan speed		rpm	800		800		800
	Airflow		CFM	1,934		1,934		1,934

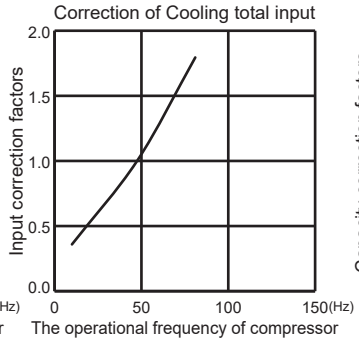
Model				MSZ-GX24NL		MSZ-GX24NL		MSY-GX24NL
Item			Unit	COOL	HEAT	COOL	HEAT	COOL
Total	Capacity		Btu/h	22,400	27,600	22,400	21,200	22,400
	SHF		—	0.78	—	0.78	—	0.78
	Input		kW	1.72	2.34	1.72	1.5	1.72
	Rated frequency		Hz	68	90	68	65	68
Electrical circuit	Indoor unit			**MSZ-GX24NL**		**MSZ-GX24NL**		**MSY-GX24NL**
	Power supply		V, phase, Hz	208/230, 1, 60		208/230, 1, 60		208/230, 1, 60
	Input		kW	0.062		0.062		0.062
	Fan motor current		A	0.58/0.52		0.58/0.52		0.58/0.52
	Outdoor unit			**MUZ-GX24NL**		**MUZ-GX24NLHZ**		**MUY-GX24NL**
	Power supply		V, phase, Hz	208/230, 1, 60		208/230, 1, 60		208/230, 1, 60
	Input		kW	1.658	2.278	1.658	1.438	1.658
	Comp. current		A	6.67/6.03	10.62/9.61	6.67/6.03	6.12/5.54	6.67/6.03
	Fan motor current		A	0.99/0.90	0.93/0.84	0.99/0.90	0.93/0.84	0.99/0.90
Refrigerant circuit	Condensing pressure		psig	361	406	361	347	361
	Suction pressure		psig	131	91	131	96	131
	Discharge temperature		°F	165	191	165	175	165
	Condensing temperature		°F	115	124	115	113	115
	Suction temperature		°F	53	32	53	41	53
	Comp. shell bottom temperature		°F	152	174	152	156	152
	Ref. pipe length		ft.	25		25		25
	Refrigerant charge (R454B)			3lbs. 12oz		3lbs. 12oz		3lbs. 12oz
Indoor unit	Intake air temperature	DB	°F	80	70	80	70	80
		WB	°F	67	60	67	60	67
	Discharge air temperature	DB	°F	66	99	66	90	66
		WB	°F	65	—	65	—	65
	Fan speed		rpm	1,300		1,300		1,300
	Airflow		CFM	688 (wet)	765	688 (wet)	765	688 (wet)
Outdoor unit	Intake air temperature	DB	°F	95	47	95	47	95
		WB	°F	—	43	—	43	—
	Fan speed		rpm	830	800	830	800	830
	Airflow		CFM	2,015	1,934	2,015	1,934	2,015

Model				MSZ-GX30NL		MSY-GX30NL	MSZ-GX36NL		MSY-GX36NL
Item			Unit	COOL	HEAT	COOL	COOL	HEAT	COOL
Total	Capacity		Btu/h	30,600	32,600	30,600	33,800	35,200	33,800
	SHF		—	0.7	—	0.7	0.68	—	0.68
	Input		kW	3.38	3.36	3.38	4.02	3.84	4.02
	Rated frequency		Hz	105	101.5	105	123	109.5	123
Electrical circuit	Indoor unit			**MSZ-GX30NL**		**MSY-GX30NL**	**MSZ-GX36NL**		**MSY-GX36NL**
	Power supply		V, phase, Hz	208/230, 1, 60		208/230, 1, 60	208/230, 1, 60		208/230, 1, 60
	Input		kW	0.062		0.062	0.062		0.062
	Fan motor current		A	0.58/0.52		0.58/0.52	0.58/0.52		0.58/0.52
	Outdoor unit			**MUZ-GX30NL**		**MUY-GX30NL**	**MUZ-GX36NL**		**MUY-GX36NL**
	Power supply		V, phase, Hz	208/230, 1, 60		208/230, 1, 60	208/230, 1, 60		208/230, 1, 60
	Input		kW	3.318	3.298	3.318	3.958	3.778	3.958
	Comp. current		A	13.12/11.86	13.22/11.96	13.12/11.86	17.76/16.06	15.63/14.14	17.76/16.06
	Fan motor current		A	1.16/1.05	0.93/0.84	1.16/1.05	1.16/1.05	0.93/0.84	1.16/1.05
Refrigerant circuit	Condensing pressure		psig	395	429	395	412	453	412
	Suction pressure		psig	108	88	108	97	86	97
	Discharge temperature		°F	190	196	190	204	202	204
	Condensing temperature		°F	122	128	122	125	132	125
	Suction temperature		°F	44	30	44	37	29	37
	Comp. shell bottom temperature		°F	137	181	137	189	187	189
	Ref. pipe length		ft.	25		25	25		25
	Refrigerant charge (R454B)			3lbs. 12oz		3lbs. 12oz	3lbs. 12oz		3lbs. 12oz
Indoor unit	Intake air temperature	DB	°F	80	70	80	80	70	80
		WB	°F	67	60	67	67	60	67
	Discharge air temperature	DB	°F	62	102	62	52	106	52
		WB	°F	61	—	61	51	—	51
	Fan speed		rpm	1,300		1,300	1,300		1,300
	Airflow		CFM	688 (wet)	765	688 (wet)	688 (wet)	765	688 (wet)
Outdoor unit	Intake air temperature	DB	°F	95	47	95	95	47	95
		WB	°F	—	43	—	—	43	—
	Fan speed		rpm	900	800	900	900	800	900
	Airflow		CFM	2,202	1,934	2,202	2,202	1,934	2,202

8-5. CAPACITY AND INPUT CORRECTION BY INVERTER OUTPUT FREQUENCY

MUZ-GX09NL MUY-GX09NL





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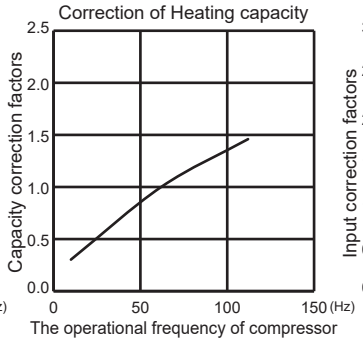

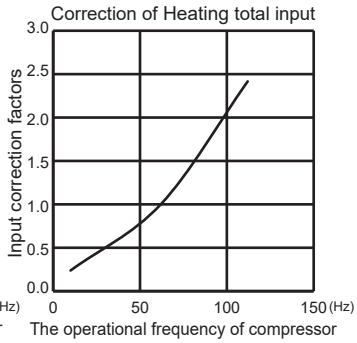

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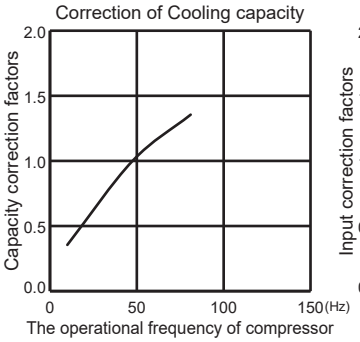

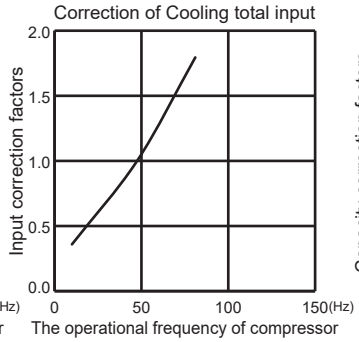

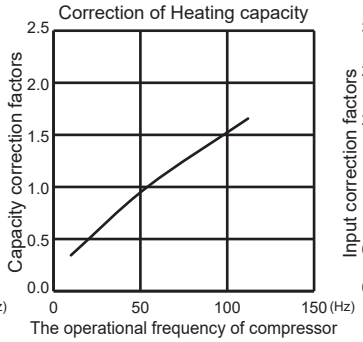

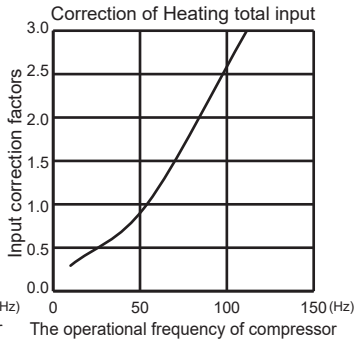

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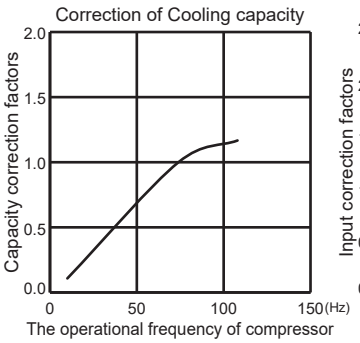

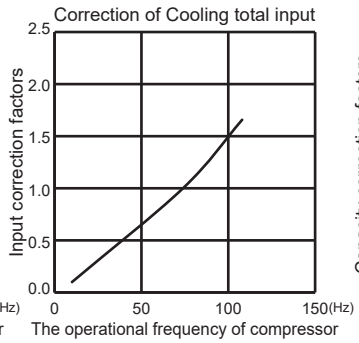

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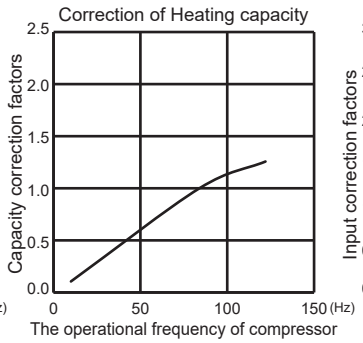

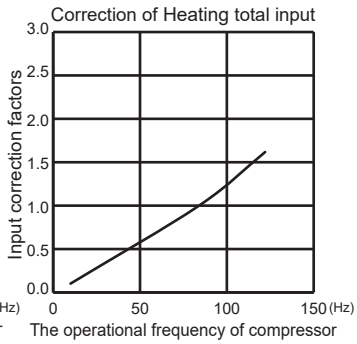

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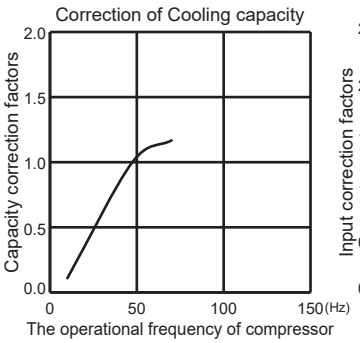

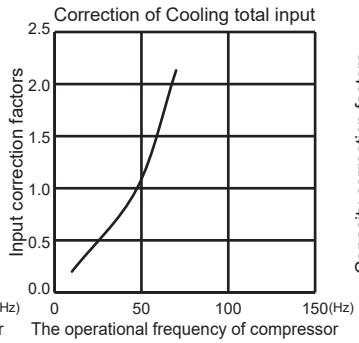

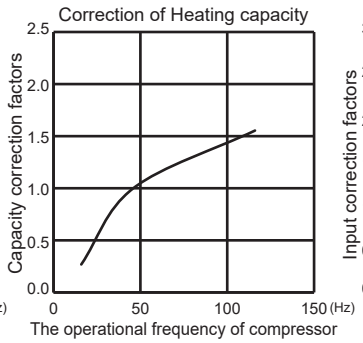

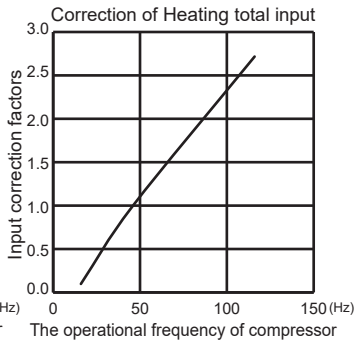

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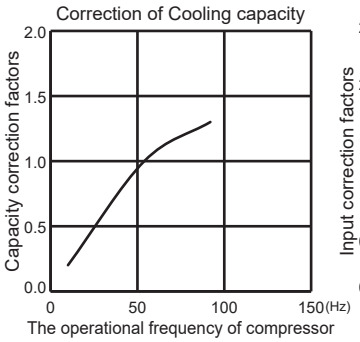

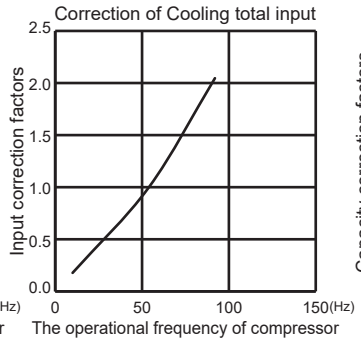

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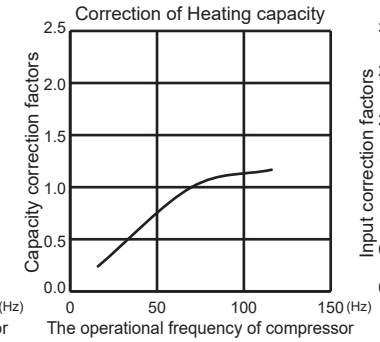

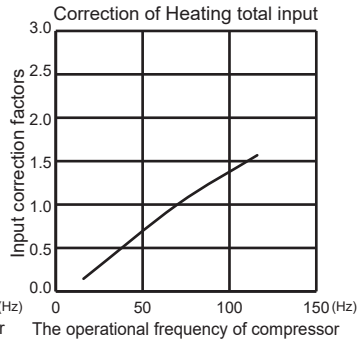

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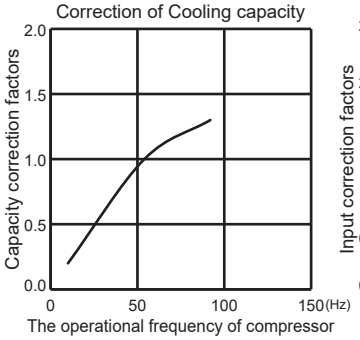

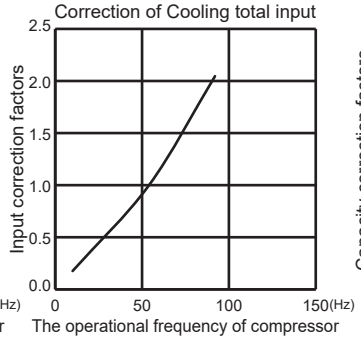

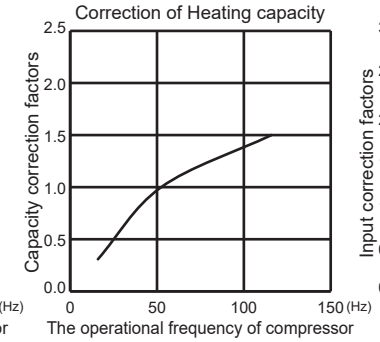

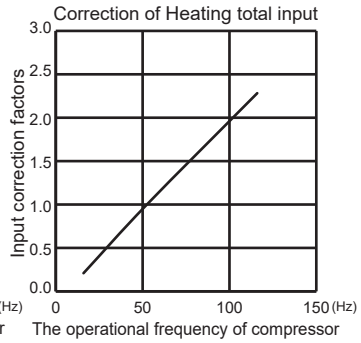

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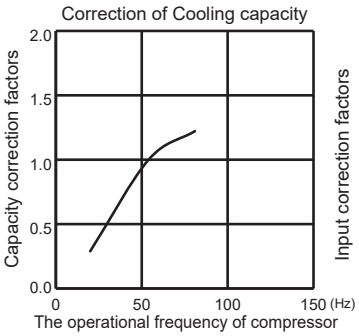

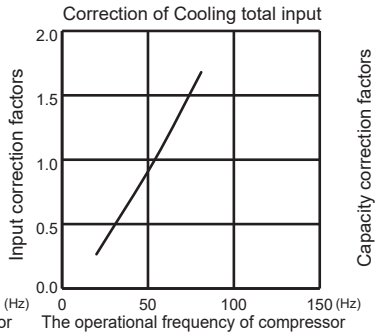

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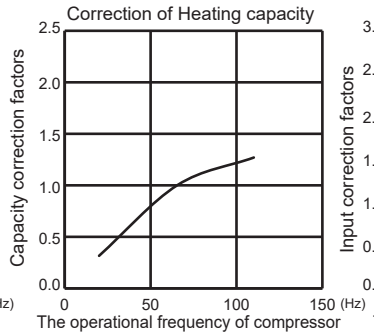

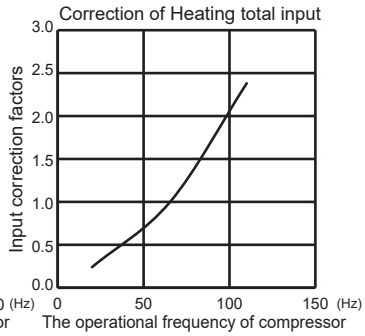

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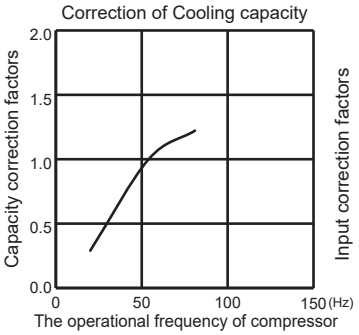
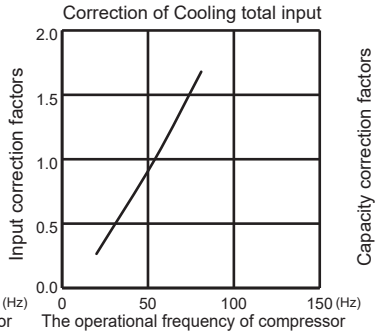
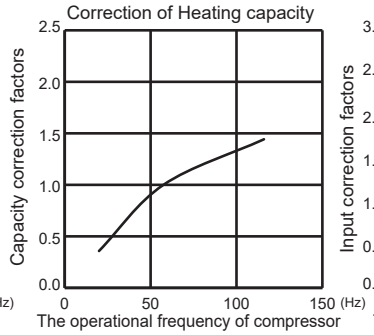
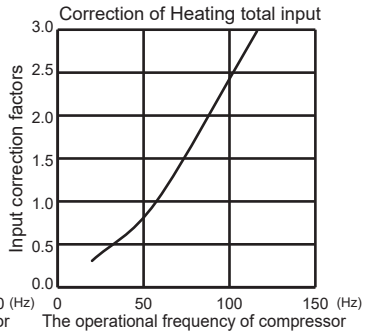
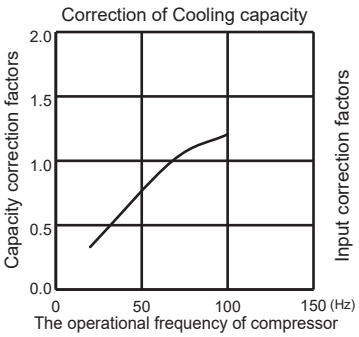


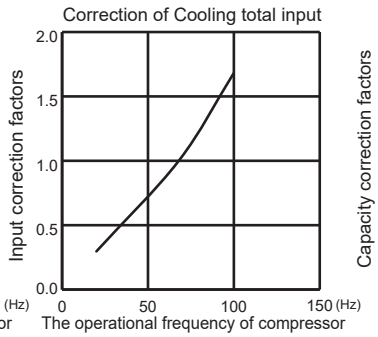






MUZ-GX24NL MUY-GX24NL





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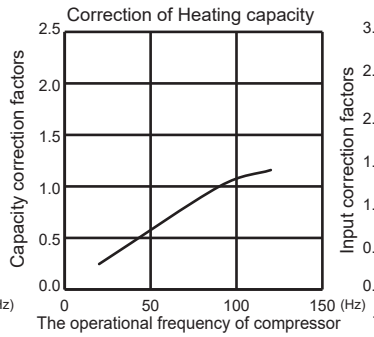

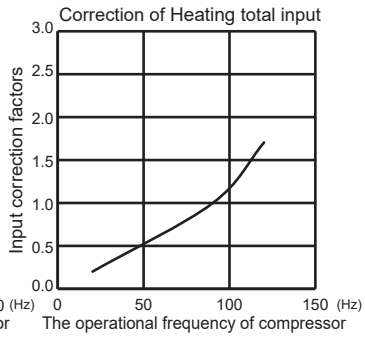

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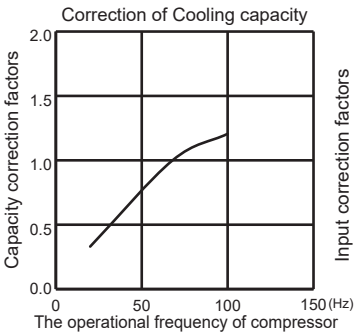
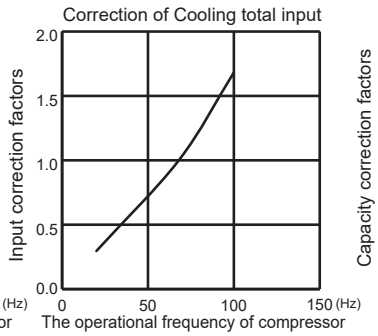
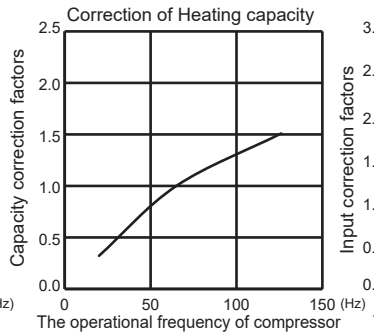
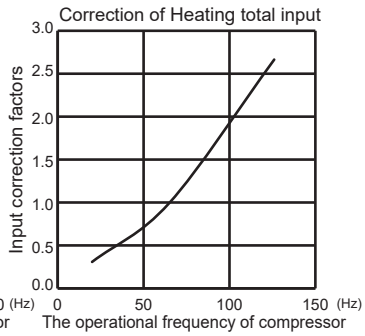
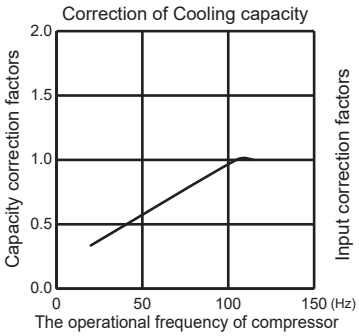


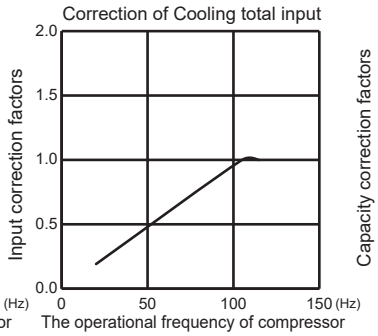




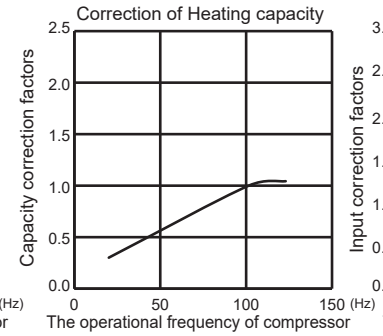


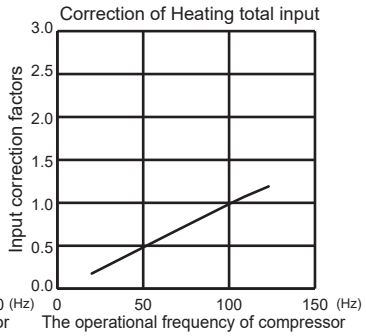
MUZ-GX30NL MUY-GX30NL



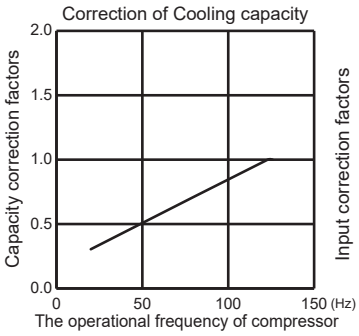


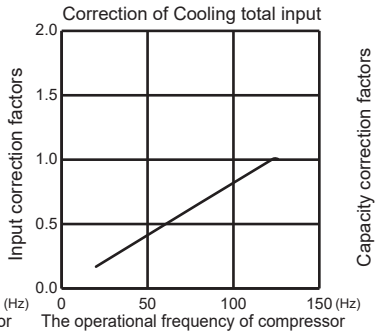
MUZ-GX30NL



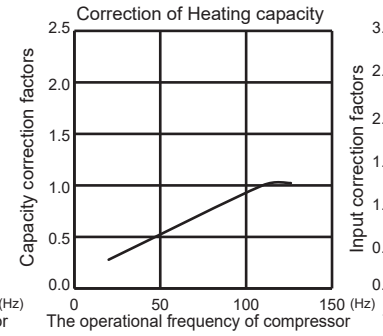


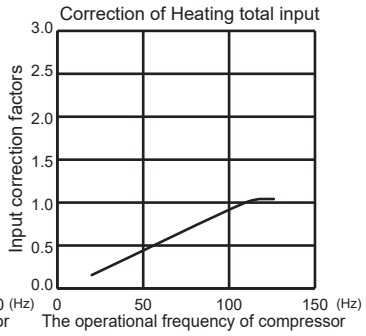
MUZ-GX36NL MUY-GX36NL





MUZ-GX36NL





8-6. HOW TO OPERATE FIXED-FREQUENCY OPERATION (Test run operation)

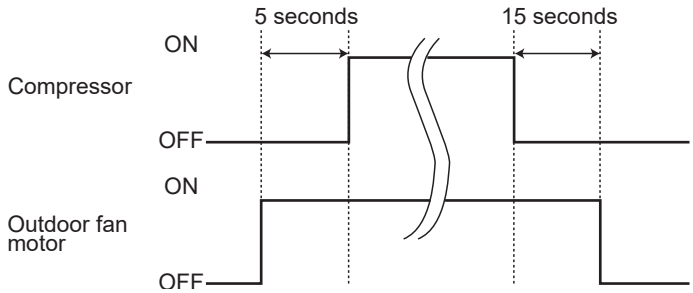
1. Press the emergency operation switch to start COOL or HEAT mode (COOL: Press once, HEAT: Press twice).
2. Test run operation starts and continues to operate for 30 minutes.
3. Compressor operates at rated frequency in COOL mode or 58 Hz in HEAT mode.
4. Indoor fan operates at High speed.
5. After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

9 ACTUATOR CONTROL

MUZ-GX09NL MUZ-GX12NL MUZ-GX15NL
MUZ-GX18NL MUZ-GX24NL MUZ-GX30NL MUZ-GX36NL
MUY-GX09NL MUY-GX12NL MUY-GX15NL
MUY-GX18NL MUY-GX24NL MUY-GX30NL MUY-GX36NL
MUZ-GX09NLHZ MUZ-GX12NLHZ MUZ-GX15NLHZ
MUZ-GX18NLHZ MUZ-GX24NLHZ

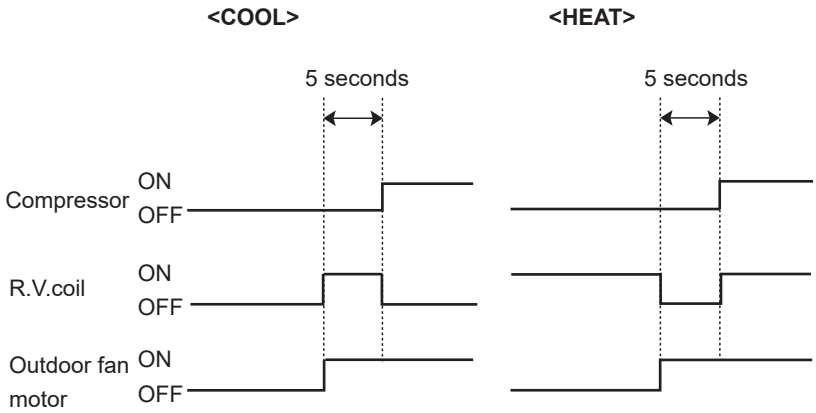
9-1. OUTDOOR FAN MOTOR CONTROL

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.



9-2. R.V. COIL CONTROL (MUZ only)

Heating · · · · · · · · · · · · · · · · · ON
Cooling · · · · · · · · · · · · · · · · · OFF
Dry · OFF
NOTE: The 4-way valve reverses for 5 seconds right before startup of the compressor.



9-3. 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-GX•NLHZ** only.

10 SERVICE FUNCTIONS

MUZ-GX09NL MUZ-GX12NL MUZ-GX15NL
MUZ-GX18NL MUZ-GX24NL MUZ-GX30NL MUZ-GX36NL
MUY-GX09NL MUY-GX12NL MUY-GX15NL
MUY-GX18NL MUY-GX24NL MUY-GX30NL MUY-GX36NL
MUZ-GX09NLHZ MUZ-GX12NLHZ MUZ-GX15NLHZ
MUZ-GX18NLHZ MUZ-GX24NLHZ

10-1. 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 11-6.1.).

Jumper		Defrost finish temperature	
		MUZ-GX09/12/15NL MUZ-GX09/12/15NLHZ	**MUZ-GX18/24/30/36NL MUZ-GX18/24NLHZ**
JS	Soldered (Initial setting)	46°F (8°C)	50°F (10°C)
	None (Cut)	55°F (13°C)	59°F (15°C)

10-2. PRE-HEAT CONTROL SETTING

Prolonged low load operation, in which the thermostat is OFF for a long time, at low outside temperature [32°F (0°C) or less] may cause the following troubles. To prevent those troubles, activate the pre-heat control.

1) If moisture gets into the refrigerant cycle and freezes, it may interfere the startup of the compressor.
2) If liquid refrigerant collects in the compressor, a failure in the compressor may occur.

The pre-heat control turns ON when the compressor temperature is 68°F (20°C) or below. When the pre-heat control turns ON, the compressor is energized. (About 70 W)

Pre-heat control setting

<JK>
ON: To activate the pre-heat control, cut JK wire of the inverter P.C. board.
OFF: To deactivate the pre-heat control, solder JK wire of the inverter P.C. board.
(Refer to 11-6.1)

Jumper		Pre-heat control setting
JK	Soldered	Deactivated (Initial setting)
	Cut	Activated

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

11 TROUBLESHOOTING

MUZ-GX09NL MUZ-GX12NL MUZ-GX15NL
MUZ-GX18NL MUZ-GX24NL MUZ-GX30NL MUZ-GX36NL
MUY-GX09NL MUY-GX12NL MUY-GX15NL
MUY-GX18NL MUY-GX24NL MUY-GX30NL MUY-GX36NL
MUZ-GX09NLHZ MUZ-GX12NLHZ MUZ-GX15NLHZ
MUZ-GX18NLHZ MUZ-GX24NLHZ

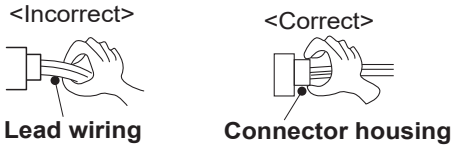
11-1. CAUTIONS ON TROUBLESHOOTING

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, then after confirming the horizontal vane is closed, turn off the breaker and/or disconnect the power plug.
2) Be sure to turn OFF the power supply before removing the front panel, the cabinet, the top panel, and the 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 11-2 and 11-3.

11-2. FAILURE MODE RECALL FUNCTION AND ERROR CODE DISPLAY MODE

Outline of the function

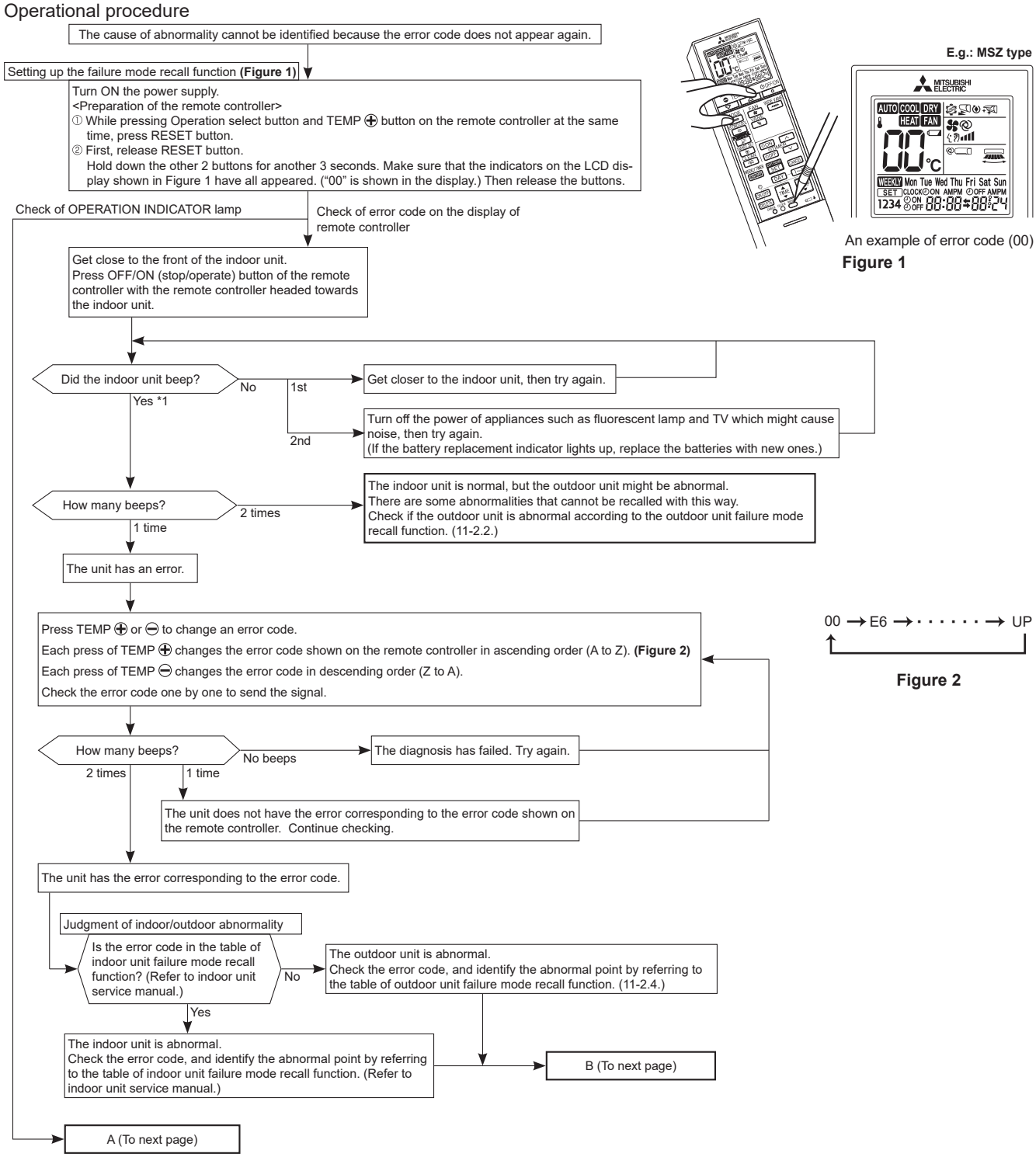
This air conditioner can memorize the failure which has occurred last time.

Even though LED indication listed on the troubleshooting check table (11-3.) disappears, the memorized failure can be recalled.

Also, error code can be checked on the display of remote controller while the upper operation indicator lamp on the indoor unit is blinking.

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

Operational procedure



A (From previous page)

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

Does the upper OPERATION INDICATOR lamp on the indoor unit blink at the interval of 0.5 seconds?

No (OFF) → The indoor unit is normal, but the outdoor unit might be abnormal. There are some abnormalities that cannot be recalled with this way. Check if the outdoor unit is abnormal according to the outdoor unit failure mode recall function. (11-2.2.)

NOTE: It takes up to 1 minute to indicate the outdoor unit abnormality. Even if the OPERATION INDICATOR lamp is not blinking, keep checking at least 1 minute or longer.

Yes (Blinks)

Judgment of indoor/outdoor abnormality

Before blinking, does the upper OPERATION INDICATOR lamp stay ON for 3 seconds?

Yes → The outdoor unit is abnormal. Check the blinking pattern, and identify the abnormal point by referring to the table of outdoor unit failure mode recall function. (11-2.4.) Make sure to check at least 2 consecutive blinking cycles. *3

No → The indoor unit is abnormal. Check the blinking pattern, and identify the abnormal point by referring to the table of indoor unit failure mode recall function. (Refer to the indoor unit service manual.) Make sure to check at least 2 consecutive blinking cycles. *2

B (From previous page)

Releasing the failure mode recall function

Release the failure mode recall function by the following procedures.
Turn OFF the power supply and turn it ON again.
Press RESET button of the remote controller.

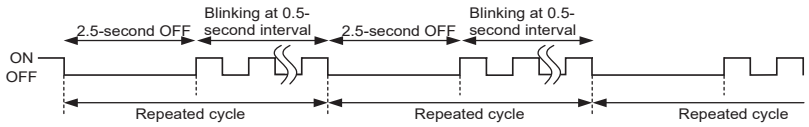
Repair the failure parts.

Deleting the memorized abnormal condition

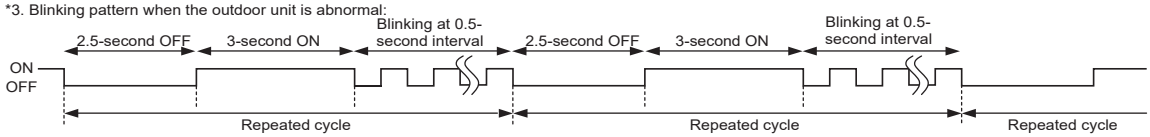
① After repairing the unit, recall the failure mode again according to “Setting up the failure mode recall function” mentioned above.
② Press OFF/ON (stop/operate) button of the remote controller with the remote controller headed towards the indoor unit.
③ Press the emergency operation switch so that the memorized abnormal condition is deleted.
④ Release the failure mode recall function according to “Releasing the failure mode recall function” mentioned above.

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.

*1. Regardless of normal or abnormal condition, 2 short beeps are emitted once the signal is received.
*2. Blinking pattern when the indoor unit is abnormal:



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



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

Operational procedure

The outdoor unit might be abnormal.
Check if the outdoor unit is abnormal according to the following procedures.

Make sure that the remote controller is set to the failure mode recall function.

Get close to the front of the indoor unit. With the remote controller headed towards the indoor unit, press button to set the indicator shown in Figure 1 to 25. *1 **(Figure 1)**

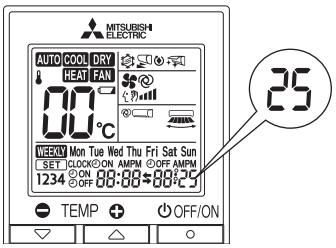


Figure 1

Check of OPERATION INDICATOR lamp

Check of error code on the display of remote controller

"00" is shown in the display. **(Figure 1)**

How many beeps?

2 times → The unit has the error corresponding to the error code.

1 time → The outdoor unit has an error.

00 → E8 → · · · · · · → UP

Figure 2

Press TEMP ⊕ or ⊖ to change an error code.
Each press of TEMP ⊕ changes the error code shown on the remote controller in ascending order (A to Z). **(Figure 2)**
Each press of TEMP ⊖ changes the error code in descending order (Z to A).
Check the error code one by one to send the signal.

How many beeps?

No beeps → The diagnosis has failed. Try again.

1 time → The unit does not have the error corresponding to the error code shown on the remote controller. Continue checking.

2 times → The unit has the error corresponding to the error code.

The unit has the error corresponding to the error code.

The outdoor unit is abnormal.
Check the error code, and identify the abnormal point by referring to the table of outdoor unit failure mode recall function (11-2.4.).

A (To next page)

Does the upper OPERATION INDICATOR lamp on the indoor unit blink at the interval of 0.5 seconds? *2

No (OFF) → The outdoor unit is normal.

Yes (Blinks) →

The outdoor unit is abnormal.
Check the blinking pattern, and identify the abnormal point by referring to the table of outdoor unit failure mode recall function (11-2.4.).
Make sure to check at least 2 consecutive blinking cycles. *2

A (To next page)

A (From previous page)

Releasing the failure mode recall function

Release the failure mode recall function by the following procedures.
Turn OFF the power supply and turn it ON again.
Press RESET button of the remote controller.

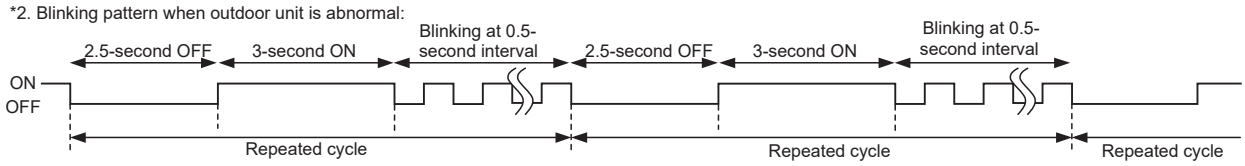
Repair the failure parts.

Deleting the memorized abnormal condition

① After repairing the unit, recall the failure mode again according to “Setting up the failure mode recall function” (11-2.1.).
② Press STOP/OPERATE (OFF/ON) button of the remote controller with the remote controller headed towards the indoor unit.
③ Press EMERGENCY OPERATION switch so that the memorized abnormal condition is deleted.
④ Release the failure mode recall function according to “Releasing the failure mode recall function” mentioned above.

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.

*1. Regardless of normal or abnormal condition, 2 short beeps are emitted once the signal is received.
*2. Blinking pattern when outdoor unit is abnormal:



3. Flow chart of error code display mode

This explains how customers can check the error code on their own.
This is included in OPERATING INSTRUCTIONS.

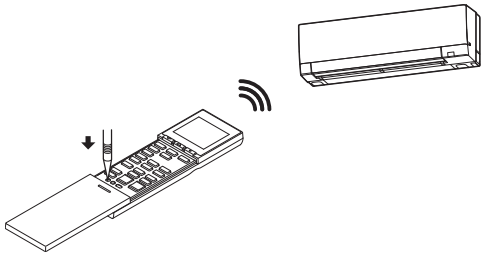


Figure 1

Operational procedure

The remote controller is powered OFF.

Get close to the front of the indoor unit. Point the remote controller at the receiving section of the indoor unit, and keep pressing CHECK with a fine-tipped object until the beeps. **(Figure 1)**
"00" is shown in the display. **(Figure 2)**

Did the indoor unit beep?

- No, 1st → Get closer to the indoor unit, then try again.
- No, 2nd → Turn off the power of appliances such as fluorescent lamp and TV which might cause noise, then try again.
(If the battery replacement indicator lights up, replace the batteries with new ones.)
- Yes ↓

How many beeps?

- 2 times → The indoor unit is normal, but the outdoor unit might be abnormal. There are some abnormalities that cannot be recalled with this way. Check if the outdoor unit is abnormal according to the outdoor unit failure mode recall function. (11-2.2.)
- 1 time ↓

The unit has an error.

Press TEMP ⊕ or ⊖ to change an error code.
Each press of TEMP ⊕ changes the error code shown on the remote controller in ascending order (A to Z).
(Figure 3)
Each press of TEMP ⊖ changes the error code in descending order (Z to A).
Check the error code one by one to send the signal.

How many beeps?

- No beeps → The diagnosis has failed. Try again.
- 1 time → The unit does not have the error corresponding to the error code shown on the remote controller. Continue checking.
- 2 times ↓

The unit has the error corresponding to the error code.

Refer to the error code on the table of indoor unit failure mode recall function (refer to indoor unit service manual) or the table of outdoor unit failure mode recall function (11-2.4).

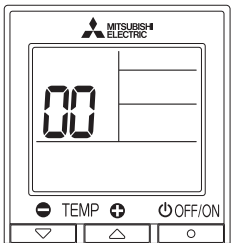


Figure 2

NOTE: Even though the air conditioner operates normally, the memorized indication for the last error appears if it has not been deleted.

00 → E6 → · · · · · · → UP

Figure 3

4. Table of outdoor unit failure mode recall function

OPERATION INDICATOR lamp (Indoor unit)	Error code	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
Not blink	00	None (Normal)	—	—	—	—	—
1-time blink 2.5 seconds OFF	E8	Indoor/outdoor communication, receiving error	—	Any signals from the inverter P.C. board cannot be received normally for 3 minutes.	• Refer to 11-5.Ⓜ "How to check miswiring and serial signal error".	○	○
	E9	Indoor/outdoor communication, receiving error	—	Although the inverter P.C. board sends signal "0", signal "1" has been received 30 consecutive times.	• Refer to 11-5.Ⓜ "How to check miswiring and serial signal error".		
	EC	Indoor/outdoor communication, start-up process abnormality	—	The start-up process of the outdoor unit does not complete for 4 minutes.	• Replace the indoor electronic control P.C. board.		
2-time blink 2.5 seconds OFF	UP	Outdoor power system	—	Overcurrent protection cut-out operates 3 consecutive times within 1 minute after the compressor gets started.	• Reconnect connectors. • Refer to 11-5.Ⓐ "How to check inverter/ compressor". • Check stop valve.	○	○
3-time blink 2.5 seconds OFF	U3	Discharge temperature thermistor	1-time blink every 2.5 seconds	Thermistor shorts or opens during compressor running.	• Refer to 11-5.Ⓖ "Check of outdoor thermistors". Defective outdoor thermistors can be identified by checking the blinking pattern of LED.	○	○
	U4	Defrost thermistor					
		Ambient temperature	2-time blink 2.5 seconds OFF				
		Fin temperature thermistor	3-time blink 2.5 seconds OFF				
		Outdoor heat exchanger temperature thermistor	—				
		P.C. board temperature thermistor	4-time blink 2.5 seconds OFF		• Replace the inverter P.C. board.		
4-time blink 2.5 seconds OFF	UF	Overcurrent	11-time blink 2.5 seconds OFF	Large current flows into power module (IC700).	• Reconnect compressor connector. • Refer to 11-5.Ⓐ "How to check inverter/ compressor". • Check stop valve.	—	○
		Compressor synchronous abnormality	12-time blink 2.5 seconds OFF	Waveform of compressor current is distorted.	• Reconnect compressor connector. • Refer to 11-5.Ⓐ "How to check inverter/ compressor".	—	○
		Compressor start-up failure protection	13-time blink 2.5 seconds OFF	Overcurrent cutoff within 10 seconds after activating the compressor.		—	○
5-time blink 2.5 seconds OFF	U2	Discharge temperature	—	Temperature of discharge temperature thermistor exceeds 241°F (116°C), compressor stops. Compressor can restart if discharge temperature thermistor reads 212°F (100°C) or less 3 minutes later.	• Check refrigerant circuit and refrigerant amount. • Refer to 11-5.Ⓚ "Check of LEV".	—	○
6-time blink 2.5 seconds OFF	Ud	High pressure	—	Temperature of outdoor heat exchanger temperature thermistor exceeds 158°F (70°C) in COOL mode.	• Check refrigerant circuit and refrigerant amount. • Check stop valve.	—	○
7-time blink 2.5 seconds OFF	U5	Fin temperature	7-time blink 2.5 seconds OFF	Temperature of fin temperature thermistor on the inverter P.C. board exceeds 167 – 176°F (75 – 80°C), or temperature of P.C. board temperature thermistor on the inverter P.C. board exceeds 158 – 167°F (70 – 75°C).	• Check around outdoor unit. • Check outdoor unit air passage. • Refer to 11-5.Ⓘ "Check of outdoor fan motor".	—	○
	Ub	P.C. board temperature					
8-time blink 2.5 seconds OFF	U8	Outdoor fan motor	—	Outdoor fan has stopped 3 times in a row within 30 seconds after outdoor fan start-up.	• Refer to 11-5.Ⓘ "Check of outdoor fan motor". Refer to 11-5. Ⓛ "Check of inverter P.C. board".	—	○

NOTE: Blinking patterns of this mode differ from the ones of TROUBLESHOOTING CHECK TABLE (11-3.).

NOTE: Blinking patterns of this mode differ from the ones of TROUBLESHOOTING CHECK TABLE (11-3.).

OPERATION INDICATOR lamp (Indoor unit)	Error code	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
9-time blink 2.5 seconds OFF	FC	Nonvolatile memory data	5-time blink 2.5 seconds OFF	Nonvolatile memory data cannot be read properly.	• Replace the inverter P.C. board.	○	○
	U6	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 11-5.Ⓐ "How to check inverter/ compressor".	—	○
10-time blink 2.5 seconds OFF	U7	Discharge temperature	—	Temperature of discharge temperature thermistor has been 122°F (50°C) or less for 20 minutes.	• Refer to 11-5.Ⓚ "Check of LEV". • Check refrigerant circuit and refrigerant amount.	—	○
11-time blink 2.5 seconds OFF	UJ	Bus-bar voltage (DC)	8-time blink 2.5 seconds OFF	Bus-bar voltage of inverter cannot be detected normally.	• Refer to 11-5.Ⓐ "How to check inverter/ compressor".	—	○
	UH	Each phase current of compressor	9-time blink 2.5 seconds OFF	Each phase current of compressor cannot be detected normally.			
13-time blink 2.5 seconds OFF	Fd	Abnormal of wrong voltage power supply connected.	—	When 100 V power supply is connected to 200 V model.	• Check power supply voltage	○	○
14-time blink 2.5 seconds OFF *1	UE	Stop valve (Closed valve)	14-time blink 2.5 seconds OFF	• Closed valve is detected by compressor current. • An abnormality of the indoor thermistors is detected.	• Check stop valve. • Refer to "TEST POINT DIAGRAM AND VOLTAGE" on the service manual of indoor unit for the characteristics of the thermistors. (Do not start the operation again without repair to prevent hazards.)	○	○
	P8	Pipe temperature	16-time blink 2.5 seconds OFF	• The indoor coil thermistor detects an abnormal temperature. • An abnormality of the indoor thermistors is detected.	• Replace the inverter P.C. board. • Refer to "TEST POINT DIAGRAM AND VOLTAGE" on the service manual of indoor unit for the characteristics of the thermistors. (Do not start the operation again without repair to prevent hazards.)	○	○
16-time blink 2.5 seconds OFF *1	PL	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. • An abnormality of the indoor thermistors is detected.	• Check for a gas leak in a connecting piping etc. • Check the stop valve. • Refer to 11-5.Ⓞ "Check of outdoor refrigerant circuit". • Refer to "TEST POINT DIAGRAM AND VOLTAGE" on the service manual of indoor unit for the characteristics of the thermistors. (Do not start the operation again without repair to prevent hazards.)	○	○

*1 There is a possibility that diesel explosion may occur due to the air mixed in the refrigerant circuit.
First, ensure that there are no leakage points on the valves, flare connections, etc. that allow the air to flow into the refrigerant circuit, or no blockage points (e.g. clogged or closed valves) in the refrigerant circuit that cause an increase in pressure.
If there is no abnormal point like above and the system operates cooling mode normally, the indoor thermistor might have a problem, resulting in false detection. Check both the indoor coil thermistor and the room temperature thermistor, and replace faulty thermistor(s), if any.
NOTE: Do not start the operation again without repair to prevent hazards.

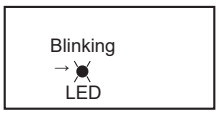
11-3. TROUBLESHOOTING CHECK TABLE

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.	• Reconnect connector of compressor. • Refer to 11-5.Ⓐ “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 11-5.Ⓖ “Check of outdoor thermistors”.
				P.C. board temperature thermistor shorts or opens during compressor running.	• Replace inverter P.C. board.
3			Outdoor control system	Nonvolatile memory data cannot be read properly. (The upper lamp of the 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 11-5.Ⓜ “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		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 11-5.Ⓗ “Check of R.V. coil”. • Replace the inverter P.C. board.
7		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 11-5.Ⓞ “Check of outdoor refrigerant circuit”.
8	'Outdoor unit stops and restarts 3 minutes later' is repeated.	2-time blink 2.5 seconds OFF	Overcurrent protection	Large current flows into the power module (IC700).	• Reconnect connector of compressor. • Refer to 11-5.Ⓐ “How to check inverter/compressor”. • Check stop valve.
9		3-time blink 2.5 seconds OFF	Discharge temperature overheat protection	Temperature of discharge temperature thermistor exceeds 241°F (116°C), compressor stops. Compressor can restart if discharge temperature thermistor reads 212°F (100°C) or less 3 minutes later.	• Check refrigerant circuit and refrigerant amount. • Refer to 11-5.Ⓚ “Check of LEV”.
10		4-time blink 2.5 seconds OFF	Fin temperature /P.C. board temperature thermistor overheat protection	Temperature of the fin temperature thermistor on the heat sink exceeds 167 - 176°F (75 - 80°C) or temperature of P.C. board temperature thermistor on the inverter P.C.board exceeds 158 - 167°F (70 - 75°C).	• Check around outdoor unit. • Check outdoor unit air passage. • Refer to 11-5.Ⓘ “Check of outdoor fan motor”.
11		5-time blink 2.5 seconds OFF	High pressure protection	Indoor coil thermistor exceeds 158°F (70°C) in HEAT mode. Defrost thermistor exceeds 158°F (70°C) in COOL mode.	• Check refrigerant circuit and refrigerant amount. • Check stop valve.
12		8-time blink 2.5 seconds OFF	Compressor synchronous abnormality	The waveform of compressor current is distorted.	• Reconnect connector of compressor. • Refer to 11-5.Ⓐ “How to check inverter/compressor”.
13		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 11-5.Ⓘ “Check of outdoor fan motor”. • Refer to 11-5.Ⓛ “Check of inverter P.C. board”.
14		12-time blink 2.5 seconds OFF	Each phase current of compressor	Each phase current of compressor cannot be detected normally.	• Refer to 11-5.Ⓐ “How to check inverter/compressor”.
15		13-time blink 2.5 seconds OFF	Bus-bar voltage (DC)	Bus-bar voltage of inverter cannot be detected normally.	• It occurs with following case. • Instantaneous power voltage drop. (Short time power failure) • Refer to 11-5.Ⓙ “Check of power supply”. • Refer to 11-5.Ⓐ “How to check inverter/compressor”.

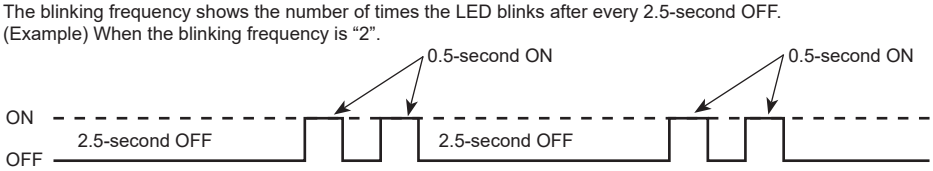
No.	Symptom	LED indication	Abnormal point/ Condition	Condition	Remedy
16	Outdoor unit operates.	1-time blink 2.5 seconds OFF	Deceleration of the operational frequency of the compressor by the current protection control	Current from power outlet is nearing breaker capacity.	The unit is normal, but check the following. • Check if indoor filters are clogged. • Check if refrigerant is short. • Check if indoor/outdoor unit air circulation is short cycled.
17		3-time blink 2.5 seconds OFF	Deceleration of the operational frequency of the compressor by the high pressure protection	Temperature of indoor coil thermistor exceeds 131 °F (55°C) in HEAT mode, compressor frequency lowers.	
			Deceleration of the operational frequency of the compressor by the overcooling prevention of the indoor heat exchanger	Indoor coil thermistor reads 46°F (8°C) or less in COOL mode, compressor frequency lowers.	
18		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 232°F (111°C), compressor frequency lowers.	• Check refrigerant circuit and refrigerant amount. • Refer to 11-5.Ⓚ “Check of LEV”. • Refer to 11-5.Ⓖ “Check of outdoor thermistors”.
19	Outdoor unit operates.	7-time blink 2.5 seconds OFF	Low discharge temperature protection	Temperature of discharge temperature thermistor has been 122°F (50°C) or less for 20 minutes.	• Refer to 11-5.Ⓚ “Check of LEV”. • Check refrigerant circuit and refrigerant amount.
20		8-time blink 2.5 seconds OFF	Zero cross detecting circuit	Zero cross signal cannot be detected.	• It occurs with following cases. 1 Instantaneous power voltage drop. (Short time power failure) 2 Distortion of primary voltage • Refer to 11-5.Ⓙ “Check of power supply”.
21		9-time blink 2.5 seconds OFF	Inverter check mode	The connector of compressor is disconnected, inverter check mode starts.	• Check if the connector of the compressor is correctly connected. Refer to 11-5.Ⓐ “How to check inverter/compressor”.

NOTE: 1. The location of LED is illustrated at the right figure. Refer to 11-6.1.
2. LED is lit during normal operation.

Inverter P.C. board



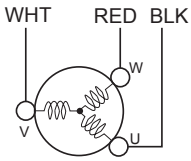
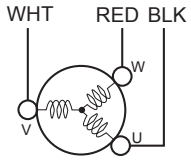
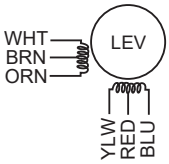
The blinking frequency shows the number of times the LED blinks after every 2.5-second OFF.
(Example) When the blinking frequency is “2”.



11-4. TROUBLESHOOTING CRITERION OF MAIN PARTS

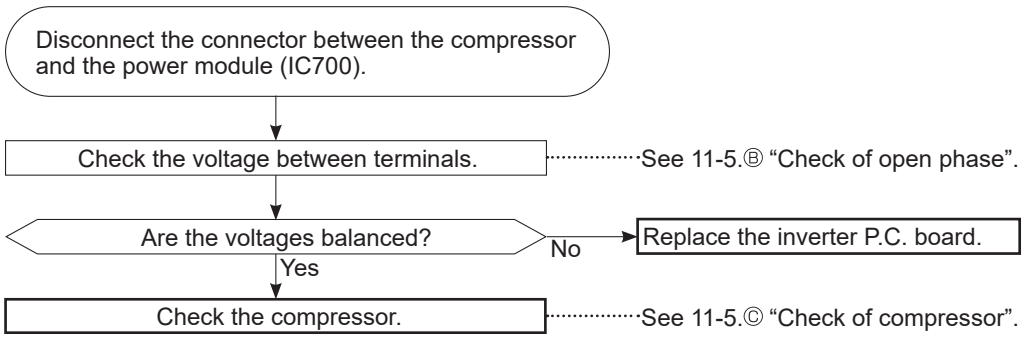
MUZ-GX09NL MUZ-GX12NL MUZ-GX15NL
MUZ-GX18NL MUZ-GX24NL MUZ-GX30NL MUZ-GX36NL
MUY-GX09NL MUY-GX12NL MUY-GX15NL
MUY-GX18NL MUY-GX24NL MUY-GX30NL MUY-GX36NL
MUZ-GX09NLHZ MUZ-GX12NLHZ MUZ-GX15NLHZ
MUZ-GX18NLHZ MUZ-GX24NLHZ

<table>
<tr><th>Part name</th><th>Check method and criterion</th><th>Figure</th></tr>
<tr><td>Defrost thermistor (RT61)
Fin temperature thermistor (RT64)
Ambient temperature thermistor (RT65)
Outdoor heat exchanger temperature thermistor (RT68)</td><td>Measure the resistance with a multimeter.

Refer to 11-6. “Test point diagram and voltage”, 1. “Inverter P.C. board”, for the chart of thermistor.</td><td></td></tr>
<tr><td>Discharge temperature thermistor (RT62)</td><td>Measure the resistance with a multimeter. Before measurement, hold the thermistor with your hands to warm it up.
Refer to 11-6. “Test point diagram and voltage”, 1. “Inverter P.C. board”, for the chart of thermistor.</td><td></td></tr>
<tr><td>Compressor</td><td>Measure the resistance between terminals using a multimeter.
[Temperature: 14 – 104°F (-10 – 40°C)]
<table>
<tr><th></th><th colspan="3">Normal (Ω)</th></tr>
<tr><th></th><th>MUZ-GX09/12NL
MUY-GX09/12NL
MUZ-GX09NLHZ</th><th>MUZ-GX15NL
MUY-GX15NL
MUZ-GX12/15NLHZ</th><th>MUZ-GX18/24/30/36NL
MUY-GX18/24/30/36NL
MUZ-GX18/24NLHZ</th></tr>
<tr><td>U-V
U-W
V-W</td><td>1.83 – 2.49</td><td>1.30 – 1.77</td><td>1.30 – 1.77</td></tr>
</table></td><td> 
</td></tr>
<tr><td>Outdoor fan motor</td><td>Measure the resistance between lead wires using a multimeter.
[Temperature: 14 – 104°F (-10 – 40°C)]
<table>
<tr><th rowspan="2">Color of lead wire</th><th colspan="3">Normal (Ω)</th></tr>
<tr><th>MUZ-GX09/12/15NL
MUY-GX09/12/15NL</th><th>MUZ-GX09/12/15NLHZ</th><th>MUZ-GX18/24/30/36NL
MUY-GX18/24/30/36NL
MUZ-GX18/24NLHZ</th></tr>
<tr><td>RED – BLK
BLK – WHT
WHT – RED</td><td>26 – 40</td><td>29 – 44</td><td>30 – 46</td></tr>
</table></td><td> 
</td></tr>
<tr><td>R. V. coil (21S4)</td><td>Measure the resistance using a multimeter. [Temperature: 14 – 104°F (-10 – 40°C)]
<table>
<tr><th>Normal (kΩ)</th></tr>
<tr><th>MUZ</th></tr>
<tr><td>1.65 – 2.48</td></tr>
</table></td><td></td></tr>
<tr><td>Expansion valve coil (LEV)</td><td>Measure the resistance using a multimeter. [Temperature: 14 – 104°F (-10 – 40°C)]
<table>
<tr><th>Color of lead wire</th><th>Normal (Ω)</th></tr>
<tr><td>BRN – ORN</td><td rowspan="4">37 – 54</td></tr>
<tr><td>BRN – WHT</td></tr>
<tr><td>RED – BLU</td></tr>
<tr><td>RED – YLW</td></tr>
</table></td><td> 
</td></tr>
<tr><td>Defrost heater</td><td>Measure the resistance using a multimeter. [Temperature: 14 – 104°F (-10 – 40°C)]
<table>
<tr><th colspan="2">Normal (Ω)</th></tr>
<tr><th>MUZ-GX09/12/15NLHZ</th><th>MUZ-GX18/24NLHZ</th></tr>
<tr><td>723 – 1,018</td><td>343 – 506</td></tr>
</table></td><td></td></tr>
</table>

11-5. TROUBLESHOOTING FLOW

Ⓐ How to check inverter/compressor



Ⓑ 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.

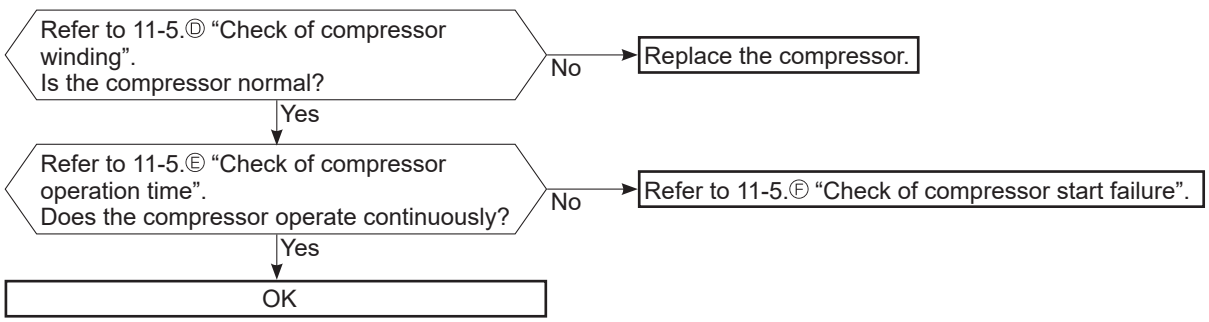
Output voltage is 50 – 130 V. (The voltage may differ according to the multimeter.)

<< Operation method>>
Start cooling or heating operation by pressing the emergency operation switch on the indoor unit. (TEST RUN OPERATION: Refer to 8-6.)
<<Measurement point>>
At 3 points
BLK (U)-WHT (V)
BLK (U)-RED (W)
WHT(V)-RED (W)

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

NOTE: 1. Output voltage varies according to power supply voltage.
2. Measure the voltage by analog type multimeter.
3. During this check, LED of the inverter P.C. board blinks 9 times. (Refer to 11-6.1.)

Ⓒ Check of compressor



Ⓓ Check of compressor winding

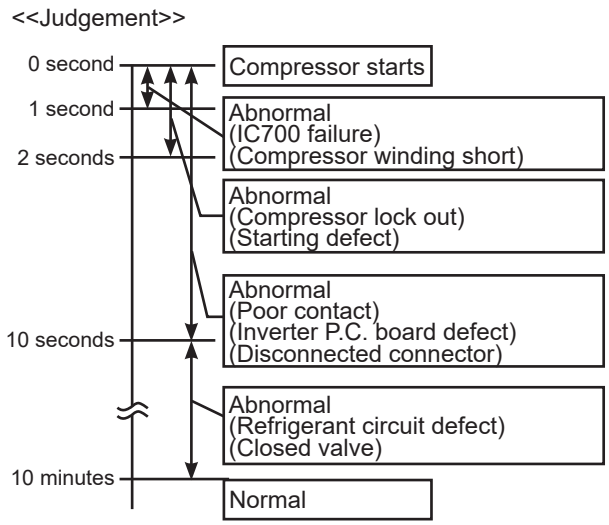
- Disconnect the connector between the compressor and the power module (IC700), and measure the resistance between the compressor terminals.

<<Measurement point>>
At 3 points *Measure the resistance between the lead wires at 3 points.
BLK-WHT
BLK-RED
WHT-RED

<<Judgement>>
Refer to 11-4.
0 [Ω] ·····Abnormal [short]
Infinite [Ω] ·····Abnormal [open]
NOTE: Be sure to zero the ohmmeter before measurement.

Ⓔ 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 8-6.)
  <<Measurement>>
  Measure the time from the start of compressor to the stop of compressor due to overcurrent.



Ⓕ Check of compressor start failure

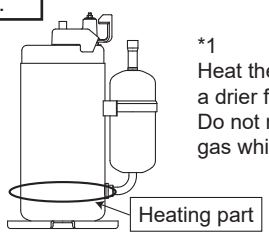
Confirm that ①~④ is normal.
•Electrical circuit check
①. Contact of the compressor connector
②. Output voltage of inverter P.C. board and balance of them (See 11-5.Ⓑ)
③. Direct current voltage between IC700(P) and (N) on the inverter P.C. board
④. Voltage between outdoor terminal block S1-S2

↓

Does the compressor run for 10 seconds or more after it starts?
- Yes → Check the refrigerant circuit. Check the stop valve.
- No ↓

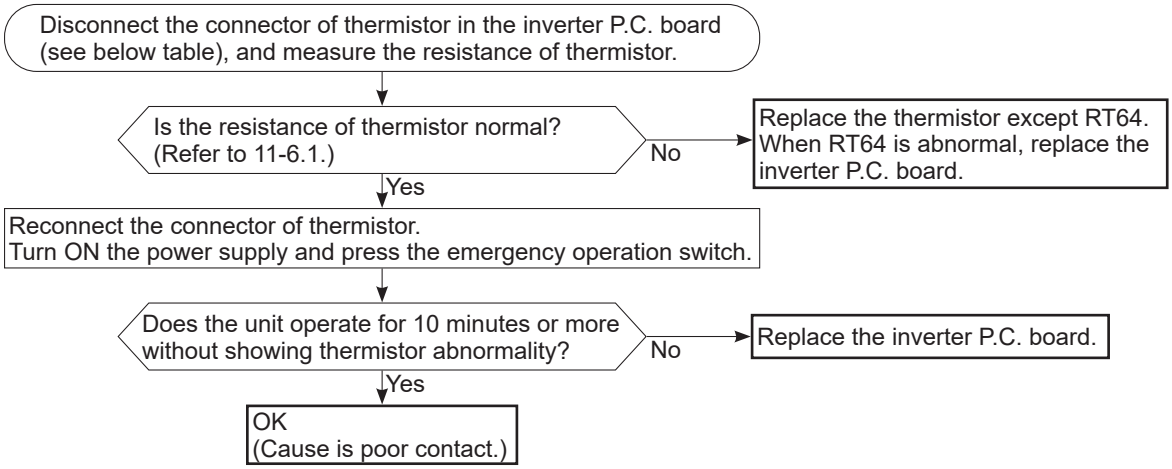
After the compressor is heated with a drier, does the compressor start? *1
- No → Replace the compressor.
- Yes ↓

Compressor start failure. Activate pre-heat control. (Refer to 10-2. “PRE-HEAT CONTROL SETTING”)



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

Ⓖ Check of outdoor thermistors



MUZ-GX09/12/15, MUY-GX09/12/15

Thermistor	Symbol	Connector, Pin No.	Board
Defrost **(MUZ)**	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	

MUZ-GX18/24/30/36, MUY-GX18/24/30/36

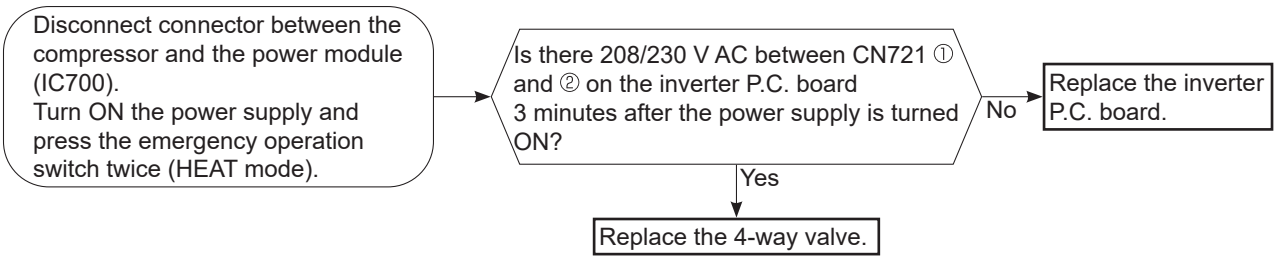
Thermistor	Symbol	Connector, Pin No.	Board
Defrost **(MUZ)**	RT61	Between CN671 pin1 and pin2	Inverter P.C. board
Discharge temperature	RT62	Between CN671 pin3 and pin4	
Fin temperature	RT64	Between CN673 pin1 and pin2	
Ambient temperature	RT65	Between CN672 pin1 and pin2	
Outdoor heat exchanger temperature	RT68	Between CN671 pin5 and pin6	

Ⓗ Check of R.V. coil

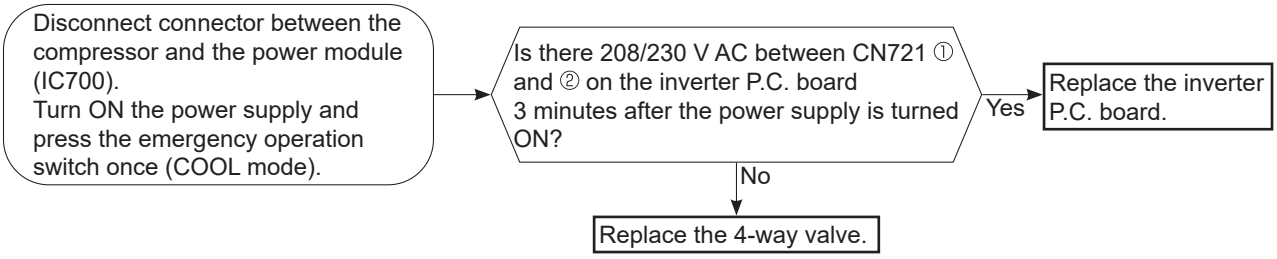
MUZ-GX09/12/15

* First of all, measure the resistance of R.V. coil to check if the coil is defective. Refer to 11-4.
* 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.



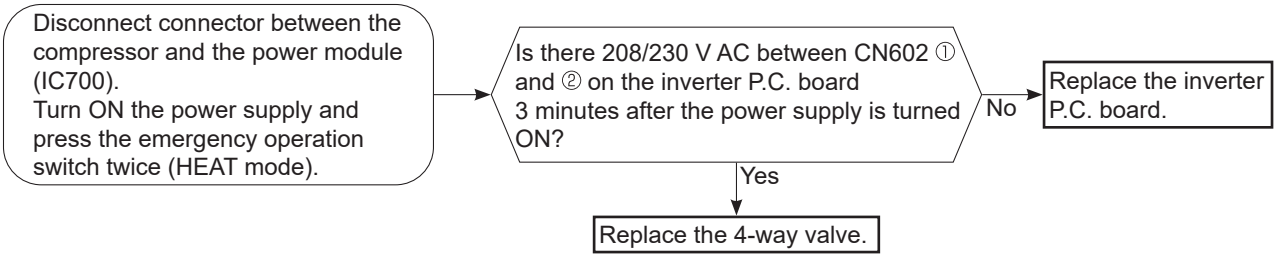
Unit operates in HEAT mode even if it is set to COOL mode.



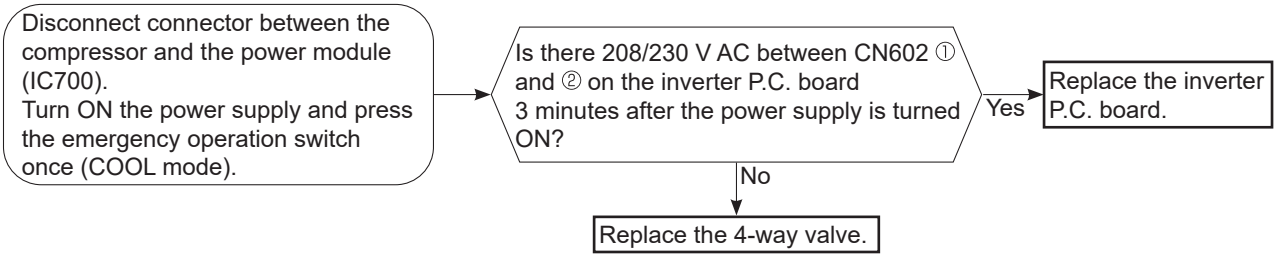
MUZ-GX18/24/30/36

* First of all, measure the resistance of R.V. coil to check if the coil is defective. Refer to 11-4.
* In case CN602 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 CN602 is connected.

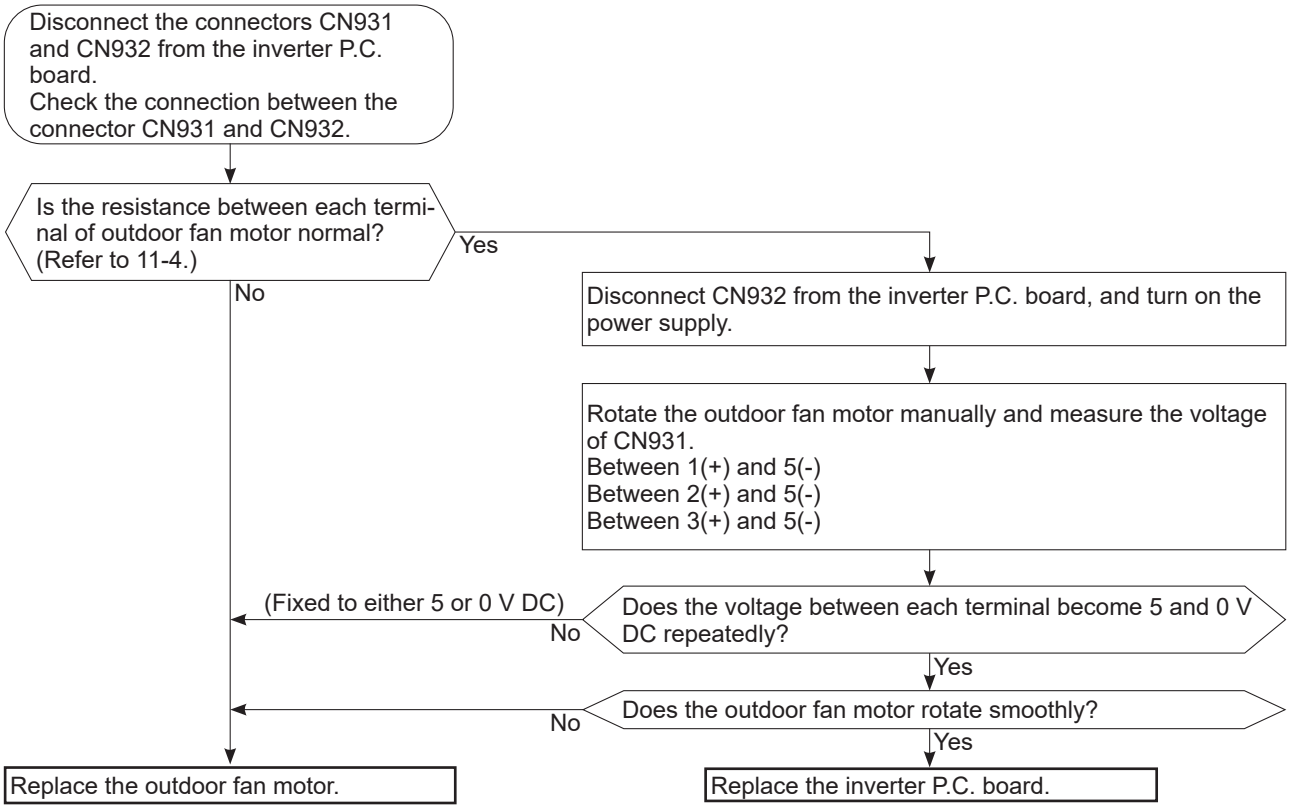
Unit operates in COOL mode even if it is set to HEAT mode.



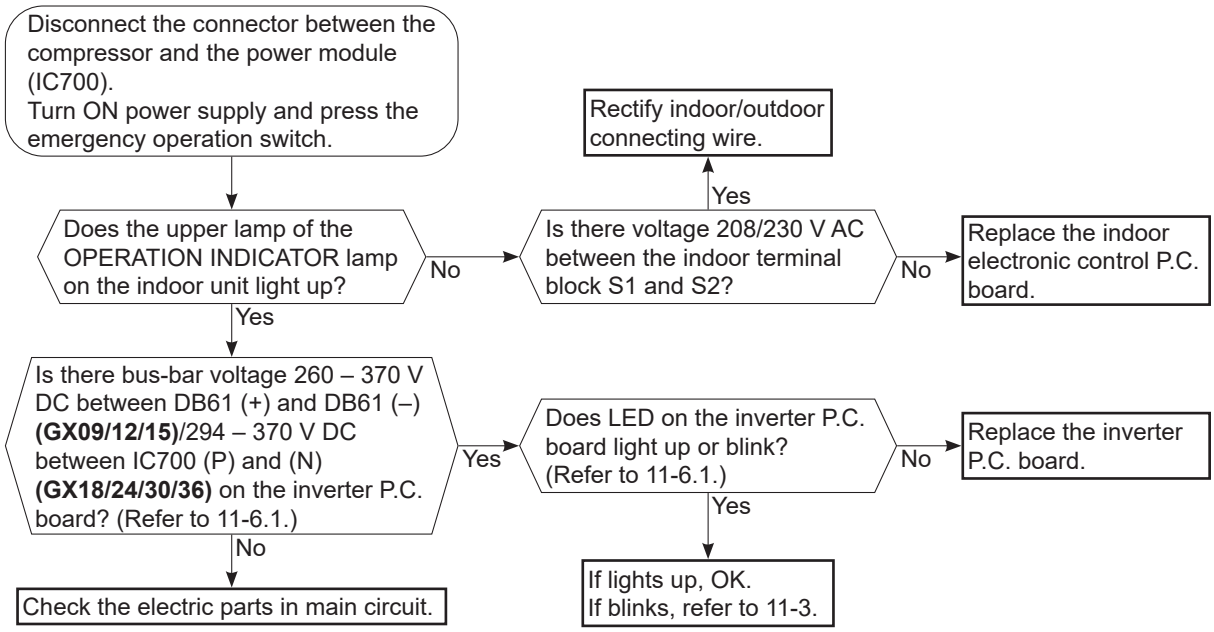
Unit operates in HEAT mode even if it is set to COOL mode.

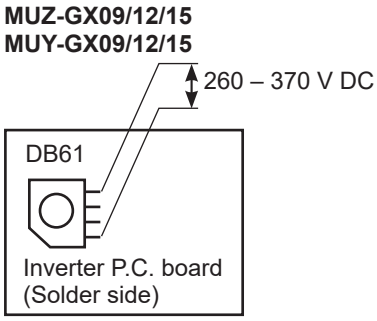


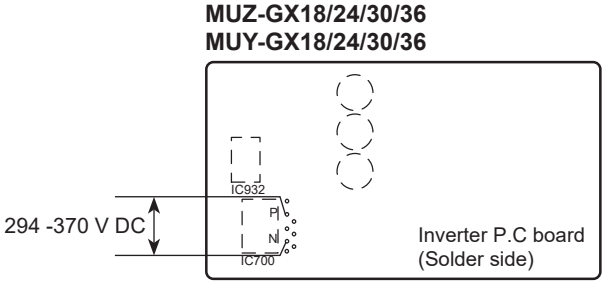
Ⓘ Check of outdoor fan motor



Ⓙ Check of power supply

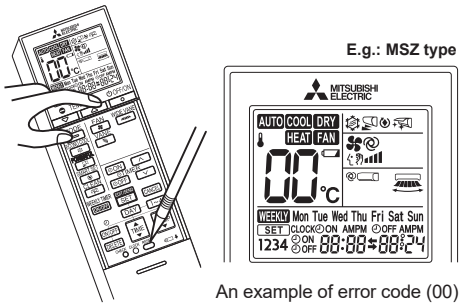






Ⓚ Check of LEV (Expansion valve)

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. **(Figure 1)**
Then release the buttons.



An example of error code (00)

Figure 1

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.

Do you hear the expansion valve "click, click·····"?
Do you feel the expansion valve vibrate when touching it ?
- Yes → OK
- No ↓

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 11-4.)
- No → Replace the LEV coil.
- Yes →

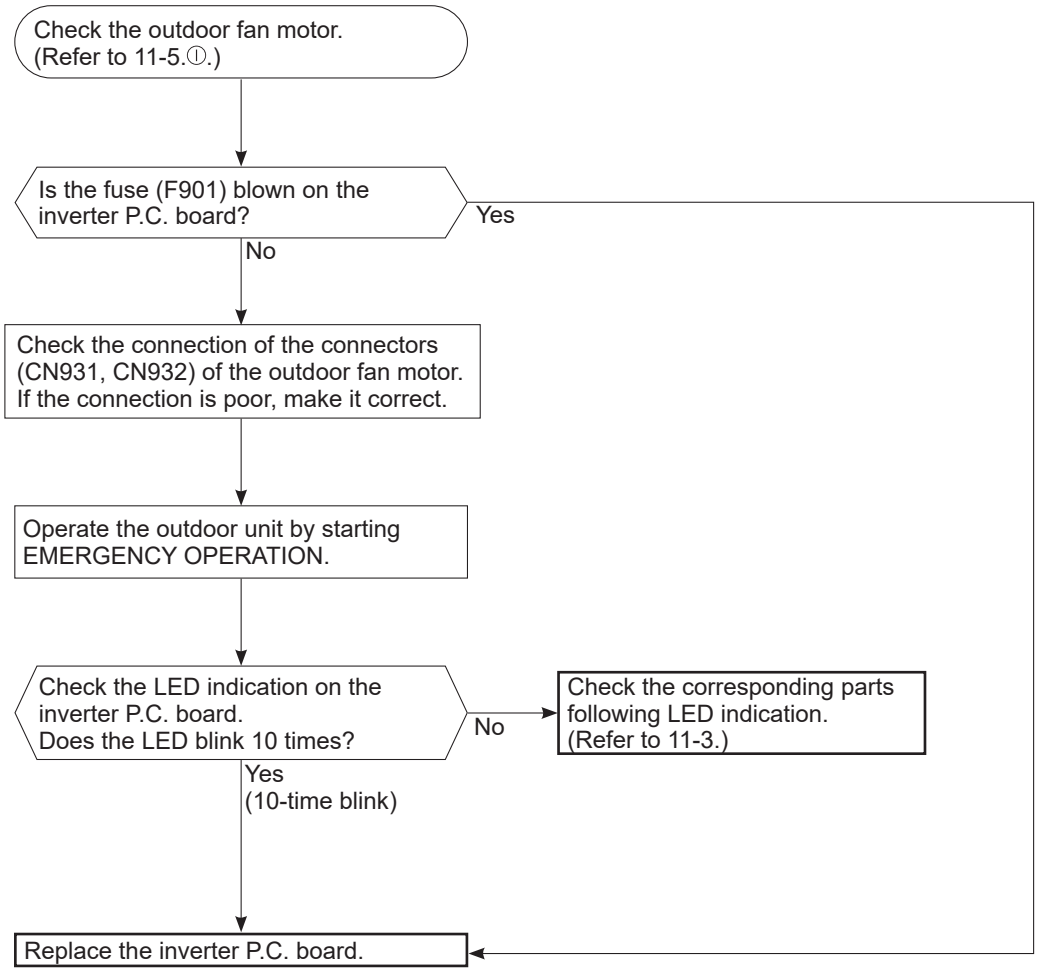
Measure each voltage between connector pins of CN724 on the inverter P.C. board.
1. Pin③(-) — Pin①(+)
2. Pin④(-) — Pin①(+)
3. Pin⑤(-) — Pin①(+)
4. Pin⑥(-) — Pin①(+)

Is there about 3 – 5 V AC between each?
NOTE: Measure the voltage by an analog multimeter.
- No → Replace the inverter P.C. board.
- Yes → Replace the expansion valve.

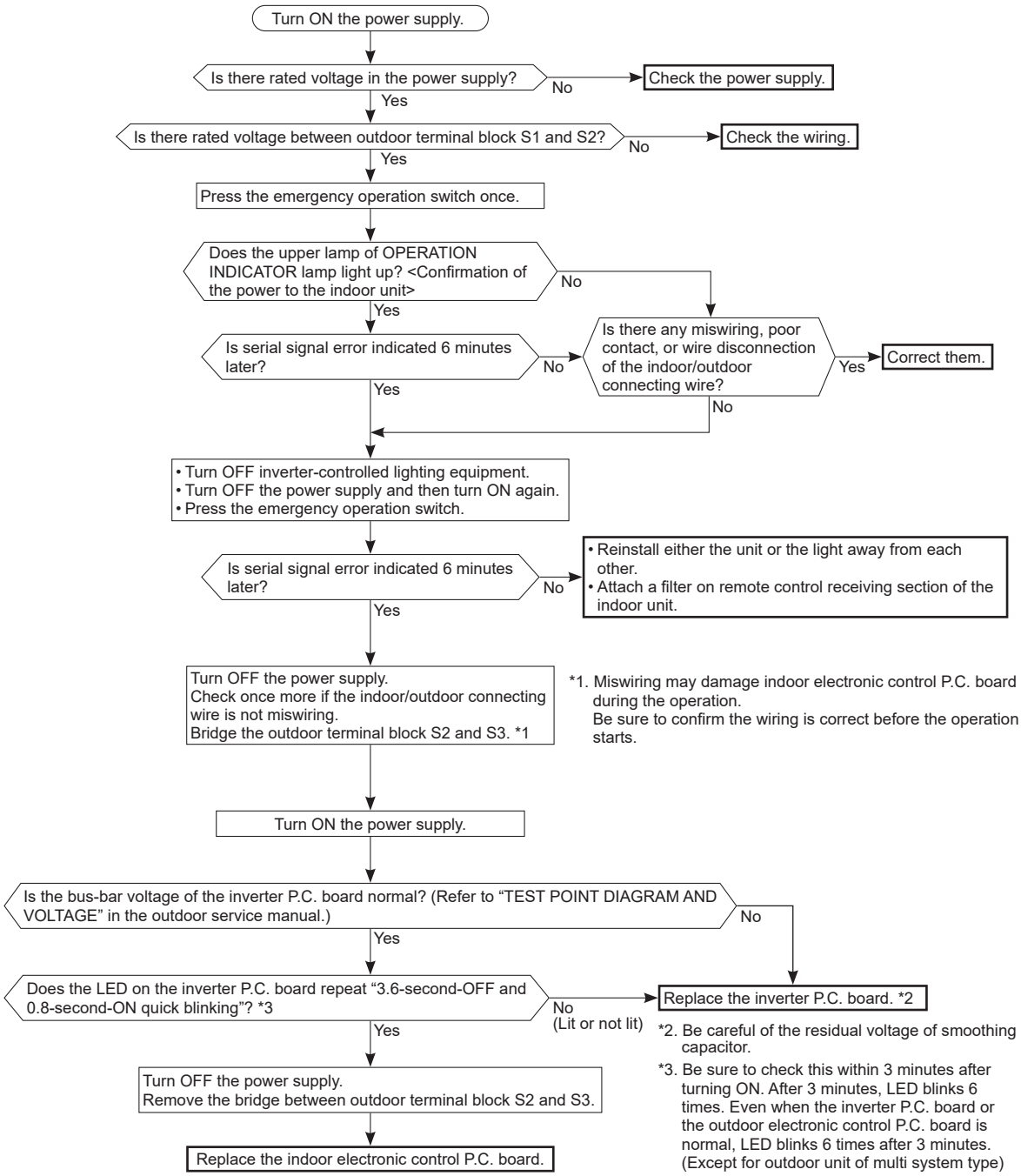
*1. Regardless of normal or abnormal condition, a short beep is emitted once the signal is received.

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.

Ⓛ Check of inverter P.C. board



Ⓜ How to check miswiring and serial signal error



Ⓝ Check of defrost heater

MUZ-GX09/12/15/18/24NLHZ

Check the following points before checking electric continuity.
1. Does the resistance of ambient temperature thermistor have the characteristics? Refer to 11-6.1.
2. Is the resistance of defrost heater normal? Refer to 11-4.
3. Does the heater protector remain conducted (not open)?
4. Are both ambient temperature thermistor and circuit of defrost heater securely connected to connectors?

In HEAT mode, for more than 5 minutes, let the ambient temperature thermistor continue to read 32°F (0°C) or below, and let the defrost thermistor continue to read 30°F (-1°C) or below.

NOTE: In case both thermistors are more than the above temperature, cool them with cold water etc.

Is there 208/230 V AC between CN601 ① and ② on the inverter P.C. board? Refer to 11-6.1.

Yes → Not the problem of the inverter P.C. board.

No → Replace the inverter P.C. board.

Ⓞ Check of 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.

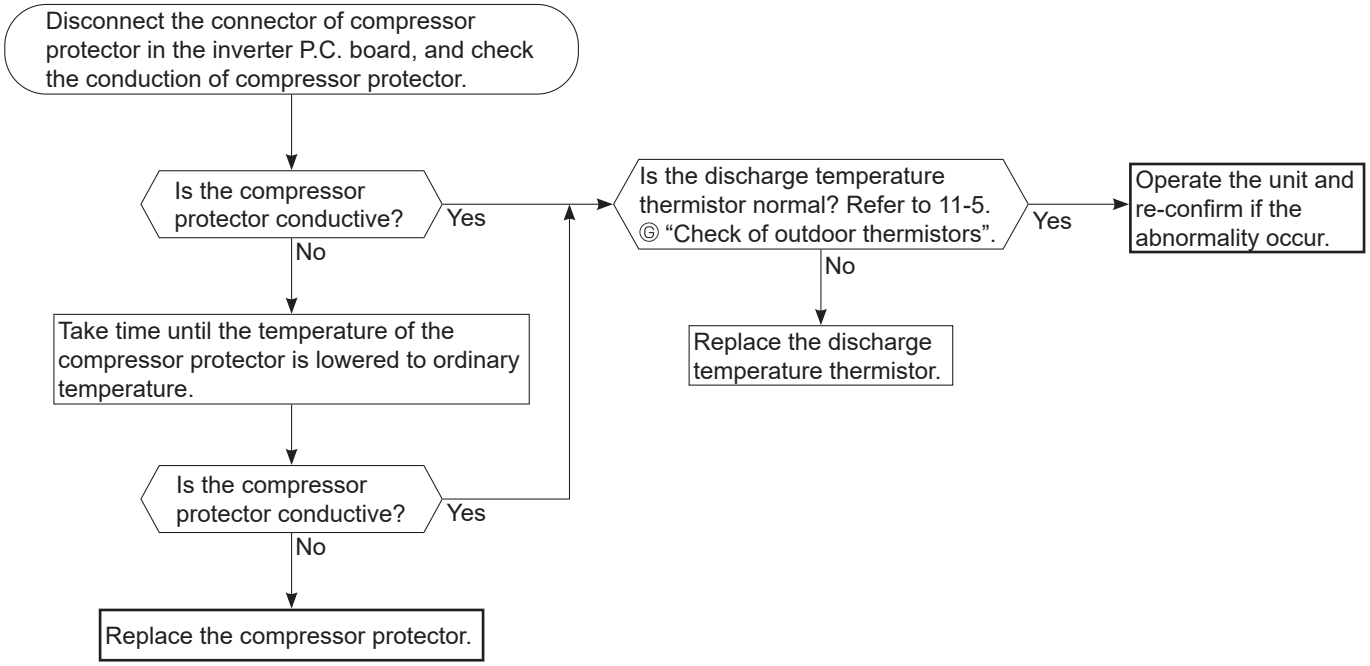
No →

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

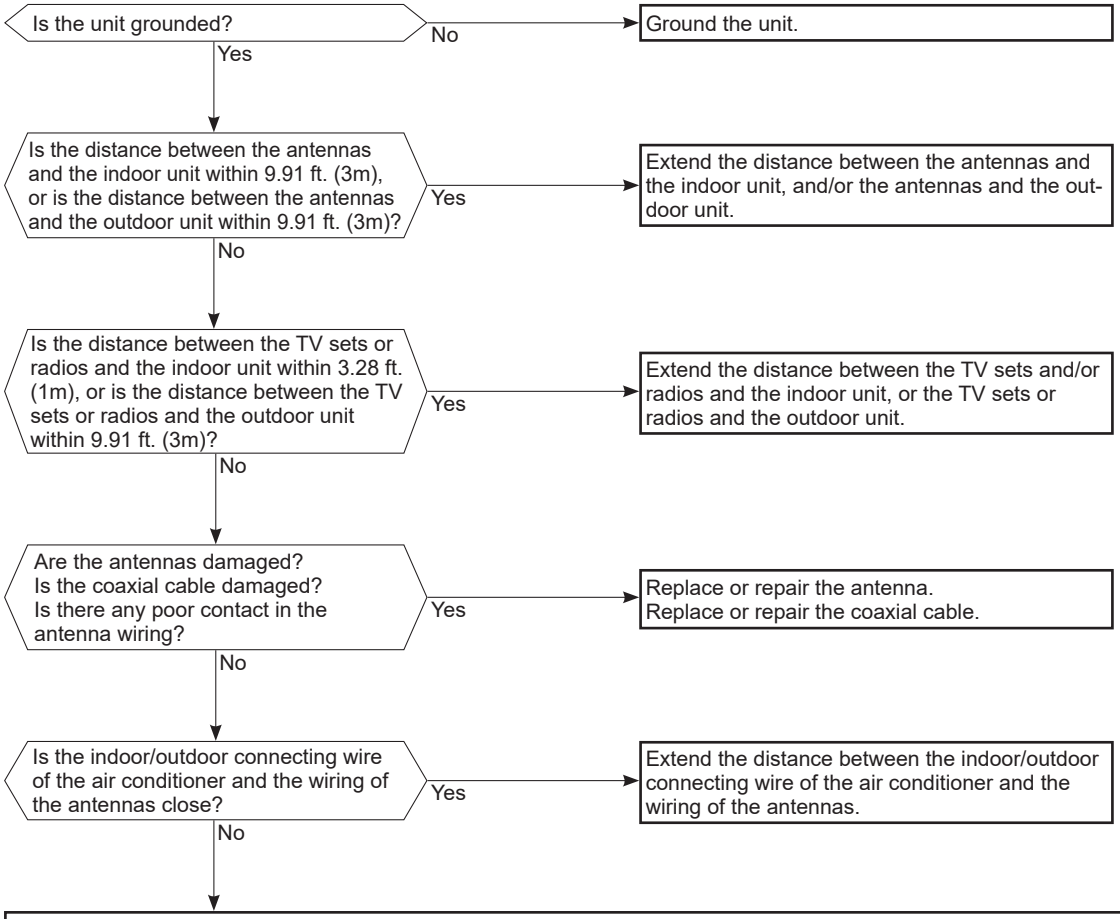
Yes → The unit occasionally stops when the stop valve is opened or closed during operation. Open the stop valve and start the cooling operation again.

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.

Ⓟ Check of compressor protector



Q Electromagnetic noise enters into TV sets or radios



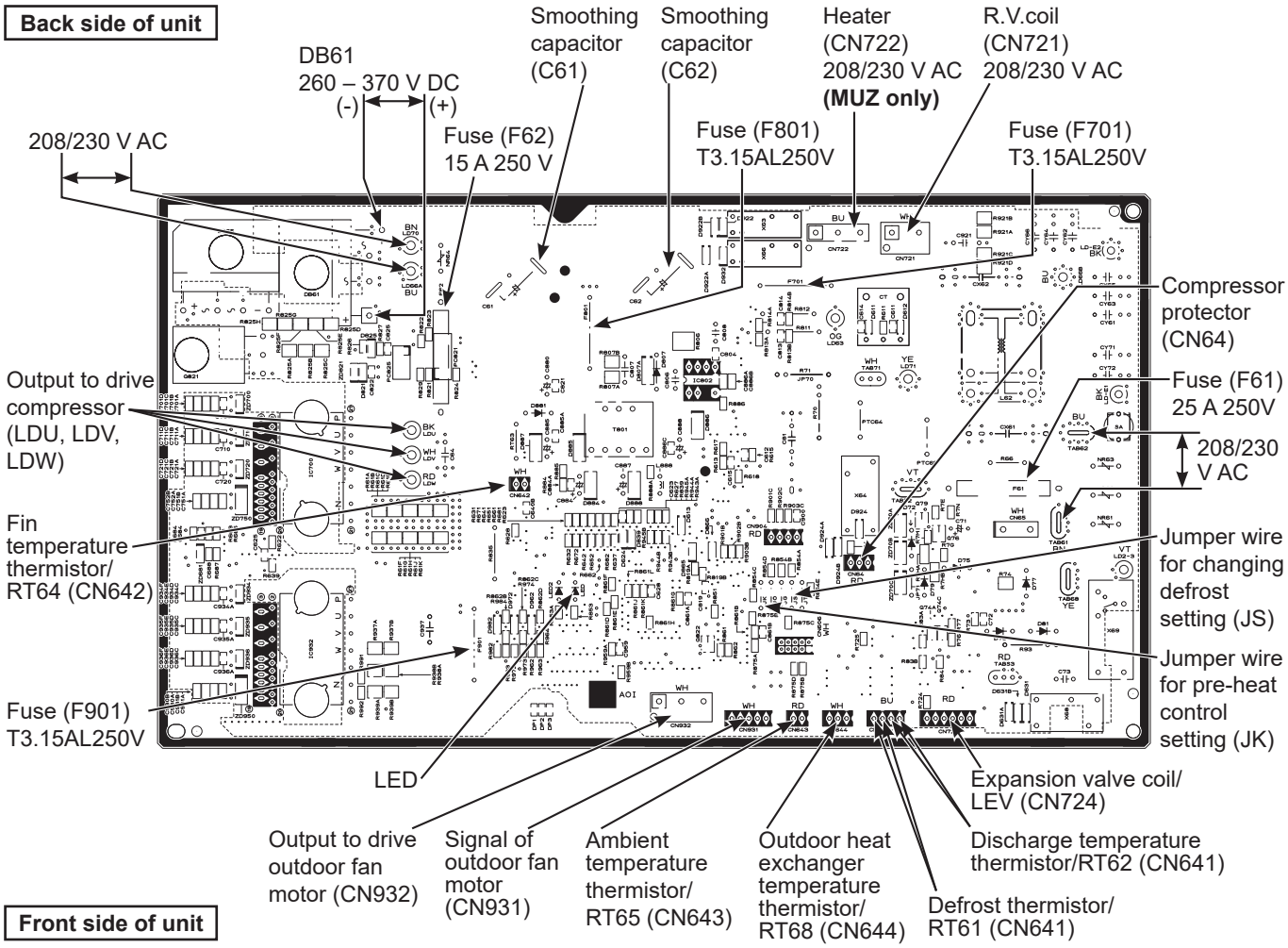
Even if all of the above conditions are fulfilled, the electromagnetic noise may enter, depending on the electric field strength or the installation condition (combination of specific conditions such as antennas or wiring).
Check the following before asking for service.

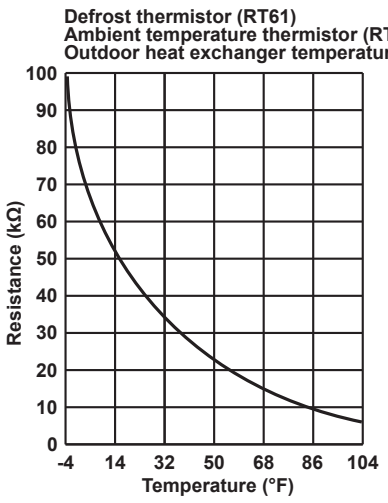
1. Devices affected by the electromagnetic noise
   TV sets, radios (FM/AM broadcast, shortwave)
2. Channel, frequency, broadcast station affected by the electromagnetic noise
3. Channel, frequency, broadcast station unaffected by the electromagnetic noise
4. Layout of:
   indoor/outdoor unit of the air conditioner, indoor/outdoor wiring, ground wire, antennas, wiring from antennas, receiver
5. Electric field intensity of the broadcast station affected by the electromagnetic noise
6. Presence or absence of amplifier such as booster
7. Operation condition of air conditioner when the electromagnetic noise enters in
   1) Turn OFF the power supply once, and then turn ON the power supply. In this situation, check for the electromagnetic noise.
   2) Within 3 minutes after turning ON the power supply, press OFF/ON (stop/operate) button on the remote controller for power ON, and check for the electromagnetic noise.
   3) After a short time (3 minutes later after turning ON), the outdoor unit starts running. During operation, check for the electromagnetic noise.
   4) Press OFF/ON (stop/operate) button on the remote controller for power OFF, when the outdoor unit stops but the indoor/outdoor communication still runs on. In this situation, check for the electromagnetic noise.

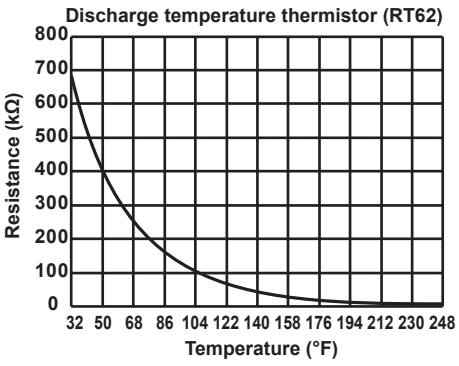
11-6. TEST POINT DIAGRAM AND VOLTAGE

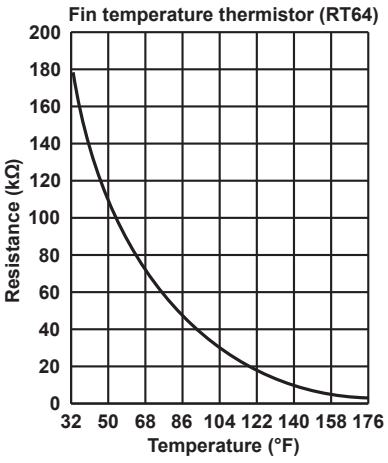
1. Inverter P.C. board

MUZ-GX09NL MUZ-GX12NL MUZ-GX15NL
MUY-GX09NL MUY-GX12NL MUY-GX15NL
MUZ-GX09NLHZ MUZ-GX12NLHZ MUZ-GX15NLHZ









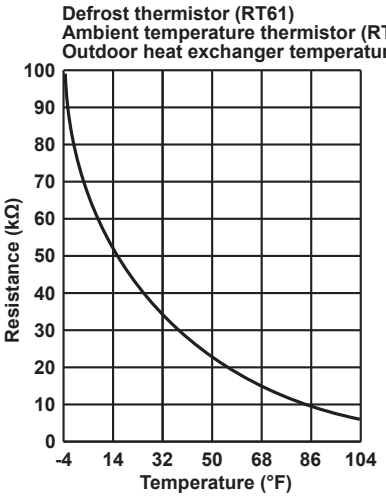
1. Inverter P.C. board

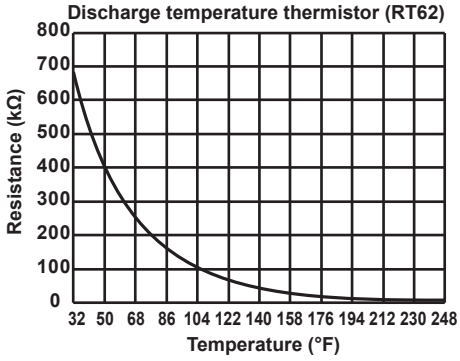
MUZ-GX18NL MUZ-GX24NL MUZ-GX30NL MUZ-GX36NL
MUY-GX18NL MUY-GX24NL MUY-GX30NL MUY-GX36NL
MUZ-GX18NLHZ MUZ-GX24NLHZ

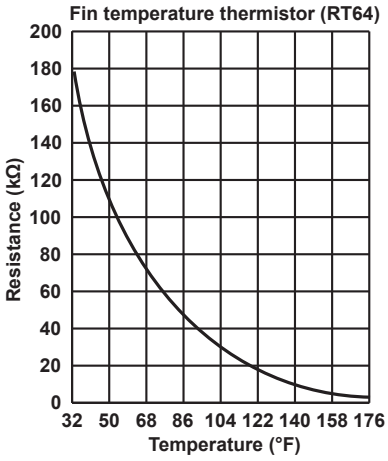
Back side of unit

Smoothing Capacitor (CB1)
Smoothing Capacitor (CB2)
Smoothing Capacitor (CB3)
Fuse (F880) T3.15AL250V
Output to drive outdoor fan motor (CN932)
Heater (CN601) 230 V AC **(MUZ only)**
Fuse (F601) T3.15AL250V **(MUZ only)**
LED
208/230 V AC
Fuse (F62) 15 A 250 V
Fuse (F901) T3.15AL250V
Output to drive compressor (LDU, LDV, LDW)
IC700 (P) 294 – 370 V DC
IC700 (N)
R.V. coil/ 21S4 (CN602) 208/230 V AC **(MUZ only)**
Jumper wire for changing defrost setting (JS)
Jumper wire for pre-heat control setting (JK)
Fuse (F61) 25 A 250V
Defrost temperature thermistor/RT61 (CN671)
Discharge temperature thermistor/RT62 (CN671)
Outdoor heat exchanger temperature thermistor /RT68 (CN671)
Ambient temperature thermistor /RT65 (CN672)
Signal of outdoor fan motor (CN931)
Fin temperature thermistor/RT64 (CN673)
Expansion valve coil/LEV (CN724)
Compressor protector (CN64)

Front side of unit

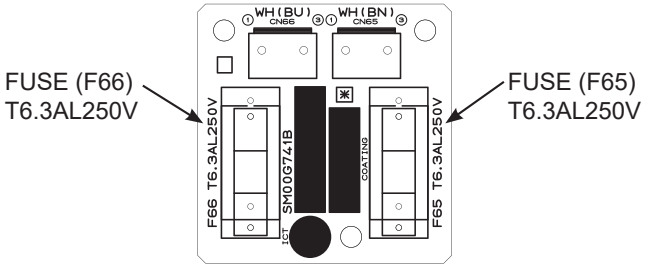






2. Fuse P.C. board

MUZ-GX18NL MUZ-GX24NL MUZ-GX30NL MUZ-GX36NL
MUY-GX18NL MUY-GX24NL MUY-GX30NL MUY-GX36NL
MUZ-GX18NLHZ MUZ-GX24NLHZ

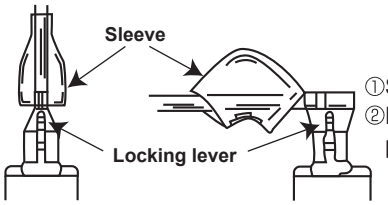


12 DISASSEMBLY INSTRUCTIONS

<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 the connector shown below has the locking mechanism.

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

12-1. MUZ-GX09NL MUZ-GX12NL MUZ-GX15NL
MUY-GX09NL MUY-GX12NL MUY-GX15NL
MUZ-GX09NLHZ MUZ-GX12NLHZ MUZ-GX15NLHZ

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

1. Removing the cabinet

(1) Remove the screws fixing the service panel.
(2) Pull down the service panel and remove it.
(3) Remove the screws fixing the conduit cover. (Photo 4)
(4) Remove the conduit cover.
(5) Remove the screw fixing the conduit plate. (Photo 5)
(6) Remove the conduit plate.
(7) Disconnect the power supply wire and indoor/outdoor connecting wire.
(8) Remove the screws fixing the top panel.
(9) Remove the top panel.
(10) Remove the screws fixing the cabinet.
(11) Remove the cabinet.
(12) Remove the screws fixing the back panel. (Photo 5, 6)
(13) Remove the back panel.

NOTE: If the red labels have been removed during the operation, put them back in the original position after the operation. Red labels indicate the use of flammable refrigerants. (Figure 1)

Photo 1

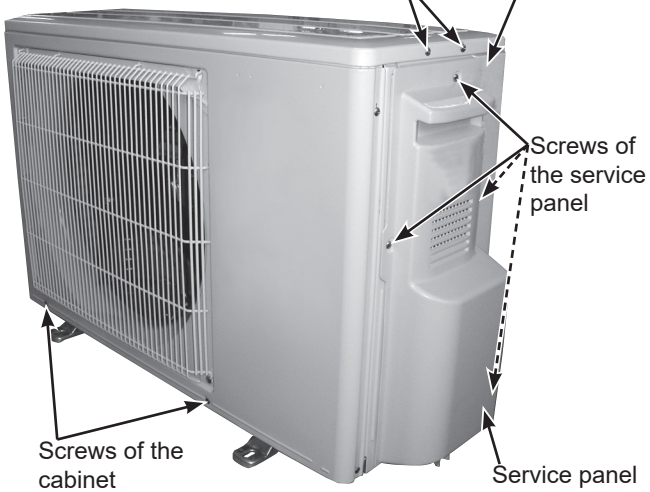


Photo 2

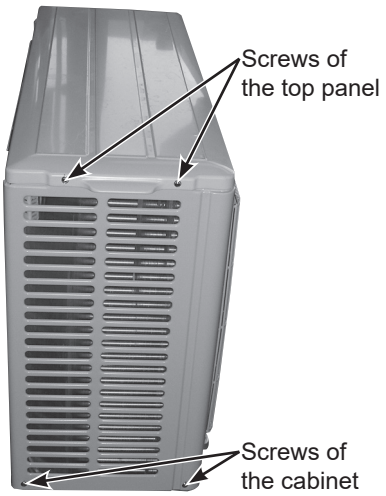


Photo 3

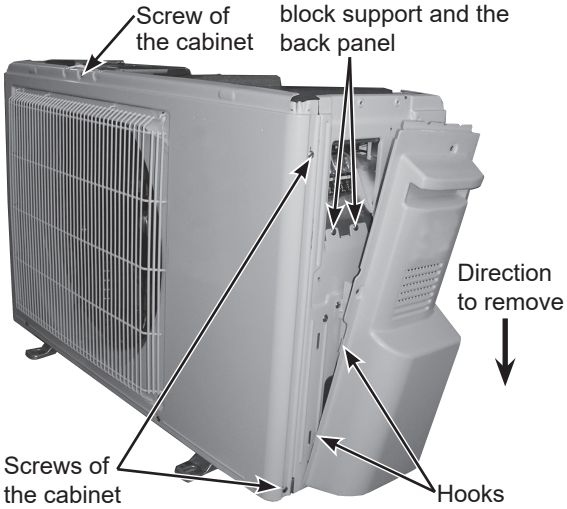
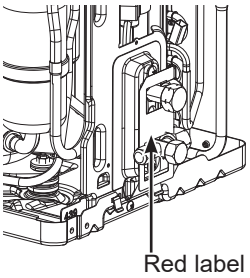
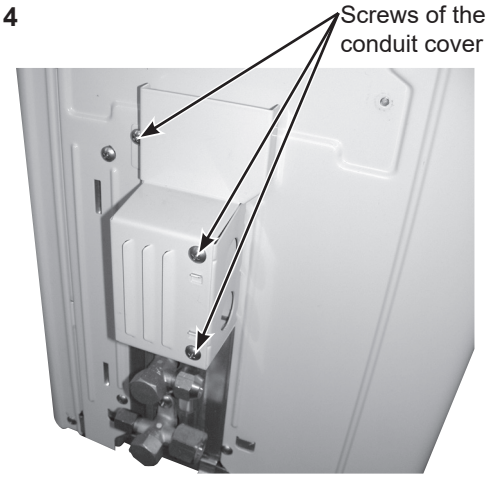
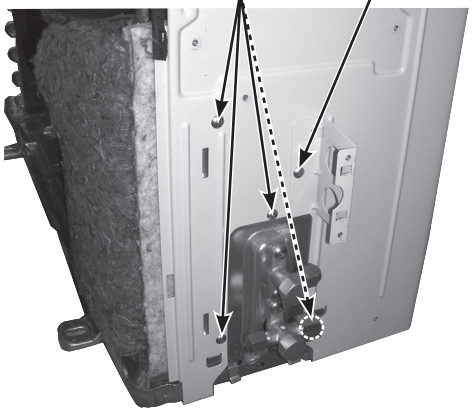
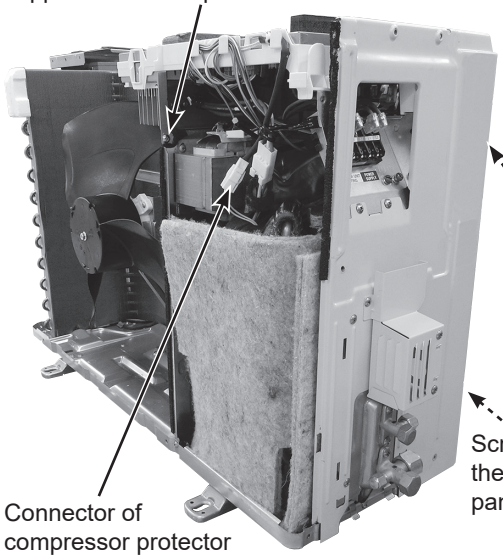
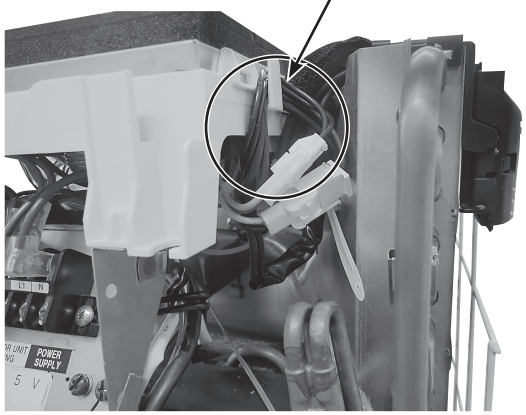


Figure 1



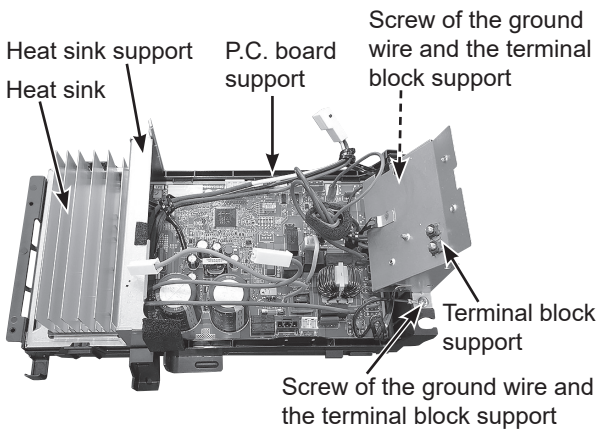
OPERATING PROCEDURE	PHOTOS/FIGURES
Photo 4 	**Photo 5** 
2. Removing the inverter assembly, inverter P.C. board (1) Remove the top panel, cabinet and service panel. (Refer to section 1.) (2) Disconnect the lead wire to the reactor and the following connectors: <Inverter P.C. board> CN721 (R.V. coil) CN722 (Defrost heater and heater protector) **(NLHZ only)** 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) CN64 (Compressor protector) (3) Remove the compressor connector (CN61). (4) Remove the screws fixing the heat sink support and the separator. (5) Remove the fixing screws of the terminal block support and the back panel. (6) Remove the inverter assembly. (7) Remove the screws of the ground wires and the terminal block support. (Photo 8) (8) Remove the heat sink support from the P.C. board support. (9) Remove the inverter P.C. board from the P.C. board support.	**Photo 6** 
	Photo 7 (NLHZ only) 

OPERATING PROCEDURE

*** Connection procedure when attaching the inverter P.C. board (Photo 9)**

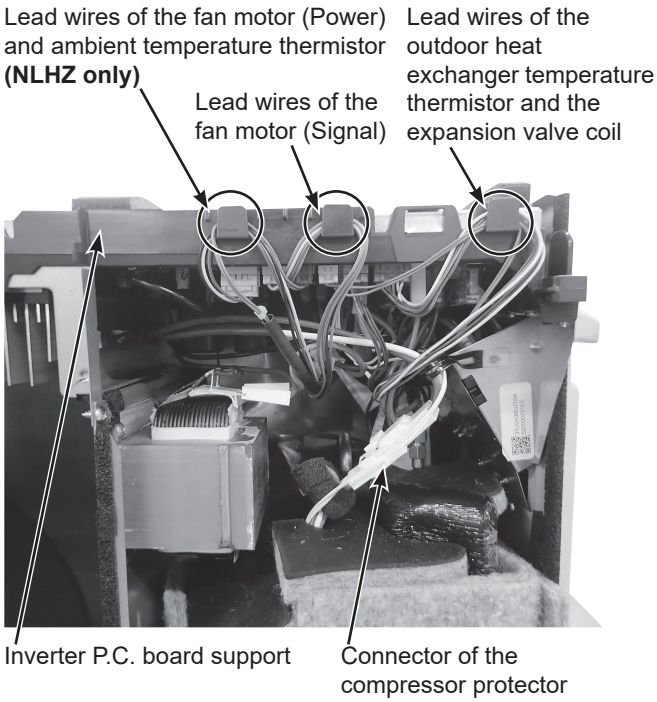
1. Connect the lead wires of the fan motor (Power) and ambient temperature thermistor **(NLHZ only)** to the connector on the inverter P.C. board. Pull the lead wires toward you and put them on the left hook on the P.C. board support.
2. Connect the lead wires of the fan motor (Signal) to the connector on the inverter P.C. board. Pull the lead wires toward you and put them on the middle of the hook on the P.C. board support.
3. Connect the lead wires of the outdoor heat exchanger 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.
4. 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 [so that the compressor protector lead wires are bundled up as shown in Photo 9 **(GX12NLHZ, GX15 only)]**.
5. Put the lead wires of the defrost heater and the heater protector on the hook. (Photo 7) **(NLHZ only)**

Photo 8 (Inverter assembly)

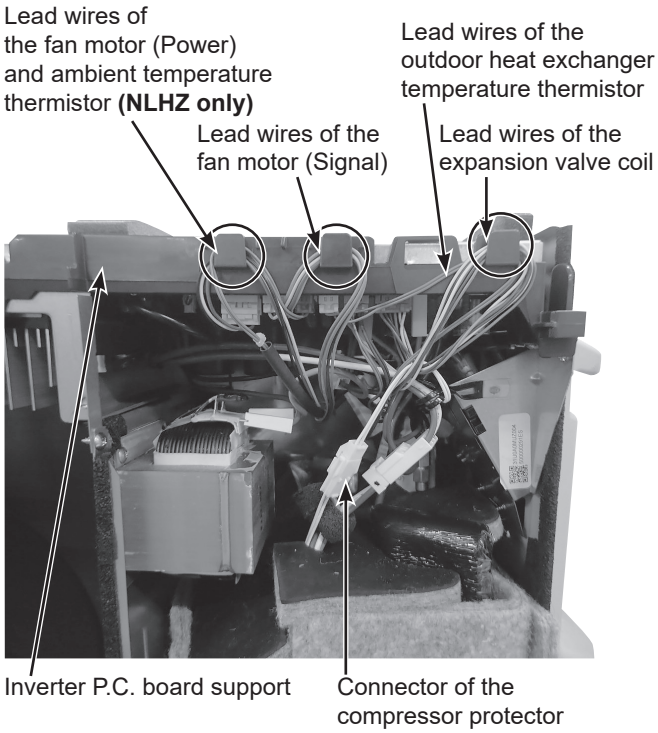


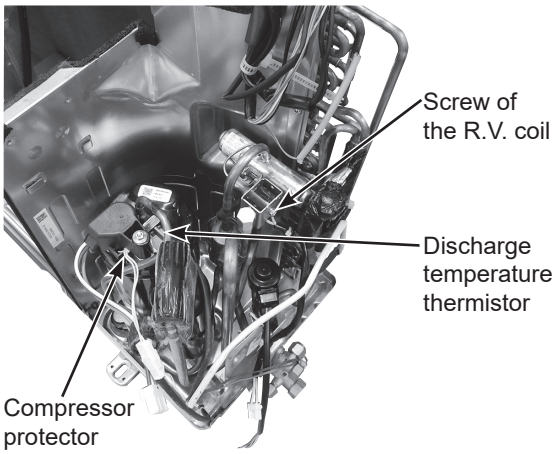
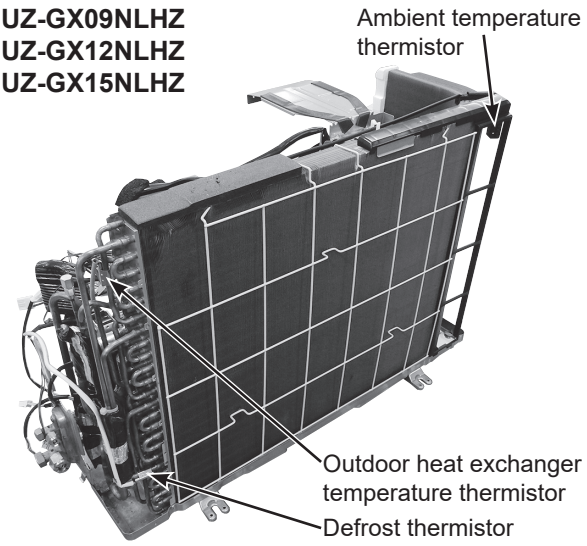
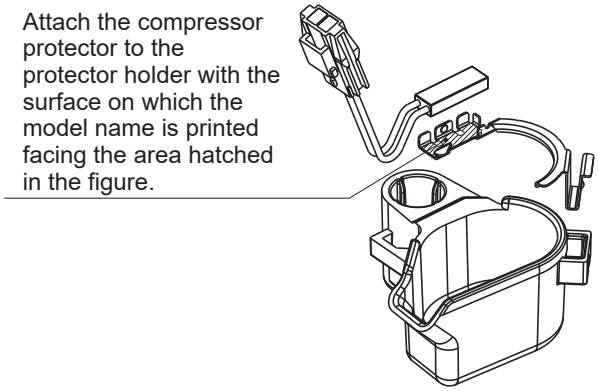
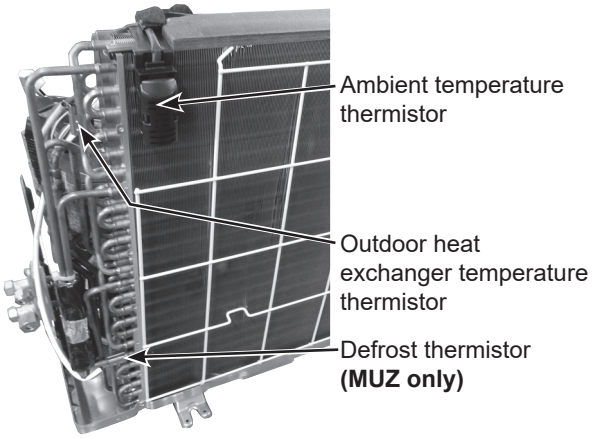
PHOTOS/FIGURES

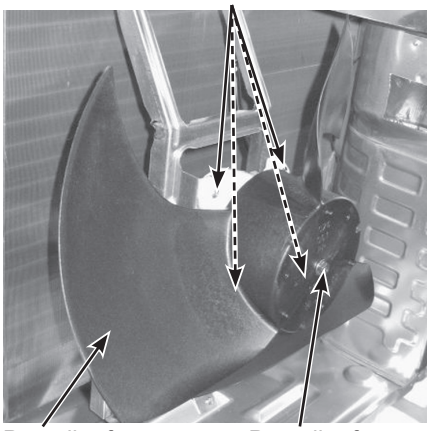
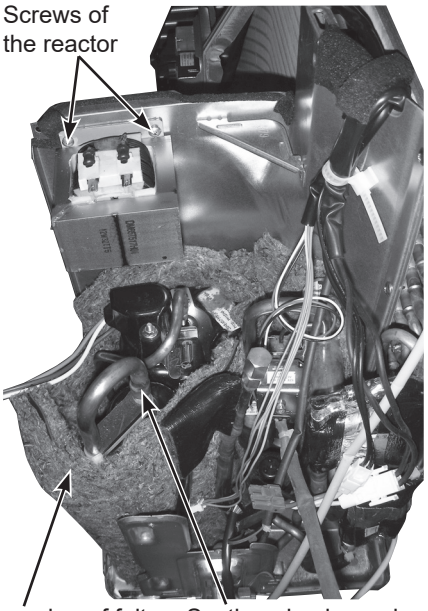
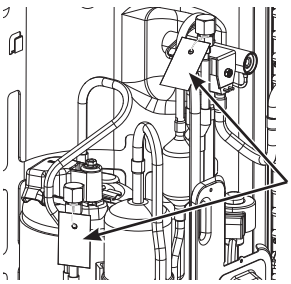
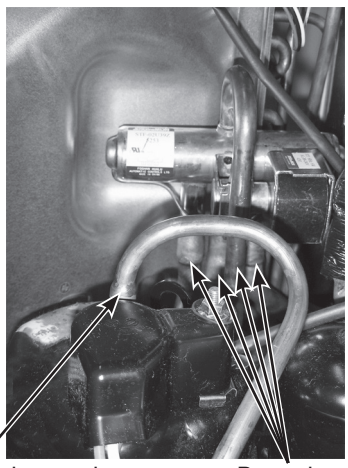
Photo 9
MUZ-GX09NL MUZ-GX09NLHZ MUY-GX09NL
MUZ-GX12NL MUY-GX12NL



MUZ-GX12NLHZ
MUZ-GX15NL MUZ-GX15NLHZ MUY-GX15NL



OPERATING PROCEDURE	PHOTOS/FIGURES
3. Removing R.V. coil (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.	**Photo 10** 
4. Removing the discharge temperature thermistor, defrost thermistor, outdoor heat exchanger temperature thermistor and ambient temperature thermistor (1) Remove the top panel, cabinet and service panel. (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.	**Photo 11** **MUZ-GX09NLHZ** **MUZ-GX12NLHZ** **MUZ-GX15NLHZ** 
Figure 2  	**Other models** 

OPERATING PROCEDURE	PHOTOS/FIGURES
5. Removing outdoor fan motor (1) Remove the top panel, cabinet and service panel. (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. **NOTE**: The propeller fan nut is a reverse thread.	**Photo 12** Screws of the outdoor fan motor  Propeller fan Propeller fan nut
6. Removing the compressor and 4-way valve (1) Remove the cabinet and panels. (Refer to section 1.) (2) Remove the inverter assembly. (Refer to section 2.) (3) Remove the screws fixing the reactor. (4) Remove the reactor. (5) Remove the soundproof felt. (6) Recover gas from the refrigerant circuit. **NOTE:** Recover gas from the pipes until the pressure gauge shows 0 psig. (7) Detach the brazed part of the suction and the discharge pipe connected with compressor. (8) Remove the nuts fixing the compressor. (9) Remove the compressor. (10) Detach the brazed part of pipes connected with 4-way valve. **NOTE:** If the red labels have been removed during the operation, put them back in the original position after the operation. Red labels indicate the use of flammable refrigerants. (Figure 3)	**Photo 13** Screws of the reactor  Soundproof felt Suction pipe brazed part **Figure 3**  Red labels
Photo 14  Discharge pipe brazed part Brazed parts of 4-way valve	

12-2. MUZ-GX18NL MUZ-GX24NL MUZ-GX30NL MUZ-GX36NL
MUY-GX18NL MUY-GX24NL MUY-GX30NL MUY-GX36NL
MUZ-GX18NLHZ MUZ-GX24NLHZ

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

NOTE: Turn OFF the power supply before disassembly.

OPERATING PROCEDURE

1. Removing the cabinet

(1) Remove the screws of the service panel.
(2) Remove the screws of the top panel.
(3) Remove the screw of the valve cover.
(4) Remove the service panel.
(5) Remove the top panel.
(6) Remove the valve cover.
(7) Remove the screws fixing the conduit cover. (Photo 5)
(8) Remove the conduit cover.
(9) Remove the screw fixing the conduit plate. (Photo 6)
(10) Remove the conduit plate.
(11) Disconnect the power supply and indoor/outdoor connecting wire.
(12) Remove the screws of the cabinet.
(13) Remove the cabinet.
(14) Remove the screws of the back panel.
(15) Remove the back panel.

NOTE: If the red labels have been removed during the operation, put them back in the original position after the operation. Red labels indicate the use of flammable refrigerants. (Figure 1)

PHOTOS/FIGURES

Photo 1

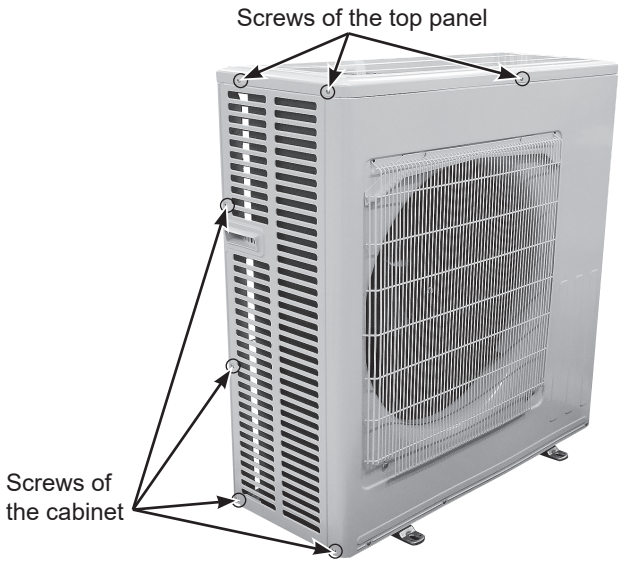


Figure 1

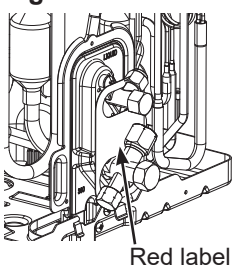


Photo 2

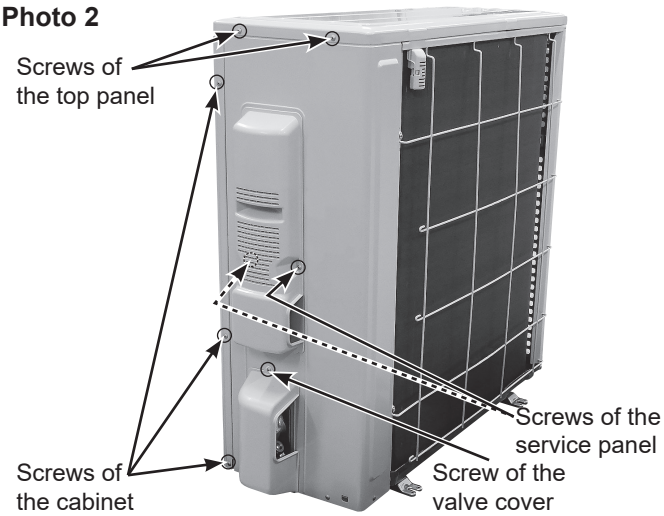


Photo 3

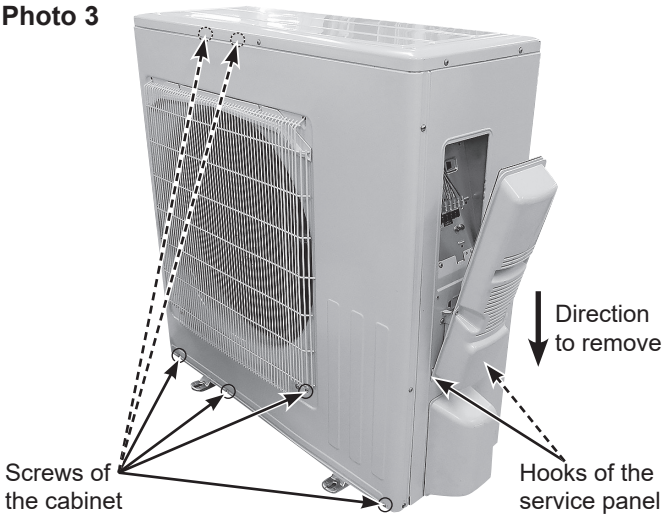
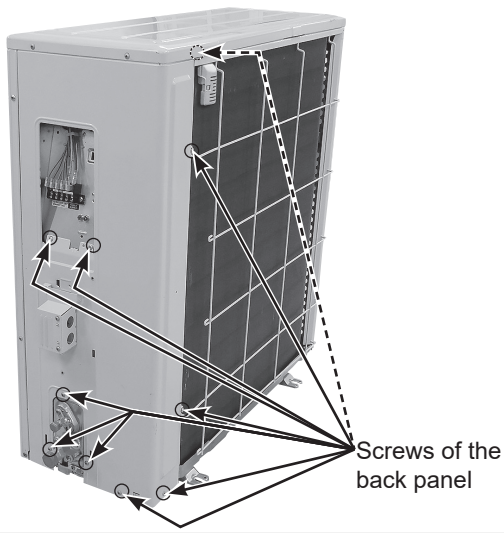
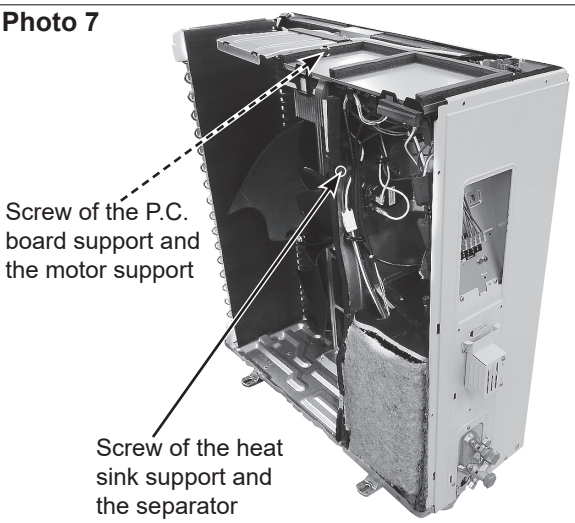
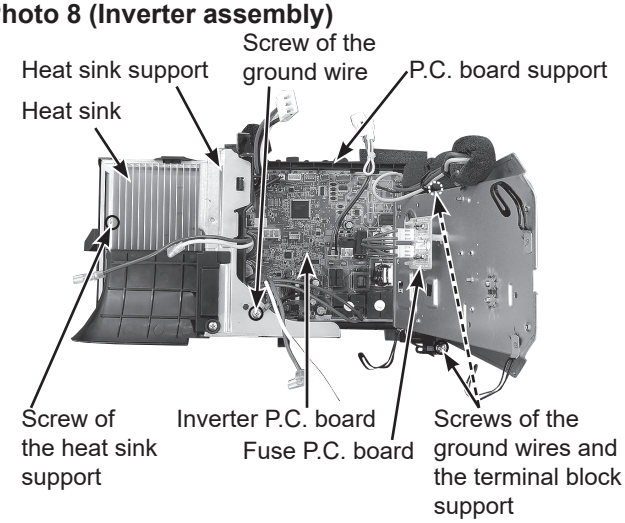


Photo 4



OPERATING PROCEDURE	PHOTOS/FIGURES
Photo 5 Screws of the conduit cover	**Photo 6** Screw of the conduit plate
2. Removing the inverter assembly, inverter P.C. board and fuse P.C. board **2-1. Removing the inverter assembly and inverter P.C. board** (1) Remove the top panel, cabinet and service panel. (Refer to section 1.) (2) Disconnect the lead wire to the reactor and the following connectors: <Inverter P.C. board> CN602 (R.V. coil) **(MUZ)** CN931, CN932 (Fan motor) CN671 (Defrost thermistor **(MUZ)**, discharge temperature thermistor and outdoor heat exchanger temperature thermistor) CN672 (Ambient temperature thermistor) CN724 (Expansion valve coil) CN601 (Defrost heater and heater protector) **(NLHZ)** CN64 (Compressor protector) (3) Remove the compressor connector (CN61). (4) Remove the screws fixing the heat sink support and the separator. (5) Remove the screws fixing the P.C. board support and the motor support. (6) Remove the inverter assembly. (7) Remove the screws of the ground wires and the terminal block support. (8) Remove the screw of the heat sink support, and the heat sink support from the P.C. board support.	**Photo 7**  **Photo 8 (Inverter assembly)** 

OPERATING PROCEDURE

*** Connection procedure when attaching the inverter P.C. board (Photo 8, 9, 10, 11, 12)**

1. Attach the heat sink support to the P.C. board support.
2. Hook the lead wires of the compressor, the reactor and the P.C. board to each hooks on the heat sink support as shown in Photo 11.
3. Connect the lead wires of the expansion valve coil to the connector on the inverter P.C. board. Pull the lead wires of the expansion valve coil toward you and put them on the left hook on the P.C. board support as shown in Photo 12.
4. Hook the lead wires of the compressor, discharge temperature thermistor, defrost thermistor and expansion valve coil to each hook and tighten the wires with the fastener as shown in Photo 12.
5. Hook the lead wires of the defrost heater and the heater protector. (Photo 9) **(NLHZ only)**

PHOTOS/FIGURES

Photo 11

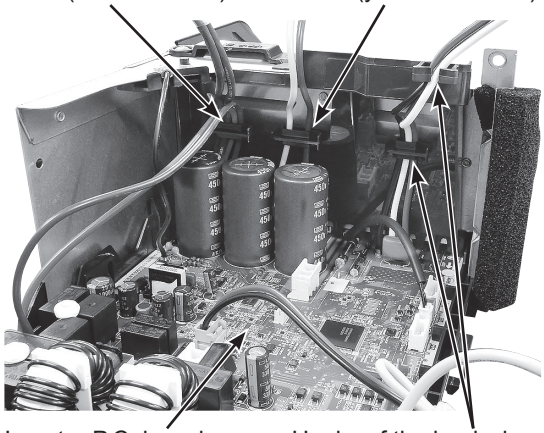


Photo 9 (NLHZ only)

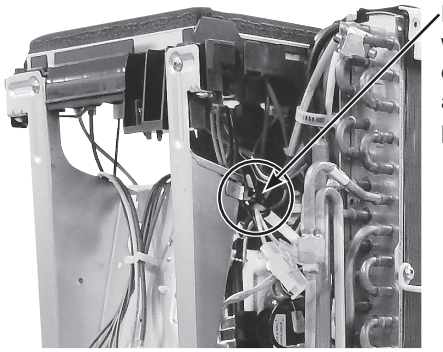


Photo 12

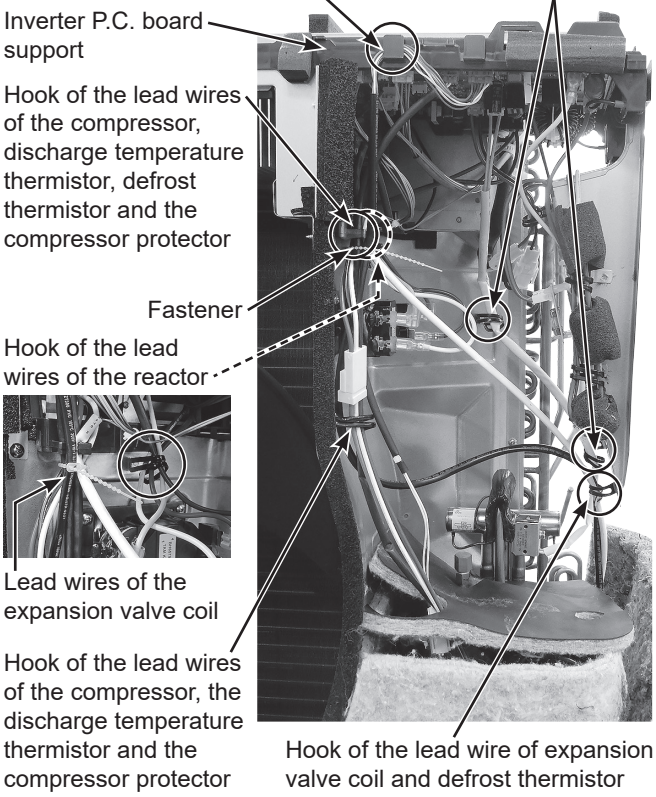
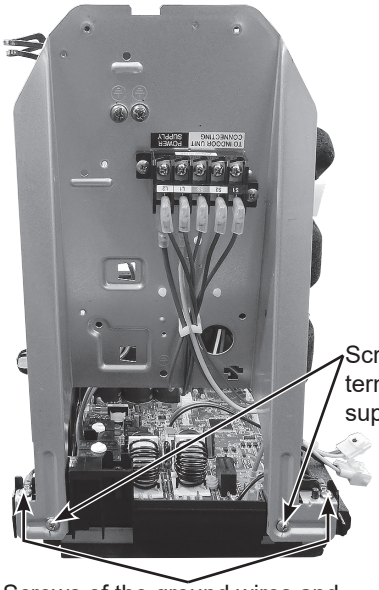
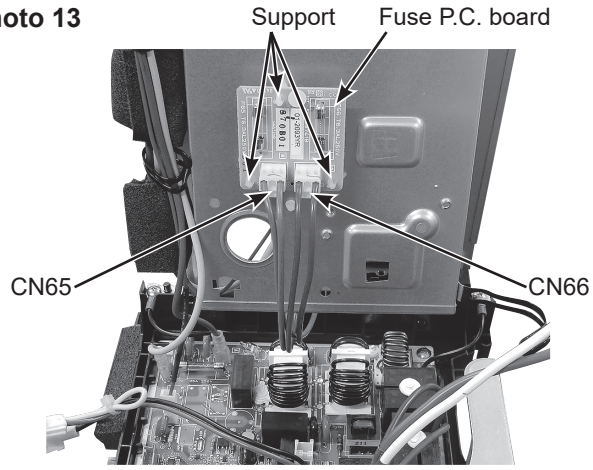
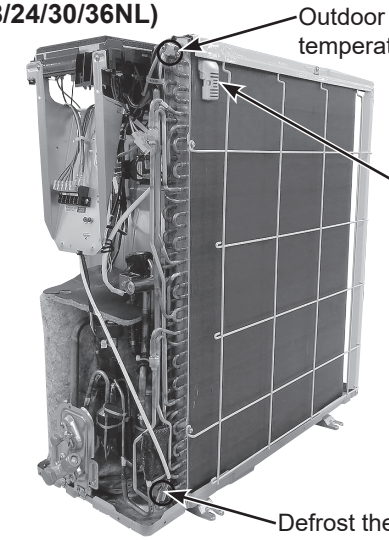
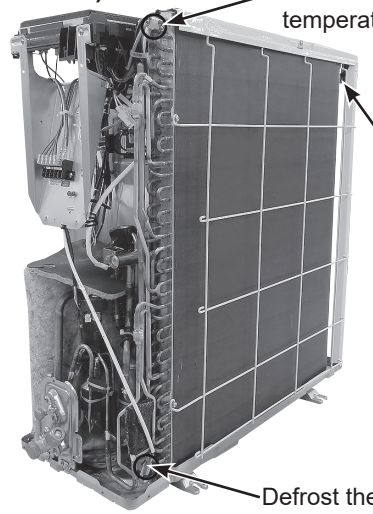
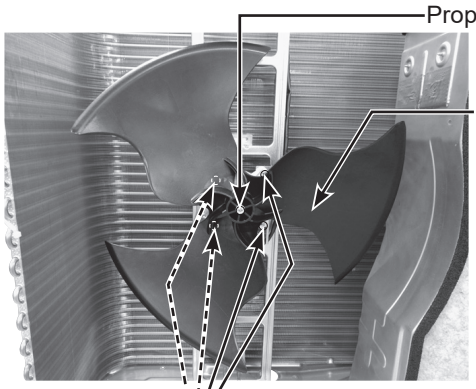
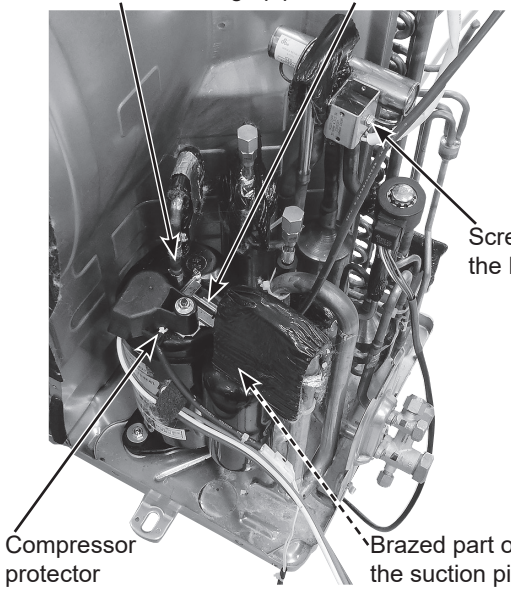
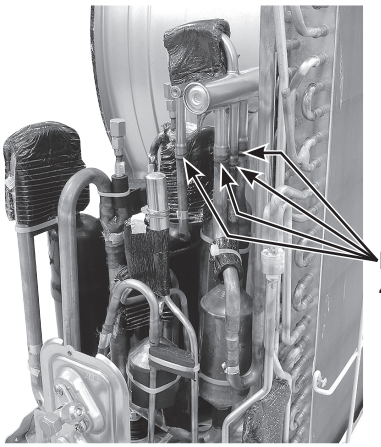
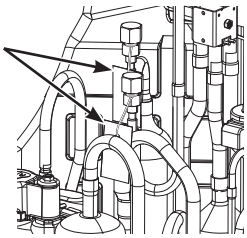
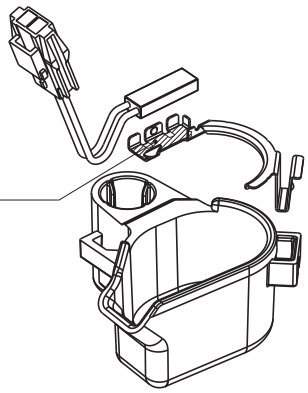


Photo 10

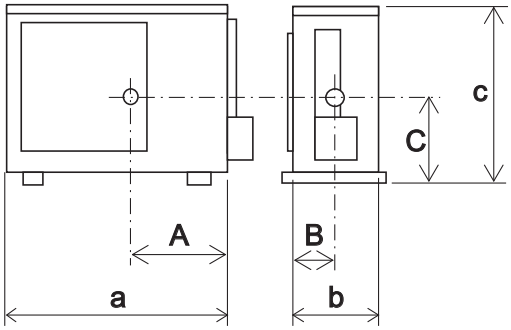


OPERATING PROCEDURE	PHOTOS/FIGURES
2-2. Removing the fuse P.C. board (1) Remove the top panel, cabinet and service panel. (Refer to section 1.) (2) Disconnect the lead wire to the reactor and the inverter P.C. board connectors. (Refer to section 2-1. (2)) (3) Remove the compressor connector (CN61). (4) Remove the screws fixing the heat sink support and the separator. (5) Remove the screws fixing the P.C. board support and the motor support. (6) Remove the fixing screws of the terminal block support and the back panel. (7) Remove the inverter assembly. (8) Remove the following disconnected connectors: <Fuse P.C. board> CN65, CN66 (Terminal block) (9) Remove the fuse P.C. board from the supports.	**Photo 13**  Pinch the stopper of the support, and push it into the hole to remove the fuse P.C. board.
3. Removing the discharge temperature thermistor, defrost thermistor (MUZ only), outdoor heat exchanger temperature thermistor and ambient temperature thermistor (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> CN671 (Defrost thermistor **(MUZ)**, discharge temperature thermistor and outdoor heat exchanger temperature thermistor) CN672 (Ambient temperature thermistor) (3) Pull out the discharge temperature thermistor from its holder. (Photo 16) (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.	**Photo 14** **(GX18/24/30/36NL)**  **(GX18/24NLHZ)** 

OPERATING PROCEDURE	PHOTOS/FIGURES
4. Removing outdoor fan motor (1) Remove the top panel, cabinet and service panel. (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.	**Photo 15** 
5. Removing R. V. coil (MUZ only) (1) Remove the cabinet and panels. (Refer to section 1.) (2) Disconnect the following connectors: <Inverter P.C. board> CN602 (R.V. coil) (3) Remove the R.V. coil.	**Photo 16** 

OPERATING PROCEDURE	PHOTOS/FIGURES
6. Removing the compressor and 4-way valve (1) Remove the cabinet and panels. (Refer to section 1.) (2) Remove the inverter assembly. (Refer to section 2.) (3) Remove the screws fixing the reactor. (4) Remove the reactor. (5) Remove the soundproof felt. (6) Recover gas from the refrigerant circuit. **NOTE:** Recover gas from the pipes until the pressure gauge shows 0 psig. (7) Detach the brazed part of the suction and the discharge pipe connected with compressor. (Photo 16) (8) Remove the compressor nuts. (9) Remove the compressor. (10) Detach the brazed parts of 4-way valve and pipe. **NOTE:** If the red labels have been removed during the operation, put them back in the original position after the operation. Red labels indicate the use of flammable refrigerants. (Figure 2)	**Photo 17**  **Figure 2**  **Figure 3** 

13 POSITION OF THE CENTER OF GRAVITY



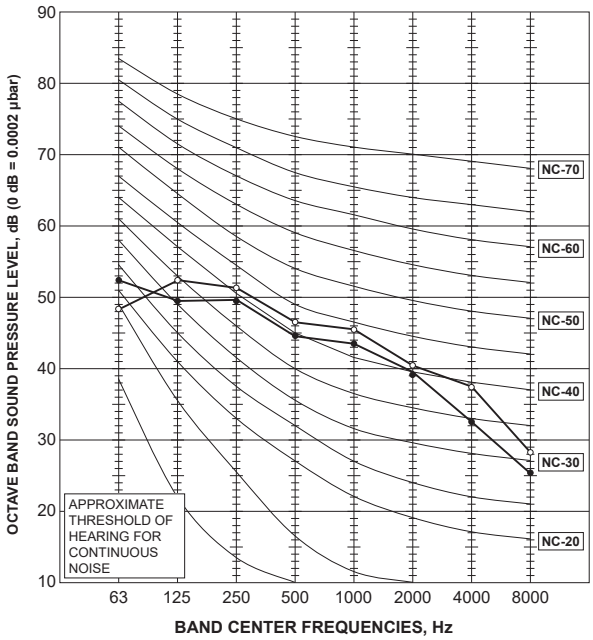
Unit: inch (mm)

Model name		A	B	C	a	b	c
MUZ-GX09NL MUZ-GX12NL MUZ-GX15NL MUZ-GX09NLHZ MUZ-GX12NLHZ MUZ-GX15NLHZ	MUY-GX09NL MUY-GX12NL MUY-GX15NL	11-1/16 (280)	5-9/16 (140)	9-1/2 (240)	31-1/2 (800)	11-1/4 (285)	21-5/8 (550)
MUZ-GX18NL MUZ-GX24NL MUZ-GX30NL MUZ-GX36NL MUZ-GX18NLHZ MUZ-GX24NLHZ	MUY-GX18NL MUY-GX24NL MUY-GX30NL MUY-GX36NL	13 (330)	5-29/32 (150)	15-11/32 (390)	33-1/16 (840)	13 (330)	34-5/8 (880)

14 NOISE CRITERION CURVES

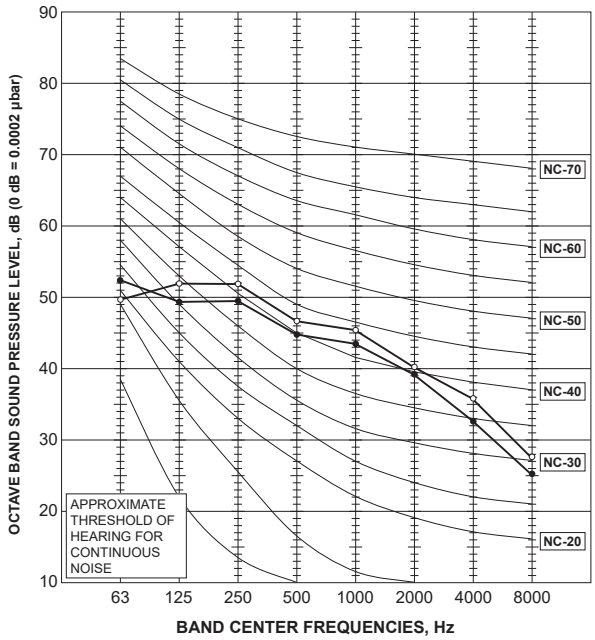
MUZ-GX09NL
MUY-GX09NL

NOTCH	SPL(dB(A))	LINE
COOLING	48	●——●
HEATING	50	○——○



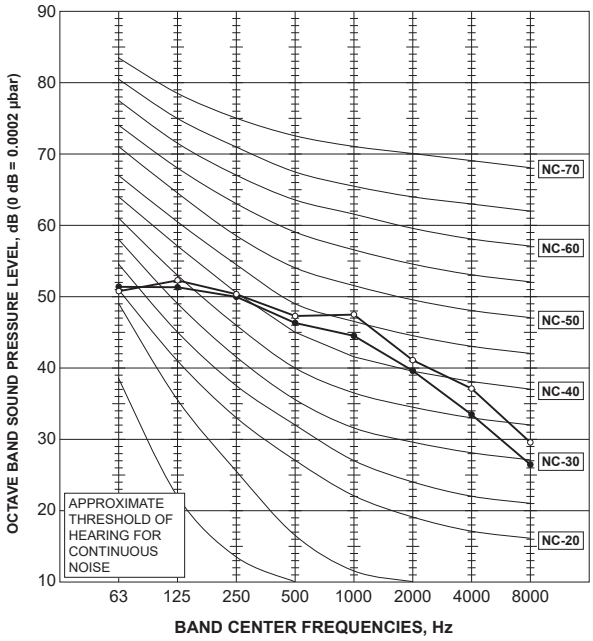
MUZ-GX09NLHZ

NOTCH	SPL(dB(A))	LINE
COOLING	48	●——●
HEATING	50	○——○



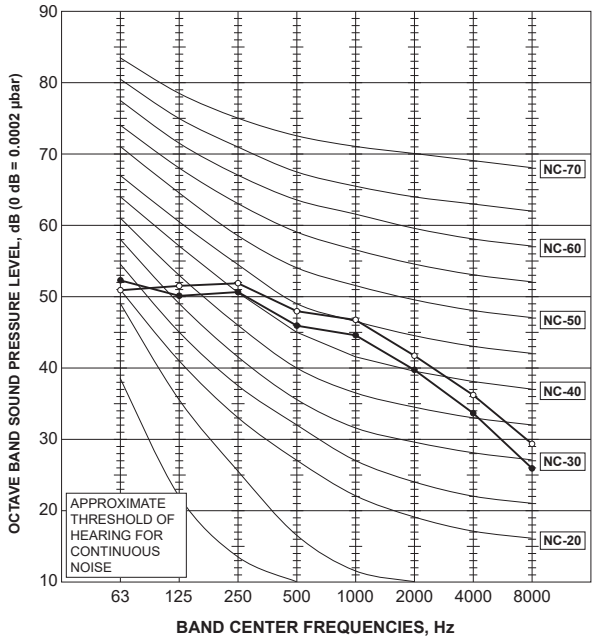
MUZ-GX12NL
MUY-GX12NL

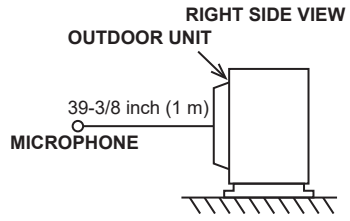
NOTCH	SPL(dB(A))	LINE
COOLING	49	●——●
HEATING	51	○——○



MUZ-GX12NLHZ

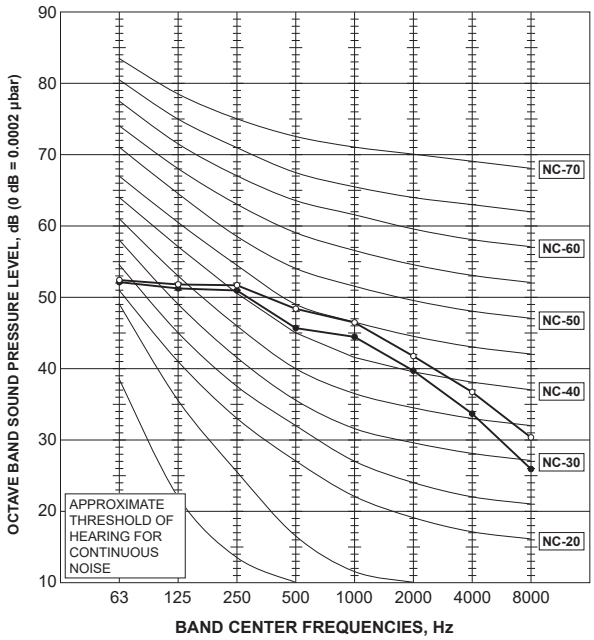
NOTCH	SPL(dB(A))	LINE
COOLING	49	●——●
HEATING	51	○——○





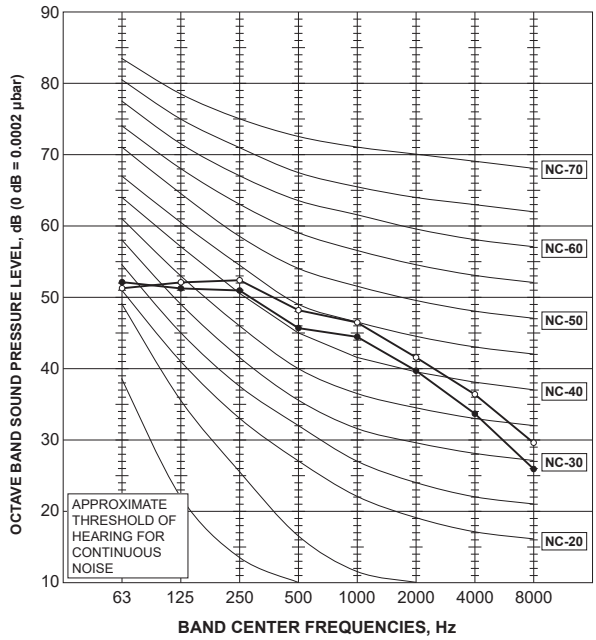
MUZ-GX15NL
MUY-GX15NL

NOTCH	SPL(dB(A))	LINE
COOLING	49	●——●
HEATING	51	○——○



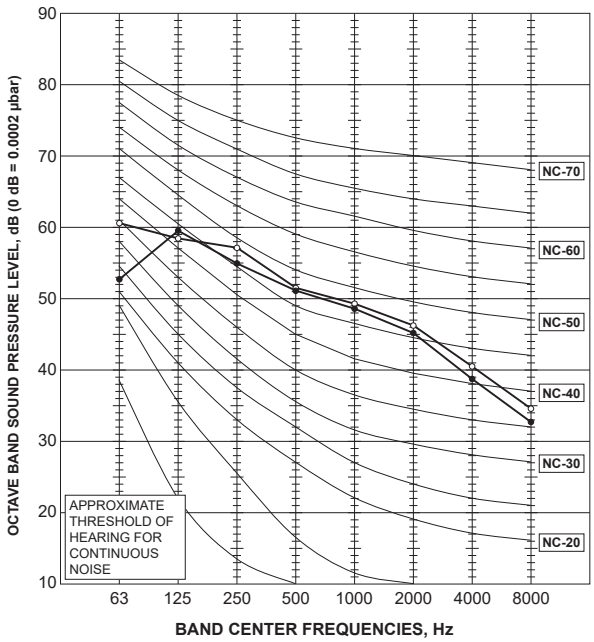
MUZ-GX15NLHZ

NOTCH	SPL(dB(A))	LINE
COOLING	49	●——●
HEATING	51	○——○



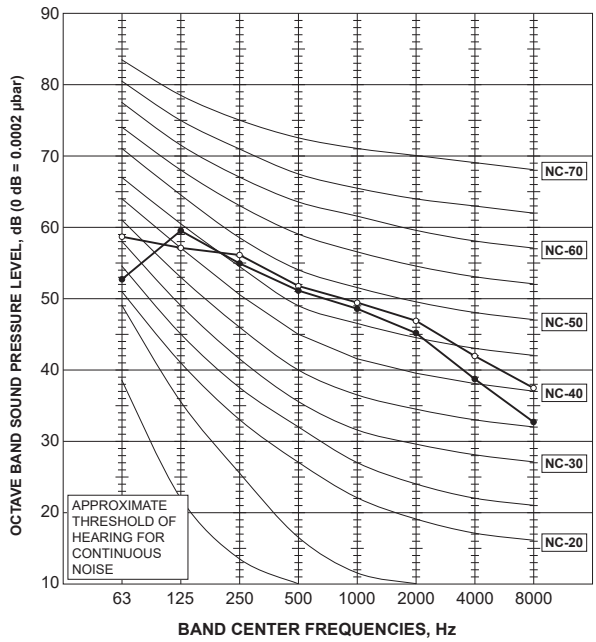
MUZ-GX18NL
MUY-GX18NL

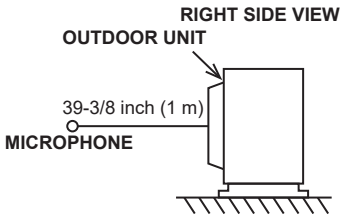
NOTCH	SPL(dB(A))	LINE
COOLING	54	●——●
HEATING	55	○——○



MUZ-GX18NLHZ

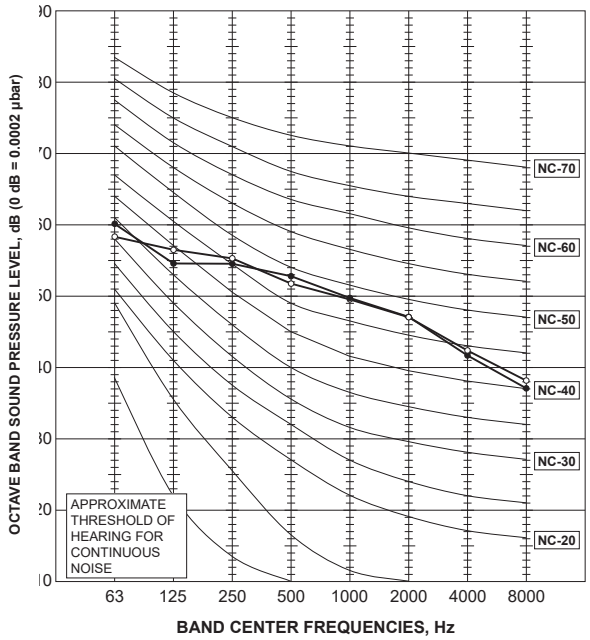
NOTCH	SPL(dB(A))	LINE
COOLING	54	●——●
HEATING	55	○——○





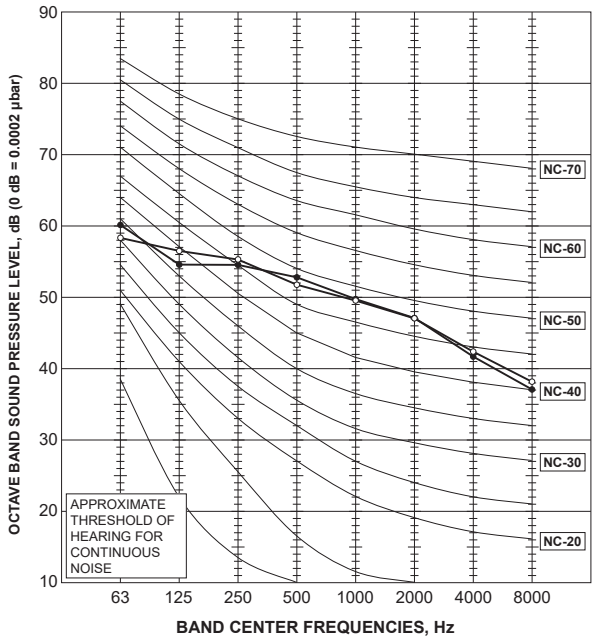
MUZ-GX24NL
MUY-GX24NL

NOTCH	SPL(dB(A))	LINE
COOLING	55	●——●
HEATING	55	○——○



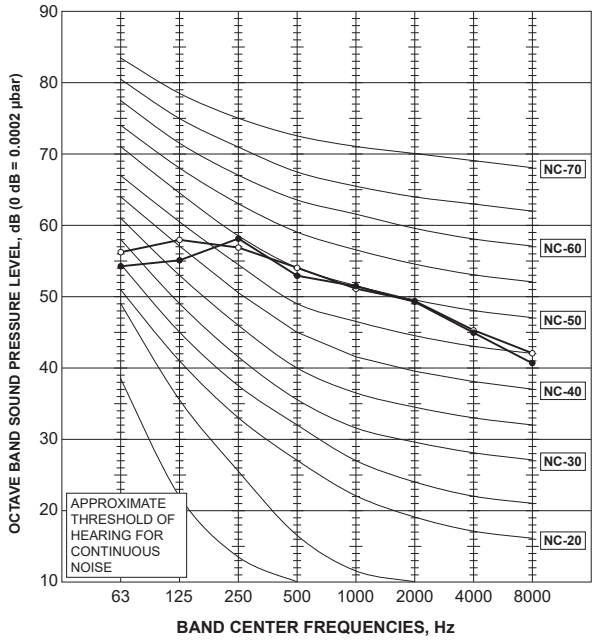
MUZ-GX24NLHZ

NOTCH	SPL(dB(A))	LINE
COOLING	55	●——●
HEATING	55	○——○



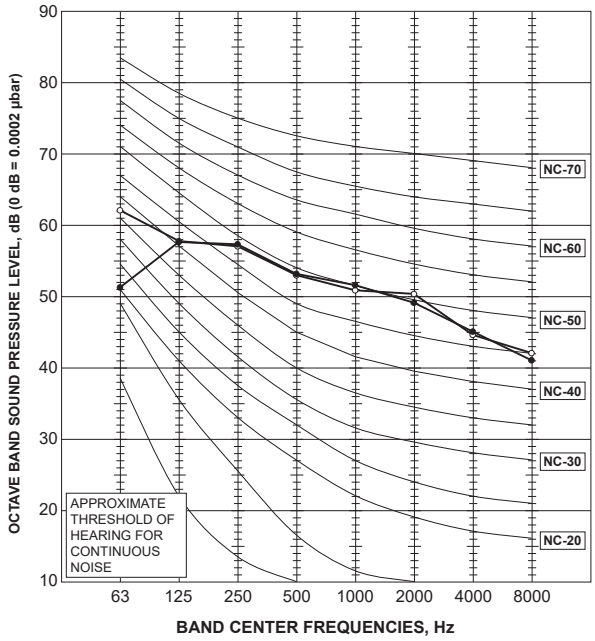
MUZ-GX30NL
MUY-GX30NL

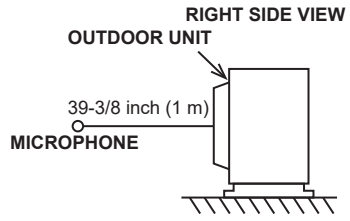
NOTCH	SPL(dB(A))	LINE
COOLING	57	●——●
HEATING	57	○——○



MUZ-GX36NL
MUY-GX36NL

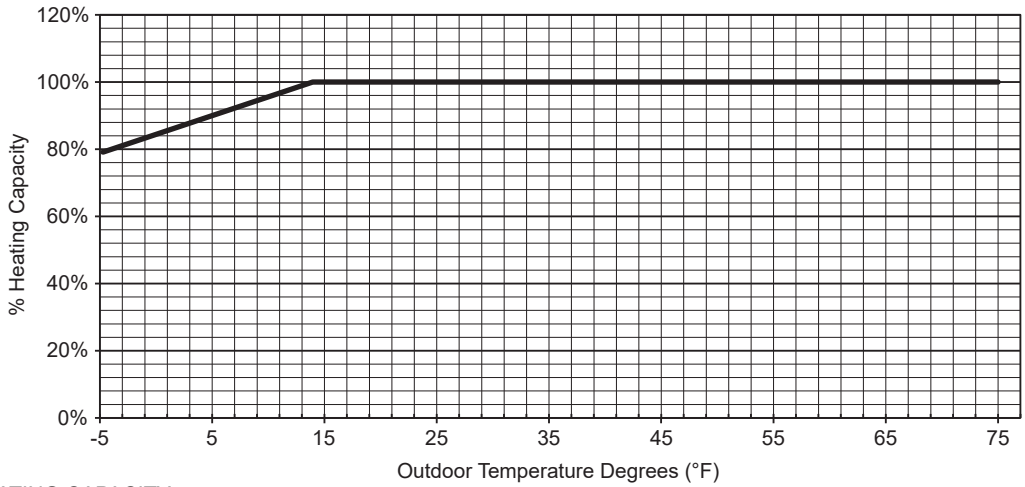
NOTCH	SPL(dB(A))	LINE
COOLING	57	●——●
HEATING	57	○——○





15 MAX. HEATING CAPACITY IN LOW AMBIENT TEMPERATURE

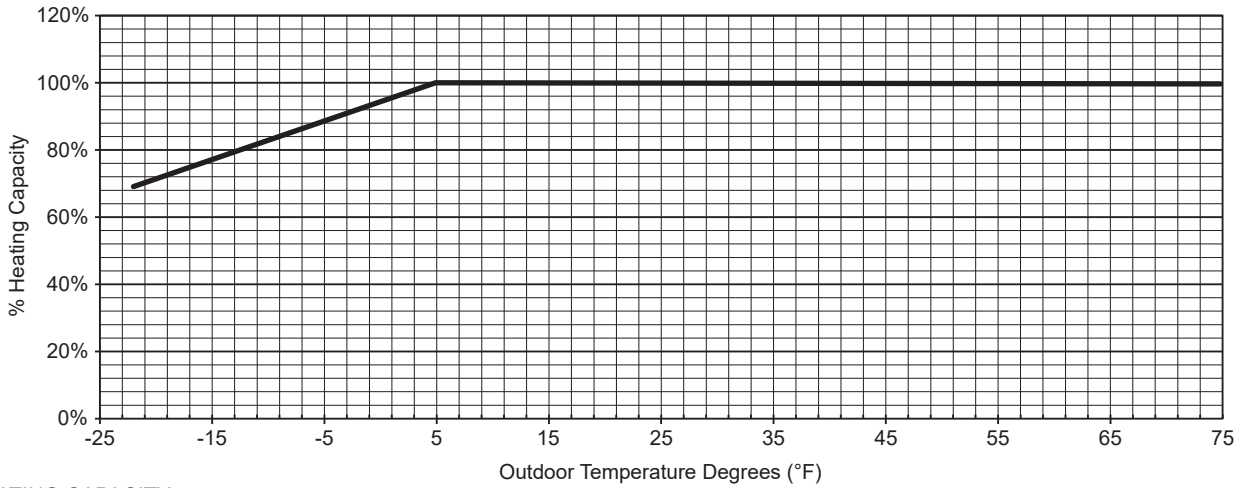
MUZ-GX09NL



HEATING CAPACITY

Outdoor Temperature Degrees (°F)	-5.0	5.0	14.0	23.0	32.0	41.0	50.0	69.8	75.0
% Heating Capacity	78%	90%	100%	100%	100%	100%	100%	100%	100%

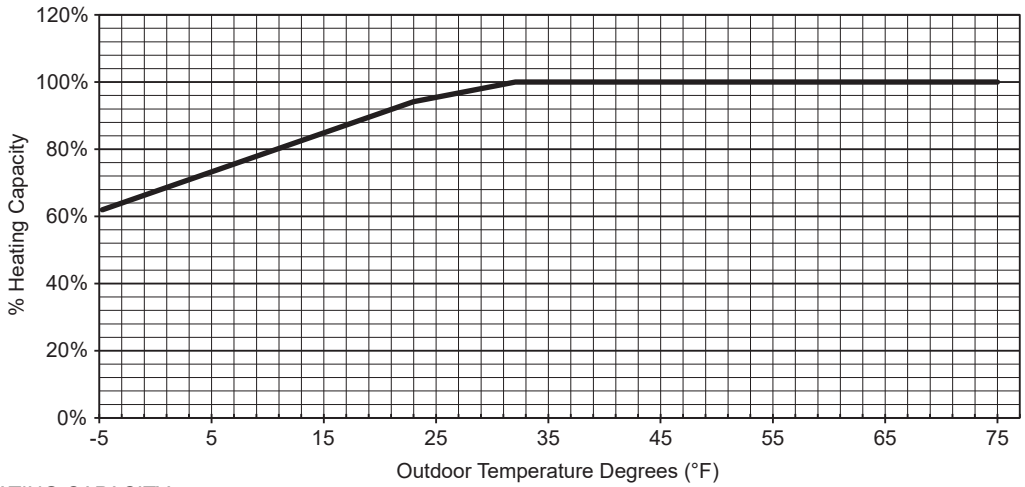
MUZ-GX09NLHZ



HEATING CAPACITY

Outdoor Temperature Degrees (°F)	-22.0	-13.0	-5.0	5.0	14.0	16.7	23.0	32.0	41.0	50.0	69.8	75.0
% Heating Capacity	69%	80%	90%	100%	100%	100%	100%	100%	100%	100%	100%	100%

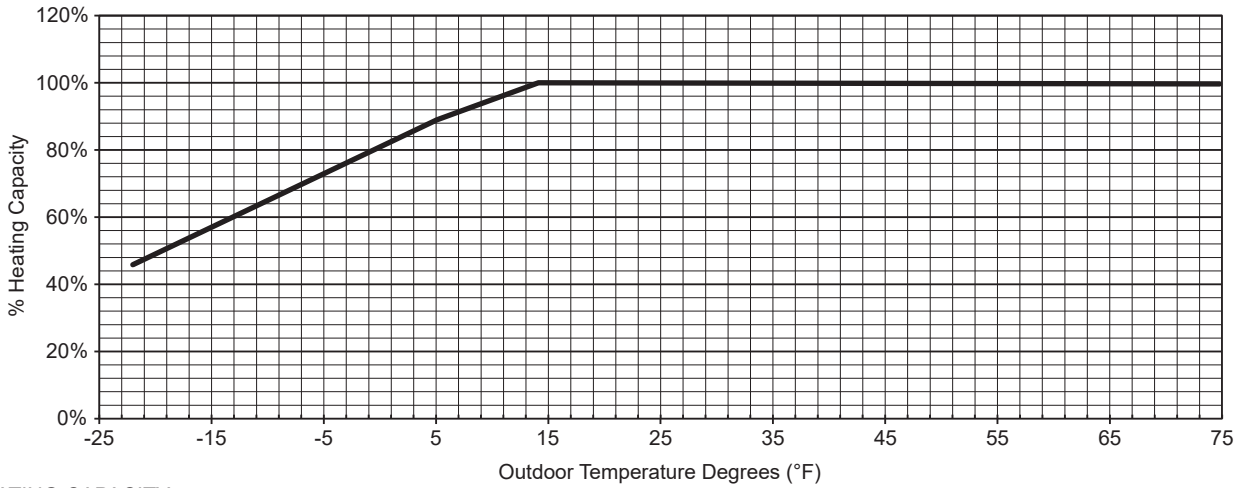
MUZ-GX12NL



HEATING CAPACITY

Outdoor Temperature Degrees (°F)	-5.0	5.0	14.0	23.0	32.0	41.0	50.0	69.8	75.0
% Heating Capacity	62%	73%	84%	94%	100%	100%	100%	100%	100%

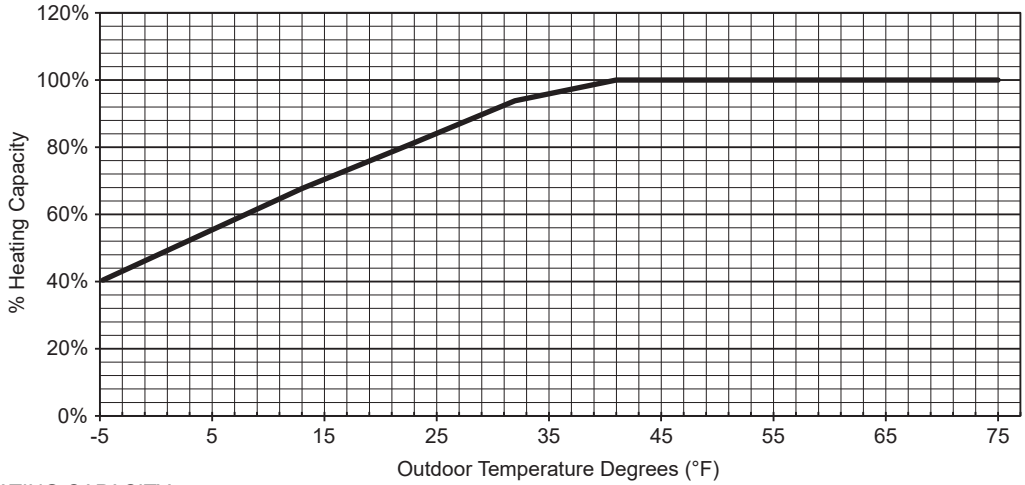
MUZ-GX12NLHZ



HEATING CAPACITY

Outdoor Temperature Degrees (°F)	-22.0	-13.0	-5.0	5.0	14.0	16.7	23.0	32.0	41.0	50.0	69.8	75.0
% Heating Capacity	46%	61%	73%	89%	100%	100%	100%	100%	100%	100%	100%	100%

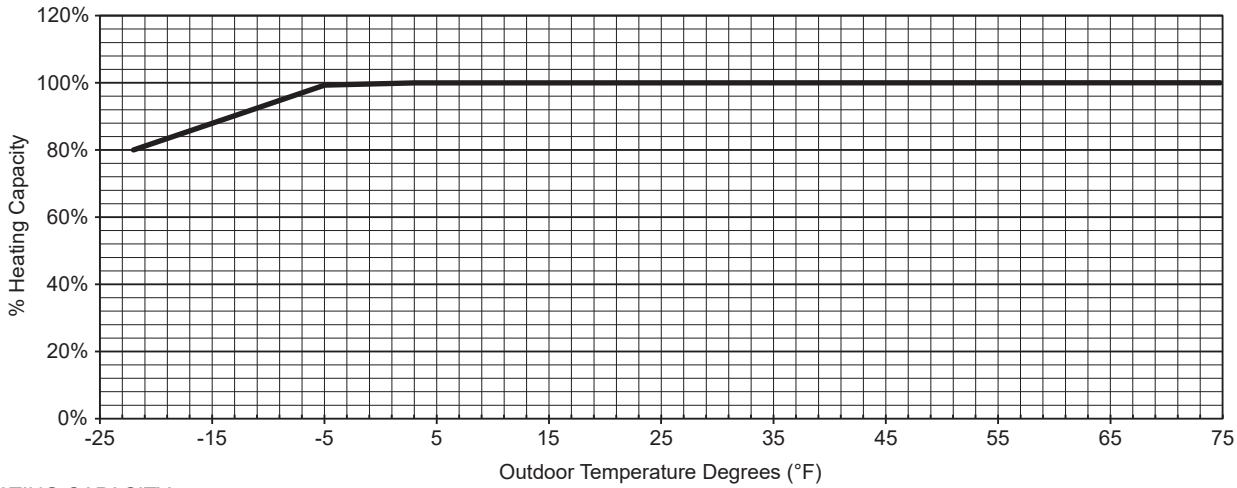
MUZ-GX15NL



HEATING CAPACITY

Outdoor Temperature Degrees (°F)	-5.0	5.0	14.0	23.0	32.0	41.0	50.0	69.8	75.0
% Heating Capacity	40%	54%	68%	81%	94%	100%	100%	100%	100%

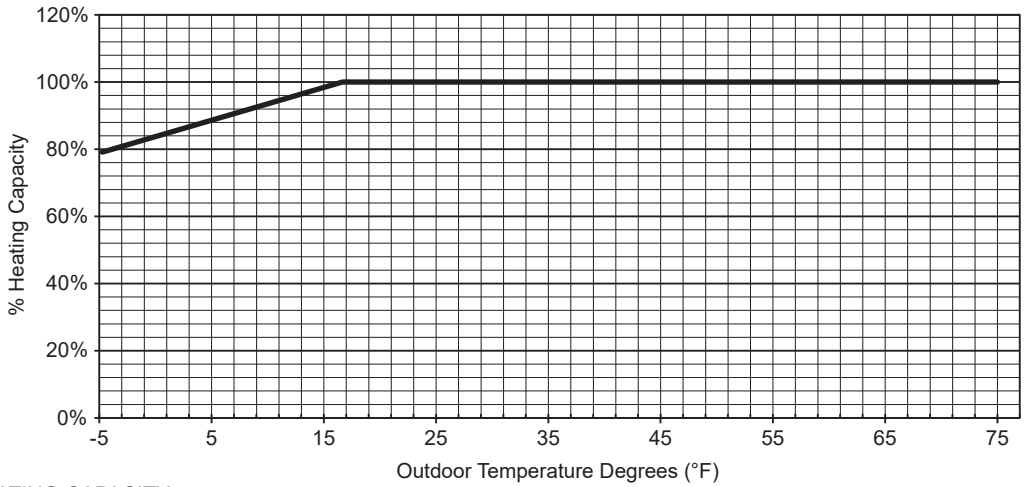
MUZ-GX15NLHZ



HEATING CAPACITY

Outdoor Temperature Degrees (°F)	-22.0	-13.0	-5.0	5.0	14.0	16.7	23.0	32.0	41.0	50.0	69.8	75.0
% Heating Capacity	80%	90%	99%	100%	100%	100%	100%	100%	100%	100%	100%	100%

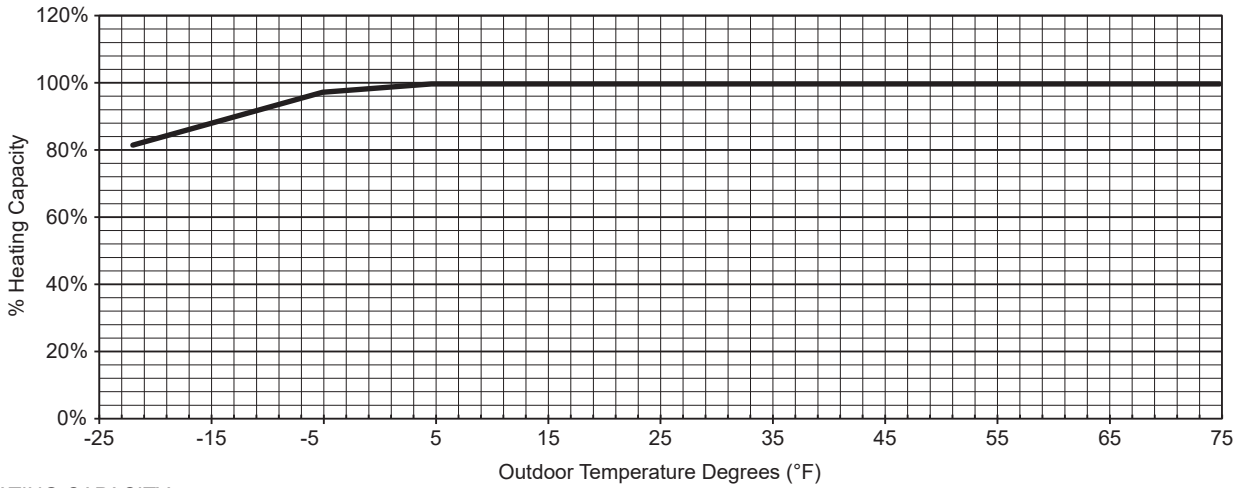
MUZ-GX18NL



HEATING CAPACITY

Outdoor Temperature Degrees (°F)	-5.0	5.0	14.0	23.0	32.0	41.0	50.0	69.8	75.0
% Heating Capacity	79%	89%	97%	100%	100%	100%	100%	100%	100%

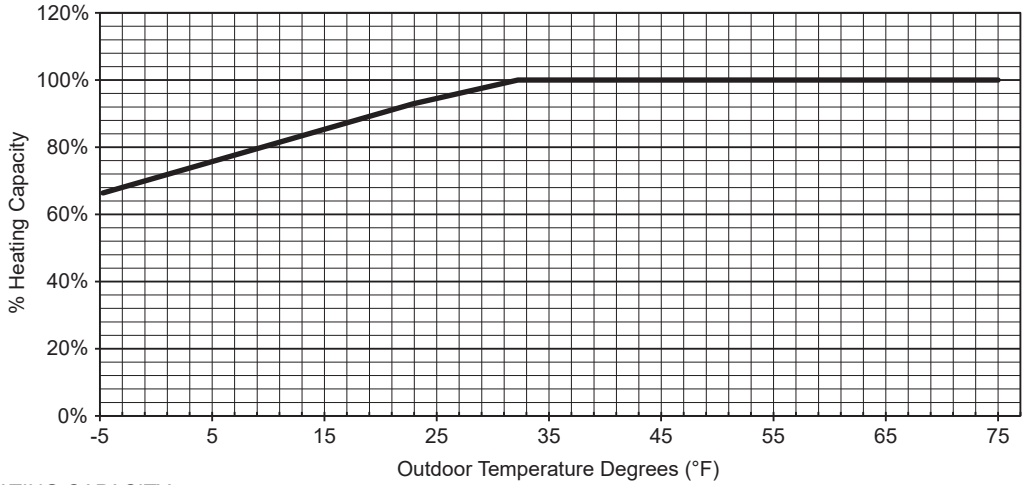
MUZ-GX18NLHZ



HEATING CAPACITY

Outdoor Temperature Degrees (°F)	-22.0	-13.0	-5.0	5.0	14.0	16.7	23.0	32.0	41.0	50.0	69.8	75.0
% Heating Capacity	82%	90%	98%	100%	100%	100%	100%	100%	100%	100%	100%	100%

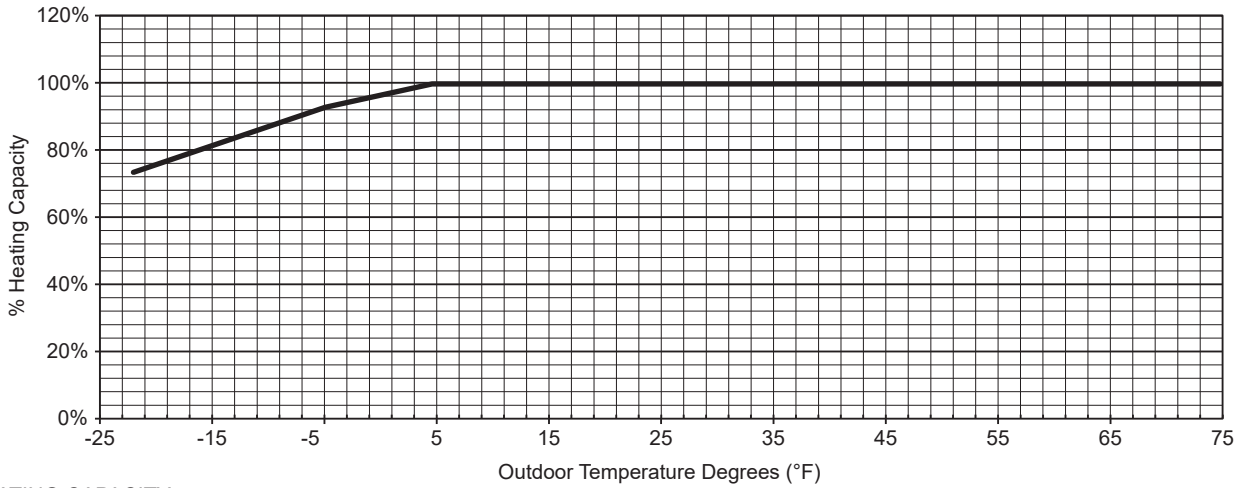
MUZ-GX24NL



HEATING CAPACITY

Outdoor Temperature Degrees (°F)	-5.0	5.0	14.0	23.0	32.0	41.0	50.0	69.8	75.0
% Heating Capacity	66%	76%	84%	93%	100%	100%	100%	100%	100%

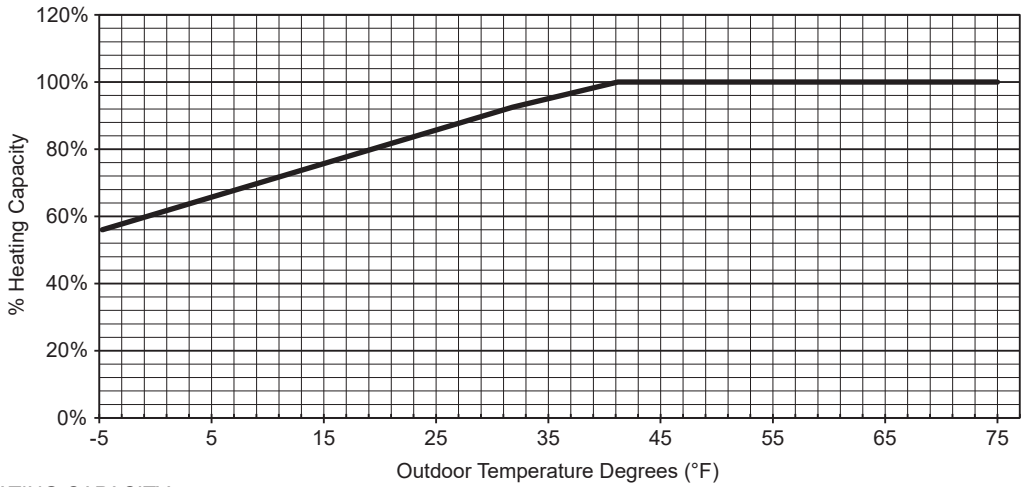
MUZ-GX24NLHZ



HEATING CAPACITY

Outdoor Temperature Degrees (°F)	-22.0	-13.0	-5.0	5.0	14.0	16.7	23.0	32.0	41.0	50.0	69.8	75.0
% Heating Capacity	74%	84%	93%	100%	100%	100%	100%	100%	100%	100%	100%	100%

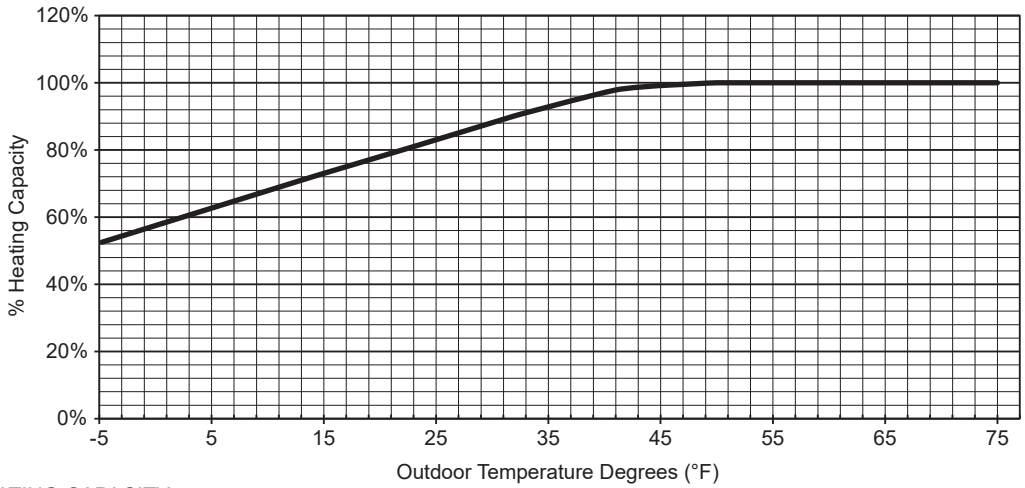
MUZ-GX30NL



HEATING CAPACITY

Outdoor Temperature Degrees (°F)	-5.0	5.0	14.0	23.0	32.0	41.0	50.0	69.8	75.0
% Heating Capacity	56%	66%	75%	84%	93%	100%	100%	100%	100%

MUZ-GX36NL



HEATING CAPACITY

Outdoor Temperature Degrees (°F)	-5.0	5.0	14.0	23.0	32.0	41.0	50.0	69.8	75.0
% Heating Capacity	52%	63%	72%	81%	90%	98%	100%	100%	100%

16 PERFORMANCE CHART

16-1. INVERTER COOLING CAPACITY

MUZ-GX09NL MUY-GX09NL

CAPACITY (Btu/h): 9000 INPUT (W): 585 SHF: 0.90

INDOOR DB (°F)	INDOOR WB (°F)	OUTDOOR DB (°F)															
		70				77				81				86			
		CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.
70	64	10575	7614	0.72	468	10125	7290	0.72	491	9720	6998	0.72	515	9360	6739	0.72	538
70	68	11025	6615	0.60	491	10575	6345	0.60	521	10260	6156	0.60	532	9900	5940	0.60	556
72	64	10575	8037	0.76	468	10125	7695	0.76	491	9720	7387	0.76	515	9360	7114	0.76	538
72	68	11025	7056	0.64	491	10575	6768	0.64	521	10260	6566	0.64	532	9900	6336	0.64	556
72	72	11475	5967	0.52	509	11070	5756	0.52	541	10800	5616	0.52	556	10350	5382	0.52	579
73	64	10575	8460	0.80	468	10125	8100	0.80	491	9720	7776	0.80	515	9360	7488	0.80	538
73	68	11025	7497	0.68	491	10575	7191	0.68	521	10260	6977	0.68	532	9900	6732	0.68	556
73	72	11475	6426	0.56	509	11070	6199	0.56	541	10800	6048	0.56	556	10350	5796	0.56	579
75	64	10575	8883	0.84	468	10125	8505	0.84	491	9720	8165	0.84	515	9360	7862	0.84	538
75	68	11025	7938	0.72	491	10575	7614	0.72	521	10260	7387	0.72	532	9900	7128	0.72	556
75	72	11475	6885	0.60	509	11070	6642	0.60	541	10800	6480	0.60	556	10350	6210	0.60	579
75	75	12060	5789	0.48	532	11610	5573	0.48	562	11340	5443	0.48	579	10980	5270	0.48	608
77	64	10575	9306	0.88	468	10125	8910	0.88	491	9720	8554	0.88	515	9360	8237	0.88	538
77	68	11025	8379	0.76	491	10575	8037	0.76	521	10260	7798	0.76	532	9900	7524	0.76	556
77	72	11475	7344	0.64	509	11070	7085	0.64	541	10800	6912	0.64	556	10350	6624	0.64	579
77	75	12060	6271	0.52	532	11610	6037	0.52	562	11340	5897	0.52	579	10980	5710	0.52	608
79	64	10575	9729	0.92	468	10125	9315	0.92	491	9720	8942	0.92	515	9360	8611	0.92	538
79	68	11025	8820	0.80	491	10575	8460	0.80	521	10260	8208	0.80	532	9900	7920	0.80	556
79	72	11475	7803	0.68	509	11070	7528	0.68	541	10800	7344	0.68	556	10350	7038	0.68	579
79	75	12060	6754	0.56	532	11610	6502	0.56	562	11340	6350	0.56	579	10980	6149	0.56	608
79	79	12420	5465	0.44	562	12060	5306	0.44	591	11880	5227	0.44	608	11520	5069	0.44	626
81	64	10575	10152	0.96	468	10125	9720	0.96	491	9720	9331	0.96	515	9360	8986	0.96	538
81	68	11025	9261	0.84	491	10575	8883	0.84	521	10260	8618	0.84	532	9900	8316	0.84	556
81	72	11475	8262	0.72	509	11070	7970	0.72	541	10800	7776	0.72	556	10350	7452	0.72	579
81	75	12060	7236	0.60	532	11610	6966	0.60	562	11340	6804	0.60	579	10980	6588	0.60	608
81	79	12420	5962	0.48	562	12060	5789	0.48	591	11880	5702	0.48	608	11520	5530	0.48	626
82	64	10575	10575	1.00	468	10125	10125	1.00	491	9720	9720	1.00	515	9360	9360	1.00	538
82	68	11025	9702	0.88	491	10575	9306	0.88	521	10260	9029	0.88	532	9900	8712	0.88	556
82	72	11475	8721	0.76	509	11070	8413	0.76	541	10800	8208	0.76	556	10350	7866	0.76	579
82	75	12060	7718	0.64	532	11610	7430	0.64	562	11340	7258	0.64	579	10980	7027	0.64	608
82	79	12420	6458	0.52	562	12060	6271	0.52	591	11880	6178	0.52	608	11520	5990	0.52	626
84	64	10575	10575	1.00	468	10125	10125	1.00	491	9720	9720	1.00	515	9360	9360	1.00	538
84	68	11025	10143	0.92	491	10575	9729	0.92	521	10260	9439	0.92	532	9900	9108	0.92	556
84	72	11475	9180	0.80	509	11070	8856	0.80	541	10800	8640	0.80	556	10350	8280	0.80	579
84	75	12060	8201	0.68	532	11610	7895	0.68	562	11340	7711	0.68	579	10980	7466	0.68	608
84	79	12420	6955	0.56	562	12060	6754	0.56	591	11880	6653	0.56	608	11520	6451	0.56	626
86	64	10575	10575	1.00	468	10125	10125	1.00	491	9720	9720	1.00	515	9360	9360	1.00	538
86	68	11025	10584	0.96	491	10575	10152	0.96	521	10260	9850	0.96	532	9900	9504	0.96	556
86	72	11475	9639	0.84	509	11070	9299	0.84	541	10800	9072	0.84	556	10350	8694	0.84	579
86	75	12060	8683	0.72	532	11610	8359	0.72	562	11340	8165	0.72	579	10980	7906	0.72	608
86	79	12420	7452	0.60	562	12060	7236	0.60	591	11880	7128	0.60	608	11520	6912	0.60	626
88	64	10575	10575	1.00	468	10125	10125	1.00	491	9720	9720	1.00	515	9360	9360	1.00	538
88	68	11025	11025	1.00	491	10575	10575	1.00	521	10260	10260	1.00	532	9900	9900	1.00	556
88	72	11475	10098	0.88	509	11070	9742	0.88	541	10800	9504	0.88	556	10350	9108	0.88	579
88	75	12060	9166	0.76	532	11610	8824	0.76	562	11340	8618	0.76	579	10980	8345	0.76	608
88	79	12420	7949	0.64	562	12060	7718	0.64	591	11880	7603	0.64	608	11520	7373	0.64	626
90	64	10575	10575	1.00	468	10125	10125	1.00	491	9720	9720	1.00	515	9360	9360	1.00	538
90	68	11025	11025	1.00	491	10575	10575	1.00	521	10260	10260	1.00	532	9900	9900	1.00	556
90	72	11475	10557	0.92	509	11070	10184	0.92	541	10800	9936	0.92	556	10350	9522	0.92	579
90	75	12060	9648	0.80	532	11610	9288	0.80	562	11340	9072	0.80	579	10980	8784	0.80	608
90	79	12420	8446	0.68	562	12060	8201	0.68	591	11880	8078	0.68	608	11520	7834	0.68	626

NOTE CA: Capacity (Btu/h) SHF: Sensible heat factor DB: Dry-bulb temperature
SHC: Sensible heat capacity (Btu/h) P.C. : Power consumption (W) WB: Wet-bulb temperature

MUZ-GX09NL MUY-GX09NL

CAPACITY (Btu/h): 9000 INPUT (W): 585 SHF: 0.90

INDOOR DB (°F)	INDOOR WB (°F)	OUTDOOR DB (°F)											
		95				104				115			
		CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.
70	64	8820	6350	0.72	573	8100	5832	0.72	608	7470	5378	0.72	632
70	68	9270	5562	0.60	597	8640	5184	0.60	626	8010	4806	0.60	661
72	64	8820	6703	0.76	573	8100	6156	0.76	608	7470	5677	0.76	632
72	68	9270	5933	0.64	597	8640	5530	0.64	626	8010	5126	0.64	661
72	72	9810	5101	0.52	620	9180	4774	0.52	655	8550	4446	0.52	679
73	64	8820	7056	0.80	573	8100	6480	0.80	608	7470	5976	0.80	632
73	68	9270	6304	0.68	597	8640	5875	0.68	626	8010	5447	0.68	661
73	72	9810	5494	0.56	620	9180	5141	0.56	655	8550	4788	0.56	679
75	64	8820	7409	0.84	573	8100	6804	0.84	608	7470	6275	0.84	632
75	68	9270	6674	0.72	597	8640	6221	0.72	626	8010	5767	0.72	661
75	72	9810	5886	0.60	620	9180	5508	0.60	655	8550	5130	0.60	679
75	75	10350	4968	0.48	644	9720	4666	0.48	673	9180	4406	0.48	702
77	64	8820	7762	0.88	573	8100	7128	0.88	608	7470	6574	0.88	632
77	68	9270	7045	0.76	597	8640	6566	0.76	626	8010	6088	0.76	661
77	72	9810	6278	0.64	620	9180	5875	0.64	655	8550	5472	0.64	679
77	75	10350	5382	0.52	644	9720	5054	0.52	673	9180	4774	0.52	702
79	64	8820	8114	0.92	573	8100	7452	0.92	608	7470	6872	0.92	632
79	68	9270	7416	0.80	597	8640	6912	0.80	626	8010	6408	0.80	661
79	72	9810	6671	0.68	620	9180	6242	0.68	655	8550	5814	0.68	679
79	75	10350	5796	0.56	644	9720	5443	0.56	673	9180	5141	0.56	702
79	79	10890	4792	0.44	667	10260	4514	0.44	696	9630	4237	0.44	725
81	64	8820	8467	0.96	573	8100	7776	0.96	608	7470	7171	0.96	632
81	68	9270	7787	0.84	597	8640	7258	0.84	626	8010	6728	0.84	661
81	72	9810	7063	0.72	620	9180	6610	0.72	655	8550	6156	0.72	679
81	75	10350	6210	0.60	644	9720	5832	0.60	673	9180	5508	0.60	702
81	79	10890	5227	0.48	667	10260	4925	0.48	696	9630	4622	0.48	725
82	64	8820	8820	1.00	573	8100	8100	1.00	608	7470	7470	1.00	632
82	68	9270	8158	0.88	597	8640	7603	0.88	626	8010	7049	0.88	661
82	72	9810	7456	0.76	620	9180	6977	0.76	655	8550	6498	0.76	679
82	75	10350	6624	0.64	644	9720	6221	0.64	673	9180	5875	0.64	702
82	79	10890	5663	0.52	667	10260	5335	0.52	696	9630	5008	0.52	725
84	64	8820	8820	1.00	573	8100	8100	1.00	608	7470	7470	1.00	632
84	68	9270	8528	0.92	597	8640	7949	0.92	626	8010	7369	0.92	661
84	72	9810	7848	0.80	620	9180	7344	0.80	655	8550	6840	0.80	679
84	75	10350	7038	0.68	644	9720	6610	0.68	673	9180	6242	0.68	702
84	79	10890	6098	0.56	667	10260	5746	0.56	696	9630	5393	0.56	725
86	64	8820	8820	1.00	573	8100	8100	1.00	608	7470	7470	1.00	632
86	68	9270	8899	0.96	597	8640	8294	0.96	626	8010	7690	0.96	661
86	72	9810	8240	0.84	620	9180	7711	0.84	655	8550	7182	0.84	679
86	75	10350	7452	0.72	644	9720	6998	0.72	673	9180	6610	0.72	702
86	79	10890	6534	0.60	667	10260	6156	0.60	696	9630	5778	0.60	725
88	64	8820	8820	1.00	573	8100	8100	1.00	608	7470	7470	1.00	632
88	68	9270	9270	1.00	597	8640	8640	1.00	626	8010	8010	1.00	661
88	72	9810	8633	0.88	620	9180	8078	0.88	655	8550	7524	0.88	679
88	75	10350	7866	0.76	644	9720	7387	0.76	673	9180	6977	0.76	702
88	79	10890	6970	0.64	667	10260	6566	0.64	696	9630	6163	0.64	725
90	64	8820	8820	1.00	573	8100	8100	1.00	608	7470	7470	1.00	632
90	68	9270	9270	1.00	597	8640	8640	1.00	626	8010	8010	1.00	661
90	72	9810	9025	0.92	620	9180	8446	0.92	655	8550	7866	0.92	679
90	75	10350	8280	0.80	644	9720	7776	0.80	673	9180	7344	0.80	702
90	79	10890	7405	0.68	667	10260	6977	0.68	696	9630	6548	0.68	725

NOTE CA: Capacity (Btu/h) SHF: Sensible heat factor DB: Dry-bulb temperature
SHC: Sensible heat capacity (Btu/h) P.C. : Power consumption (W) WB: Wet-bulb temperature

MUZ-GX09NLHZ

CAPACITY (Btu/h): 9000 INPUT (W): 585 SHF: 0.90

INDOOR DB (°F)	INDOOR WB (°F)	OUTDOOR DB (°F)															
		70				77				81				86			
		CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.
70	64	10575	7614	0.72	468	10125	7290	0.72	491	9720	6998	0.72	515	9360	6739	0.72	538
70	68	11025	6615	0.60	491	10575	6345	0.60	521	10260	6156	0.60	532	9900	5940	0.60	556
72	64	10575	8037	0.76	468	10125	7695	0.76	491	9720	7387	0.76	515	9360	7114	0.76	538
72	68	11025	7056	0.64	491	10575	6768	0.64	521	10260	6566	0.64	532	9900	6336	0.64	556
72	72	11475	5967	0.52	509	11070	5756	0.52	541	10800	5616	0.52	556	10350	5382	0.52	579
73	64	10575	8460	0.80	468	10125	8100	0.80	491	9720	7776	0.80	515	9360	7488	0.80	538
73	68	11025	7497	0.68	491	10575	7191	0.68	521	10260	6977	0.68	532	9900	6732	0.68	556
73	72	11475	6426	0.56	509	11070	6199	0.56	541	10800	6048	0.56	556	10350	5796	0.56	579
75	64	10575	8883	0.84	468	10125	8505	0.84	491	9720	8165	0.84	515	9360	7862	0.84	538
75	68	11025	7938	0.72	491	10575	7614	0.72	521	10260	7387	0.72	532	9900	7128	0.72	556
75	72	11475	6885	0.60	509	11070	6642	0.60	541	10800	6480	0.60	556	10350	6210	0.60	579
75	75	12060	5789	0.48	532	11610	5573	0.48	562	11340	5443	0.48	579	10980	5270	0.48	608
77	64	10575	9306	0.88	468	10125	8910	0.88	491	9720	8554	0.88	515	9360	8237	0.88	538
77	68	11025	8379	0.76	491	10575	8037	0.76	521	10260	7798	0.76	532	9900	7524	0.76	556
77	72	11475	7344	0.64	509	11070	7085	0.64	541	10800	6912	0.64	556	10350	6624	0.64	579
77	75	12060	6271	0.52	532	11610	6037	0.52	562	11340	5897	0.52	579	10980	5710	0.52	608
79	64	10575	9729	0.92	468	10125	9315	0.92	491	9720	8942	0.92	515	9360	8611	0.92	538
79	68	11025	8820	0.80	491	10575	8460	0.80	521	10260	8208	0.80	532	9900	7920	0.80	556
79	72	11475	7803	0.68	509	11070	7528	0.68	541	10800	7344	0.68	556	10350	7038	0.68	579
79	75	12060	6754	0.56	532	11610	6502	0.56	562	11340	6350	0.56	579	10980	6149	0.56	608
79	79	12420	5465	0.44	562	12060	5306	0.44	591	11880	5227	0.44	608	11520	5069	0.44	626
81	64	10575	10152	0.96	468	10125	9720	0.96	491	9720	9331	0.96	515	9360	8986	0.96	538
81	68	11025	9261	0.84	491	10575	8883	0.84	521	10260	8618	0.84	532	9900	8316	0.84	556
81	72	11475	8262	0.72	509	11070	7970	0.72	541	10800	7776	0.72	556	10350	7452	0.72	579
81	75	12060	7236	0.60	532	11610	6966	0.60	562	11340	6804	0.60	579	10980	6588	0.60	608
81	79	12420	5962	0.48	562	12060	5789	0.48	591	11880	5702	0.48	608	11520	5530	0.48	626
82	64	10575	10575	1.00	468	10125	10125	1.00	491	9720	9720	1.00	515	9360	9360	1.00	538
82	68	11025	9702	0.88	491	10575	9306	0.88	521	10260	9029	0.88	532	9900	8712	0.88	556
82	72	11475	8721	0.76	509	11070	8413	0.76	541	10800	8208	0.76	556	10350	7866	0.76	579
82	75	12060	7718	0.64	532	11610	7430	0.64	562	11340	7258	0.64	579	10980	7027	0.64	608
82	79	12420	6458	0.52	562	12060	6271	0.52	591	11880	6178	0.52	608	11520	5990	0.52	626
84	64	10575	10575	1.00	468	10125	10125	1.00	491	9720	9720	1.00	515	9360	9360	1.00	538
84	68	11025	10143	0.92	491	10575	9729	0.92	521	10260	9439	0.92	532	9900	9108	0.92	556
84	72	11475	9180	0.80	509	11070	8856	0.80	541	10800	8640	0.80	556	10350	8280	0.80	579
84	75	12060	8201	0.68	532	11610	7895	0.68	562	11340	7711	0.68	579	10980	7466	0.68	608
84	79	12420	6955	0.56	562	12060	6754	0.56	591	11880	6653	0.56	608	11520	6451	0.56	626
86	64	10575	10575	1.00	468	10125	10125	1.00	491	9720	9720	1.00	515	9360	9360	1.00	538
86	68	11025	10584	0.96	491	10575	10152	0.96	521	10260	9850	0.96	532	9900	9504	0.96	556
86	72	11475	9639	0.84	509	11070	9299	0.84	541	10800	9072	0.84	556	10350	8694	0.84	579
86	75	12060	8683	0.72	532	11610	8359	0.72	562	11340	8165	0.72	579	10980	7906	0.72	608
86	79	12420	7452	0.60	562	12060	7236	0.60	591	11880	7128	0.60	608	11520	6912	0.60	626
88	64	10575	10575	1.00	468	10125	10125	1.00	491	9720	9720	1.00	515	9360	9360	1.00	538
88	68	11025	11025	1.00	491	10575	10575	1.00	521	10260	10260	1.00	532	9900	9900	1.00	556
88	72	11475	10098	0.88	509	11070	9742	0.88	541	10800	9504	0.88	556	10350	9108	0.88	579
88	75	12060	9166	0.76	532	11610	8824	0.76	562	11340	8618	0.76	579	10980	8345	0.76	608
88	79	12420	7949	0.64	562	12060	7718	0.64	591	11880	7603	0.64	608	11520	7373	0.64	626
90	64	10575	10575	1.00	468	10125	10125	1.00	491	9720	9720	1.00	515	9360	9360	1.00	538
90	68	11025	11025	1.00	491	10575	10575	1.00	521	10260	10260	1.00	532	9900	9900	1.00	556
90	72	11475	10557	0.92	509	11070	10184	0.92	541	10800	9936	0.92	556	10350	9522	0.92	579
90	75	12060	9648	0.80	532	11610	9288	0.80	562	11340	9072	0.80	579	10980	8784	0.80	608
90	79	12420	8446	0.68	562	12060	8201	0.68	591	11880	8078	0.68	608	11520	7834	0.68	626

NOTE CA: Capacity (Btu/h) SHF: Sensible heat factor DB: Dry-bulb temperature
SHC: Sensible heat capacity (Btu/h) P.C. : Power consumption (W) WB: Wet-bulb temperature

MUZ-GX09NLHZ

CAPACITY (Btu/h): 9000 INPUT (W): 585 SHF: 0.90

INDOOR DB (°F)	INDOOR WB (°F)	OUTDOOR DB (°F)											
		95				104				115			
		CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.
70	64	8820	6350	0.72	573	8100	5832	0.72	608	7470	5378	0.72	632
70	68	9270	5562	0.60	597	8640	5184	0.60	626	8010	4806	0.60	661
72	64	8820	6703	0.76	573	8100	6156	0.76	608	7470	5677	0.76	632
72	68	9270	5933	0.64	597	8640	5530	0.64	626	8010	5126	0.64	661
72	72	9810	5101	0.52	620	9180	4774	0.52	655	8550	4446	0.52	679
73	64	8820	7056	0.80	573	8100	6480	0.80	608	7470	5976	0.80	632
73	68	9270	6304	0.68	597	8640	5875	0.68	626	8010	5447	0.68	661
73	72	9810	5494	0.56	620	9180	5141	0.56	655	8550	4788	0.56	679
75	64	8820	7409	0.84	573	8100	6804	0.84	608	7470	6275	0.84	632
75	68	9270	6674	0.72	597	8640	6221	0.72	626	8010	5767	0.72	661
75	72	9810	5886	0.60	620	9180	5508	0.60	655	8550	5130	0.60	679
75	75	10350	4968	0.48	644	9720	4666	0.48	673	9180	4406	0.48	702
77	64	8820	7762	0.88	573	8100	7128	0.88	608	7470	6574	0.88	632
77	68	9270	7045	0.76	597	8640	6566	0.76	626	8010	6088	0.76	661
77	72	9810	6278	0.64	620	9180	5875	0.64	655	8550	5472	0.64	679
77	75	10350	5382	0.52	644	9720	5054	0.52	673	9180	4774	0.52	702
79	64	8820	8114	0.92	573	8100	7452	0.92	608	7470	6872	0.92	632
79	68	9270	7416	0.80	597	8640	6912	0.80	626	8010	6408	0.80	661
79	72	9810	6671	0.68	620	9180	6242	0.68	655	8550	5814	0.68	679
79	75	10350	5796	0.56	644	9720	5443	0.56	673	9180	5141	0.56	702
79	79	10890	4792	0.44	667	10260	4514	0.44	696	9630	4237	0.44	725
81	64	8820	8467	0.96	573	8100	7776	0.96	608	7470	7171	0.96	632
81	68	9270	7787	0.84	597	8640	7258	0.84	626	8010	6728	0.84	661
81	72	9810	7063	0.72	620	9180	6610	0.72	655	8550	6156	0.72	679
81	75	10350	6210	0.60	644	9720	5832	0.60	673	9180	5508	0.60	702
81	79	10890	5227	0.48	667	10260	4925	0.48	696	9630	4622	0.48	725
82	64	8820	8820	1.00	573	8100	8100	1.00	608	7470	7470	1.00	632
82	68	9270	8158	0.88	597	8640	7603	0.88	626	8010	7049	0.88	661
82	72	9810	7456	0.76	620	9180	6977	0.76	655	8550	6498	0.76	679
82	75	10350	6624	0.64	644	9720	6221	0.64	673	9180	5875	0.64	702
82	79	10890	5663	0.52	667	10260	5335	0.52	696	9630	5008	0.52	725
84	64	8820	8820	1.00	573	8100	8100	1.00	608	7470	7470	1.00	632
84	68	9270	8528	0.92	597	8640	7949	0.92	626	8010	7369	0.92	661
84	72	9810	7848	0.80	620	9180	7344	0.80	655	8550	6840	0.80	679
84	75	10350	7038	0.68	644	9720	6610	0.68	673	9180	6242	0.68	702
84	79	10890	6098	0.56	667	10260	5746	0.56	696	9630	5393	0.56	725
86	64	8820	8820	1.00	573	8100	8100	1.00	608	7470	7470	1.00	632
86	68	9270	8899	0.96	597	8640	8294	0.96	626	8010	7690	0.96	661
86	72	9810	8240	0.84	620	9180	7711	0.84	655	8550	7182	0.84	679
86	75	10350	7452	0.72	644	9720	6998	0.72	673	9180	6610	0.72	702
86	79	10890	6534	0.60	667	10260	6156	0.60	696	9630	5778	0.60	725
88	64	8820	8820	1.00	573	8100	8100	1.00	608	7470	7470	1.00	632
88	68	9270	9270	1.00	597	8640	8640	1.00	626	8010	8010	1.00	661
88	72	9810	8633	0.88	620	9180	8078	0.88	655	8550	7524	0.88	679
88	75	10350	7866	0.76	644	9720	7387	0.76	673	9180	6977	0.76	702
88	79	10890	6970	0.64	667	10260	6566	0.64	696	9630	6163	0.64	725
90	64	8820	8820	1.00	573	8100	8100	1.00	608	7470	7470	1.00	632
90	68	9270	9270	1.00	597	8640	8640	1.00	626	8010	8010	1.00	661
90	72	9810	9025	0.92	620	9180	8446	0.92	655	8550	7866	0.92	679
90	75	10350	8280	0.80	644	9720	7776	0.80	673	9180	7344	0.80	702
90	79	10890	7405	0.68	667	10260	6977	0.68	696	9630	6548	0.68	725

NOTE CA: Capacity (Btu/h) SHF: Sensible heat factor DB: Dry-bulb temperature
SHC: Sensible heat capacity (Btu/h) P.C. : Power consumption (W) WB: Wet-bulb temperature

MUZ-GX12NL MUY-GX12NL

CAPACITY (Btu/h): 12000 INPUT (W): 900 SHF: 0.77

INDOOR DB (°F)	INDOOR WB (°F)	OUTDOOR DB (°F)															
		70				77				81				86			
		CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.
70	64	14100	8319	0.59	720	13500	7965	0.59	756	12960	7646	0.59	792	12480	7363	0.59	828
70	68	14700	6909	0.47	756	14100	6627	0.47	801	13680	6430	0.47	819	13200	6204	0.47	855
72	64	14100	8883	0.63	720	13500	8505	0.63	756	12960	8165	0.63	792	12480	7862	0.63	828
72	68	14700	7497	0.51	756	14100	7191	0.51	801	13680	6977	0.51	819	13200	6732	0.51	855
72	72	15300	5967	0.39	783	14760	5756	0.39	833	14400	5616	0.39	855	13800	5382	0.39	891
73	64	14100	9447	0.67	720	13500	9045	0.67	756	12960	8683	0.67	792	12480	8362	0.67	828
73	68	14700	8085	0.55	756	14100	7755	0.55	801	13680	7524	0.55	819	13200	7260	0.55	855
73	72	15300	6579	0.43	783	14760	6347	0.43	833	14400	6192	0.43	855	13800	5934	0.43	891
75	64	14100	10011	0.71	720	13500	9585	0.71	756	12960	9202	0.71	792	12480	8861	0.71	828
75	68	14700	8673	0.59	756	14100	8319	0.59	801	13680	8071	0.59	819	13200	7788	0.59	855
75	72	15300	7191	0.47	783	14760	6937	0.47	833	14400	6768	0.47	855	13800	6486	0.47	891
75	75	16080	5628	0.35	819	15480	5418	0.35	864	15120	5292	0.35	891	14640	5124	0.35	936
77	64	14100	10575	0.75	720	13500	10125	0.75	756	12960	9720	0.75	792	12480	9360	0.75	828
77	68	14700	9261	0.63	756	14100	8883	0.63	801	13680	8618	0.63	819	13200	8316	0.63	855
77	72	15300	7803	0.51	783	14760	7528	0.51	833	14400	7344	0.51	855	13800	7038	0.51	891
77	75	16080	6271	0.39	819	15480	6037	0.39	864	15120	5897	0.39	891	14640	5710	0.39	936
79	64	14100	11139	0.79	720	13500	10665	0.79	756	12960	10238	0.79	792	12480	9859	0.79	828
79	68	14700	9849	0.67	756	14100	9447	0.67	801	13680	9166	0.67	819	13200	8844	0.67	855
79	72	15300	8415	0.55	783	14760	8118	0.55	833	14400	7920	0.55	855	13800	7590	0.55	891
79	75	16080	6914	0.43	819	15480	6656	0.43	864	15120	6502	0.43	891	14640	6295	0.43	936
79	79	16560	5134	0.31	864	16080	4985	0.31	909	15840	4910	0.31	936	15360	4762	0.31	963
81	64	14100	11703	0.83	720	13500	11205	0.83	756	12960	10757	0.83	792	12480	10358	0.83	828
81	68	14700	10437	0.71	756	14100	10011	0.71	801	13680	9713	0.71	819	13200	9372	0.71	855
81	72	15300	9027	0.59	783	14760	8708	0.59	833	14400	8496	0.59	855	13800	8142	0.59	891
81	75	16080	7558	0.47	819	15480	7276	0.47	864	15120	7106	0.47	891	14640	6881	0.47	936
81	79	16560	5796	0.35	864	16080	5628	0.35	909	15840	5544	0.35	936	15360	5376	0.35	963
82	64	14100	12267	0.87	720	13500	11745	0.87	756	12960	11275	0.87	792	12480	10858	0.87	828
82	68	14700	11025	0.75	756	14100	10575	0.75	801	13680	10260	0.75	819	13200	9900	0.75	855
82	72	15300	9639	0.63	783	14760	9299	0.63	833	14400	9072	0.63	855	13800	8694	0.63	891
82	75	16080	8201	0.51	819	15480	7895	0.51	864	15120	7711	0.51	891	14640	7466	0.51	936
82	79	16560	6458	0.39	864	16080	6271	0.39	909	15840	6178	0.39	936	15360	5990	0.39	963
84	64	14100	12831	0.91	720	13500	12285	0.91	756	12960	11794	0.91	792	12480	11357	0.91	828
84	68	14700	11613	0.79	756	14100	11139	0.79	801	13680	10807	0.79	819	13200	10428	0.79	855
84	72	15300	10251	0.67	783	14760	9889	0.67	833	14400	9648	0.67	855	13800	9246	0.67	891
84	75	16080	8844	0.55	819	15480	8514	0.55	864	15120	8316	0.55	891	14640	8052	0.55	936
84	79	16560	7121	0.43	864	16080	6914	0.43	909	15840	6811	0.43	936	15360	6605	0.43	963
86	64	14100	13395	0.95	720	13500	12825	0.95	756	12960	12312	0.95	792	12480	11856	0.95	828
86	68	14700	12201	0.83	756	14100	11703	0.83	801	13680	11354	0.83	819	13200	10956	0.83	855
86	72	15300	10863	0.71	783	14760	10480	0.71	833	14400	10224	0.71	855	13800	9798	0.71	891
86	75	16080	9487	0.59	819	15480	9133	0.59	864	15120	8921	0.59	891	14640	8638	0.59	936
86	79	16560	7783	0.47	864	16080	7558	0.47	909	15840	7445	0.47	936	15360	7219	0.47	963
88	64	14100	13959	0.99	720	13500	13365	0.99	756	12960	12830	0.99	792	12480	12355	0.99	828
88	68	14700	12789	0.87	756	14100	12267	0.87	801	13680	11902	0.87	819	13200	11484	0.87	855
88	72	15300	11475	0.75	783	14760	11070	0.75	833	14400	10800	0.75	855	13800	10350	0.75	891
88	75	16080	10130	0.63	819	15480	9752	0.63	864	15120	9526	0.63	891	14640	9223	0.63	936
88	79	16560	8446	0.51	864	16080	8201	0.51	909	15840	8078	0.51	936	15360	7834	0.51	963
90	64	14100	14100	1.00	720	13500	13500	1.00	756	12960	12960	1.00	792	12480	12480	1.00	828
90	68	14700	13377	0.91	756	14100	12831	0.91	801	13680	12449	0.91	819	13200	12012	0.91	855
90	72	15300	12087	0.79	783	14760	11660	0.79	833	14400	11376	0.79	855	13800	10902	0.79	891
90	75	16080	10774	0.67	819	15480	10372	0.67	864	15120	10130	0.67	891	14640	9809	0.67	936
90	79	16560	9108	0.55	864	16080	8844	0.55	909	15840	8712	0.55	936	15360	8448	0.55	963

NOTE CA: Capacity (Btu/h) SHF: Sensible heat factor DB: Dry-bulb temperature
SHC: Sensible heat capacity (Btu/h) P.C. : Power consumption (W) WB: Wet-bulb temperature

MUZ-GX12NL MUY-GX12NL

CAPACITY (Btu/h): 12000 INPUT (W): 900 SHF: 0.77

INDOOR DB (°F)	INDOOR WB (°F)	OUTDOOR DB (°F)											
		95				104				115			
		CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.
70	64	11760	6938	0.59	882	10800	6372	0.59	936	9960	5876	0.59	972
70	68	12360	5809	0.47	918	11520	5414	0.47	963	10680	5020	0.47	1017
72	64	11760	7409	0.63	882	10800	6804	0.63	936	9960	6275	0.63	972
72	68	12360	6304	0.51	918	11520	5875	0.51	963	10680	5447	0.51	1017
72	72	13080	5101	0.39	954	12240	4774	0.39	1008	11400	4446	0.39	1044
73	64	11760	7879	0.67	882	10800	7236	0.67	936	9960	6673	0.67	972
73	68	12360	6798	0.55	918	11520	6336	0.55	963	10680	5874	0.55	1017
73	72	13080	5624	0.43	954	12240	5263	0.43	1008	11400	4902	0.43	1044
75	64	11760	8350	0.71	882	10800	7668	0.71	936	9960	7072	0.71	972
75	68	12360	7292	0.59	918	11520	6797	0.59	963	10680	6301	0.59	1017
75	72	13080	6148	0.47	954	12240	5753	0.47	1008	11400	5358	0.47	1044
75	75	13800	4830	0.35	990	12960	4536	0.35	1035	12240	4284	0.35	1080
77	64	11760	8820	0.75	882	10800	8100	0.75	936	9960	7470	0.75	972
77	68	12360	7787	0.63	918	11520	7258	0.63	963	10680	6728	0.63	1017
77	72	13080	6671	0.51	954	12240	6242	0.51	1008	11400	5814	0.51	1044
77	75	13800	5382	0.39	990	12960	5054	0.39	1035	12240	4774	0.39	1080
79	64	11760	9290	0.79	882	10800	8532	0.79	936	9960	7868	0.79	972
79	68	12360	8281	0.67	918	11520	7718	0.67	963	10680	7156	0.67	1017
79	72	13080	7194	0.55	954	12240	6732	0.55	1008	11400	6270	0.55	1044
79	75	13800	5934	0.43	990	12960	5573	0.43	1035	12240	5263	0.43	1080
79	79	14520	4501	0.31	1026	13680	4241	0.31	1071	12840	3980	0.31	1116
81	64	11760	9761	0.83	882	10800	8964	0.83	936	9960	8267	0.83	972
81	68	12360	8776	0.71	918	11520	8179	0.71	963	10680	7583	0.71	1017
81	72	13080	7717	0.59	954	12240	7222	0.59	1008	11400	6726	0.59	1044
81	75	13800	6486	0.47	990	12960	6091	0.47	1035	12240	5753	0.47	1080
81	79	14520	5082	0.35	1026	13680	4788	0.35	1071	12840	4494	0.35	1116
82	64	11760	10231	0.87	882	10800	9396	0.87	936	9960	8665	0.87	972
82	68	12360	9270	0.75	918	11520	8640	0.75	963	10680	8010	0.75	1017
82	72	13080	8240	0.63	954	12240	7711	0.63	1008	11400	7182	0.63	1044
82	75	13800	7038	0.51	990	12960	6610	0.51	1035	12240	6242	0.51	1080
82	79	14520	5663	0.39	1026	13680	5335	0.39	1071	12840	5008	0.39	1116
84	64	11760	10702	0.91	882	10800	9828	0.91	936	9960	9064	0.91	972
84	68	12360	9764	0.79	918	11520	9101	0.79	963	10680	8437	0.79	1017
84	72	13080	8764	0.67	954	12240	8201	0.67	1008	11400	7638	0.67	1044
84	75	13800	7590	0.55	990	12960	7128	0.55	1035	12240	6732	0.55	1080
84	79	14520	6244	0.43	1026	13680	5882	0.43	1071	12840	5521	0.43	1116
86	64	11760	11172	0.95	882	10800	10260	0.95	936	9960	9462	0.95	972
86	68	12360	10259	0.83	918	11520	9562	0.83	963	10680	8864	0.83	1017
86	72	13080	9287	0.71	954	12240	8690	0.71	1008	11400	8094	0.71	1044
86	75	13800	8142	0.59	990	12960	7646	0.59	1035	12240	7222	0.59	1080
86	79	14520	6824	0.47	1026	13680	6430	0.47	1071	12840	6035	0.47	1116
88	64	11760	11642	0.99	882	10800	10692	0.99	936	9960	9860	0.99	972
88	68	12360	10753	0.87	918	11520	10022	0.87	963	10680	9292	0.87	1017
88	72	13080	9810	0.75	954	12240	9180	0.75	1008	11400	8550	0.75	1044
88	75	13800	8694	0.63	990	12960	8165	0.63	1035	12240	7711	0.63	1080
88	79	14520	7405	0.51	1026	13680	6977	0.51	1071	12840	6548	0.51	1116
90	64	11760	11760	1.00	882	10800	10800	1.00	936	9960	9960	1.00	972
90	68	12360	11248	0.91	918	11520	10483	0.91	963	10680	9719	0.91	1017
90	72	13080	10333	0.79	954	12240	9670	0.79	1008	11400	9006	0.79	1044
90	75	13800	9246	0.67	990	12960	8683	0.67	1035	12240	8201	0.67	1080
90	79	14520	7986	0.55	1026	13680	7524	0.55	1071	12840	7062	0.55	1116

NOTE CA: Capacity (Btu/h) SHF: Sensible heat factor DB: Dry-bulb temperature
SHC: Sensible heat capacity (Btu/h) P.C. : Power consumption (W) WB: Wet-bulb temperature

MUZ-GX12NLHZ

CAPACITY (Btu/h): 12000 INPUT (W): 900 SHF: 0.78

INDOOR DB (°F)	INDOOR WB (°F)	OUTDOOR DB (°F)															
		70				77				81				86			
		CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.
70	64	14100	8460	0.60	720	13500	8100	0.60	756	12960	7776	0.60	792	12480	7488	0.60	828
70	68	14700	7056	0.48	756	14100	6768	0.48	801	13680	6566	0.48	819	13200	6336	0.48	855
72	64	14100	9024	0.64	720	13500	8640	0.64	756	12960	8294	0.64	792	12480	7987	0.64	828
72	68	14700	7644	0.52	756	14100	7332	0.52	801	13680	7114	0.52	819	13200	6864	0.52	855
72	72	15300	6120	0.40	783	14760	5904	0.40	833	14400	5760	0.40	855	13800	5520	0.40	891
73	64	14100	9588	0.68	720	13500	9180	0.68	756	12960	8813	0.68	792	12480	8486	0.68	828
73	68	14700	8232	0.56	756	14100	7896	0.56	801	13680	7661	0.56	819	13200	7392	0.56	855
73	72	15300	6732	0.44	783	14760	6494	0.44	833	14400	6336	0.44	855	13800	6072	0.44	891
75	64	14100	10152	0.72	720	13500	9720	0.72	756	12960	9331	0.72	792	12480	8986	0.72	828
75	68	14700	8820	0.60	756	14100	8460	0.60	801	13680	8208	0.60	819	13200	7920	0.60	855
75	72	15300	7344	0.48	783	14760	7085	0.48	833	14400	6912	0.48	855	13800	6624	0.48	891
75	75	16080	5789	0.36	819	15480	5573	0.36	864	15120	5443	0.36	891	14640	5270	0.36	936
77	64	14100	10716	0.76	720	13500	10260	0.76	756	12960	9850	0.76	792	12480	9485	0.76	828
77	68	14700	9408	0.64	756	14100	9024	0.64	801	13680	8755	0.64	819	13200	8448	0.64	855
77	72	15300	7956	0.52	783	14760	7675	0.52	833	14400	7488	0.52	855	13800	7176	0.52	891
77	75	16080	6432	0.40	819	15480	6192	0.40	864	15120	6048	0.40	891	14640	5856	0.40	936
79	64	14100	11280	0.80	720	13500	10800	0.80	756	12960	10368	0.80	792	12480	9984	0.80	828
79	68	14700	9996	0.68	756	14100	9588	0.68	801	13680	9302	0.68	819	13200	8976	0.68	855
79	72	15300	8568	0.56	783	14760	8266	0.56	833	14400	8064	0.56	855	13800	7728	0.56	891
79	75	16080	7075	0.44	819	15480	6811	0.44	864	15120	6653	0.44	891	14640	6442	0.44	936
79	79	16560	5299	0.32	864	16080	5146	0.32	909	15840	5069	0.32	936	15360	4915	0.32	963
81	64	14100	11844	0.84	720	13500	11340	0.84	756	12960	10886	0.84	792	12480	10483	0.84	828
81	68	14700	10584	0.72	756	14100	10152	0.72	801	13680	9850	0.72	819	13200	9504	0.72	855
81	72	15300	9180	0.60	783	14760	8856	0.60	833	14400	8640	0.60	855	13800	8280	0.60	891
81	75	16080	7718	0.48	819	15480	7430	0.48	864	15120	7258	0.48	891	14640	7027	0.48	936
81	79	16560	5962	0.36	864	16080	5789	0.36	909	15840	5702	0.36	936	15360	5530	0.36	963
82	64	14100	12408	0.88	720	13500	11880	0.88	756	12960	11405	0.88	792	12480	10982	0.88	828
82	68	14700	11172	0.76	756	14100	10716	0.76	801	13680	10397	0.76	819	13200	10032	0.76	855
82	72	15300	9792	0.64	783	14760	9446	0.64	833	14400	9216	0.64	855	13800	8832	0.64	891
82	75	16080	8362	0.52	819	15480	8050	0.52	864	15120	7862	0.52	891	14640	7613	0.52	936
82	79	16560	6624	0.40	864	16080	6432	0.40	909	15840	6336	0.40	936	15360	6144	0.40	963
84	64	14100	12972	0.92	720	13500	12420	0.92	756	12960	11923	0.92	792	12480	11482	0.92	828
84	68	14700	11760	0.80	756	14100	11280	0.80	801	13680	10944	0.80	819	13200	10560	0.80	855
84	72	15300	10404	0.68	783	14760	10037	0.68	833	14400	9792	0.68	855	13800	9384	0.68	891
84	75	16080	9005	0.56	819	15480	8669	0.56	864	15120	8467	0.56	891	14640	8198	0.56	936
84	79	16560	7286	0.44	864	16080	7075	0.44	909	15840	6970	0.44	936	15360	6758	0.44	963
86	64	14100	13536	0.96	720	13500	12960	0.96	756	12960	12442	0.96	792	12480	11981	0.96	828
86	68	14700	12348	0.84	756	14100	11844	0.84	801	13680	11491	0.84	819	13200	11088	0.84	855
86	72	15300	11016	0.72	783	14760	10627	0.72	833	14400	10368	0.72	855	13800	9936	0.72	891
86	75	16080	9648	0.60	819	15480	9288	0.60	864	15120	9072	0.60	891	14640	8784	0.60	936
86	79	16560	7949	0.48	864	16080	7718	0.48	909	15840	7603	0.48	936	15360	7373	0.48	963
88	64	14100	14100	1.00	720	13500	13500	1.00	756	12960	12960	1.00	792	12480	12480	1.00	828
88	68	14700	12936	0.88	756	14100	12408	0.88	801	13680	12038	0.88	819	13200	11616	0.88	855
88	72	15300	11628	0.76	783	14760	11218	0.76	833	14400	10944	0.76	855	13800	10488	0.76	891
88	75	16080	10291	0.64	819	15480	9907	0.64	864	15120	9677	0.64	891	14640	9370	0.64	936
88	79	16560	8611	0.52	864	16080	8362	0.52	909	15840	8237	0.52	936	15360	7987	0.52	963
90	64	14100	14100	1.00	720	13500	13500	1.00	756	12960	12960	1.00	792	12480	12480	1.00	828
90	68	14700	13524	0.92	756	14100	12972	0.92	801	13680	12586	0.92	819	13200	12144	0.92	855
90	72	15300	12240	0.80	783	14760	11808	0.80	833	14400	11520	0.80	855	13800	11040	0.80	891
90	75	16080	10934	0.68	819	15480	10526	0.68	864	15120	10282	0.68	891	14640	9955	0.68	936
90	79	16560	9274	0.56	864	16080	9005	0.56	909	15840	8870	0.56	936	15360	8602	0.56	963

NOTE CA: Capacity (Btu/h) SHF: Sensible heat factor DB: Dry-bulb temperature
SHC: Sensible heat capacity (Btu/h) P.C. : Power consumption (W) WB: Wet-bulb temperature

MUZ-GX12NLHZ

CAPACITY (Btu/h): 12000 INPUT (W): 900 SHF: 0.78

INDOOR DB (°F)	INDOOR WB (°F)	OUTDOOR DB (°F)											
		95				104				115			
		CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.
70	64	11760	7056	0.60	882	10800	6480	0.60	936	9960	5976	0.60	972
70	68	12360	5933	0.48	918	11520	5530	0.48	963	10680	5126	0.48	1017
72	64	11760	7526	0.64	882	10800	6912	0.64	936	9960	6374	0.64	972
72	68	12360	6427	0.52	918	11520	5990	0.52	963	10680	5554	0.52	1017
72	72	13080	5232	0.40	954	12240	4896	0.40	1008	11400	4560	0.40	1044
73	64	11760	7997	0.68	882	10800	7344	0.68	936	9960	6773	0.68	972
73	68	12360	6922	0.56	918	11520	6451	0.56	963	10680	5981	0.56	1017
73	72	13080	5755	0.44	954	12240	5386	0.44	1008	11400	5016	0.44	1044
75	64	11760	8467	0.72	882	10800	7776	0.72	936	9960	7171	0.72	972
75	68	12360	7416	0.60	918	11520	6912	0.60	963	10680	6408	0.60	1017
75	72	13080	6278	0.48	954	12240	5875	0.48	1008	11400	5472	0.48	1044
75	75	13800	4968	0.36	990	12960	4666	0.36	1035	12240	4406	0.36	1080
77	64	11760	8938	0.76	882	10800	8208	0.76	936	9960	7570	0.76	972
77	68	12360	7910	0.64	918	11520	7373	0.64	963	10680	6835	0.64	1017
77	72	13080	6802	0.52	954	12240	6365	0.52	1008	11400	5928	0.52	1044
77	75	13800	5520	0.40	990	12960	5184	0.40	1035	12240	4896	0.40	1080
79	64	11760	9408	0.80	882	10800	8640	0.80	936	9960	7968	0.80	972
79	68	12360	8405	0.68	918	11520	7834	0.68	963	10680	7262	0.68	1017
79	72	13080	7325	0.56	954	12240	6854	0.56	1008	11400	6384	0.56	1044
79	75	13800	6072	0.44	990	12960	5702	0.44	1035	12240	5386	0.44	1080
79	79	14520	4646	0.32	1026	13680	4378	0.32	1071	12840	4109	0.32	1116
81	64	11760	9878	0.84	882	10800	9072	0.84	936	9960	8366	0.84	972
81	68	12360	8899	0.72	918	11520	8294	0.72	963	10680	7690	0.72	1017
81	72	13080	7848	0.60	954	12240	7344	0.60	1008	11400	6840	0.60	1044
81	75	13800	6624	0.48	990	12960	6221	0.48	1035	12240	5875	0.48	1080
81	79	14520	5227	0.36	1026	13680	4925	0.36	1071	12840	4622	0.36	1116
82	64	11760	10349	0.88	882	10800	9504	0.88	936	9960	8765	0.88	972
82	68	12360	9394	0.76	918	11520	8755	0.76	963	10680	8117	0.76	1017
82	72	13080	8371	0.64	954	12240	7834	0.64	1008	11400	7296	0.64	1044
82	75	13800	7176	0.52	990	12960	6739	0.52	1035	12240	6365	0.52	1080
82	79	14520	5808	0.40	1026	13680	5472	0.40	1071	12840	5136	0.40	1116
84	64	11760	10819	0.92	882	10800	9936	0.92	936	9960	9163	0.92	972
84	68	12360	9888	0.80	918	11520	9216	0.80	963	10680	8544	0.80	1017
84	72	13080	8894	0.68	954	12240	8323	0.68	1008	11400	7752	0.68	1044
84	75	13800	7728	0.56	990	12960	7258	0.56	1035	12240	6854	0.56	1080
84	79	14520	6389	0.44	1026	13680	6019	0.44	1071	12840	5650	0.44	1116
86	64	11760	11290	0.96	882	10800	10368	0.96	936	9960	9562	0.96	972
86	68	12360	10382	0.84	918	11520	9677	0.84	963	10680	8971	0.84	1017
86	72	13080	9418	0.72	954	12240	8813	0.72	1008	11400	8208	0.72	1044
86	75	13800	8280	0.60	990	12960	7776	0.60	1035	12240	7344	0.60	1080
86	79	14520	6970	0.48	1026	13680	6566	0.48	1071	12840	6163	0.48	1116
88	64	11760	11760	1.00	882	10800	10800	1.00	936	9960	9960	1.00	972
88	68	12360	10877	0.88	918	11520	10138	0.88	963	10680	9398	0.88	1017
88	72	13080	9941	0.76	954	12240	9302	0.76	1008	11400	8664	0.76	1044
88	75	13800	8832	0.64	990	12960	8294	0.64	1035	12240	7834	0.64	1080
88	79	14520	7550	0.52	1026	13680	7114	0.52	1071	12840	6677	0.52	1116
90	64	11760	11760	1.00	882	10800	10800	1.00	936	9960	9960	1.00	972
90	68	12360	11371	0.92	918	11520	10598	0.92	963	10680	9826	0.92	1017
90	72	13080	10464	0.80	954	12240	9792	0.80	1008	11400	9120	0.80	1044
90	75	13800	9384	0.68	990	12960	8813	0.68	1035	12240	8323	0.68	1080
90	79	14520	8131	0.56	1026	13680	7661	0.56	1071	12840	7190	0.56	1116

NOTE CA: Capacity (Btu/h) SHF: Sensible heat factor DB: Dry-bulb temperature
SHC: Sensible heat capacity (Btu/h) P.C. : Power consumption (W) WB: Wet-bulb temperature

MUZ-GX15NL MUY-GX15NL

CAPACITY (Btu/h): 14000 INPUT (W): 1075 SHF: 0.82

INDOOR DB (°F)	INDOOR WB (°F)	OUTDOOR DB (°F)															
		70				77				81				86			
		CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.
70	64	16450	10528	0.64	860	15750	10080	0.64	903	15120	9677	0.64	946	14560	9318	0.64	989
70	68	17150	8918	0.52	903	16450	8554	0.52	957	15960	8299	0.52	978	15400	8008	0.52	1021
72	64	16450	11186	0.68	860	15750	10710	0.68	903	15120	10282	0.68	946	14560	9901	0.68	989
72	68	17150	9604	0.56	903	16450	9212	0.56	957	15960	8938	0.56	978	15400	8624	0.56	1021
72	72	17850	7854	0.44	935	17220	7577	0.44	994	16800	7392	0.44	1021	16100	7084	0.44	1064
73	64	16450	11844	0.72	860	15750	11340	0.72	903	15120	10886	0.72	946	14560	10483	0.72	989
73	68	17150	10290	0.60	903	16450	9870	0.60	957	15960	9576	0.60	978	15400	9240	0.60	1021
73	72	17850	8568	0.48	935	17220	8266	0.48	994	16800	8064	0.48	1021	16100	7728	0.48	1064
75	64	16450	12502	0.76	860	15750	11970	0.76	903	15120	11491	0.76	946	14560	11066	0.76	989
75	68	17150	10976	0.64	903	16450	10528	0.64	957	15960	10214	0.64	978	15400	9856	0.64	1021
75	72	17850	9282	0.52	935	17220	8954	0.52	994	16800	8736	0.52	1021	16100	8372	0.52	1064
75	75	18760	7504	0.40	978	18060	7224	0.40	1032	17640	7056	0.40	1064	17080	6832	0.40	1118
77	64	16450	13160	0.80	860	15750	12600	0.80	903	15120	12096	0.80	946	14560	11648	0.80	989
77	68	17150	11662	0.68	903	16450	11186	0.68	957	15960	10853	0.68	978	15400	10472	0.68	1021
77	72	17850	9996	0.56	935	17220	9643	0.56	994	16800	9408	0.56	1021	16100	9016	0.56	1064
77	75	18760	8254	0.44	978	18060	7946	0.44	1032	17640	7762	0.44	1064	17080	7515	0.44	1118
79	64	16450	13818	0.84	860	15750	13230	0.84	903	15120	12701	0.84	946	14560	12230	0.84	989
79	68	17150	12348	0.72	903	16450	11844	0.72	957	15960	11491	0.72	978	15400	11088	0.72	1021
79	72	17850	10710	0.60	935	17220	10332	0.60	994	16800	10080	0.60	1021	16100	9660	0.60	1064
79	75	18760	9005	0.48	978	18060	8669	0.48	1032	17640	8467	0.48	1064	17080	8198	0.48	1118
79	79	19320	6955	0.36	1032	18760	6754	0.36	1086	18480	6653	0.36	1118	17920	6451	0.36	1150
81	64	16450	14476	0.88	860	15750	13860	0.88	903	15120	13306	0.88	946	14560	12813	0.88	989
81	68	17150	13034	0.76	903	16450	12502	0.76	957	15960	12130	0.76	978	15400	11704	0.76	1021
81	72	17850	11424	0.64	935	17220	11021	0.64	994	16800	10752	0.64	1021	16100	10304	0.64	1064
81	75	18760	9755	0.52	978	18060	9391	0.52	1032	17640	9173	0.52	1064	17080	8882	0.52	1118
81	79	19320	7728	0.40	1032	18760	7504	0.40	1086	18480	7392	0.40	1118	17920	7168	0.40	1150
82	64	16450	15134	0.92	860	15750	14490	0.92	903	15120	13910	0.92	946	14560	13395	0.92	989
82	68	17150	13720	0.80	903	16450	13160	0.80	957	15960	12768	0.80	978	15400	12320	0.80	1021
82	72	17850	12138	0.68	935	17220	11710	0.68	994	16800	11424	0.68	1021	16100	10948	0.68	1064
82	75	18760	10506	0.56	978	18060	10114	0.56	1032	17640	9878	0.56	1064	17080	9565	0.56	1118
82	79	19320	8501	0.44	1032	18760	8254	0.44	1086	18480	8131	0.44	1118	17920	7885	0.44	1150
84	64	16450	15792	0.96	860	15750	15120	0.96	903	15120	14515	0.96	946	14560	13978	0.96	989
84	68	17150	14406	0.84	903	16450	13818	0.84	957	15960	13406	0.84	978	15400	12936	0.84	1021
84	72	17850	12852	0.72	935	17220	12398	0.72	994	16800	12096	0.72	1021	16100	11592	0.72	1064
84	75	18760	11256	0.60	978	18060	10836	0.60	1032	17640	10584	0.60	1064	17080	10248	0.60	1118
84	79	19320	9274	0.48	1032	18760	9005	0.48	1086	18480	8870	0.48	1118	17920	8602	0.48	1150
86	64	16450	16450	1.00	860	15750	15750	1.00	903	15120	15120	1.00	946	14560	14560	1.00	989
86	68	17150	15092	0.88	903	16450	14476	0.88	957	15960	14045	0.88	978	15400	13552	0.88	1021
86	72	17850	13566	0.76	935	17220	13087	0.76	994	16800	12768	0.76	1021	16100	12236	0.76	1064
86	75	18760	12006	0.64	978	18060	11558	0.64	1032	17640	11290	0.64	1064	17080	10931	0.64	1118
86	79	19320	10046	0.52	1032	18760	9755	0.52	1086	18480	9610	0.52	1118	17920	9318	0.52	1150
88	64	16450	16450	1.00	860	15750	15750	1.00	903	15120	15120	1.00	946	14560	14560	1.00	989
88	68	17150	15778	0.92	903	16450	15134	0.92	957	15960	14683	0.92	978	15400	14168	0.92	1021
88	72	17850	14280	0.80	935	17220	13776	0.80	994	16800	13440	0.80	1021	16100	12880	0.80	1064
88	75	18760	12757	0.68	978	18060	12281	0.68	1032	17640	11995	0.68	1064	17080	11614	0.68	1118
88	79	19320	10819	0.56	1032	18760	10506	0.56	1086	18480	10349	0.56	1118	17920	10035	0.56	1150
90	64	16450	16450	1.00	860	15750	15750	1.00	903	15120	15120	1.00	946	14560	14560	1.00	989
90	68	17150	16464	0.96	903	16450	15792	0.96	957	15960	15322	0.96	978	15400	14784	0.96	1021
90	72	17850	14994	0.84	935	17220	14465	0.84	994	16800	14112	0.84	1021	16100	13524	0.84	1064
90	75	18760	13507	0.72	978	18060	13003	0.72	1032	17640	12701	0.72	1064	17080	12298	0.72	1118
90	79	19320	11592	0.60	1032	18760	11256	0.60	1086	18480	11088	0.60	1118	17920	10752	0.60	1150

NOTE CA: Capacity (Btu/h) SHF: Sensible heat factor DB: Dry-bulb temperature
SHC: Sensible heat capacity (Btu/h) P.C. : Power consumption (W) WB: Wet-bulb temperature

MUZ-GX15NL MUY-GX15NL

CAPACITY (Btu/h): 14000 INPUT (W): 1075 SHF: 0.82

INDOOR DB (°F)	INDOOR WB (°F)	OUTDOOR DB (°F)											
		95				104				115			
		CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.
70	64	13720	8781	0.64	1054	12600	8064	0.64	1118	11620	7437	0.64	1161
70	68	14420	7498	0.52	1097	13440	6989	0.52	1150	12460	6479	0.52	1215
72	64	13720	9330	0.68	1054	12600	8568	0.68	1118	11620	7902	0.68	1161
72	68	14420	8075	0.56	1097	13440	7526	0.56	1150	12460	6978	0.56	1215
72	72	15260	6714	0.44	1140	14280	6283	0.44	1204	13300	5852	0.44	1247
73	64	13720	9878	0.72	1054	12600	9072	0.72	1118	11620	8366	0.72	1161
73	68	14420	8652	0.60	1097	13440	8064	0.60	1150	12460	7476	0.60	1215
73	72	15260	7325	0.48	1140	14280	6854	0.48	1204	13300	6384	0.48	1247
75	64	13720	10427	0.76	1054	12600	9576	0.76	1118	11620	8831	0.76	1161
75	68	14420	9229	0.64	1097	13440	8602	0.64	1150	12460	7974	0.64	1215
75	72	15260	7935	0.52	1140	14280	7426	0.52	1204	13300	6916	0.52	1247
75	75	16100	6440	0.40	1183	15120	6048	0.40	1236	14280	5712	0.40	1290
77	64	13720	10976	0.80	1054	12600	10080	0.80	1118	11620	9296	0.8	1161
77	68	14420	9806	0.68	1097	13440	9139	0.68	1150	12460	8473	0.68	1215
77	72	15260	8546	0.56	1140	14280	7997	0.56	1204	13300	7448	0.56	1247
77	75	16100	7084	0.44	1183	15120	6653	0.44	1236	14280	6283	0.44	1290
79	64	13720	11525	0.84	1054	12600	10584	0.84	1118	11620	9761	0.84	1161
79	68	14420	10382	0.72	1097	13440	9677	0.72	1150	12460	8971	0.72	1215
79	72	15260	9156	0.60	1140	14280	8568	0.60	1204	13300	7980	0.60	1247
79	75	16100	7728	0.48	1183	15120	7258	0.48	1236	14280	6854	0.48	1290
79	79	16940	6098	0.36	1226	15960	5746	0.36	1279	14980	5393	0.36	1333
81	64	13720	12074	0.88	1054	12600	11088	0.88	1118	11620	10226	0.88	1161
81	68	14420	10959	0.76	1097	13440	10214	0.76	1150	12460	9470	0.76	1215
81	72	15260	9766	0.64	1140	14280	9139	0.64	1204	13300	8512	0.64	1247
81	75	16100	8372	0.52	1183	15120	7862	0.52	1236	14280	7426	0.52	1290
81	79	16940	6776	0.40	1226	15960	6384	0.40	1279	14980	5992	0.40	1333
82	64	13720	12622	0.92	1054	12600	11592	0.92	1118	11620	10690	0.92	1161
82	68	14420	11536	0.80	1097	13440	10752	0.80	1150	12460	9968	0.80	1215
82	72	15260	10377	0.68	1140	14280	9710	0.68	1204	13300	9044	0.68	1247
82	75	16100	9016	0.56	1183	15120	8467	0.56	1236	14280	7997	0.56	1290
82	79	16940	7454	0.44	1226	15960	7022	0.44	1279	14980	6591	0.44	1333
84	64	13720	13171	0.96	1054	12600	12096	0.96	1118	11620	11155	0.96	1161
84	68	14420	12113	0.84	1097	13440	11290	0.84	1150	12460	10466	0.84	1215
84	72	15260	10987	0.72	1140	14280	10282	0.72	1204	13300	9576	0.72	1247
84	75	16100	9660	0.60	1183	15120	9072	0.60	1236	14280	8568	0.60	1290
84	79	16940	8131	0.48	1226	15960	7661	0.48	1279	14980	7190	0.48	1333
86	64	13720	13720	1.00	1054	12600	12600	1.00	1118	11620	11620	1.00	1161
86	68	14420	12690	0.88	1097	13440	11827	0.88	1150	12460	10965	0.88	1215
86	72	15260	11598	0.76	1140	14280	10853	0.76	1204	13300	10108	0.76	1247
86	75	16100	10304	0.64	1183	15120	9677	0.64	1236	14280	9139	0.64	1290
86	79	16940	8809	0.52	1226	15960	8299	0.52	1279	14980	7790	0.52	1333
88	64	13720	13720	1.00	1054	12600	12600	1.00	1118	11620	11620	1.00	1161
88	68	14420	13266	0.92	1097	13440	12365	0.92	1150	12460	11463	0.92	1215
88	72	15260	12208	0.80	1140	14280	11424	0.80	1204	13300	10640	0.80	1247
88	75	16100	10948	0.68	1183	15120	10282	0.68	1236	14280	9710	0.68	1290
88	79	16940	9486	0.56	1226	15960	8938	0.56	1279	14980	8389	0.56	1333
90	64	13720	13720	1.00	1054	12600	12600	1.00	1118	11620	11620	1.00	1161
90	68	14420	13843	0.96	1097	13440	12902	0.96	1150	12460	11962	0.96	1215
90	72	15260	12818	0.84	1140	14280	11995	0.84	1204	13300	11172	0.84	1247
90	75	16100	11592	0.72	1183	15120	10886	0.72	1236	14280	10282	0.72	1290
90	79	16940	10164	0.60	1226	15960	9576	0.60	1279	14980	8988	0.60	1333

NOTE CA: Capacity (Btu/h) SHF: Sensible heat factor DB: Dry-bulb temperature
SHC: Sensible heat capacity (Btu/h) P.C. : Power consumption (W) WB: Wet-bulb temperature

MUZ-GX15NLHZ

CAPACITY (Btu/h): 14000 INPUT (W): 1075 SHF: 0.82

INDOOR DB (°F)	INDOOR WB (°F)	OUTDOOR DB (°F)															
		70				77				81				86			
		CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.
70	64	16450	10528	0.64	860	15750	10080	0.64	903	15120	9677	0.64	946	14560	9318	0.64	989
70	68	17150	8918	0.52	903	16450	8554	0.52	957	15960	8299	0.52	978	15400	8008	0.52	1021
72	64	16450	11186	0.68	860	15750	10710	0.68	903	15120	10282	0.68	946	14560	9901	0.68	989
72	68	17150	9604	0.56	903	16450	9212	0.56	957	15960	8938	0.56	978	15400	8624	0.56	1021
72	72	17850	7854	0.44	935	17220	7577	0.44	994	16800	7392	0.44	1021	16100	7084	0.44	1064
73	64	16450	11844	0.72	860	15750	11340	0.72	903	15120	10886	0.72	946	14560	10483	0.72	989
73	68	17150	10290	0.60	903	16450	9870	0.60	957	15960	9576	0.60	978	15400	9240	0.60	1021
73	72	17850	8568	0.48	935	17220	8266	0.48	994	16800	8064	0.48	1021	16100	7728	0.48	1064
75	64	16450	12502	0.76	860	15750	11970	0.76	903	15120	11491	0.76	946	14560	11066	0.76	989
75	68	17150	10976	0.64	903	16450	10528	0.64	957	15960	10214	0.64	978	15400	9856	0.64	1021
75	72	17850	9282	0.52	935	17220	8954	0.52	994	16800	8736	0.52	1021	16100	8372	0.52	1064
75	75	18760	7504	0.40	978	18060	7224	0.40	1032	17640	7056	0.40	1064	17080	6832	0.40	1118
77	64	16450	13160	0.80	860	15750	12600	0.80	903	15120	12096	0.80	946	14560	11648	0.80	989
77	68	17150	11662	0.68	903	16450	11186	0.68	957	15960	10853	0.68	978	15400	10472	0.68	1021
77	72	17850	9996	0.56	935	17220	9643	0.56	994	16800	9408	0.56	1021	16100	9016	0.56	1064
77	75	18760	8254	0.44	978	18060	7946	0.44	1032	17640	7762	0.44	1064	17080	7515	0.44	1118
79	64	16450	13818	0.84	860	15750	13230	0.84	903	15120	12701	0.84	946	14560	12230	0.84	989
79	68	17150	12348	0.72	903	16450	11844	0.72	957	15960	11491	0.72	978	15400	11088	0.72	1021
79	72	17850	10710	0.60	935	17220	10332	0.60	994	16800	10080	0.60	1021	16100	9660	0.60	1064
79	75	18760	9005	0.48	978	18060	8669	0.48	1032	17640	8467	0.48	1064	17080	8198	0.48	1118
79	79	19320	6955	0.36	1032	18760	6754	0.36	1086	18480	6653	0.36	1118	17920	6451	0.36	1150
81	64	16450	14476	0.88	860	15750	13860	0.88	903	15120	13306	0.88	946	14560	12813	0.88	989
81	68	17150	13034	0.76	903	16450	12502	0.76	957	15960	12130	0.76	978	15400	11704	0.76	1021
81	72	17850	11424	0.64	935	17220	11021	0.64	994	16800	10752	0.64	1021	16100	10304	0.64	1064
81	75	18760	9755	0.52	978	18060	9391	0.52	1032	17640	9173	0.52	1064	17080	8882	0.52	1118
81	79	19320	7728	0.40	1032	18760	7504	0.40	1086	18480	7392	0.40	1118	17920	7168	0.40	1150
82	64	16450	15134	0.92	860	15750	14490	0.92	903	15120	13910	0.92	946	14560	13395	0.92	989
82	68	17150	13720	0.80	903	16450	13160	0.80	957	15960	12768	0.80	978	15400	12320	0.80	1021
82	72	17850	12138	0.68	935	17220	11710	0.68	994	16800	11424	0.68	1021	16100	10948	0.68	1064
82	75	18760	10506	0.56	978	18060	10114	0.56	1032	17640	9878	0.56	1064	17080	9565	0.56	1118
82	79	19320	8501	0.44	1032	18760	8254	0.44	1086	18480	8131	0.44	1118	17920	7885	0.44	1150
84	64	16450	15792	0.96	860	15750	15120	0.96	903	15120	14515	0.96	946	14560	13978	0.96	989
84	68	17150	14406	0.84	903	16450	13818	0.84	957	15960	13406	0.84	978	15400	12936	0.84	1021
84	72	17850	12852	0.72	935	17220	12398	0.72	994	16800	12096	0.72	1021	16100	11592	0.72	1064
84	75	18760	11256	0.60	978	18060	10836	0.60	1032	17640	10584	0.60	1064	17080	10248	0.60	1118
84	79	19320	9274	0.48	1032	18760	9005	0.48	1086	18480	8870	0.48	1118	17920	8602	0.48	1150
86	64	16450	16450	1.00	860	15750	15750	1.00	903	15120	15120	1.00	946	14560	14560	1.00	989
86	68	17150	15092	0.88	903	16450	14476	0.88	957	15960	14045	0.88	978	15400	13552	0.88	1021
86	72	17850	13566	0.76	935	17220	13087	0.76	994	16800	12768	0.76	1021	16100	12236	0.76	1064
86	75	18760	12006	0.64	978	18060	11558	0.64	1032	17640	11290	0.64	1064	17080	10931	0.64	1118
86	79	19320	10046	0.52	1032	18760	9755	0.52	1086	18480	9610	0.52	1118	17920	9318	0.52	1150
88	64	16450	16450	1.00	860	15750	15750	1.00	903	15120	15120	1.00	946	14560	14560	1.00	989
88	68	17150	15778	0.92	903	16450	15134	0.92	957	15960	14683	0.92	978	15400	14168	0.92	1021
88	72	17850	14280	0.80	935	17220	13776	0.80	994	16800	13440	0.80	1021	16100	12880	0.80	1064
88	75	18760	12757	0.68	978	18060	12281	0.68	1032	17640	11995	0.68	1064	17080	11614	0.68	1118
88	79	19320	10819	0.56	1032	18760	10506	0.56	1086	18480	10349	0.56	1118	17920	10035	0.56	1150
90	64	16450	16450	1.00	860	15750	15750	1.00	903	15120	15120	1.00	946	14560	14560	1.00	989
90	68	17150	16464	0.96	903	16450	15792	0.96	957	15960	15322	0.96	978	15400	14784	0.96	1021
90	72	17850	14994	0.84	935	17220	14465	0.84	994	16800	14112	0.84	1021	16100	13524	0.84	1064
90	75	18760	13507	0.72	978	18060	13003	0.72	1032	17640	12701	0.72	1064	17080	12298	0.72	1118
90	79	19320	11592	0.60	1032	18760	11256	0.60	1086	18480	11088	0.60	1118	17920	10752	0.60	1150

NOTE CA: Capacity (Btu/h) SHF: Sensible heat factor DB: Dry-bulb temperature
SHC: Sensible heat capacity (Btu/h) P.C. : Power consumption (W) WB: Wet-bulb temperature

MUZ-GX15NLHZ

CAPACITY (Btu/h): 14000 INPUT (W): 1075 SHF: 0.82

INDOOR DB (°F)	INDOOR WB (°F)	OUTDOOR DB (°F)											
		95				104				115			
		CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.
70	64	13720	8781	0.64	1054	12600	8064	0.64	1118	11620	7437	0.64	1161
70	68	14420	7498	0.52	1097	13440	6989	0.52	1150	12460	6479	0.52	1215
72	64	13720	9330	0.68	1054	12600	8568	0.68	1118	11620	7902	0.68	1161
72	68	14420	8075	0.56	1097	13440	7526	0.56	1150	12460	6978	0.56	1215
72	72	15260	6714	0.44	1140	14280	6283	0.44	1204	13300	5852	0.44	1247
73	64	13720	9878	0.72	1054	12600	9072	0.72	1118	11620	8366	0.72	1161
73	68	14420	8652	0.60	1097	13440	8064	0.60	1150	12460	7476	0.60	1215
73	72	15260	7325	0.48	1140	14280	6854	0.48	1204	13300	6384	0.48	1247
75	64	13720	10427	0.76	1054	12600	9576	0.76	1118	11620	8831	0.76	1161
75	68	14420	9229	0.64	1097	13440	8602	0.64	1150	12460	7974	0.64	1215
75	72	15260	7935	0.52	1140	14280	7426	0.52	1204	13300	6916	0.52	1247
75	75	16100	6440	0.40	1183	15120	6048	0.40	1236	14280	5712	0.40	1290
77	64	13720	10976	0.80	1054	12600	10080	0.80	1118	11620	9296	0.8	1161
77	68	14420	9806	0.68	1097	13440	9139	0.68	1150	12460	8473	0.68	1215
77	72	15260	8546	0.56	1140	14280	7997	0.56	1204	13300	7448	0.56	1247
77	75	16100	7084	0.44	1183	15120	6653	0.44	1236	14280	6283	0.44	1290
79	64	13720	11525	0.84	1054	12600	10584	0.84	1118	11620	9761	0.84	1161
79	68	14420	10382	0.72	1097	13440	9677	0.72	1150	12460	8971	0.72	1215
79	72	15260	9156	0.60	1140	14280	8568	0.60	1204	13300	7980	0.60	1247
79	75	16100	7728	0.48	1183	15120	7258	0.48	1236	14280	6854	0.48	1290
79	79	16940	6098	0.36	1226	15960	5746	0.36	1279	14980	5393	0.36	1333
81	64	13720	12074	0.88	1054	12600	11088	0.88	1118	11620	10226	0.88	1161
81	68	14420	10959	0.76	1097	13440	10214	0.76	1150	12460	9470	0.76	1215
81	72	15260	9766	0.64	1140	14280	9139	0.64	1204	13300	8512	0.64	1247
81	75	16100	8372	0.52	1183	15120	7862	0.52	1236	14280	7426	0.52	1290
81	79	16940	6776	0.40	1226	15960	6384	0.40	1279	14980	5992	0.40	1333
82	64	13720	12622	0.92	1054	12600	11592	0.92	1118	11620	10690	0.92	1161
82	68	14420	11536	0.80	1097	13440	10752	0.80	1150	12460	9968	0.80	1215
82	72	15260	10377	0.68	1140	14280	9710	0.68	1204	13300	9044	0.68	1247
82	75	16100	9016	0.56	1183	15120	8467	0.56	1236	14280	7997	0.56	1290
82	79	16940	7454	0.44	1226	15960	7022	0.44	1279	14980	6591	0.44	1333
84	64	13720	13171	0.96	1054	12600	12096	0.96	1118	11620	11155	0.96	1161
84	68	14420	12113	0.84	1097	13440	11290	0.84	1150	12460	10466	0.84	1215
84	72	15260	10987	0.72	1140	14280	10282	0.72	1204	13300	9576	0.72	1247
84	75	16100	9660	0.60	1183	15120	9072	0.60	1236	14280	8568	0.60	1290
84	79	16940	8131	0.48	1226	15960	7661	0.48	1279	14980	7190	0.48	1333
86	64	13720	13720	1.00	1054	12600	12600	1.00	1118	11620	11620	1.00	1161
86	68	14420	12690	0.88	1097	13440	11827	0.88	1150	12460	10965	0.88	1215
86	72	15260	11598	0.76	1140	14280	10853	0.76	1204	13300	10108	0.76	1247
86	75	16100	10304	0.64	1183	15120	9677	0.64	1236	14280	9139	0.64	1290
86	79	16940	8809	0.52	1226	15960	8299	0.52	1279	14980	7790	0.52	1333
88	64	13720	13720	1.00	1054	12600	12600	1.00	1118	11620	11620	1.00	1161
88	68	14420	13266	0.92	1097	13440	12365	0.92	1150	12460	11463	0.92	1215
88	72	15260	12208	0.80	1140	14280	11424	0.80	1204	13300	10640	0.80	1247
88	75	16100	10948	0.68	1183	15120	10282	0.68	1236	14280	9710	0.68	1290
88	79	16940	9486	0.56	1226	15960	8938	0.56	1279	14980	8389	0.56	1333
90	64	13720	13720	1.00	1054	12600	12600	1.00	1118	11620	11620	1.00	1161
90	68	14420	13843	0.96	1097	13440	12902	0.96	1150	12460	11962	0.96	1215
90	72	15260	12818	0.84	1140	14280	11995	0.84	1204	13300	11172	0.84	1247
90	75	16100	11592	0.72	1183	15120	10886	0.72	1236	14280	10282	0.72	1290
90	79	16940	10164	0.60	1226	15960	9576	0.60	1279	14980	8988	0.60	1333

NOTE CA: Capacity (Btu/h) SHF: Sensible heat factor DB: Dry-bulb temperature
SHC: Sensible heat capacity (Btu/h) P.C. : Power consumption (W) WB: Wet-bulb temperature

MUZ-GX18NL MUY-GX18NL

CAPACITY (Btu/h): 18000 INPUT (W): 1280 SHF: 0.79

INDOOR DB (°F)	INDOOR WB (°F)	OUTDOOR DB (°F)															
		70				77				81				86			
		CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.
70	64	21150	12902	0.61	1024	20250	12353	0.61	1075	19440	11858	0.61	1126	18720	11419	0.61	1178
70	68	22050	10805	0.49	1075	21150	10364	0.49	1139	20520	10055	0.49	1165	19800	9702	0.49	1216
72	64	21150	13748	0.65	1024	20250	13163	0.65	1075	19440	12636	0.65	1126	18720	12168	0.65	1178
72	68	22050	11687	0.53	1075	21150	11210	0.53	1139	20520	10876	0.53	1165	19800	10494	0.53	1216
72	72	22950	9410	0.41	1114	22140	9077	0.41	1184	21600	8856	0.41	1216	20700	8487	0.41	1267
73	64	21150	14594	0.69	1024	20250	13973	0.69	1075	19440	13414	0.69	1126	18720	12917	0.69	1178
73	68	22050	12569	0.57	1075	21150	12056	0.57	1139	20520	11696	0.57	1165	19800	11286	0.57	1216
73	72	22950	10328	0.45	1114	22140	9963	0.45	1184	21600	9720	0.45	1216	20700	9315	0.45	1267
75	64	21150	15440	0.73	1024	20250	14783	0.73	1075	19440	14191	0.73	1126	18720	13666	0.73	1178
75	68	22050	13451	0.61	1075	21150	12902	0.61	1139	20520	12517	0.61	1165	19800	12078	0.61	1216
75	72	22950	11246	0.49	1114	22140	10849	0.49	1184	21600	10584	0.49	1216	20700	10143	0.49	1267
75	75	24120	8924	0.37	1165	23220	8591	0.37	1229	22680	8392	0.37	1267	21960	8125	0.37	1331
77	64	21150	16286	0.77	1024	20250	15593	0.77	1075	19440	14969	0.77	1126	18720	14414	0.77	1178
77	68	22050	14333	0.65	1075	21150	13748	0.65	1139	20520	13338	0.65	1165	19800	12870	0.65	1216
77	72	22950	12164	0.53	1114	22140	11734	0.53	1184	21600	11448	0.53	1216	20700	10971	0.53	1267
77	75	24120	9889	0.41	1165	23220	9520	0.41	1229	22680	9299	0.41	1267	21960	9004	0.41	1331
79	64	21150	17132	0.81	1024	20250	16403	0.81	1075	19440	15746	0.81	1126	18720	15163	0.81	1178
79	68	22050	15215	0.69	1075	21150	14594	0.69	1139	20520	14159	0.69	1165	19800	13662	0.69	1216
79	72	22950	13082	0.57	1114	22140	12620	0.57	1184	21600	12312	0.57	1216	20700	11799	0.57	1267
79	75	24120	10854	0.45	1165	23220	10449	0.45	1229	22680	10206	0.45	1267	21960	9882	0.45	1331
79	79	24840	8197	0.33	1229	24120	7960	0.33	1293	23760	7841	0.33	1331	23040	7603	0.33	1370
81	64	21150	17978	0.85	1024	20250	17213	0.85	1075	19440	16524	0.85	1126	18720	15912	0.85	1178
81	68	22050	16097	0.73	1075	21150	15440	0.73	1139	20520	14980	0.73	1165	19800	14454	0.73	1216
81	72	22950	14000	0.61	1114	22140	13505	0.61	1184	21600	13176	0.61	1216	20700	12627	0.61	1267
81	75	24120	11819	0.49	1165	23220	11378	0.49	1229	22680	11113	0.49	1267	21960	10760	0.49	1331
81	79	24840	9191	0.37	1229	24120	8924	0.37	1293	23760	8791	0.37	1331	23040	8525	0.37	1370
82	64	21150	18824	0.89	1024	20250	18023	0.89	1075	19440	17302	0.89	1126	18720	16661	0.89	1178
82	68	22050	16979	0.77	1075	21150	16286	0.77	1139	20520	15800	0.77	1165	19800	15246	0.77	1216
82	72	22950	14918	0.65	1114	22140	14391	0.65	1184	21600	14040	0.65	1216	20700	13455	0.65	1267
82	75	24120	12784	0.53	1165	23220	12307	0.53	1229	22680	12020	0.53	1267	21960	11639	0.53	1331
82	79	24840	10184	0.41	1229	24120	9889	0.41	1293	23760	9742	0.41	1331	23040	9446	0.41	1370
84	64	21150	19670	0.93	1024	20250	18833	0.93	1075	19440	18079	0.93	1126	18720	17410	0.93	1178
84	68	22050	17861	0.81	1075	21150	17132	0.81	1139	20520	16621	0.81	1165	19800	16038	0.81	1216
84	72	22950	15836	0.69	1114	22140	15277	0.69	1184	21600	14904	0.69	1216	20700	14283	0.69	1267
84	75	24120	13748	0.57	1165	23220	13235	0.57	1229	22680	12928	0.57	1267	21960	12517	0.57	1331
84	79	24840	11178	0.45	1229	24120	10854	0.45	1293	23760	10692	0.45	1331	23040	10368	0.45	1370
86	64	21150	20516	0.97	1024	20250	19643	0.97	1075	19440	18857	0.97	1126	18720	18158	0.97	1178
86	68	22050	18743	0.85	1075	21150	17978	0.85	1139	20520	17442	0.85	1165	19800	16830	0.85	1216
86	72	22950	16754	0.73	1114	22140	16162	0.73	1184	21600	15768	0.73	1216	20700	15111	0.73	1267
86	75	24120	14713	0.61	1165	23220	14164	0.61	1229	22680	13835	0.61	1267	21960	13396	0.61	1331
86	79	24840	12172	0.49	1229	24120	11819	0.49	1293	23760	11642	0.49	1331	23040	11290	0.49	1370
88	64	21150	21150	1.00	1024	20250	20250	1.00	1075	19440	19440	1.00	1126	18720	18720	1.00	1178
88	68	22050	19625	0.89	1075	21150	18824	0.89	1139	20520	18263	0.89	1165	19800	17622	0.89	1216
88	72	22950	17672	0.77	1114	22140	17048	0.77	1184	21600	16632	0.77	1216	20700	15939	0.77	1267
88	75	24120	15678	0.65	1165	23220	15093	0.65	1229	22680	14742	0.65	1267	21960	14274	0.65	1331
88	79	24840	13165	0.53	1229	24120	12784	0.53	1293	23760	12593	0.53	1331	23040	12211	0.53	1370
90	64	21150	21150	1.00	1024	20250	20250	1.00	1075	19440	19440	1.00	1126	18720	18720	1.00	1178
90	68	22050	20507	0.93	1075	21150	19670	0.93	1139	20520	19084	0.93	1165	19800	18414	0.93	1216
90	72	22950	18590	0.81	1114	22140	17933	0.81	1184	21600	17496	0.81	1216	20700	16767	0.81	1267
90	75	24120	16643	0.69	1165	23220	16022	0.69	1229	22680	15649	0.69	1267	21960	15152	0.69	1331
90	79	24840	14159	0.57	1229	24120	13748	0.57	1293	23760	13543	0.57	1331	23040	13133	0.57	1370

NOTE CA: Capacity (Btu/h) SHF: Sensible heat factor DB: Dry-bulb temperature
SHC: Sensible heat capacity (Btu/h) P.C. : Power consumption (W) WB: Wet-bulb temperature

MUZ-GX18NL MUY-GX18NL

CAPACITY (Btu/h): 18000 INPUT (W): 1280 SHF: 0.79

INDOOR DB (°F)	INDOOR WB (°F)	OUTDOOR DB (°F)											
		95				104				115			
		CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.
70	64	17640	10760	0.61	1254	16200	9882	0.61	1331	14940	9113	0.61	1382
70	68	18540	9085	0.49	1306	17280	8467	0.49	1370	16020	7850	0.49	1446
72	64	17640	11466	0.65	1254	16200	10530	0.65	1331	14940	9711	0.65	1382
72	68	18540	9826	0.53	1306	17280	9158	0.53	1370	16020	8491	0.53	1446
72	72	19620	8044	0.41	1357	18360	7528	0.41	1434	17100	7011	0.41	1485
73	64	17640	12172	0.69	1254	16200	11178	0.69	1331	14940	10309	0.69	1382
73	68	18540	10568	0.57	1306	17280	9850	0.57	1370	16020	9131	0.57	1446
73	72	19620	8829	0.45	1357	18360	8262	0.45	1434	17100	7695	0.45	1485
75	64	17640	12877	0.73	1254	16200	11826	0.73	1331	14940	10906	0.73	1382
75	68	18540	11309	0.61	1306	17280	10541	0.61	1370	16020	9772	0.61	1446
75	72	19620	9614	0.49	1357	18360	8996	0.49	1434	17100	8379	0.49	1485
75	75	20700	7659	0.37	1408	19440	7193	0.37	1472	18360	6793	0.37	1536
77	64	17640	13583	0.77	1254	16200	12474	0.77	1331	14940	11504	0.77	1382
77	68	18540	12051	0.65	1306	17280	11232	0.65	1370	16020	10413	0.65	1446
77	72	19620	10399	0.53	1357	18360	9731	0.53	1434	17100	9063	0.53	1485
77	75	20700	8487	0.41	1408	19440	7970	0.41	1472	18360	7528	0.41	1536
79	64	17640	14288	0.81	1254	16200	13122	0.81	1331	14940	12101	0.81	1382
79	68	18540	12793	0.69	1306	17280	11923	0.69	1370	16020	11054	0.69	1446
79	72	19620	11183	0.57	1357	18360	10465	0.57	1434	17100	9747	0.57	1485
79	75	20700	9315	0.45	1408	19440	8748	0.45	1472	18360	8262	0.45	1536
79	79	21780	7187	0.33	1459	20520	6772	0.33	1523	19260	6356	0.33	1587
81	64	17640	14994	0.85	1254	16200	13770	0.85	1331	14940	12699	0.85	1382
81	68	18540	13534	0.73	1306	17280	12614	0.73	1370	16020	11695	0.73	1446
81	72	19620	11968	0.61	1357	18360	11200	0.61	1434	17100	10431	0.61	1485
81	75	20700	10143	0.49	1408	19440	9526	0.49	1472	18360	8996	0.49	1536
81	79	21780	8059	0.37	1459	20520	7592	0.37	1523	19260	7126	0.37	1587
82	64	17640	15700	0.89	1254	16200	14418	0.89	1331	14940	13297	0.89	1382
82	68	18540	14276	0.77	1306	17280	13306	0.77	1370	16020	12335	0.77	1446
82	72	19620	12753	0.65	1357	18360	11934	0.65	1434	17100	11115	0.65	1485
82	75	20700	10971	0.53	1408	19440	10303	0.53	1472	18360	9731	0.53	1536
82	79	21780	8930	0.41	1459	20520	8413	0.41	1523	19260	7897	0.41	1587
84	64	17640	16405	0.93	1254	16200	15066	0.93	1331	14940	13894	0.93	1382
84	68	18540	15017	0.81	1306	17280	13997	0.81	1370	16020	12976	0.81	1446
84	72	19620	13538	0.69	1357	18360	12668	0.69	1434	17100	11799	0.69	1485
84	75	20700	11799	0.57	1408	19440	11081	0.57	1472	18360	10465	0.57	1536
84	79	21780	9801	0.45	1459	20520	9234	0.45	1523	19260	8667	0.45	1587
86	64	17640	17111	0.97	1254	16200	15714	0.97	1331	14940	14492	0.97	1382
86	68	18540	15759	0.85	1306	17280	14688	0.85	1370	16020	13617	0.85	1446
86	72	19620	14323	0.73	1357	18360	13403	0.73	1434	17100	12483	0.73	1485
86	75	20700	12627	0.61	1408	19440	11858	0.61	1472	18360	11200	0.61	1536
86	79	21780	10672	0.49	1459	20520	10055	0.49	1523	19260	9437	0.49	1587
88	64	17640	17640	1.00	1254	16200	16200	1.00	1331	14940	14940	1.00	1382
88	68	18540	16501	0.89	1306	17280	15379	0.89	1370	16020	14258	0.89	1446
88	72	19620	15107	0.77	1357	18360	14137	0.77	1434	17100	13167	0.77	1485
88	75	20700	13455	0.65	1408	19440	12636	0.65	1472	18360	11934	0.65	1536
88	79	21780	11543	0.53	1459	20520	10876	0.53	1523	19260	10208	0.53	1587
90	64	17640	17640	1.00	1254	16200	16200	1.00	1331	14940	14940	1.00	1382
90	68	18540	17242	0.93	1306	17280	16070	0.93	1370	16020	14899	0.93	1446
90	72	19620	15892	0.81	1357	18360	14872	0.81	1434	17100	13851	0.81	1485
90	75	20700	14283	0.69	1408	19440	13414	0.69	1472	18360	12668	0.69	1536
90	79	21780	12415	0.57	1459	20520	11696	0.57	1523	19260	10978	0.57	1587

NOTE CA: Capacity (Btu/h) SHF: Sensible heat factor DB: Dry-bulb temperature
SHC: Sensible heat capacity (Btu/h) P.C. : Power consumption (W) WB: Wet-bulb temperature

MUZ-GX18NLHZ

CAPACITY (Btu/h): 18000 INPUT (W): 1280 SHF: 0.79

INDOOR DB (°F)	INDOOR WB (°F)	OUTDOOR DB (°F)															
		70				77				81				86			
		CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.
70	64	21150	12902	0.61	1024	20250	12353	0.61	1075	19440	11858	0.61	1126	18720	11419	0.61	1178
70	68	22050	10805	0.49	1075	21150	10364	0.49	1139	20520	10055	0.49	1165	19800	9702	0.49	1216
72	64	21150	13748	0.65	1024	20250	13163	0.65	1075	19440	12636	0.65	1126	18720	12168	0.65	1178
72	68	22050	11687	0.53	1075	21150	11210	0.53	1139	20520	10876	0.53	1165	19800	10494	0.53	1216
72	72	22950	9410	0.41	1114	22140	9077	0.41	1184	21600	8856	0.41	1216	20700	8487	0.41	1267
73	64	21150	14594	0.69	1024	20250	13973	0.69	1075	19440	13414	0.69	1126	18720	12917	0.69	1178
73	68	22050	12569	0.57	1075	21150	12056	0.57	1139	20520	11696	0.57	1165	19800	11286	0.57	1216
73	72	22950	10328	0.45	1114	22140	9963	0.45	1184	21600	9720	0.45	1216	20700	9315	0.45	1267
75	64	21150	15440	0.73	1024	20250	14783	0.73	1075	19440	14191	0.73	1126	18720	13666	0.73	1178
75	68	22050	13451	0.61	1075	21150	12902	0.61	1139	20520	12517	0.61	1165	19800	12078	0.61	1216
75	72	22950	11246	0.49	1114	22140	10849	0.49	1184	21600	10584	0.49	1216	20700	10143	0.49	1267
75	75	24120	8924	0.37	1165	23220	8591	0.37	1229	22680	8392	0.37	1267	21960	8125	0.37	1331
77	64	21150	16286	0.77	1024	20250	15593	0.77	1075	19440	14969	0.77	1126	18720	14414	0.77	1178
77	68	22050	14333	0.65	1075	21150	13748	0.65	1139	20520	13338	0.65	1165	19800	12870	0.65	1216
77	72	22950	12164	0.53	1114	22140	11734	0.53	1184	21600	11448	0.53	1216	20700	10971	0.53	1267
77	75	24120	9889	0.41	1165	23220	9520	0.41	1229	22680	9299	0.41	1267	21960	9004	0.41	1331
79	64	21150	17132	0.81	1024	20250	16403	0.81	1075	19440	15746	0.81	1126	18720	15163	0.81	1178
79	68	22050	15215	0.69	1075	21150	14594	0.69	1139	20520	14159	0.69	1165	19800	13662	0.69	1216
79	72	22950	13082	0.57	1114	22140	12620	0.57	1184	21600	12312	0.57	1216	20700	11799	0.57	1267
79	75	24120	10854	0.45	1165	23220	10449	0.45	1229	22680	10206	0.45	1267	21960	9882	0.45	1331
79	79	24840	8197	0.33	1229	24120	7960	0.33	1293	23760	7841	0.33	1331	23040	7603	0.33	1370
81	64	21150	17978	0.85	1024	20250	17213	0.85	1075	19440	16524	0.85	1126	18720	15912	0.85	1178
81	68	22050	16097	0.73	1075	21150	15440	0.73	1139	20520	14980	0.73	1165	19800	14454	0.73	1216
81	72	22950	14000	0.61	1114	22140	13505	0.61	1184	21600	13176	0.61	1216	20700	12627	0.61	1267
81	75	24120	11819	0.49	1165	23220	11378	0.49	1229	22680	11113	0.49	1267	21960	10760	0.49	1331
81	79	24840	9191	0.37	1229	24120	8924	0.37	1293	23760	8791	0.37	1331	23040	8525	0.37	1370
82	64	21150	18824	0.89	1024	20250	18023	0.89	1075	19440	17302	0.89	1126	18720	16661	0.89	1178
82	68	22050	16979	0.77	1075	21150	16286	0.77	1139	20520	15800	0.77	1165	19800	15246	0.77	1216
82	72	22950	14918	0.65	1114	22140	14391	0.65	1184	21600	14040	0.65	1216	20700	13455	0.65	1267
82	75	24120	12784	0.53	1165	23220	12307	0.53	1229	22680	12020	0.53	1267	21960	11639	0.53	1331
82	79	24840	10184	0.41	1229	24120	9889	0.41	1293	23760	9742	0.41	1331	23040	9446	0.41	1370
84	64	21150	19670	0.93	1024	20250	18833	0.93	1075	19440	18079	0.93	1126	18720	17410	0.93	1178
84	68	22050	17861	0.81	1075	21150	17132	0.81	1139	20520	16621	0.81	1165	19800	16038	0.81	1216
84	72	22950	15836	0.69	1114	22140	15277	0.69	1184	21600	14904	0.69	1216	20700	14283	0.69	1267
84	75	24120	13748	0.57	1165	23220	13235	0.57	1229	22680	12928	0.57	1267	21960	12517	0.57	1331
84	79	24840	11178	0.45	1229	24120	10854	0.45	1293	23760	10692	0.45	1331	23040	10368	0.45	1370
86	64	21150	20516	0.97	1024	20250	19643	0.97	1075	19440	18857	0.97	1126	18720	18158	0.97	1178
86	68	22050	18743	0.85	1075	21150	17978	0.85	1139	20520	17442	0.85	1165	19800	16830	0.85	1216
86	72	22950	16754	0.73	1114	22140	16162	0.73	1184	21600	15768	0.73	1216	20700	15111	0.73	1267
86	75	24120	14713	0.61	1165	23220	14164	0.61	1229	22680	13835	0.61	1267	21960	13396	0.61	1331
86	79	24840	12172	0.49	1229	24120	11819	0.49	1293	23760	11642	0.49	1331	23040	11290	0.49	1370
88	64	21150	21150	1.00	1024	20250	20250	1.00	1075	19440	19440	1.00	1126	18720	18720	1.00	1178
88	68	22050	19625	0.89	1075	21150	18824	0.89	1139	20520	18263	0.89	1165	19800	17622	0.89	1216
88	72	22950	17672	0.77	1114	22140	17048	0.77	1184	21600	16632	0.77	1216	20700	15939	0.77	1267
88	75	24120	15678	0.65	1165	23220	15093	0.65	1229	22680	14742	0.65	1267	21960	14274	0.65	1331
88	79	24840	13165	0.53	1229	24120	12784	0.53	1293	23760	12593	0.53	1331	23040	12211	0.53	1370
90	64	21150	21150	1.00	1024	20250	20250	1.00	1075	19440	19440	1.00	1126	18720	18720	1.00	1178
90	68	22050	20507	0.93	1075	21150	19670	0.93	1139	20520	19084	0.93	1165	19800	18414	0.93	1216
90	72	22950	18590	0.81	1114	22140	17933	0.81	1184	21600	17496	0.81	1216	20700	16767	0.81	1267
90	75	24120	16643	0.69	1165	23220	16022	0.69	1229	22680	15649	0.69	1267	21960	15152	0.69	1331
90	79	24840	14159	0.57	1229	24120	13748	0.57	1293	23760	13543	0.57	1331	23040	13133	0.57	1370

NOTE CA: Capacity (Btu/h) SHF: Sensible heat factor DB: Dry-bulb temperature
SHC: Sensible heat capacity (Btu/h) P.C. : Power consumption (W) WB: Wet-bulb temperature

MUZ-GX18NLHZ

CAPACITY (Btu/h): 18000 INPUT (W): 1280 SHF: 0.79

INDOOR DB (°F)	INDOOR WB (°F)	OUTDOOR DB (°F)											
		95				104				115			
		CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.
70	64	17640	10760	0.61	1254	16200	9882	0.61	1331	14940	9113	0.61	1382
70	68	18540	9085	0.49	1306	17280	8467	0.49	1370	16020	7850	0.49	1446
72	64	17640	11466	0.65	1254	16200	10530	0.65	1331	14940	9711	0.65	1382
72	68	18540	9826	0.53	1306	17280	9158	0.53	1370	16020	8491	0.53	1446
72	72	19620	8044	0.41	1357	18360	7528	0.41	1434	17100	7011	0.41	1485
73	64	17640	12172	0.69	1254	16200	11178	0.69	1331	14940	10309	0.69	1382
73	68	18540	10568	0.57	1306	17280	9850	0.57	1370	16020	9131	0.57	1446
73	72	19620	8829	0.45	1357	18360	8262	0.45	1434	17100	7695	0.45	1485
75	64	17640	12877	0.73	1254	16200	11826	0.73	1331	14940	10906	0.73	1382
75	68	18540	11309	0.61	1306	17280	10541	0.61	1370	16020	9772	0.61	1446
75	72	19620	9614	0.49	1357	18360	8996	0.49	1434	17100	8379	0.49	1485
75	75	20700	7659	0.37	1408	19440	7193	0.37	1472	18360	6793	0.37	1536
77	64	17640	13583	0.77	1254	16200	12474	0.77	1331	14940	11504	0.77	1382
77	68	18540	12051	0.65	1306	17280	11232	0.65	1370	16020	10413	0.65	1446
77	72	19620	10399	0.53	1357	18360	9731	0.53	1434	17100	9063	0.53	1485
77	75	20700	8487	0.41	1408	19440	7970	0.41	1472	18360	7528	0.41	1536
79	64	17640	14288	0.81	1254	16200	13122	0.81	1331	14940	12101	0.81	1382
79	68	18540	12793	0.69	1306	17280	11923	0.69	1370	16020	11054	0.69	1446
79	72	19620	11183	0.57	1357	18360	10465	0.57	1434	17100	9747	0.57	1485
79	75	20700	9315	0.45	1408	19440	8748	0.45	1472	18360	8262	0.45	1536
79	79	21780	7187	0.33	1459	20520	6772	0.33	1523	19260	6356	0.33	1587
81	64	17640	14994	0.85	1254	16200	13770	0.85	1331	14940	12699	0.85	1382
81	68	18540	13534	0.73	1306	17280	12614	0.73	1370	16020	11695	0.73	1446
81	72	19620	11968	0.61	1357	18360	11200	0.61	1434	17100	10431	0.61	1485
81	75	20700	10143	0.49	1408	19440	9526	0.49	1472	18360	8996	0.49	1536
81	79	21780	8059	0.37	1459	20520	7592	0.37	1523	19260	7126	0.37	1587
82	64	17640	15700	0.89	1254	16200	14418	0.89	1331	14940	13297	0.89	1382
82	68	18540	14276	0.77	1306	17280	13306	0.77	1370	16020	12335	0.77	1446
82	72	19620	12753	0.65	1357	18360	11934	0.65	1434	17100	11115	0.65	1485
82	75	20700	10971	0.53	1408	19440	10303	0.53	1472	18360	9731	0.53	1536
82	79	21780	8930	0.41	1459	20520	8413	0.41	1523	19260	7897	0.41	1587
84	64	17640	16405	0.93	1254	16200	15066	0.93	1331	14940	13894	0.93	1382
84	68	18540	15017	0.81	1306	17280	13997	0.81	1370	16020	12976	0.81	1446
84	72	19620	13538	0.69	1357	18360	12668	0.69	1434	17100	11799	0.69	1485
84	75	20700	11799	0.57	1408	19440	11081	0.57	1472	18360	10465	0.57	1536
84	79	21780	9801	0.45	1459	20520	9234	0.45	1523	19260	8667	0.45	1587
86	64	17640	17111	0.97	1254	16200	15714	0.97	1331	14940	14492	0.97	1382
86	68	18540	15759	0.85	1306	17280	14688	0.85	1370	16020	13617	0.85	1446
86	72	19620	14323	0.73	1357	18360	13403	0.73	1434	17100	12483	0.73	1485
86	75	20700	12627	0.61	1408	19440	11858	0.61	1472	18360	11200	0.61	1536
86	79	21780	10672	0.49	1459	20520	10055	0.49	1523	19260	9437	0.49	1587
88	64	17640	17640	1.00	1254	16200	16200	1.00	1331	14940	14940	1.00	1382
88	68	18540	16501	0.89	1306	17280	15379	0.89	1370	16020	14258	0.89	1446
88	72	19620	15107	0.77	1357	18360	14137	0.77	1434	17100	13167	0.77	1485
88	75	20700	13455	0.65	1408	19440	12636	0.65	1472	18360	11934	0.65	1536
88	79	21780	11543	0.53	1459	20520	10876	0.53	1523	19260	10208	0.53	1587
90	64	17640	17640	1.00	1254	16200	16200	1.00	1331	14940	14940	1.00	1382
90	68	18540	17242	0.93	1306	17280	16070	0.93	1370	16020	14899	0.93	1446
90	72	19620	15892	0.81	1357	18360	14872	0.81	1434	17100	13851	0.81	1485
90	75	20700	14283	0.69	1408	19440	13414	0.69	1472	18360	12668	0.69	1536
90	79	21780	12415	0.57	1459	20520	11696	0.57	1523	19260	10978	0.57	1587

NOTE CA: Capacity (Btu/h) SHF: Sensible heat factor DB: Dry-bulb temperature
SHC: Sensible heat capacity (Btu/h) P.C. : Power consumption (W) WB: Wet-bulb temperature

MUZ-GX24NL MUY-GX24NL

CAPACITY (Btu/h): 22400 INPUT (W): 1720 SHF: 0.78

INDOOR DB (°F)	INDOOR WB (°F)	OUTDOOR DB (°F)															
		70				77				81				86			
		CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.
70	64	26320	15792	0.60	1376	25200	15120	0.60	1445	24192	14515	0.60	1514	23296	13978	0.60	1582
70	68	27440	13171	0.48	1445	26320	12634	0.48	1531	25536	12257	0.48	1565	24640	11827	0.48	1634
72	64	26320	16845	0.64	1376	25200	16128	0.64	1445	24192	15483	0.64	1514	23296	14909	0.64	1582
72	68	27440	14269	0.52	1445	26320	13686	0.52	1531	25536	13279	0.52	1565	24640	12813	0.52	1634
72	72	28560	11424	0.40	1496	27552	11021	0.40	1591	26880	10752	0.40	1634	25760	10304	0.40	1703
73	64	26320	17898	0.68	1376	25200	17136	0.68	1445	24192	16451	0.68	1514	23296	15841	0.68	1582
73	68	27440	15366	0.56	1445	26320	14739	0.56	1531	25536	14300	0.56	1565	24640	13798	0.56	1634
73	72	28560	12566	0.44	1496	27552	12123	0.44	1591	26880	11827	0.44	1634	25760	11334	0.44	1703
75	64	26320	18950	0.72	1376	25200	18144	0.72	1445	24192	17418	0.72	1514	23296	16773	0.72	1582
75	68	27440	16464	0.60	1445	26320	15792	0.60	1531	25536	15322	0.60	1565	24640	14784	0.60	1634
75	72	28560	13709	0.48	1496	27552	13225	0.48	1591	26880	12902	0.48	1634	25760	12365	0.48	1703
75	75	30016	10806	0.36	1565	28896	10403	0.36	1651	28224	10161	0.36	1703	27328	9838	0.36	1789
77	64	26320	20003	0.76	1376	25200	19152	0.76	1445	24192	18386	0.76	1514	23296	17705	0.76	1582
77	68	27440	17562	0.64	1445	26320	16845	0.64	1531	25536	16343	0.64	1565	24640	15770	0.64	1634
77	72	28560	14851	0.52	1496	27552	14327	0.52	1591	26880	13978	0.52	1634	25760	13395	0.52	1703
77	75	30016	12006	0.40	1565	28896	11558	0.40	1651	28224	11290	0.40	1703	27328	10931	0.40	1789
79	64	26320	21056	0.80	1376	25200	20160	0.80	1445	24192	19354	0.80	1514	23296	18637	0.80	1582
79	68	27440	18659	0.68	1445	26320	17898	0.68	1531	25536	17364	0.68	1565	24640	16755	0.68	1634
79	72	28560	15994	0.56	1496	27552	15429	0.56	1591	26880	15053	0.56	1634	25760	14426	0.56	1703
79	75	30016	13207	0.44	1565	28896	12714	0.44	1651	28224	12419	0.44	1703	27328	12024	0.44	1789
79	79	30912	9892	0.32	1651	30016	9605	0.32	1737	29568	9462	0.32	1789	28672	9175	0.32	1840
81	64	26320	22109	0.84	1376	25200	21168	0.84	1445	24192	20321	0.84	1514	23296	19569	0.84	1582
81	68	27440	19757	0.72	1445	26320	18950	0.72	1531	25536	18386	0.72	1565	24640	17741	0.72	1634
81	72	28560	17136	0.60	1496	27552	16531	0.60	1591	26880	16128	0.60	1634	25760	15456	0.60	1703
81	75	30016	14408	0.48	1565	28896	13870	0.48	1651	28224	13548	0.48	1703	27328	13117	0.48	1789
81	79	30912	11128	0.36	1651	30016	10806	0.36	1737	29568	10644	0.36	1789	28672	10322	0.36	1840
82	64	26320	23162	0.88	1376	25200	22176	0.88	1445	24192	21289	0.88	1514	23296	20500	0.88	1582
82	68	27440	20854	0.76	1445	26320	20003	0.76	1531	25536	19407	0.76	1565	24640	18726	0.76	1634
82	72	28560	18278	0.64	1496	27552	17633	0.64	1591	26880	17203	0.64	1634	25760	16486	0.64	1703
82	75	30016	15608	0.52	1565	28896	15026	0.52	1651	28224	14676	0.52	1703	27328	14211	0.52	1789
82	79	30912	12365	0.40	1651	30016	12006	0.40	1737	29568	11827	0.40	1789	28672	11469	0.40	1840
84	64	26320	24214	0.92	1376	25200	23184	0.92	1445	24192	22257	0.92	1514	23296	21432	0.92	1582
84	68	27440	21952	0.80	1445	26320	21056	0.80	1531	25536	20429	0.80	1565	24640	19712	0.80	1634
84	72	28560	19421	0.68	1496	27552	18735	0.68	1591	26880	18278	0.68	1634	25760	17517	0.68	1703
84	75	30016	16809	0.56	1565	28896	16182	0.56	1651	28224	15805	0.56	1703	27328	15304	0.56	1789
84	79	30912	13601	0.44	1651	30016	13207	0.44	1737	29568	13010	0.44	1789	28672	12616	0.44	1840
86	64	26320	25267	0.96	1376	25200	24192	0.96	1445	24192	23224	0.96	1514	23296	22364	0.96	1582
86	68	27440	23050	0.84	1445	26320	22109	0.84	1531	25536	21450	0.84	1565	24640	20698	0.84	1634
86	72	28560	20563	0.72	1496	27552	19837	0.72	1591	26880	19354	0.72	1634	25760	18547	0.72	1703
86	75	30016	18010	0.60	1565	28896	17338	0.60	1651	28224	16934	0.60	1703	27328	16397	0.60	1789
86	79	30912	14838	0.48	1651	30016	14408	0.48	1737	29568	14193	0.48	1789	28672	13763	0.48	1840
88	64	26320	26320	1.00	1376	25200	25200	1.00	1445	24192	24192	1.00	1514	23296	23296	1.00	1582
88	68	27440	24147	0.88	1445	26320	23162	0.88	1531	25536	22472	0.88	1565	24640	21683	0.88	1634
88	72	28560	21706	0.76	1496	27552	20940	0.76	1591	26880	20429	0.76	1634	25760	19578	0.76	1703
88	75	30016	19210	0.64	1565	28896	18493	0.64	1651	28224	18063	0.64	1703	27328	17490	0.64	1789
88	79	30912	16074	0.52	1651	30016	15608	0.52	1737	29568	15375	0.52	1789	28672	14909	0.52	1840
90	64	26320	26320	1.00	1376	25200	25200	1.00	1445	24192	24192	1.00	1514	23296	23296	1.00	1582
90	68	27440	25245	0.92	1445	26320	24214	0.92	1531	25536	23493	0.92	1565	24640	22669	0.92	1634
90	72	28560	22848	0.80	1496	27552	22042	0.80	1591	26880	21504	0.80	1634	25760	20608	0.80	1703
90	75	30016	20411	0.68	1565	28896	19649	0.68	1651	28224	19192	0.68	1703	27328	18583	0.68	1789
90	79	30912	17311	0.56	1651	30016	16809	0.56	1737	29568	16558	0.56	1789	28672	16056	0.56	1840

NOTE CA: Capacity (Btu/h) SHF: Sensible heat factor DB: Dry-bulb temperature
SHC: Sensible heat capacity (Btu/h) P.C. : Power consumption (W) WB: Wet-bulb temperature

MUZ-GX24NL MUY-GX24NL

CAPACITY (Btu/h): 22400 INPUT (W): 1720 SHF: 0.78

INDOOR DB (°F)	INDOOR WB (°F)	OUTDOOR DB (°F)											
		95				104				115			
		CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.
70	64	21952	13171	0.60	1686	20160	12096	0.60	1789	18592	11155	0.60	1858
70	68	23072	11075	0.48	1754	21504	10322	0.48	1840	19936	9569	0.48	1944
72	64	21952	14049	0.64	1686	20160	12902	0.64	1789	18592	11899	0.64	1858
72	68	23072	11997	0.52	1754	21504	11182	0.52	1840	19936	10367	0.52	1944
72	72	24416	9766	0.40	1823	22848	9139	0.40	1926	21280	8512	0.40	1995
73	64	21952	14927	0.68	1686	20160	13709	0.68	1789	18592	12643	0.68	1858
73	68	23072	12920	0.56	1754	21504	12042	0.56	1840	19936	11164	0.56	1944
73	72	24416	10743	0.44	1823	22848	10053	0.44	1926	21280	9363	0.44	1995
75	64	21952	15805	0.72	1686	20160	14515	0.72	1789	18592	13386	0.72	1858
75	68	23072	13843	0.60	1754	21504	12902	0.60	1840	19936	11962	0.60	1944
75	72	24416	11720	0.48	1823	22848	10967	0.48	1926	21280	10214	0.48	1995
75	75	25760	9274	0.36	1892	24192	8709	0.36	1978	22848	8225	0.36	2064
77	64	21952	16684	0.76	1686	20160	15322	0.76	1789	18592	14130	0.76	1858
77	68	23072	14766	0.64	1754	21504	13763	0.64	1840	19936	12759	0.64	1944
77	72	24416	12696	0.52	1823	22848	11881	0.52	1926	21280	11066	0.52	1995
77	75	25760	10304	0.40	1892	24192	9677	0.40	1978	22848	9139	0.40	2064
79	64	21952	17562	0.80	1686	20160	16128	0.80	1789	18592	14874	0.80	1858
79	68	23072	15689	0.68	1754	21504	14623	0.68	1840	19936	13556	0.68	1944
79	72	24416	13673	0.56	1823	22848	12795	0.56	1926	21280	11917	0.56	1995
79	75	25760	11334	0.44	1892	24192	10644	0.44	1978	22848	10053	0.44	2064
79	79	27104	8673	0.32	1961	25536	8172	0.32	2047	23968	7670	0.32	2133
81	64	21952	18440	0.84	1686	20160	16934	0.84	1789	18592	15617	0.84	1858
81	68	23072	16612	0.72	1754	21504	15483	0.72	1840	19936	14354	0.72	1944
81	72	24416	14650	0.60	1823	22848	13709	0.60	1926	21280	12768	0.60	1995
81	75	25760	12365	0.48	1892	24192	11612	0.48	1978	22848	10967	0.48	2064
81	79	27104	9757	0.36	1961	25536	9193	0.36	2047	23968	8628	0.36	2133
82	64	21952	19318	0.88	1686	20160	17741	0.88	1789	18592	16361	0.88	1858
82	68	23072	17535	0.76	1754	21504	16343	0.76	1840	19936	15151	0.76	1944
82	72	24416	15626	0.64	1823	22848	14623	0.64	1926	21280	13619	0.64	1995
82	75	25760	13395	0.52	1892	24192	12580	0.52	1978	22848	11881	0.52	2064
82	79	27104	10842	0.40	1961	25536	10214	0.40	2047	23968	9587	0.40	2133
84	64	21952	20196	0.92	1686	20160	18547	0.92	1789	18592	17105	0.92	1858
84	68	23072	18458	0.80	1754	21504	17203	0.80	1840	19936	15949	0.80	1944
84	72	24416	16603	0.68	1823	22848	15537	0.68	1926	21280	14470	0.68	1995
84	75	25760	14426	0.56	1892	24192	13548	0.56	1978	22848	12795	0.56	2064
84	79	27104	11926	0.44	1961	25536	11236	0.44	2047	23968	10546	0.44	2133
86	64	21952	21074	0.96	1686	20160	19354	0.96	1789	18592	17848	0.96	1858
86	68	23072	19380	0.84	1754	21504	18063	0.84	1840	19936	16746	0.84	1944
86	72	24416	17580	0.72	1823	22848	16451	0.72	1926	21280	15322	0.72	1995
86	75	25760	15456	0.60	1892	24192	14515	0.60	1978	22848	13709	0.60	2064
86	79	27104	13010	0.48	1961	25536	12257	0.48	2047	23968	11505	0.48	2133
88	64	21952	21952	1.00	1686	20160	20160	1.00	1789	18592	18592	1.00	1858
88	68	23072	20303	0.88	1754	21504	18924	0.88	1840	19936	17544	0.88	1944
88	72	24416	18556	0.76	1823	22848	17364	0.76	1926	21280	16173	0.76	1995
88	75	25760	16486	0.64	1892	24192	15483	0.64	1978	22848	14623	0.64	2064
88	79	27104	14094	0.52	1961	25536	13279	0.52	2047	23968	12463	0.52	2133
90	64	21952	21952	1.00	1686	20160	20160	1.00	1789	18592	18592	1.00	1858
90	68	23072	21226	0.92	1754	21504	19784	0.92	1840	19936	18341	0.92	1944
90	72	24416	19533	0.80	1823	22848	18278	0.80	1926	21280	17024	0.80	1995
90	75	25760	17517	0.68	1892	24192	16451	0.68	1978	22848	15537	0.68	2064
90	79	27104	15178	0.56	1961	25536	14300	0.56	2047	23968	13422	0.56	2133

NOTE CA: Capacity (Btu/h) SHF: Sensible heat factor DB: Dry-bulb temperature
SHC: Sensible heat capacity (Btu/h) P.C. : Power consumption (W) WB: Wet-bulb temperature

MUZ-GX24NLHZ

CAPACITY (Btu/h): 22400 INPUT (W): 1720 SHF: 0.78

INDOOR DB (°F)	INDOOR WB (°F)	OUTDOOR DB (°F)															
		70				77				81				86			
		CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.
70	64	26320	15792	0.60	1376	25200	15120	0.60	1445	24192	14515	0.60	1514	23296	13978	0.60	1582
70	68	27440	13171	0.48	1445	26320	12634	0.48	1531	25536	12257	0.48	1565	24640	11827	0.48	1634
72	64	26320	16845	0.64	1376	25200	16128	0.64	1445	24192	15483	0.64	1514	23296	14909	0.64	1582
72	68	27440	14269	0.52	1445	26320	13686	0.52	1531	25536	13279	0.52	1565	24640	12813	0.52	1634
72	72	28560	11424	0.40	1496	27552	11021	0.40	1591	26880	10752	0.40	1634	25760	10304	0.40	1703
73	64	26320	17898	0.68	1376	25200	17136	0.68	1445	24192	16451	0.68	1514	23296	15841	0.68	1582
73	68	27440	15366	0.56	1445	26320	14739	0.56	1531	25536	14300	0.56	1565	24640	13798	0.56	1634
73	72	28560	12566	0.44	1496	27552	12123	0.44	1591	26880	11827	0.44	1634	25760	11334	0.44	1703
75	64	26320	18950	0.72	1376	25200	18144	0.72	1445	24192	17418	0.72	1514	23296	16773	0.72	1582
75	68	27440	16464	0.60	1445	26320	15792	0.60	1531	25536	15322	0.60	1565	24640	14784	0.60	1634
75	72	28560	13709	0.48	1496	27552	13225	0.48	1591	26880	12902	0.48	1634	25760	12365	0.48	1703
75	75	30016	10806	0.36	1565	28896	10403	0.36	1651	28224	10161	0.36	1703	27328	9838	0.36	1789
77	64	26320	20003	0.76	1376	25200	19152	0.76	1445	24192	18386	0.76	1514	23296	17705	0.76	1582
77	68	27440	17562	0.64	1445	26320	16845	0.64	1531	25536	16343	0.64	1565	24640	15770	0.64	1634
77	72	28560	14851	0.52	1496	27552	14327	0.52	1591	26880	13978	0.52	1634	25760	13395	0.52	1703
77	75	30016	12006	0.40	1565	28896	11558	0.40	1651	28224	11290	0.40	1703	27328	10931	0.40	1789
79	64	26320	21056	0.80	1376	25200	20160	0.80	1445	24192	19354	0.80	1514	23296	18637	0.80	1582
79	68	27440	18659	0.68	1445	26320	17898	0.68	1531	25536	17364	0.68	1565	24640	16755	0.68	1634
79	72	28560	15994	0.56	1496	27552	15429	0.56	1591	26880	15053	0.56	1634	25760	14426	0.56	1703
79	75	30016	13207	0.44	1565	28896	12714	0.44	1651	28224	12419	0.44	1703	27328	12024	0.44	1789
79	79	30912	9892	0.32	1651	30016	9605	0.32	1737	29568	9462	0.32	1789	28672	9175	0.32	1840
81	64	26320	22109	0.84	1376	25200	21168	0.84	1445	24192	20321	0.84	1514	23296	19569	0.84	1582
81	68	27440	19757	0.72	1445	26320	18950	0.72	1531	25536	18386	0.72	1565	24640	17741	0.72	1634
81	72	28560	17136	0.60	1496	27552	16531	0.60	1591	26880	16128	0.60	1634	25760	15456	0.60	1703
81	75	30016	14408	0.48	1565	28896	13870	0.48	1651	28224	13548	0.48	1703	27328	13117	0.48	1789
81	79	30912	11128	0.36	1651	30016	10806	0.36	1737	29568	10644	0.36	1789	28672	10322	0.36	1840
82	64	26320	23162	0.88	1376	25200	22176	0.88	1445	24192	21289	0.88	1514	23296	20500	0.88	1582
82	68	27440	20854	0.76	1445	26320	20003	0.76	1531	25536	19407	0.76	1565	24640	18726	0.76	1634
82	72	28560	18278	0.64	1496	27552	17633	0.64	1591	26880	17203	0.64	1634	25760	16486	0.64	1703
82	75	30016	15608	0.52	1565	28896	15026	0.52	1651	28224	14676	0.52	1703	27328	14211	0.52	1789
82	79	30912	12365	0.40	1651	30016	12006	0.40	1737	29568	11827	0.40	1789	28672	11469	0.40	1840
84	64	26320	24214	0.92	1376	25200	23184	0.92	1445	24192	22257	0.92	1514	23296	21432	0.92	1582
84	68	27440	21952	0.80	1445	26320	21056	0.80	1531	25536	20429	0.80	1565	24640	19712	0.80	1634
84	72	28560	19421	0.68	1496	27552	18735	0.68	1591	26880	18278	0.68	1634	25760	17517	0.68	1703
84	75	30016	16809	0.56	1565	28896	16182	0.56	1651	28224	15805	0.56	1703	27328	15304	0.56	1789
84	79	30912	13601	0.44	1651	30016	13207	0.44	1737	29568	13010	0.44	1789	28672	12616	0.44	1840
86	64	26320	25267	0.96	1376	25200	24192	0.96	1445	24192	23224	0.96	1514	23296	22364	0.96	1582
86	68	27440	23050	0.84	1445	26320	22109	0.84	1531	25536	21450	0.84	1565	24640	20698	0.84	1634
86	72	28560	20563	0.72	1496	27552	19837	0.72	1591	26880	19354	0.72	1634	25760	18547	0.72	1703
86	75	30016	18010	0.60	1565	28896	17338	0.60	1651	28224	16934	0.60	1703	27328	16397	0.60	1789
86	79	30912	14838	0.48	1651	30016	14408	0.48	1737	29568	14193	0.48	1789	28672	13763	0.48	1840
88	64	26320	26320	1.00	1376	25200	25200	1.00	1445	24192	24192	1.00	1514	23296	23296	1.00	1582
88	68	27440	24147	0.88	1445	26320	23162	0.88	1531	25536	22472	0.88	1565	24640	21683	0.88	1634
88	72	28560	21706	0.76	1496	27552	20940	0.76	1591	26880	20429	0.76	1634	25760	19578	0.76	1703
88	75	30016	19210	0.64	1565	28896	18493	0.64	1651	28224	18063	0.64	1703	27328	17490	0.64	1789
88	79	30912	16074	0.52	1651	30016	15608	0.52	1737	29568	15375	0.52	1789	28672	14909	0.52	1840
90	64	26320	26320	1.00	1376	25200	25200	1.00	1445	24192	24192	1.00	1514	23296	23296	1.00	1582
90	68	27440	25245	0.92	1445	26320	24214	0.92	1531	25536	23493	0.92	1565	24640	22669	0.92	1634
90	72	28560	22848	0.80	1496	27552	22042	0.80	1591	26880	21504	0.80	1634	25760	20608	0.80	1703
90	75	30016	20411	0.68	1565	28896	19649	0.68	1651	28224	19192	0.68	1703	27328	18583	0.68	1789
90	79	30912	17311	0.56	1651	30016	16809	0.56	1737	29568	16558	0.56	1789	28672	16056	0.56	1840

NOTE CA: Capacity (Btu/h) SHF: Sensible heat factor DB: Dry-bulb temperature
SHC: Sensible heat capacity (Btu/h) P.C. : Power consumption (W) WB: Wet-bulb temperature

MUZ-GX24NLHZ

CAPACITY (Btu/h): 22400 INPUT (W): 1720 SHF: 0.78

INDOOR DB (°F)	INDOOR WB (°F)	OUTDOOR DB (°F)											
		95				104				115			
		CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.
70	64	21952	13171	0.60	1686	20160	12096	0.60	1789	18592	11155	0.60	1858
70	68	23072	11075	0.48	1754	21504	10322	0.48	1840	19936	9569	0.48	1944
72	64	21952	14049	0.64	1686	20160	12902	0.64	1789	18592	11899	0.64	1858
72	68	23072	11997	0.52	1754	21504	11182	0.52	1840	19936	10367	0.52	1944
72	72	24416	9766	0.40	1823	22848	9139	0.40	1926	21280	8512	0.40	1995
73	64	21952	14927	0.68	1686	20160	13709	0.68	1789	18592	12643	0.68	1858
73	68	23072	12920	0.56	1754	21504	12042	0.56	1840	19936	11164	0.56	1944
73	72	24416	10743	0.44	1823	22848	10053	0.44	1926	21280	9363	0.44	1995
75	64	21952	15805	0.72	1686	20160	14515	0.72	1789	18592	13386	0.72	1858
75	68	23072	13843	0.60	1754	21504	12902	0.60	1840	19936	11962	0.60	1944
75	72	24416	11720	0.48	1823	22848	10967	0.48	1926	21280	10214	0.48	1995
75	75	25760	9274	0.36	1892	24192	8709	0.36	1978	22848	8225	0.36	2064
77	64	21952	16684	0.76	1686	20160	15322	0.76	1789	18592	14130	0.76	1858
77	68	23072	14766	0.64	1754	21504	13763	0.64	1840	19936	12759	0.64	1944
77	72	24416	12696	0.52	1823	22848	11881	0.52	1926	21280	11066	0.52	1995
77	75	25760	10304	0.40	1892	24192	9677	0.40	1978	22848	9139	0.40	2064
79	64	21952	17562	0.80	1686	20160	16128	0.80	1789	18592	14874	0.80	1858
79	68	23072	15689	0.68	1754	21504	14623	0.68	1840	19936	13556	0.68	1944
79	72	24416	13673	0.56	1823	22848	12795	0.56	1926	21280	11917	0.56	1995
79	75	25760	11334	0.44	1892	24192	10644	0.44	1978	22848	10053	0.44	2064
79	79	27104	8673	0.32	1961	25536	8172	0.32	2047	23968	7670	0.32	2133
81	64	21952	18440	0.84	1686	20160	16934	0.84	1789	18592	15617	0.84	1858
81	68	23072	16612	0.72	1754	21504	15483	0.72	1840	19936	14354	0.72	1944
81	72	24416	14650	0.60	1823	22848	13709	0.60	1926	21280	12768	0.60	1995
81	75	25760	12365	0.48	1892	24192	11612	0.48	1978	22848	10967	0.48	2064
81	79	27104	9757	0.36	1961	25536	9193	0.36	2047	23968	8628	0.36	2133
82	64	21952	19318	0.88	1686	20160	17741	0.88	1789	18592	16361	0.88	1858
82	68	23072	17535	0.76	1754	21504	16343	0.76	1840	19936	15151	0.76	1944
82	72	24416	15626	0.64	1823	22848	14623	0.64	1926	21280	13619	0.64	1995
82	75	25760	13395	0.52	1892	24192	12580	0.52	1978	22848	11881	0.52	2064
82	79	27104	10842	0.40	1961	25536	10214	0.40	2047	23968	9587	0.40	2133
84	64	21952	20196	0.92	1686	20160	18547	0.92	1789	18592	17105	0.92	1858
84	68	23072	18458	0.80	1754	21504	17203	0.80	1840	19936	15949	0.80	1944
84	72	24416	16603	0.68	1823	22848	15537	0.68	1926	21280	14470	0.68	1995
84	75	25760	14426	0.56	1892	24192	13548	0.56	1978	22848	12795	0.56	2064
84	79	27104	11926	0.44	1961	25536	11236	0.44	2047	23968	10546	0.44	2133
86	64	21952	21074	0.96	1686	20160	19354	0.96	1789	18592	17848	0.96	1858
86	68	23072	19380	0.84	1754	21504	18063	0.84	1840	19936	16746	0.84	1944
86	72	24416	17580	0.72	1823	22848	16451	0.72	1926	21280	15322	0.72	1995
86	75	25760	15456	0.60	1892	24192	14515	0.60	1978	22848	13709	0.60	2064
86	79	27104	13010	0.48	1961	25536	12257	0.48	2047	23968	11505	0.48	2133
88	64	21952	21952	1.00	1686	20160	20160	1.00	1789	18592	18592	1.00	1858
88	68	23072	20303	0.88	1754	21504	18924	0.88	1840	19936	17544	0.88	1944
88	72	24416	18556	0.76	1823	22848	17364	0.76	1926	21280	16173	0.76	1995
88	75	25760	16486	0.64	1892	24192	15483	0.64	1978	22848	14623	0.64	2064
88	79	27104	14094	0.52	1961	25536	13279	0.52	2047	23968	12463	0.52	2133
90	64	21952	21952	1.00	1686	20160	20160	1.00	1789	18592	18592	1.00	1858
90	68	23072	21226	0.92	1754	21504	19784	0.92	1840	19936	18341	0.92	1944
90	72	24416	19533	0.80	1823	22848	18278	0.80	1926	21280	17024	0.80	1995
90	75	25760	17517	0.68	1892	24192	16451	0.68	1978	22848	15537	0.68	2064
90	79	27104	15178	0.56	1961	25536	14300	0.56	2047	23968	13422	0.56	2133

NOTE CA: Capacity (Btu/h) SHF: Sensible heat factor DB: Dry-bulb temperature
SHC: Sensible heat capacity (Btu/h) P.C. : Power consumption (W) WB: Wet-bulb temperature

MUZ-GX30NL MUY-GX30NL

CAPACITY (Btu/h): 30600 INPUT (W): 3380 SHF: 0.7

INDOOR DB (°F)	INDOOR WB (°F)	OUTDOOR DB (°F)															
		70				77				81				86			
		CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.
70	64	35955	18697	0.52	2704	34425	17901	0.52	2839	33048	17185	0.52	2974	31824	16548	0.52	3110
70	68	37485	14994	0.40	2839	35955	14382	0.40	3008	34884	13954	0.40	3076	33660	13464	0.40	3211
72	64	35955	20135	0.56	2704	34425	19278	0.56	2839	33048	18507	0.56	2974	31824	17821	0.56	3110
72	68	37485	16493	0.44	2839	35955	15820	0.44	3008	34884	15349	0.44	3076	33660	14810	0.44	3211
72	72	39015	12485	0.32	2941	37638	12044	0.32	3127	36720	11750	0.32	3211	35190	11261	0.32	3346
73	64	35955	21573	0.60	2704	34425	20655	0.60	2839	33048	19829	0.60	2974	31824	19094	0.60	3110
73	68	37485	17993	0.48	2839	35955	17258	0.48	3008	34884	16744	0.48	3076	33660	16157	0.48	3211
73	72	39015	14045	0.36	2941	37638	13550	0.36	3127	36720	13219	0.36	3211	35190	12668	0.36	3346
75	64	35955	23011	0.64	2704	34425	22032	0.64	2839	33048	21151	0.64	2974	31824	20367	0.64	3110
75	68	37485	19492	0.52	2839	35955	18697	0.52	3008	34884	18140	0.52	3076	33660	17503	0.52	3211
75	72	39015	15606	0.40	2941	37638	15055	0.40	3127	36720	14688	0.40	3211	35190	14076	0.40	3346
75	75	41004	11481	0.28	3076	39474	11053	0.28	3245	38556	10796	0.28	3346	37332	10453	0.28	3515
77	64	35955	24449	0.68	2704	34425	23409	0.68	2839	33048	22473	0.68	2974	31824	21640	0.68	3110
77	68	37485	20992	0.56	2839	35955	20135	0.56	3008	34884	19535	0.56	3076	33660	18850	0.56	3211
77	72	39015	17167	0.44	2941	37638	16561	0.44	3127	36720	16157	0.44	3211	35190	15484	0.44	3346
77	75	41004	13121	0.32	3076	39474	12632	0.32	3245	38556	12338	0.32	3346	37332	11946	0.32	3515
79	64	35955	25888	0.72	2704	34425	24786	0.72	2839	33048	23795	0.72	2974	31824	22913	0.72	3110
79	68	37485	22491	0.60	2839	35955	21573	0.60	3008	34884	20930	0.60	3076	33660	20196	0.60	3211
79	72	39015	18727	0.48	2941	37638	18066	0.48	3127	36720	17626	0.48	3211	35190	16891	0.48	3346
79	75	41004	14761	0.36	3076	39474	14211	0.36	3245	38556	13880	0.36	3346	37332	13440	0.36	3515
79	79	42228	10135	0.24	3245	41004	9841	0.24	3414	40392	9694	0.24	3515	39168	9400	0.24	3617
81	64	35955	27326	0.76	2704	34425	26163	0.76	2839	33048	25116	0.76	2974	31824	24186	0.76	3110
81	68	37485	23990	0.64	2839	35955	23011	0.64	3008	34884	22326	0.64	3076	33660	21542	0.64	3211
81	72	39015	20288	0.52	2941	37638	19572	0.52	3127	36720	19094	0.52	3211	35190	18299	0.52	3346
81	75	41004	16402	0.40	3076	39474	15790	0.40	3245	38556	15422	0.40	3346	37332	14933	0.40	3515
81	79	42228	11824	0.28	3245	41004	11481	0.28	3414	40392	11310	0.28	3515	39168	10967	0.28	3617
82	64	35955	28764	0.80	2704	34425	27540	0.80	2839	33048	26438	0.80	2974	31824	25459	0.80	3110
82	68	37485	25490	0.68	2839	35955	24449	0.68	3008	34884	23721	0.68	3076	33660	22889	0.68	3211
82	72	39015	21848	0.56	2941	37638	21077	0.56	3127	36720	20563	0.56	3211	35190	19706	0.56	3346
82	75	41004	18042	0.44	3076	39474	17369	0.44	3245	38556	16965	0.44	3346	37332	16426	0.44	3515
82	79	42228	13513	0.32	3245	41004	13121	0.32	3414	40392	12925	0.32	3515	39168	12534	0.32	3617
84	64	35955	30202	0.84	2704	34425	28917	0.84	2839	33048	27760	0.84	2974	31824	26732	0.84	3110
84	68	37485	26989	0.72	2839	35955	25888	0.72	3008	34884	25116	0.72	3076	33660	24235	0.72	3211
84	72	39015	23409	0.60	2941	37638	22583	0.60	3127	36720	22032	0.60	3211	35190	21114	0.60	3346
84	75	41004	19682	0.48	3076	39474	18948	0.48	3245	38556	18507	0.48	3346	37332	17919	0.48	3515
84	79	42228	15202	0.36	3245	41004	14761	0.36	3414	40392	14541	0.36	3515	39168	14100	0.36	3617
86	64	35955	31640	0.88	2704	34425	30294	0.88	2839	33048	29082	0.88	2974	31824	28005	0.88	3110
86	68	37485	28489	0.76	2839	35955	27326	0.76	3008	34884	26512	0.76	3076	33660	25582	0.76	3211
86	72	39015	24970	0.64	2941	37638	24088	0.64	3127	36720	23501	0.64	3211	35190	22522	0.64	3346
86	75	41004	21322	0.52	3076	39474	20526	0.52	3245	38556	20049	0.52	3346	37332	19413	0.52	3515
86	79	42228	16891	0.40	3245	41004	16402	0.40	3414	40392	16157	0.40	3515	39168	15667	0.40	3617
88	64	35955	33079	0.92	2704	34425	31671	0.92	2839	33048	30404	0.92	2974	31824	29278	0.92	3110
88	68	37485	29988	0.80	2839	35955	28764	0.80	3008	34884	27907	0.80	3076	33660	26928	0.80	3211
88	72	39015	26530	0.68	2941	37638	25594	0.68	3127	36720	24970	0.68	3211	35190	23929	0.68	3346
88	75	41004	22962	0.56	3076	39474	22105	0.56	3245	38556	21591	0.56	3346	37332	20906	0.56	3515
88	79	42228	18580	0.44	3245	41004	18042	0.44	3414	40392	17772	0.44	3515	39168	17234	0.44	3617
90	64	35955	34517	0.96	2704	34425	33048	0.96	2839	33048	31726	0.96	2974	31824	30551	0.96	3110
90	68	37485	31487	0.84	2839	35955	30202	0.84	3008	34884	29303	0.84	3076	33660	28274	0.84	3211
90	72	39015	28091	0.72	2941	37638	27099	0.72	3127	36720	26438	0.72	3211	35190	25337	0.72	3346
90	75	41004	24602	0.60	3076	39474	23684	0.60	3245	38556	23134	0.60	3346	37332	22399	0.60	3515
90	79	42228	20269	0.48	3245	41004	19682	0.48	3414	40392	19388	0.48	3515	39168	18801	0.48	3617

NOTE CA: Capacity (Btu/h) SHF: Sensible heat factor DB: Dry-bulb temperature
SHC: Sensible heat capacity (Btu/h) P.C. : Power consumption (W) WB: Wet-bulb temperature

MUZ-GX30NL MUY-GX30NL

CAPACITY (Btu/h): 30600 INPUT (W): 3380 SHF: 0.7

INDOOR DB (°F)	INDOOR WB (°F)	OUTDOOR DB (°F)											
		95				104				115			
		CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.
70	64	29988	15594	0.52	3312	27540	14321	0.52	3515	25398	13207	0.52	3650
70	68	31518	12607	0.40	3448	29376	11750	0.40	3617	27234	10894	0.40	3819
72	64	29988	16793	0.56	3312	27540	15422	0.56	3515	25398	14223	0.56	3650
72	68	31518	13868	0.44	3448	29376	12925	0.44	3617	27234	11983	0.44	3819
72	72	33354	10673	0.32	3583	31212	9988	0.32	3786	29070	9302	0.32	3921
73	64	29988	17993	0.60	3312	27540	16524	0.60	3515	25398	15239	0.60	3650
73	68	31518	15129	0.48	3448	29376	14100	0.48	3617	27234	13072	0.48	3819
73	72	33354	12007	0.36	3583	31212	11236	0.36	3786	29070	10465	0.36	3921
75	64	29988	19192	0.64	3312	27540	17626	0.64	3515	25398	16255	0.64	3650
75	68	31518	16389	0.52	3448	29376	15276	0.52	3617	27234	14162	0.52	3819
75	72	33354	13342	0.40	3583	31212	12485	0.40	3786	29070	11628	0.40	3921
75	75	35190	9853	0.28	3718	33048	9253	0.28	3887	31212	8739	0.28	4056
77	64	29988	20392	0.68	3312	27540	18727	0.68	3515	25398	17271	0.68	3650
77	68	31518	17650	0.56	3448	29376	16451	0.56	3617	27234	15251	0.56	3819
77	72	33354	14676	0.44	3583	31212	13733	0.44	3786	29070	12791	0.44	3921
77	75	35190	11261	0.32	3718	33048	10575	0.32	3887	31212	9988	0.32	4056
79	64	29988	21591	0.72	3312	27540	19829	0.72	3515	25398	18287	0.72	3650
79	68	31518	18911	0.60	3448	29376	17626	0.60	3617	27234	16340	0.60	3819
79	72	33354	16010	0.48	3583	31212	14982	0.48	3786	29070	13954	0.48	3921
79	75	35190	12668	0.36	3718	33048	11897	0.36	3887	31212	11236	0.36	4056
79	79	37026	8886	0.24	3853	34884	8372	0.24	4022	32742	7858	0.24	4191
81	64	29988	22791	0.76	3312	27540	20930	0.76	3515	25398	19302	0.76	3650
81	68	31518	20172	0.64	3448	29376	18801	0.64	3617	27234	17430	0.64	3819
81	72	33354	17344	0.52	3583	31212	16230	0.52	3786	29070	15116	0.52	3921
81	75	35190	14076	0.40	3718	33048	13219	0.40	3887	31212	12485	0.40	4056
81	79	37026	10367	0.28	3853	34884	9768	0.28	4022	32742	9168	0.28	4191
82	64	29988	23990	0.80	3312	27540	22032	0.80	3515	25398	20318	0.80	3650
82	68	31518	21432	0.68	3448	29376	19976	0.68	3617	27234	18519	0.68	3819
82	72	33354	18678	0.56	3583	31212	17479	0.56	3786	29070	16279	0.56	3921
82	75	35190	15484	0.44	3718	33048	14541	0.44	3887	31212	13733	0.44	4056
82	79	37026	11848	0.32	3853	34884	11163	0.32	4022	32742	10477	0.32	4191
84	64	29988	25190	0.84	3312	27540	23134	0.84	3515	25398	21334	0.84	3650
84	68	31518	22693	0.72	3448	29376	21151	0.72	3617	27234	19608	0.72	3819
84	72	33354	20012	0.60	3583	31212	18727	0.60	3786	29070	17442	0.60	3921
84	75	35190	16891	0.48	3718	33048	15863	0.48	3887	31212	14982	0.48	4056
84	79	37026	13329	0.36	3853	34884	12558	0.36	4022	32742	11787	0.36	4191
86	64	29988	26389	0.88	3312	27540	24235	0.88	3515	25398	22350	0.88	3650
86	68	31518	23954	0.76	3448	29376	22326	0.76	3617	27234	20698	0.76	3819
86	72	33354	21347	0.64	3583	31212	19976	0.64	3786	29070	18605	0.64	3921
86	75	35190	18299	0.52	3718	33048	17185	0.52	3887	31212	16230	0.52	4056
86	79	37026	14810	0.40	3853	34884	13954	0.40	4022	32742	13097	0.40	4191
88	64	29988	27589	0.92	3312	27540	25337	0.92	3515	25398	23366	0.92	3650
88	68	31518	25214	0.80	3448	29376	23501	0.80	3617	27234	21787	0.80	3819
88	72	33354	22681	0.68	3583	31212	21224	0.68	3786	29070	19768	0.68	3921
88	75	35190	19706	0.56	3718	33048	18507	0.56	3887	31212	17479	0.56	4056
88	79	37026	16291	0.44	3853	34884	15349	0.44	4022	32742	14406	0.44	4191
90	64	29988	28788	0.96	3312	27540	26438	0.96	3515	25398	24382	0.96	3650
90	68	31518	26475	0.84	3448	29376	24676	0.84	3617	27234	22877	0.84	3819
90	72	33354	24015	0.72	3583	31212	22473	0.72	3786	29070	20930	0.72	3921
90	75	35190	21114	0.60	3718	33048	19829	0.60	3887	31212	18727	0.60	4056
90	79	37026	17772	0.48	3853	34884	16744	0.48	4022	32742	15716	0.48	4191

NOTE CA: Capacity (Btu/h) SHF: Sensible heat factor DB: Dry-bulb temperature
SHC: Sensible heat capacity (Btu/h) P.C. : Power consumption (W) WB: Wet-bulb temperature

MUZ-GX36NL MUY-GX36NL

CAPACITY (Btu/h): 33800 INPUT (W): 4020 SHF: 0.68

INDOOR DB (°F)	INDOOR WB (°F)	OUTDOOR DB (°F)															
		70				77				81				86			
		CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.
70	64	39715	19858	0.50	3216	38025	19013	0.50	3377	36504	18252	0.50	3538	35152	17576	0.50	3698
70	68	41405	15734	0.38	3377	39715	15092	0.38	3578	38532	14642	0.38	3658	37180	14128	0.38	3819
72	64	39715	21446	0.54	3216	38025	20534	0.54	3377	36504	19712	0.54	3538	35152	18982	0.54	3698
72	68	41405	17390	0.42	3377	39715	16680	0.42	3578	38532	16183	0.42	3658	37180	15616	0.42	3819
72	72	43095	12929	0.30	3497	41574	12472	0.30	3719	40560	12168	0.30	3819	38870	11661	0.30	3980
73	64	39715	23035	0.58	3216	38025	22055	0.58	3377	36504	21172	0.58	3538	35152	20388	0.58	3698
73	68	41405	19046	0.46	3377	39715	18269	0.46	3578	38532	17725	0.46	3658	37180	17103	0.46	3819
73	72	43095	14652	0.34	3497	41574	14135	0.34	3719	40560	13790	0.34	3819	38870	13216	0.34	3980
75	64	39715	24623	0.62	3216	38025	23576	0.62	3377	36504	22632	0.62	3538	35152	21794	0.62	3698
75	68	41405	20703	0.50	3377	39715	19858	0.50	3578	38532	19266	0.50	3658	37180	18590	0.50	3819
75	72	43095	16376	0.38	3497	41574	15798	0.38	3719	40560	15413	0.38	3819	38870	14771	0.38	3980
75	75	45292	11776	0.26	3658	43602	11337	0.26	3859	42588	11073	0.26	3980	41236	10721	0.26	4181
77	64	39715	26212	0.66	3216	38025	25097	0.66	3377	36504	24093	0.66	3538	35152	23200	0.66	3698
77	68	41405	22359	0.54	3377	39715	21446	0.54	3578	38532	20807	0.54	3658	37180	20077	0.54	3819
77	72	43095	18100	0.42	3497	41574	17461	0.42	3719	40560	17035	0.42	3819	38870	16325	0.42	3980
77	75	45292	13588	0.30	3658	43602	13081	0.30	3859	42588	12776	0.30	3980	41236	12371	0.30	4181
79	64	39715	27801	0.70	3216	38025	26618	0.70	3377	36504	25553	0.70	3538	35152	24606	0.70	3698
79	68	41405	24015	0.58	3377	39715	23035	0.58	3578	38532	22349	0.58	3658	37180	21564	0.58	3819
79	72	43095	19824	0.46	3497	41574	19124	0.46	3719	40560	18658	0.46	3819	38870	17880	0.46	3980
79	75	45292	15399	0.34	3658	43602	14825	0.34	3859	42588	14480	0.34	3980	41236	14020	0.34	4181
79	79	46644	10262	0.22	3859	45292	9964	0.22	4060	44616	9816	0.22	4181	43264	9518	0.22	4301
81	64	39715	29389	0.74	3216	38025	28139	0.74	3377	36504	27013	0.74	3538	35152	26012	0.74	3698
81	68	41405	25671	0.62	3377	39715	24623	0.62	3578	38532	23890	0.62	3658	37180	23052	0.62	3819
81	72	43095	21548	0.50	3497	41574	20787	0.50	3719	40560	20280	0.50	3819	38870	19435	0.50	3980
81	75	45292	17211	0.38	3658	43602	16569	0.38	3859	42588	16183	0.38	3980	41236	15670	0.38	4181
81	79	46644	12127	0.26	3859	45292	11776	0.26	4060	44616	11600	0.26	4181	43264	11249	0.26	4301
82	64	39715	30978	0.78	3216	38025	29660	0.78	3377	36504	28473	0.78	3538	35152	27419	0.78	3698
82	68	41405	27327	0.66	3377	39715	26212	0.66	3578	38532	25431	0.66	3658	37180	24539	0.66	3819
82	72	43095	23271	0.54	3497	41574	22450	0.54	3719	40560	21902	0.54	3819	38870	20990	0.54	3980
82	75	45292	19023	0.42	3658	43602	18313	0.42	3859	42588	17887	0.42	3980	41236	17319	0.42	4181
82	79	46644	13993	0.30	3859	45292	13588	0.30	4060	44616	13385	0.30	4181	43264	12979	0.30	4301
84	64	39715	32566	0.82	3216	38025	31181	0.82	3377	36504	29933	0.82	3538	35152	28825	0.82	3698
84	68	41405	28984	0.70	3377	39715	27801	0.70	3578	38532	26972	0.70	3658	37180	26026	0.70	3819
84	72	43095	24995	0.58	3497	41574	24113	0.58	3719	40560	23525	0.58	3819	38870	22545	0.58	3980
84	75	45292	20834	0.46	3658	43602	20057	0.46	3859	42588	19590	0.46	3980	41236	18969	0.46	4181
84	79	46644	15859	0.34	3859	45292	15399	0.34	4060	44616	15169	0.34	4181	43264	14710	0.34	4301
86	64	39715	34155	0.86	3216	38025	32702	0.86	3377	36504	31393	0.86	3538	35152	30231	0.86	3698
86	68	41405	30640	0.74	3377	39715	29389	0.74	3578	38532	28514	0.74	3658	37180	27513	0.74	3819
86	72	43095	26719	0.62	3497	41574	25776	0.62	3719	40560	25147	0.62	3819	38870	24099	0.62	3980
86	75	45292	22646	0.50	3658	43602	21801	0.50	3859	42588	21294	0.50	3980	41236	20618	0.50	4181
86	79	46644	17725	0.38	3859	45292	17211	0.38	4060	44616	16954	0.38	4181	43264	16440	0.38	4301
88	64	39715	35744	0.90	3216	38025	34223	0.90	3377	36504	32854	0.90	3538	35152	31637	0.90	3698
88	68	41405	32296	0.78	3377	39715	30978	0.78	3578	38532	30055	0.78	3658	37180	29000	0.78	3819
88	72	43095	28443	0.66	3497	41574	27439	0.66	3719	40560	26770	0.66	3819	38870	25654	0.66	3980
88	75	45292	24458	0.54	3658	43602	23545	0.54	3859	42588	22998	0.54	3980	41236	22267	0.54	4181
88	79	46644	19590	0.42	3859	45292	19023	0.42	4060	44616	18739	0.42	4181	43264	18171	0.42	4301
90	64	39715	37332	0.94	3216	38025	35744	0.94	3377	36504	34314	0.94	3538	35152	33043	0.94	3698
90	68	41405	33952	0.82	3377	39715	32566	0.82	3578	38532	31596	0.82	3658	37180	30488	0.82	3819
90	72	43095	30167	0.70	3497	41574	29102	0.70	3719	40560	28392	0.70	3819	38870	27209	0.70	3980
90	75	45292	26269	0.58	3658	43602	25289	0.58	3859	42588	24701	0.58	3980	41236	23917	0.58	4181
90	79	46644	21456	0.46	3859	45292	20834	0.46	4060	44616	20523	0.46	4181	43264	19901	0.46	4301

NOTE CA: Capacity (Btu/h) SHF: Sensible heat factor DB: Dry-bulb temperature
SHC: Sensible heat capacity (Btu/h) P.C. : Power consumption (W) WB: Wet-bulb temperature

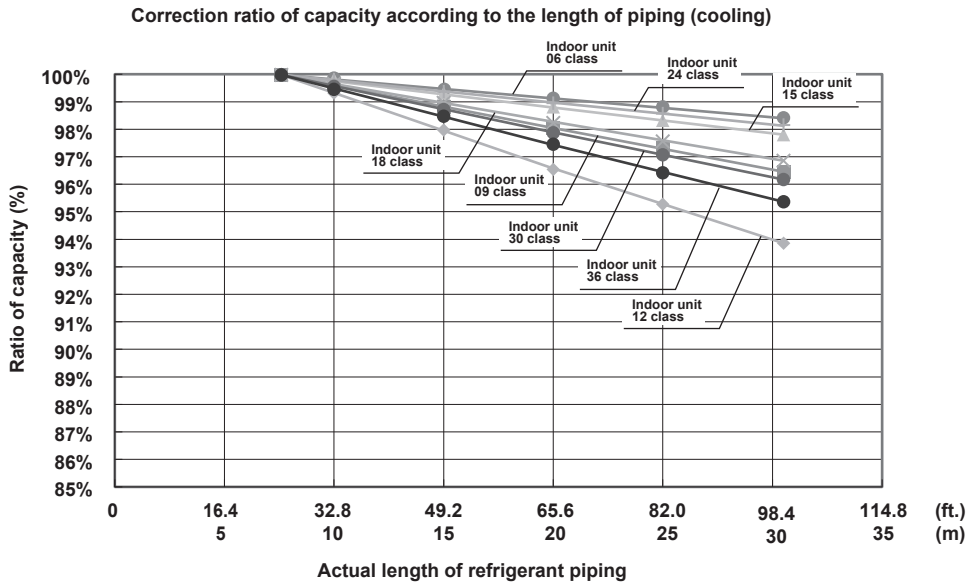
MUZ-GX36NL MUY-GX36NL

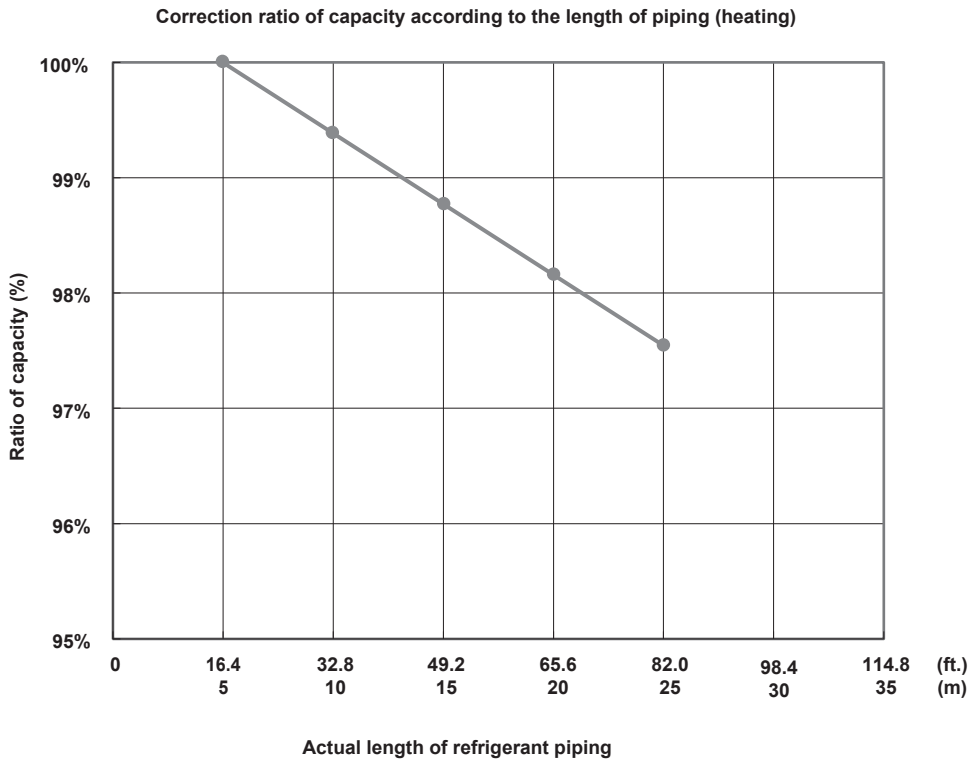
CAPACITY (Btu/h): 33800 INPUT (W): 4020 SHF: 0.68

INDOOR DB (°F)	INDOOR WB (°F)	OUTDOOR DB (°F)											
		95				104				115			
		CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.	CA	SHC	SHF	P.C.
70	64	33124	16562	0.50	3940	30420	15210	0.50	4181	28054	14027	0.50	4342
70	68	34814	13229	0.38	4100	32448	12330	0.38	4301	30082	11431	0.38	4543
72	64	33124	17887	0.54	3940	30420	16427	0.54	4181	28054	15149	0.54	4342
72	68	34814	14622	0.42	4100	32448	13628	0.42	4301	30082	12634	0.42	4543
72	72	36842	11053	0.30	4261	34476	10343	0.30	4502	32110	9633	0.30	4663
73	64	33124	19212	0.58	3940	30420	17644	0.58	4181	28054	16271	0.58	4342
73	68	34814	16014	0.46	4100	32448	14926	0.46	4301	30082	13838	0.46	4543
73	72	36842	12526	0.34	4261	34476	11722	0.34	4502	32110	10917	0.34	4663
75	64	33124	20537	0.62	3940	30420	18860	0.62	4181	28054	17393	0.62	4342
75	68	34814	17407	0.50	4100	32448	16224	0.50	4301	30082	15041	0.50	4543
75	72	36842	14000	0.38	4261	34476	13101	0.38	4502	32110	12202	0.38	4663
75	75	38870	10106	0.26	4422	36504	9491	0.26	4623	34476	8964	0.26	4824
77	64	33124	21862	0.66	3940	30420	20077	0.66	4181	28054	18516	0.66	4342
77	68	34814	18800	0.54	4100	32448	17522	0.54	4301	30082	16244	0.54	4543
77	72	36842	15474	0.42	4261	34476	14480	0.42	4502	32110	13486	0.42	4663
77	75	38870	11661	0.30	4422	36504	10951	0.30	4623	34476	10343	0.30	4824
79	64	33124	23187	0.70	3940	30420	21294	0.70	4181	28054	19638	0.70	4342
79	68	34814	20192	0.58	4100	32448	18820	0.58	4301	30082	17448	0.58	4543
79	72	36842	16947	0.46	4261	34476	15859	0.46	4502	32110	14771	0.46	4663
79	75	38870	13216	0.34	4422	36504	12411	0.34	4623	34476	11722	0.34	4824
79	79	40898	8998	0.22	4583	38532	8477	0.22	4784	36166	7957	0.22	4985
81	64	33124	24512	0.74	3940	30420	22511	0.74	4181	28054	20760	0.74	4342
81	68	34814	21585	0.62	4100	32448	20118	0.62	4301	30082	18651	0.62	4543
81	72	36842	18421	0.50	4261	34476	17238	0.50	4502	32110	16055	0.50	4663
81	75	38870	14771	0.38	4422	36504	13872	0.38	4623	34476	13101	0.38	4824
81	79	40898	10633	0.26	4583	38532	10018	0.26	4784	36166	9403	0.26	4985
82	64	33124	25837	0.78	3940	30420	23728	0.78	4181	28054	21882	0.78	4342
82	68	34814	22977	0.66	4100	32448	21416	0.66	4301	30082	19854	0.66	4543
82	72	36842	19895	0.54	4261	34476	18617	0.54	4502	32110	17339	0.54	4663
82	75	38870	16325	0.42	4422	36504	15332	0.42	4623	34476	14480	0.42	4824
82	79	40898	12269	0.30	4583	38532	11560	0.30	4784	36166	10850	0.30	4985
84	64	33124	27162	0.82	3940	30420	24944	0.82	4181	28054	23004	0.82	4342
84	68	34814	24370	0.70	4100	32448	22714	0.70	4301	30082	21057	0.70	4543
84	72	36842	21368	0.58	4261	34476	19996	0.58	4502	32110	18624	0.58	4663
84	75	38870	17880	0.46	4422	36504	16792	0.46	4623	34476	15859	0.46	4824
84	79	40898	13905	0.34	4583	38532	13101	0.34	4784	36166	12296	0.34	4985
86	64	33124	28487	0.86	3940	30420	26161	0.86	4181	28054	24126	0.86	4342
86	68	34814	25762	0.74	4100	32448	24012	0.74	4301	30082	22261	0.74	4543
86	72	36842	22842	0.62	4261	34476	21375	0.62	4502	32110	19908	0.62	4663
86	75	38870	19435	0.50	4422	36504	18252	0.50	4623	34476	17238	0.50	4824
86	79	40898	15541	0.38	4583	38532	14642	0.38	4784	36166	13743	0.38	4985
88	64	33124	29812	0.90	3940	30420	27378	0.90	4181	28054	25249	0.90	4342
88	68	34814	27155	0.78	4100	32448	25309	0.78	4301	30082	23464	0.78	4543
88	72	36842	24316	0.66	4261	34476	22754	0.66	4502	32110	21193	0.66	4663
88	75	38870	20990	0.54	4422	36504	19712	0.54	4623	34476	18617	0.54	4824
88	79	40898	17177	0.42	4583	38532	16183	0.42	4784	36166	15190	0.42	4985
90	64	33124	31137	0.94	3940	30420	28595	0.94	4181	28054	26371	0.94	4342
90	68	34814	28547	0.82	4100	32448	26607	0.82	4301	30082	24667	0.82	4543
90	72	36842	25789	0.70	4261	34476	24133	0.70	4502	32110	22477	0.70	4663
90	75	38870	22545	0.58	4422	36504	21172	0.58	4623	34476	19996	0.58	4824
90	79	40898	18813	0.46	4583	38532	17725	0.46	4784	36166	16636	0.46	4985

NOTE CA: Capacity (Btu/h) SHF: Sensible heat factor DB: Dry-bulb temperature
SHC: Sensible heat capacity (Btu/h) P.C. : Power consumption (W) WB: Wet-bulb temperature

17 CAPACITY CORRECTION RATIO CURVE FOR PIPING LENGTH





The length intended for the capacity calculation, which counts the length of refrigerant piping and the number of bends, is called actual length.

Length of refrigerant piping (ft.) + (Number of bends × 0.984 ft.) = Actual length of refrigerant piping (ft.)
[Length of refrigerant piping (m) + (Number of bends × 0.3 m) = Actual length of refrigerant piping (m)]

18 PART LOAD CAPACITY CHART

MUZ-GX09NL MUY-GX09NL

Rated
Q(Btu/h): 9000
W: 585

1) COOLING

Indoor W.B.			71°F / 21.7°C						67°F / 19.4°C						63°F / 17.2°C					
Outdoor D.B.			Max.	Rated	75%	50%	25%	Min.	Max.	Rated	75%	50%	25%	Min.	Max.	Rated	75%	50%	25%	Min.
(°F)	(°C)																			
115	46.1	Q(Btu/h)	11020	8280	8720	6440	4030	2900	10430	7700	8260	6100	3820	2740	9800	7020	7760	5730	3580	2580
		W	1240	670	950	680	380	240	1170	650	900	640	370	230	1120	620	860	600	340	220
110	43.3	Q(Btu/h)	11510	8640	9100	6720	4210	3020	10890	8040	8620	6370	3990	2860	10240	7360	8100	5980	3740	2690
		W	1200	660	930	670	370	240	1140	640	880	630	360	230	1090	610	840	590	330	220
105	40.6	Q(Btu/h)	11990	9000	9480	7000	4390	3150	11350	8370	8980	6630	4160	2980	10670	7700	8440	6230	3900	2800
		W	1170	650	910	650	360	230	1110	620	860	610	350	220	1060	600	820	570	330	210
100	37.8	Q(Btu/h)	12450	9340	9840	7260	4560	3260	11780	8690	9320	6880	4320	3090	11070	8080	8750	6460	4050	2910
		W	1140	630	890	640	350	230	1080	600	840	600	340	220	1030	580	800	560	320	210
95	35.0	Q(Btu/h)	12890	9680	10190	7530	4720	3380	12200	9000	9660	7130	4470	3200	11470	8460	9070	6700	4190	3010
		W	1110	610	860	620	340	220	1050	585	810	580	330	210	1000	560	770	540	310	200
90	32.2	Q(Btu/h)	13410	10000	10610	7830	4910	3520	12690	9360	10050	7420	4650	3330	11930	8780	9440	6970	4360	3130
		W	1070	590	830	590	330	210	1010	560	780	560	320	200	960	540	750	530	300	190
85	29.4	Q(Btu/h)	13930	10310	11010	8130	5100	3660	13180	9720	10430	7700	4830	3460	12390	9090	9800	7230	4530	3250
		W	1030	570	790	570	320	200	970	540	750	540	310	190	930	520	720	510	290	180
80	26.7	Q(Btu/h)	14440	10670	11420	8430	5290	3790	13670	10080	10820	7990	5010	3590	12850	9450	10160	7510	4700	3380
		W	980	550	760	550	310	200	930	520	720	520	300	190	890	500	690	490	280	180
75	23.9	Q(Btu/h)	14950	11030	11830	8730	5480	3920	14150	10440	11210	8270	5190	3710	13300	9810	10530	7770	4870	3490
		W	930	520	720	520	290	190	880	490	680	490	280	180	840	470	650	460	260	170
70	21.1	Q(Btu/h)	15470	11410	12230	9040	5660	4060	14640	10800	11590	8560	5360	3840	13760	10150	10890	8040	5030	3610
		W	890	500	690	490	270	180	840	470	650	460	260	170	800	450	620	430	240	160
65	18.3	Q(Btu/h)	13220	9750	9940	6680	3260	1640	12510	9230	9420	6330	3090	1550	11760	8670	8850	5950	2900	1460
		W	1170	650	880	590	280	140	1100	610	830	550	270	130	1050	580	790	510	250	120
60	15.6	Q(Btu/h)	13220	9750	9940	6680	3260	1640	12510	9230	9420	6330	3090	1550	11760	8670	8850	5950	2900	1460
		W	1170	650	880	590	280	140	1100	610	830	550	270	130	1050	580	790	510	250	120
55	12.8	Q(Btu/h)	13220	9750	9940	6680	3260	1640	12510	9230	9420	6330	3090	1550	11760	8670	8850	5950	2900	1460
		W	1170	650	880	590	280	140	1100	610	830	550	270	130	1050	580	790	510	250	120
50	10.0	Q(Btu/h)	13220	9750	9940	6680	3260	1640	12510	9230	9420	6330	3090	1550	11760	8670	8850	5950	2900	1460
		W	1170	650	880	590	280	140	1100	610	830	550	270	130	1050	580	790	510	250	120
45	7.2	Q(Btu/h)	13220	9750	9940	6680	3260	1640	12510	9230	9420	6330	3090	1550	11760	8670	8850	5950	2900	1460
		W	1170	650	880	590	280	140	1100	610	830	550	270	130	1050	580	790	510	250	120
40	4.4	Q(Btu/h)	13220	9750	9940	6680	3260	1640	12510	9230	9420	6330	3090	1550	11760	8670	8850	5950	2900	1460
		W	1170	650	880	590	280	140	1100	610	830	550	270	130	1050	580	790	510	250	120
35	1.7	Q(Btu/h)	13220	9750	9940	6680	3260	1640	12510	9230	9420	6330	3090	1550	11760	8670	8850	5950	2900	1460
		W	1170	650	880	590	280	140	1100	610	830	550	270	130	1050	580	790	510	250	120
30	-1.1	Q(Btu/h)	13220	9750	9940	6680	3260	1640	12510	9230	9420	6330	3090	1550	11760	8670	8850	5950	2900	1460
		W	1170	650	880	590	280	140	1100	610	830	550	270	130	1050	580	790	510	250	120
25	-3.9	Q(Btu/h)	13220	9750	9940	6680	3260	1640	12510	9230	9420	6330	3090	1550	11760	8670	8850	5950	2900	1460
		W	1170	650	880	590	280	140	1100	610	830	550	270	130	1050	580	790	510	250	120
20	-6.7	Q(Btu/h)	13220	9750	9940	6680	3260	1640	12510	9230	9420	6330	3090	1550	11760	8670	8850	5950	2900	1460
		W	1170	650	880	590	280	140	1100	610	830	550	270	130	1050	580	790	510	250	120
15	-9.4	Q(Btu/h)	13220	9750	9940	6680	3260	1640	12510	9230	9420	6330	3090	1550	11760	8670	8850	5950	2900	1460
		W	1170	650	880	590	280	140	1100	610	830	550	270	130	1050	580	790	510	250	120

* It may not reach the above capacities in low ambient temperatures.

MUZ-GX09NL

2) HEATING

Rated
Q(Btu/h): 10900
W: 720

Indoor D.B.			78.8°F / 26.0°C						70°F / 21.1°C						59°F / 15.0°C					
Outdoor W.B.			Max.	Rated	75%	50%	25%	Min.	Max.	Rated	75%	50%	25%	Min.	Max.	Rated	75%	50%	25%	Min.
(°F)	(°C)																			
65	18.3	Q(Btu/h)	19860	13620	14890	9930	4960	1770	20670	14170	15500	10330	5160	1840	21480	14720	16110	10730	5360	1910
		W	1980	820	1490	990	500	180	1880	780	1410	940	470	170	1780	740	1330	890	440	160
60	15.6	Q(Btu/h)	18790	12880	14090	9390	4700	1680	19600	13440	14700	9800	4900	1750	20410	14000	15310	10210	5100	1820
		W	1960	810	1470	990	500	180	1860	770	1400	940	470	170	1760	730	1330	890	440	160
55	12.8	Q(Btu/h)	17690	12130	13270	8850	4420	1580	18520	12700	13890	9260	4630	1650	19350	13270	14510	9670	4840	1720
		W	1940	800	1450	970	480	170	1840	760	1380	920	460	160	1740	720	1310	870	440	150
50	10.0	Q(Btu/h)	16610	11390	12460	8310	4160	1480	17450	11970	13090	8730	4370	1560	18290	12550	13720	9150	4580	1640
		W	1910	790	1420	950	470	170	1810	750	1350	900	450	160	1710	710	1280	850	430	150
45	7.2	Q(Btu/h)	15530	10650	11650	7760	3880	1380	16380	11230	12280	8180	4090	1460	17230	11810	12910	8600	4300	1540
		W	1860	770	1400	940	470	170	1770	730	1330	890	450	160	1680	690	1260	840	430	150
43	6.1	Q(Btu/h)	15060	10320	11300	7540	3770	1340	15900	10900	11930	7960	3980	1420	16740	11480	12560	8380	4190	1500
		W	1830	760	1380	920	460	170	1740	720	1310	870	440	160	1650	680	1240	820	420	150
40	4.4	Q(Btu/h)	14160	9860	10630	7090	3540	1270	14990	10440	11250	7500	3750	1340	15820	11020	11870	7910	3960	1410
		W	1790	750	1340	880	440	160	1700	710	1270	840	420	150	1610	670	1200	800	400	140
35	1.7	Q(Btu/h)	13250	9080	9940	6630	3310	1190	14070	9650	10560	7040	3520	1260	14890	10220	11180	7450	3730	1330
		W	1740	720	1310	870	440	160	1650	680	1240	830	420	150	1560	640	1170	790	400	140
30	-1.1	Q(Btu/h)	12340	8360	9250	6170	3080	1110	13160	8920	9870	6580	3290	1180	13980	9480	10490	6990	3500	1250
		W	1680	680	1250	830	410	150	1590	650	1190	790	390	140	1500	620	1130	750	370	130
25	-3.9	Q(Btu/h)	11420	7630	8570	5710	2860	1020	12240	8180	9180	6120	3060	1090	13060	8730	9790	6530	3260	1160
		W	1600	650	1200	800	400	150	1520	620	1140	760	380	140	1440	590	1080	720	360	130
20	-6.7	Q(Btu/h)	10400	6900	7810	5210	2610	930	11220	7440	8420	5620	2810	1000	12040	7980	9030	6030	3010	1070
		W	1540	600	1160	780	390	140	1460	570	1100	740	370	130	1380	540	1040	700	350	120
15	-9.4	Q(Btu/h)	9370	6160	7030	4690	2340	840	10200	6700	7650	5100	2550	910	11030	7240	8270	5510	2760	980
		W	1460	550	1100	730	360	130	1390	520	1040	690	340	120	1320	490	980	650	320	110
10	-12.2	Q(Btu/h)	8210	5390	6160	4110	2050	730	9050	5940	6790	4530	2260	810	9890	6490	7420	4950	2470	890
		W	1390	500	1040	700	350	130	1320	470	990	660	330	120	1250	440	940	620	310	110
5	-15.0	Q(Btu/h)	7040	4610	5270	3520	1750	620	7900	5180	5920	3950	1970	700	8760	5750	6570	4380	2190	780
		W	1320	430	990	660	340	120	1250	410	940	630	320	110	1180	390	890	600	300	100
0	-17.8	Q(Btu/h)	6110	3730	4580	3060	1530	550	7040	4300	5280	3520	1760	630	7970	4870	5980	3980	1990	710
		W	1260	550	950	630	320	120	1200	520	900	600	300	110	1140	490	850	570	280	100
-4	-20.0	Q(Btu/h)	5220	2890	3910	2600	1300	460	6180	3420	4630	3080	1540	550	7140	3950	5350	3560	1780	640
		W	1200	660	910	610	310	110	1140	630	860	580	290	100	1080	600	810	550	270	90

* Above data is for heating operation without any frost.

MUZ-GX09NLHZ

1) COOLING

Rated
Q(Btu/h): 9000
W: 585

Indoor W.B.			71°F / 21.7°C						67°F / 19.4°C						63°F / 17.2°C					
Outdoor D.B.			Max.	Rated	75%	50%	25%	Min.	Max.	Rated	75%	50%	25%	Min.	Max.	Rated	75%	50%	25%	Min.
(°F)	(°C)																			
115	46.1	Q(Btu/h)	11020	8280	8720	6440	4030	2900	10430	7700	8260	6100	3820	2740	9800	7020	7760	5730	3580	2580
		W	1240	670	950	680	380	240	1170	650	900	640	370	230	1120	620	860	600	340	220
110	43.3	Q(Btu/h)	11510	8640	9100	6720	4210	3020	10890	8040	8620	6370	3990	2860	10240	7360	8100	5980	3740	2690
		W	1200	660	930	670	370	240	1140	640	880	630	360	230	1090	610	840	590	330	220
105	40.6	Q(Btu/h)	11990	9000	9480	7000	4390	3150	11350	8370	8980	6630	4160	2980	10670	7700	8440	6230	3900	2800
		W	1170	650	910	650	360	230	1110	620	860	610	350	220	1060	600	820	570	330	210
100	37.8	Q(Btu/h)	12450	9340	9840	7260	4560	3260	11780	8690	9320	6880	4320	3090	11070	8080	8750	6460	4050	2910
		W	1140	630	890	640	350	230	1080	600	840	600	340	220	1030	580	800	560	320	210
95	35.0	Q(Btu/h)	12890	9680	10190	7530	4720	3380	12200	9000	9660	7130	4470	3200	11470	8460	9070	6700	4190	3010
		W	1110	610	860	620	340	220	1050	585	810	580	330	210	1000	560	770	540	310	200
90	32.2	Q(Btu/h)	13410	10000	10610	7830	4910	3520	12690	9360	10050	7420	4650	3330	11930	8780	9440	6970	4360	3130
		W	1070	590	830	590	330	210	1010	560	780	560	320	200	960	540	750	530	300	190
85	29.4	Q(Btu/h)	13930	10310	11010	8130	5100	3660	13180	9720	10430	7700	4830	3460	12390	9090	9800	7230	4530	3250
		W	1030	570	790	570	320	200	970	540	750	540	310	190	930	520	720	510	290	180
80	26.7	Q(Btu/h)	14440	10670	11420	8430	5290	3790	13670	10080	10820	7990	5010	3590	12850	9450	10160	7510	4700	3380
		W	980	550	760	550	310	200	930	520	720	520	300	190	890	500	690	490	280	180
75	23.9	Q(Btu/h)	14950	11030	11830	8730	5480	3920	14150	10440	11210	8270	5190	3710	13300	9810	10530	7770	4870	3490
		W	930	520	720	520	290	190	880	490	680	490	280	180	840	470	650	460	260	170
70	21.1	Q(Btu/h)	15470	11410	12230	9040	5660	4060	14640	10800	11590	8560	5360	3840	13760	10150	10890	8040	5030	3610
		W	890	500	690	490	270	180	840	470	650	460	260	170	800	450	620	430	240	160
65	18.3	Q(Btu/h)	13220	9750	9940	6680	3260	1640	12510	9230	9420	6330	3090	1550	11760	8670	8850	5950	2900	1460
		W	1170	650	880	590	280	140	1100	610	830	550	270	130	1050	580	790	510	250	120
60	15.6	Q(Btu/h)	13220	9750	9940	6680	3260	1640	12510	9230	9420	6330	3090	1550	11760	8670	8850	5950	2900	1460
		W	1170	650	880	590	280	140	1100	610	830	550	270	130	1050	580	790	510	250	120
55	12.8	Q(Btu/h)	13220	9750	9940	6680	3260	1640	12510	9230	9420	6330	3090	1550	11760	8670	8850	5950	2900	1460
		W	1170	650	880	590	280	140	1100	610	830	550	270	130	1050	580	790	510	250	120
50	10.0	Q(Btu/h)	13220	9750	9940	6680	3260	1640	12510	9230	9420	6330	3090	1550	11760	8670	8850	5950	2900	1460
		W	1170	650	880	590	280	140	1100	610	830	550	270	130	1050	580	790	510	250	120
45	7.2	Q(Btu/h)	13220	9750	9940	6680	3260	1640	12510	9230	9420	6330	3090	1550	11760	8670	8850	5950	2900	1460
		W	1170	650	880	590	280	140	1100	610	830	550	270	130	1050	580	790	510	250	120
40	4.4	Q(Btu/h)	13220	9750	9940	6680	3260	1640	12510	9230	9420	6330	3090	1550	11760	8670	8850	5950	2900	1460
		W	1170	650	880	590	280	140	1100	610	830	550	270	130	1050	580	790	510	250	120
35	1.7	Q(Btu/h)	13220	9750	9940	6680	3260	1640	12510	9230	9420	6330	3090	1550	11760	8670	8850	5950	2900	1460
		W	1170	650	880	590	280	140	1100	610	830	550	270	130	1050	580	790	510	250	120
30	-1.1	Q(Btu/h)	13220	9750	9940	6680	3260	1640	12510	9230	9420	6330	3090	1550	11760	8670	8850	5950	2900	1460
		W	1170	650	880	590	280	140	1100	610	830	550	270	130	1050	580	790	510	250	120
25	-3.9	Q(Btu/h)	13220	9750	9940	6680	3260	1640	12510	9230	9420	6330	3090	1550	11760	8670	8850	5950	2900	1460
		W	1170	650	880	590	280	140	1100	610	830	550	270	130	1050	580	790	510	250	120
20	-6.7	Q(Btu/h)	13220	9750	9940	6680	3260	1640	12510	9230	9420	6330	3090	1550	11760	8670	8850	5950	2900	1460
		W	1170	650	880	590	280	140	1100	610	830	550	270	130	1050	580	790	510	250	120
15	-9.4	Q(Btu/h)	13220	9750	9940	6680	3260	1640	12510	9230	9420	6330	3090	1550	11760	8670	8850	5950	2900	1460
		W	1170	650	880	590	280	140	1100	610	830	550	270	130	1050	580	790	510	250	120

* It may not reach the above capacities in low ambient temperatures.

MUZ-GX09NLHZ

2) HEATING

Rated
Q(Btu/h): 9600
W: 580

Indoor D.B.			78.8°F / 26.0°C						70°F / 21.1°C						59°F / 15.0°C					
Outdoor W.B.			Max.	Rated	75%	50%	25%	Min.	Max.	Rated	75%	50%	25%	Min.	Max.	Rated	75%	50%	25%	Min.
(°F)	(°C)																			
65	18.3	Q(Btu/h)	19860	11990	14890	9930	4960	1770	20670	12480	15500	10330	5160	1840	21480	12970	16110	10730	5360	1910
		W	1990	660	1490	990	500	180	1890	630	1410	940	470	170	1790	600	1330	890	440	160
60	15.6	Q(Btu/h)	18790	11340	14090	9390	4700	1680	19600	11830	14700	9800	4900	1750	20410	12320	15310	10210	5100	1820
		W	1980	650	1490	990	500	180	1880	620	1410	940	470	170	1780	590	1330	890	440	160
55	12.8	Q(Btu/h)	17690	10680	13270	8850	4420	1580	18520	11180	13890	9260	4630	1650	19350	11680	14510	9670	4840	1720
		W	1960	640	1470	990	500	180	1860	610	1400	940	470	170	1760	580	1330	890	440	160
50	10.0	Q(Btu/h)	16610	10030	12460	8310	4160	1480	17450	10540	13090	8730	4370	1560	18290	11050	13720	9150	4580	1640
		W	1930	630	1440	960	470	170	1830	600	1370	910	450	160	1730	570	1300	860	430	150
45	7.2	Q(Btu/h)	15530	9380	11650	7760	3880	1380	16380	9890	12280	8180	4090	1460	17230	10400	12910	8600	4300	1540
		W	1890	620	1400	940	470	170	1790	590	1330	890	450	160	1690	560	1260	840	430	150
43	6.1	Q(Btu/h)	15060	9090	11300	7540	3770	1340	15900	9600	11930	7960	3980	1420	16740	10110	12560	8380	4190	1500
		W	1840	610	1390	930	460	170	1750	580	1320	880	440	160	1660	550	1250	830	420	150
40	4.4	Q(Btu/h)	14160	8690	10630	7090	3540	1270	14990	9200	11250	7500	3750	1340	15820	9710	11870	7910	3960	1410
		W	1800	600	1350	900	440	160	1710	570	1280	850	420	150	1620	540	1210	800	400	140
35	1.7	Q(Btu/h)	13250	8000	9940	6630	3310	1190	14070	8500	10560	7040	3520	1260	14890	9000	11180	7450	3730	1330
		W	1750	580	1320	880	440	160	1660	550	1250	840	420	150	1570	520	1180	800	400	140
30	-1.1	Q(Btu/h)	12720	7360	9550	6370	3190	1130	13570	7850	10180	6790	3400	1210	14420	8340	10810	7210	3610	1290
		W	1750	620	1310	890	470	210	1660	590	1250	850	450	200	1570	560	1190	810	430	190
25	-3.9	Q(Btu/h)	12200	6720	9150	6100	3050	1090	13070	7200	9810	6540	3270	1170	13940	7680	10470	6980	3490	1250
		W	1670	590	1270	870	470	210	1590	560	1210	830	450	200	1510	530	1150	790	430	190
20	-6.7	Q(Btu/h)	11390	6070	8540	5690	2850	1020	12290	6550	9210	6140	3070	1100	13190	7030	9880	6590	3290	1180
		W	1610	540	1230	840	450	200	1530	520	1170	800	430	190	1450	500	1110	760	410	180
15	-9.4	Q(Btu/h)	10570	5420	7920	5280	2640	950	11500	5900	8620	5750	2870	1030	12430	6380	9320	6220	3100	1110
		W	1550	500	1170	800	430	200	1470	480	1110	760	410	190	1390	460	1050	720	390	180
10	-12.2	Q(Btu/h)	9570	4740	7170	4780	2390	850	10550	5230	7910	5270	2630	940	11530	5720	8650	5760	2870	1030
		W	1470	460	1120	780	420	190	1400	440	1070	740	400	180	1330	420	1020	700	380	170
5	-15.0	Q(Btu/h)	8550	4060	6420	4280	2150	770	9600	4560	7210	4810	2410	860	10650	5060	8000	5340	2670	950
		W	1400	410	1060	730	400	180	1330	390	1010	700	380	170	1260	370	960	670	360	160
0	-17.8	Q(Btu/h)	7720	3690	5790	3860	1940	690	8890	4250	6670	4450	2230	800	10060	4810	7550	5040	2520	910
		W	1350	530	1020	700	380	180	1280	510	970	670	360	170	1210	490	920	640	340	160
-4	-20.0	Q(Btu/h)	6910	3330	5180	3460	1730	620	8180	3940	6140	4100	2050	730	9450	4550	7100	4740	2370	840
		W	1290	650	990	680	370	170	1230	620	940	650	350	160	1170	590	890	620	330	150
-10	-23.3	Q(Btu/h)	5940	2860	4460	2970	1490	530	7450	3590	5590	3730	1870	670	8960	4320	6720	4490	2250	810
		W	1240	630	940	650	350	170	1180	600	900	620	340	160	1120	570	860	590	330	150
-13	-25.0	Q(Btu/h)	5160	2490	3870	2580	1290	460	6720	3240	5040	3360	1680	600	8280	3990	6210	4140	2070	740
		W	1190	610	900	620	340	170	1130	580	860	590	330	160	1070	550	820	560	320	150

* Above data is for heating operation without any frost.

MUZ-GX12NL MUY-GX12NL

1) COOLING

Rated
Q(Btu/h): 12000
W: 900

Indoor W.B.			71°F / 21.7°C						67°F / 19.4°C						63°F / 17.2°C					
Outdoor D.B.			Max.	Rated	75%	50%	25%	Min.	Max.	Rated	75%	50%	25%	Min.	Max.	Rated	75%	50%	25%	Min.
(°F)	(°C)																			
115	46.1	Q(Btu/h)	12640	11040	9480	6330	3160	1170	11970	10260	8980	5990	2990	1110	11250	9360	8440	5630	2810	1040
		W	1760	1040	1300	850	380	100	1650	1000	1220	800	370	100	1570	950	1170	770	340	90
110	43.3	Q(Btu/h)	13200	11520	9900	6600	3310	1220	12500	10710	9380	6250	3130	1160	11750	9810	8820	5870	2940	1090
		W	1720	1020	1280	830	370	100	1620	980	1200	780	360	100	1540	940	1150	750	330	90
105	40.6	Q(Btu/h)	13750	12000	10320	6880	3440	1270	13020	11160	9770	6510	3260	1210	12230	10260	9180	6120	3070	1140
		W	1680	990	1250	810	360	100	1580	950	1170	760	350	100	1500	920	1120	730	330	90
100	37.8	Q(Btu/h)	14270	12450	10710	7140	3570	1330	13510	11580	10140	6760	3380	1260	12690	10770	9530	6350	3180	1180
		W	1640	970	1210	790	350	100	1540	930	1140	740	340	100	1470	890	1090	720	320	90
95	35.0	Q(Btu/h)	14780	12900	11090	7400	3700	1370	14000	12000	10500	7000	3500	1300	13160	11280	9870	6580	3290	1220
		W	1590	950	1170	770	340	90	1490	900	1100	720	330	90	1420	860	1050	700	310	80
90	32.2	Q(Btu/h)	15380	13320	11530	7690	3850	1420	14560	12480	10920	7280	3640	1350	13680	11700	10270	6840	3420	1270
		W	1530	920	1130	750	330	90	1440	870	1060	700	320	90	1370	830	1010	680	300	80
85	29.4	Q(Btu/h)	15970	13740	11970	7990	3990	1470	15120	12960	11340	7560	3780	1400	14210	12120	10660	7100	3560	1320
		W	1470	880	1090	710	320	80	1380	830	1020	670	310	80	1310	800	980	650	290	70
80	26.7	Q(Btu/h)	16560	14220	12420	8280	4140	1540	15680	13440	11760	7840	3920	1460	14730	12600	11060	7370	3690	1370
		W	1400	840	1030	680	310	80	1320	800	970	640	300	80	1260	760	930	620	280	70
75	23.9	Q(Btu/h)	17150	14700	12860	8580	4290	1590	16240	13920	12180	8120	4060	1510	15260	13080	11450	7630	3820	1420
		W	1330	800	980	640	290	80	1250	760	920	600	280	80	1190	720	880	580	260	70
70	21.1	Q(Btu/h)	17740	15210	13300	8880	4440	1640	16800	14400	12600	8400	4200	1560	15790	13530	11840	7890	3950	1470
		W	1270	760	940	610	270	70	1190	720	880	570	260	70	1130	680	840	550	240	60
65	18.3	Q(Btu/h)	15150	12990	11360	7590	3800	1400	14350	12300	10760	7180	3590	1330	13490	11560	10110	6740	3380	1250
		W	1590	950	1200	800	390	140	1490	900	1120	750	380	140	1410	850	1070	720	350	120
60	15.6	Q(Btu/h)	15150	12990	11360	7590	3800	1400	14350	12300	10760	7180	3590	1330	13490	11560	10110	6740	3380	1250
		W	1590	950	1200	800	390	140	1490	900	1120	750	380	140	1410	850	1070	720	350	120
55	12.8	Q(Btu/h)	15150	12990	11360	7590	3800	1400	14350	12300	10760	7180	3590	1330	13490	11560	10110	6740	3380	1250
		W	1590	950	1200	800	390	140	1490	900	1120	750	380	140	1410	850	1070	720	350	120
50	10.0	Q(Btu/h)	15150	12990	11360	7590	3800	1400	14350	12300	10760	7180	3590	1330	13490	11560	10110	6740	3380	1250
		W	1590	950	1200	800	390	140	1490	900	1120	750	380	140	1410	850	1070	720	350	120
45	7.2	Q(Btu/h)	15150	12990	11360	7590	3800	1400	14350	12300	10760	7180	3590	1330	13490	11560	10110	6740	3380	1250
		W	1590	950	1200	800	390	140	1490	900	1120	750	380	140	1410	850	1070	720	350	120
40	4.4	Q(Btu/h)	15150	12990	11360	7590	3800	1400	14350	12300	10760	7180	3590	1330	13490	11560	10110	6740	3380	1250
		W	1590	950	1200	800	390	140	1490	900	1120	750	380	140	1410	850	1070	720	350	120
35	1.7	Q(Btu/h)	15150	12990	11360	7590	3800	1400	14350	12300	10760	7180	3590	1330	13490	11560	10110	6740	3380	1250
		W	1590	950	1200	800	390	140	1490	900	1120	750	380	140	1410	850	1070	720	350	120
30	-1.1	Q(Btu/h)	15150	12990	11360	7590	3800	1400	14350	12300	10760	7180	3590	1330	13490	11560	10110	6740	3380	1250
		W	1590	950	1200	800	390	140	1490	900	1120	750	380	140	1410	850	1070	720	350	120
25	-3.9	Q(Btu/h)	15150	12990	11360	7590	3800	1400	14350	12300	10760	7180	3590	1330	13490	11560	10110	6740	3380	1250
		W	1590	950	1200	800	390	140	1490	900	1120	750	380	140	1410	850	1070	720	350	120
20	-6.7	Q(Btu/h)	15150	12990	11360	7590	3800	1400	14350	12300	10760	7180	3590	1330	13490	11560	10110	6740	3380	1250
		W	1590	950	1200	800	390	140	1490	900	1120	750	380	140	1410	850	1070	720	350	120
15	-9.4	Q(Btu/h)	15150	12990	11360	7590	3800	1400	14350	12300	10760	7180	3590	1330	13490	11560	10110	6740	3380	1250
		W	1590	950	1200	800	390	140	1490	900	1120	750	380	140	1410	850	1070	720	350	120

* It may not reach the above capacities in low ambient temperatures.

MUZ-GX12NL

2) HEATING

Rated
Q(Btu/h): 14400
W: 1100

Indoor D.B.			78.8°F / 26.0°C						70°F / 21.1°C						59°F / 15.0°C					
Outdoor W.B.			Max.	Rated	75%	50%	25%	Min.	Max.	Rated	75%	50%	25%	Min.	Max.	Rated	75%	50%	25%	Min.
(°F)	(°C)																			
65	18.3	Q(Btu/h)	22610	17990	17060	11310	5750	1850	23530	18720	17750	11770	5980	1930	24450	19450	18440	12230	6210	2010
		W	2020	1250	1530	1010	520	170	1920	1190	1450	960	490	160	1820	1130	1370	910	460	150
60	15.6	Q(Btu/h)	21380	17010	16130	10700	5430	1750	22310	17750	16830	11160	5670	1830	23240	18490	17530	11620	5910	1910
		W	2010	1240	1520	1000	510	160	1910	1180	1440	950	480	150	1810	1120	1360	900	450	140
55	12.8	Q(Btu/h)	20150	16030	15200	10080	5120	1650	21090	16780	15910	10550	5360	1730	22030	17530	16620	11020	5600	1810
		W	1990	1230	1500	990	510	160	1890	1170	1420	940	480	150	1790	1110	1340	890	450	140
50	10.0	Q(Btu/h)	18910	15050	14270	9460	4810	1550	19870	15810	14990	9940	5050	1630	20830	16570	15710	10420	5290	1710
		W	1960	1210	1490	990	510	160	1860	1150	1410	940	480	150	1760	1090	1330	890	450	140
45	7.2	Q(Btu/h)	17680	14060	13330	8850	4490	1450	18640	14830	14060	9330	4740	1530	19600	15600	14790	9810	4990	1610
		W	1920	1180	1440	960	480	160	1820	1120	1370	910	460	150	1720	1060	1300	860	440	140
43	6.1	Q(Btu/h)	17140	13640	12930	8570	4360	1400	18100	14400	13650	9050	4600	1480	19060	15160	14370	9530	4840	1560
		W	1880	1160	1410	940	470	160	1780	1100	1340	890	450	150	1680	1040	1270	840	430	140
40	4.4	Q(Btu/h)	16120	13030	12150	8050	4090	1320	17060	13790	12860	8520	4330	1400	18000	14550	13570	8990	4570	1480
		W	1830	1150	1380	920	460	150	1740	1090	1310	870	440	140	1650	1030	1240	820	420	130
35	1.7	Q(Btu/h)	15080	11990	11360	7540	3830	1230	16020	12740	12070	8010	4070	1310	16960	13490	12780	8480	4310	1390
		W	1780	1110	1340	880	440	150	1690	1050	1270	840	420	140	1600	990	1200	800	400	130
30	-1.1	Q(Btu/h)	14160	11040	10680	7080	3590	1160	15100	11770	11390	7550	3830	1240	16040	12500	12100	8020	4070	1320
		W	1790	1050	1350	900	450	150	1700	1000	1280	850	430	140	1610	950	1210	800	410	130
25	-3.9	Q(Btu/h)	13230	10080	9970	6620	3370	1080	14180	10800	10690	7090	3610	1160	15130	11520	11410	7560	3850	1240
		W	1800	990	1360	900	450	150	1710	940	1290	850	430	140	1620	890	1220	800	410	130
20	-6.7	Q(Btu/h)	12140	9110	9150	6060	3080	990	13090	9830	9870	6540	3320	1070	14040	10550	10590	7020	3560	1150
		W	1780	920	1340	880	440	150	1690	870	1270	840	420	140	1600	820	1200	800	400	130
15	-9.4	Q(Btu/h)	11030	8140	8320	5510	2800	900	12000	8860	9050	6000	3050	980	12970	9580	9780	6490	3300	1060
		W	1760	830	1340	880	440	150	1670	790	1270	840	420	140	1580	750	1200	800	400	130
10	-12.2	Q(Btu/h)	9770	7120	7370	4880	2480	800	10770	7850	8120	5380	2730	880	11770	8580	8870	5880	2980	960
		W	1740	750	1320	870	440	150	1650	710	1250	830	420	140	1560	670	1180	790	400	130
5	-15.0	Q(Btu/h)	8500	6090	6400	4250	2160	690	9540	6840	7190	4770	2420	780	10580	7590	7980	5290	2680	870
		W	1720	650	1300	860	440	150	1630	620	1230	820	420	140	1540	590	1160	780	400	130
0	-17.8	Q(Btu/h)	7480	5270	5640	3740	1900	620	8620	6070	6500	4310	2190	710	9760	6870	7360	4880	2480	800
		W	1700	910	1270	840	420	140	1610	860	1210	800	400	130	1520	810	1150	760	380	120
-4	-20.0	Q(Btu/h)	6500	4480	4900	3240	1650	530	7700	5300	5800	3840	1950	630	8900	6120	6700	4440	2250	730
		W	1680	1150	1250	830	420	140	1590	1090	1190	790	400	130	1500	1030	1130	750	380	120

* Above data is for heating operation without any frost.

MUZ-GX12NLHZ

1) COOLING

Rated
Q(Btu/h): 12000
W: 900

Indoor W.B.			71°F / 21.7°C						67°F / 19.4°C						63°F / 17.2°C					
Outdoor D.B.			Max.	Rated	75%	50%	25%	Min.	Max.	Rated	75%	50%	25%	Min.	Max.	Rated	75%	50%	25%	Min.
(°F)	(°C)																			
115	46.1	Q(Btu/h)	12640	11040	9390	5950	2700	1170	11970	10260	8890	5630	2560	1110	11250	9360	8360	5290	2410	1040
		W	2260	1040	1680	1050	490	210	2130	1000	1590	1000	460	200	2040	950	1510	950	450	190
110	43.3	Q(Btu/h)	13200	11520	9800	6210	2820	1220	12500	10710	9280	5880	2670	1160	11750	9810	8730	5530	2510	1090
		W	2210	1020	1650	1030	480	210	2080	980	1560	980	450	200	1990	940	1480	930	440	190
105	40.6	Q(Btu/h)	13750	12000	10220	6480	2930	1270	13020	11160	9670	6130	2780	1210	12230	10260	9090	5760	2610	1140
		W	2160	990	1610	1000	460	200	2030	950	1520	950	430	190	1940	920	1440	900	420	180
100	37.8	Q(Btu/h)	14270	12450	10610	6720	3050	1330	13510	11580	10040	6360	2890	1260	12690	10770	9440	5980	2720	1180
		W	2090	970	1570	980	440	200	1970	930	1480	930	420	190	1880	890	1410	880	410	180
95	35.0	Q(Btu/h)	14780	12900	10990	6960	3150	1370	14000	12000	10400	6590	2990	1300	13160	11280	9780	6190	2810	1220
		W	2040	950	1510	950	430	190	1919	900	1430	900	410	180	1840	860	1360	850	400	170
90	32.2	Q(Btu/h)	15380	13320	11430	7250	3280	1420	14560	12480	10820	6860	3110	1350	13680	11700	10170	6450	2920	1270
		W	1960	920	1460	920	420	190	1850	870	1380	870	400	180	1770	830	1310	820	390	170
85	29.4	Q(Btu/h)	15970	13740	11860	7520	3410	1470	15120	12960	11230	7120	3230	1400	14210	12120	10560	6690	3030	1320
		W	1890	880	1400	870	400	180	1780	830	1320	830	380	170	1700	800	1250	790	370	160
80	26.7	Q(Btu/h)	16560	14220	12310	7800	3530	1540	15680	13440	11650	7380	3350	1460	14730	12600	10950	6940	3150	1370
		W	1810	840	1330	840	380	170	1700	800	1260	800	360	160	1630	760	1200	760	350	150
75	23.9	Q(Btu/h)	17150	14700	12740	8070	3660	1590	16240	13920	12060	7640	3470	1510	15260	13080	11340	7180	3260	1420
		W	1710	800	1270	800	360	160	1610	760	1200	760	340	150	1540	720	1140	720	330	140
70	21.1	Q(Btu/h)	17740	15210	13180	8360	3790	1640	16800	14400	12480	7910	3590	1560	15790	13530	11730	7430	3370	1470
		W	1630	760	1210	760	350	150	1530	720	1140	720	330	140	1460	680	1080	680	320	130
65	18.3	Q(Btu/h)	15150	12990	11480	7590	3900	2160	14350	12300	10870	7180	3690	2050	13490	11560	10220	6740	3460	1930
		W	1950	910	1480	980	510	290	1830	860	1390	930	480	270	1750	810	1320	880	470	250
60	15.6	Q(Btu/h)	15150	12990	11480	7590	3900	2160	14350	12300	10870	7180	3690	2050	13490	11560	10220	6740	3460	1930
		W	1950	910	1480	980	510	290	1830	860	1390	930	480	270	1750	810	1320	880	470	250
55	12.8	Q(Btu/h)	15150	12990	11480	7590	3900	2160	14350	12300	10870	7180	3690	2050	13490	11560	10220	6740	3460	1930
		W	1950	910	1480	980	510	290	1830	860	1390	930	480	270	1750	810	1320	880	470	250
50	10.0	Q(Btu/h)	15150	12990	11480	7590	3900	2160	14350	12300	10870	7180	3690	2050	13490	11560	10220	6740	3460	1930
		W	1950	910	1480	980	510	290	1830	860	1390	930	480	270	1750	810	1320	880	470	250
45	7.2	Q(Btu/h)	15150	12990	11480	7590	3900	2160	14350	12300	10870	7180	3690	2050	13490	11560	10220	6740	3460	1930
		W	1950	910	1480	980	510	290	1830	860	1390	930	480	270	1750	810	1320	880	470	250
40	4.4	Q(Btu/h)	15150	12990	11480	7590	3900	2160	14350	12300	10870	7180	3690	2050	13490	11560	10220	6740	3460	1930
		W	1950	910	1480	980	510	290	1830	860	1390	930	480	270	1750	810	1320	880	470	250
35	1.7	Q(Btu/h)	15150	12990	11480	7590	3900	2160	14350	12300	10870	7180	3690	2050	13490	11560	10220	6740	3460	1930
		W	1950	910	1480	980	510	290	1830	860	1390	930	480	270	1750	810	1320	880	470	250
30	-1.1	Q(Btu/h)	15150	12990	11480	7590	3900	2160	14350	12300	10870	7180	3690	2050	13490	11560	10220	6740	3460	1930
		W	1950	910	1480	980	510	290	1830	860	1390	930	480	270	1750	810	1320	880	470	250
25	-3.9	Q(Btu/h)	15150	12990	11480	7590	3900	2160	14350	12300	10870	7180	3690	2050	13490	11560	10220	6740	3460	1930
		W	1950	910	1480	980	510	290	1830	860	1390	930	480	270	1750	810	1320	880	470	250
20	-6.7	Q(Btu/h)	15150	12990	11480	7590	3900	2160	14350	12300	10870	7180	3690	2050	13490	11560	10220	6740	3460	1930
		W	1950	910	1480	980	510	290	1830	860	1390	930	480	270	1750	810	1320	880	470	250
15	-9.4	Q(Btu/h)	15150	12990	11480	7590	3900	2160	14350	12300	10870	7180	3690	2050	13490	11560	10220	6740	3460	1930
		W	1950	910	1480	980	510	290	1830	860	1390	930	480	270	1750	810	1320	880	470	250

* It may not reach the above capacities in low ambient temperatures.

MUZ-GX12NLHZ

2) HEATING

Rated
Q(Btu/h): 12300
W: 920

Indoor D.B.			78.8°F / 26.0°C						70°F / 21.1°C						59°F / 15.0°C					
Outdoor W.B.			Max.	Rated	75%	50%	25%	Min.	Max.	Rated	75%	50%	25%	Min.	Max.	Rated	75%	50%	25%	Min.
(°F)	(°C)																			
65	18.3	Q(Btu/h)	23860	15360	17900	11930	5970	3300	24830	15990	18630	12420	6210	3430	25800	16620	19360	12910	6450	3560
		W	2840	1040	2130	1420	710	390	2700	990	2020	1350	670	370	2560	940	1910	1280	630	350
60	15.6	Q(Btu/h)	22560	14530	16920	11280	5640	3110	23540	15160	17650	11770	5880	3240	24520	15790	18380	12260	6120	3370
		W	2820	1040	2120	1410	710	390	2680	990	2010	1340	670	370	2540	940	1900	1270	630	350
55	12.8	Q(Btu/h)	21260	13690	15940	10630	5320	2930	22250	14330	16690	11130	5570	3070	23240	14970	17440	11630	5820	3210
		W	2790	1030	2100	1400	700	380	2650	980	1990	1330	660	360	2510	930	1880	1260	620	340
50	10.0	Q(Btu/h)	19950	12850	14960	9980	4990	2750	20960	13500	15720	10480	5240	2890	21970	14150	16480	10980	5490	3030
		W	2740	1010	2050	1370	680	380	2600	960	1950	1300	650	360	2460	910	1850	1230	620	340
45	7.2	Q(Btu/h)	18650	12010	13990	9330	4670	2570	19670	12670	14750	9840	4920	2710	20690	13330	15510	10350	5170	2850
		W	2690	990	2020	1350	670	370	2550	940	1920	1280	640	350	2410	890	1820	1210	610	330
43	6.1	Q(Btu/h)	18090	11650	13560	9040	4520	2490	19100	12300	14320	9550	4770	2630	20110	12950	15080	10060	5020	2770
		W	2630	970	1970	1310	650	360	2500	920	1870	1240	620	340	2370	870	1770	1170	590	320
40	4.4	Q(Btu/h)	17010	11130	12760	8500	4250	2340	18000	11780	13500	9000	4500	2480	18990	12430	14240	9500	4750	2620
		W	2570	960	1930	1290	640	360	2440	910	1830	1220	610	340	2310	860	1730	1150	580	320
35	1.7	Q(Btu/h)	15910	10250	11940	7950	3970	2190	16900	10890	12680	8450	4220	2330	17890	11530	13420	8950	4470	2470
		W	2510	920	1880	1240	620	350	2380	870	1780	1180	590	330	2250	820	1680	1120	560	310
30	-1.1	Q(Btu/h)	15950	9430	11960	7980	3990	2200	17010	10060	12760	8510	4260	2350	18070	10690	13560	9040	4530	2500
		W	2640	930	2000	1360	710	420	2510	890	1900	1290	680	400	2380	850	1800	1220	650	380
25	-3.9	Q(Btu/h)	15970	8610	11970	7980	3980	2200	17110	9230	12830	8550	4270	2360	18250	9850	13690	9120	4560	2520
		W	2710	890	2050	1390	720	430	2580	850	1950	1320	690	410	2450	810	1850	1250	660	390
20	-6.7	Q(Btu/h)	15350	7790	11510	7680	3840	2110	16560	8400	12420	8280	4140	2280	17770	9010	13330	8880	4440	2450
		W	2730	830	2060	1400	730	430	2590	790	1960	1330	700	410	2450	750	1860	1260	670	390
15	-9.4	Q(Btu/h)	14700	6950	11020	7350	3680	2030	16000	7560	11990	8000	4000	2210	17300	8170	12960	8650	4320	2390
		W	2730	760	2060	1400	730	430	2590	720	1960	1330	700	410	2450	680	1860	1260	670	390
10	-12.2	Q(Btu/h)	12830	6080	9630	6420	3210	1770	14150	6700	10620	7080	3540	1950	15470	7320	11610	7740	3870	2130
		W	2740	680	2070	1410	730	430	2600	650	1970	1340	700	410	2460	620	1870	1270	670	390
5	-15.0	Q(Btu/h)	10950	5200	8210	5480	2740	1510	12300	5840	9220	6150	3080	1700	13650	6480	10230	6820	3420	1890
		W	2740	610	2070	1410	730	430	2600	580	1970	1340	700	410	2460	550	1870	1270	670	390
0	-17.8	Q(Btu/h)	9480	4180	7110	4740	2370	1310	10920	4810	8190	5460	2730	1510	12360	5440	9270	6180	3090	1710
		W	2750	870	2080	1410	730	430	2610	830	1980	1340	700	410	2470	790	1880	1270	670	390
-4	-20.0	Q(Btu/h)	8060	3190	6050	4030	2010	1110	9540	3780	7160	4770	2380	1310	11020	4370	8270	5510	2750	1510
		W	2750	1120	2080	1410	730	430	2610	1070	1980	1340	700	410	2470	1020	1880	1270	670	390
-10	-23.3	Q(Btu/h)	6510	2580	4890	3250	1630	900	8160	3240	6130	4080	2040	1130	9810	3900	7370	4910	2450	1360
		W	2760	1130	2090	1410	730	430	2620	1080	1990	1340	700	410	2480	1030	1890	1270	670	390
-13	-25.0	Q(Btu/h)	5210	2070	3910	2610	1310	720	6780	2690	5090	3400	1700	940	8350	3310	6270	4190	2090	1160
		W	2760	1130	2090	1410	730	430	2620	1080	1990	1340	700	410	2480	1030	1890	1270	670	390

* Above data is for heating operation without any frost.

MUZ-GX15NL MUY-GX15NL

1) COOLING

Rated
Q(Btu/h): 14000
W: 1075

Indoor W.B.			71°F / 21.7°C						67°F / 19.4°C						63°F / 17.2°C					
Outdoor D.B.			Max.	Rated	75%	50%	25%	Min.	Max.	Rated	75%	50%	25%	Min.	Max.	Rated	75%	50%	25%	Min.
(°F)	(°C)																			
115	46.1	Q(Btu/h)	16440	12880	12530	8630	4730	2520	15560	11970	11870	8170	4480	2390	14620	10920	11150	7680	4210	2240
		W	2590	1240	1930	1260	600	220	2440	1190	1820	1190	570	210	2320	1140	1730	1140	540	200
110	43.3	Q(Btu/h)	17170	13440	13080	9010	4940	2640	16250	12500	12390	8530	4680	2500	15270	11450	11640	8010	4400	2350
		W	2530	1220	1880	1220	590	220	2390	1170	1780	1160	560	210	2270	1120	1690	1110	530	200
105	40.6	Q(Btu/h)	17880	14000	13630	9390	5140	2740	16930	13020	12910	8890	4870	2600	15910	11970	12130	8350	4570	2440
		W	2470	1190	1840	1190	570	210	2330	1140	1740	1130	540	200	2220	1100	1650	1080	510	190
100	37.8	Q(Btu/h)	18560	14530	14150	9750	5340	2850	17570	13510	13400	9230	5060	2700	16510	12570	12590	8670	4750	2530
		W	2400	1160	1790	1160	550	210	2270	1110	1690	1100	530	200	2160	1070	1600	1050	510	190
95	35.0	Q(Btu/h)	19230	15050	14660	10090	5530	2960	18200	14000	13880	9560	5240	2800	17110	13160	13040	8980	4920	2630
		W	2330	1130	1740	1130	530	200	2200	1075	1640	1070	510	190	2090	1030	1560	1020	490	180
90	32.2	Q(Btu/h)	20000	15540	15250	10500	5750	3070	18930	14560	14440	9940	5450	2910	17790	13650	13570	9340	5120	2730
		W	2250	1090	1670	1090	510	200	2120	1030	1580	1030	490	190	2020	990	1500	980	470	180
85	29.4	Q(Btu/h)	20770	16030	15830	10900	5980	3190	19660	15120	14990	10320	5660	3020	18480	14140	14090	9700	5320	2830
		W	2160	1050	1610	1050	490	190	2040	990	1520	990	470	180	1940	950	1440	950	450	170
80	26.7	Q(Btu/h)	21540	16590	16420	11310	6200	3310	20390	15680	15550	10710	5870	3140	19160	14700	14610	10060	5510	2950
		W	2070	1010	1530	1000	470	180	1950	950	1450	950	450	170	1860	910	1380	910	430	160
75	23.9	Q(Btu/h)	22300	17150	17000	11710	6420	3430	21110	16240	16100	11090	6080	3250	19840	15260	15130	10420	5710	3050
		W	1960	960	1460	950	450	170	1850	900	1380	900	430	160	1760	860	1310	860	410	150
70	21.1	Q(Btu/h)	23070	17740	17590	12110	6640	3550	21840	16800	16660	11470	6290	3360	20530	15790	15660	10780	5910	3150
		W	1850	920	1390	900	430	160	1750	860	1310	850	410	150	1660	820	1240	810	390	140
65	18.3	Q(Btu/h)	19710	15150	14770	9850	4930	2140	18660	14350	13990	9330	4670	2030	17540	13490	13150	8770	4390	1900
		W	2520	1240	1900	1270	630	280	2380	1160	1790	1200	600	260	2260	1110	1690	1140	570	240
60	15.6	Q(Btu/h)	19710	15150	14770	9850	4930	2140	18660	14350	13990	9330	4670	2030	17540	13490	13150	8770	4390	1900
		W	2520	1240	1900	1270	630	280	2380	1160	1790	1200	600	260	2260	1110	1690	1140	570	240
55	12.8	Q(Btu/h)	19710	15150	14770	9850	4930	2140	18660	14350	13990	9330	4670	2030	17540	13490	13150	8770	4390	1900
		W	2520	1240	1900	1270	630	280	2380	1160	1790	1200	600	260	2260	1110	1690	1140	570	240
50	10.0	Q(Btu/h)	19710	15150	14770	9850	4930	2140	18660	14350	13990	9330	4670	2030	17540	13490	13150	8770	4390	1900
		W	2520	1240	1900	1270	630	280	2380	1160	1790	1200	600	260	2260	1110	1690	1140	570	240
45	7.2	Q(Btu/h)	19710	15150	14770	9850	4930	2140	18660	14350	13990	9330	4670	2030	17540	13490	13150	8770	4390	1900
		W	2520	1240	1900	1270	630	280	2380	1160	1790	1200	600	260	2260	1110	1690	1140	570	240
40	4.4	Q(Btu/h)	19710	15150	14770	9850	4930	2140	18660	14350	13990	9330	4670	2030	17540	13490	13150	8770	4390	1900
		W	2520	1240	1900	1270	630	280	2380	1160	1790	1200	600	260	2260	1110	1690	1140	570	240
35	1.7	Q(Btu/h)	19710	15150	14770	9850	4930	2140	18660	14350	13990	9330	4670	2030	17540	13490	13150	8770	4390	1900
		W	2520	1240	1900	1270	630	280	2380	1160	1790	1200	600	260	2260	1110	1690	1140	570	240
30	-1.1	Q(Btu/h)	19710	15150	14770	9850	4930	2140	18660	14350	13990	9330	4670	2030	17540	13490	13150	8770	4390	1900
		W	2520	1240	1900	1270	630	280	2380	1160	1790	1200	600	260	2260	1110	1690	1140	570	240
25	-3.9	Q(Btu/h)	19710	15150	14770	9850	4930	2140	18660	14350	13990	9330	4670	2030	17540	13490	13150	8770	4390	1900
		W	2520	1240	1900	1270	630	280	2380	1160	1790	1200	600	260	2260	1110	1690	1140	570	240
20	-6.7	Q(Btu/h)	19710	15150	14770	9850	4930	2140	18660	14350	13990	9330	4670	2030	17540	13490	13150	8770	4390	1900
		W	2520	1240	1900	1270	630	280	2380	1160	1790	1200	600	260	2260	1110	1690	1140	570	240
15	-9.4	Q(Btu/h)	19710	15150	14770	9850	4930	2140	18660	14350	13990	9330	4670	2030	17540	13490	13150	8770	4390	1900
		W	2520	1240	1900	1270	630	280	2380	1160	1790	1200	600	260	2260	1110	1690	1140	570	240

* It may not reach the above capacities in low ambient temperatures.

MUZ-GX15NL

2) HEATING

Rated
Q(Btu/h): 18000
W: 1600

Indoor D.B.			78.8°F / 26.0°C						70°F / 21.1°C						59°F / 15.0°C					
Outdoor W.B.			Max.	Rated	75%	50%	25%	Min.	Max.	Rated	75%	50%	25%	Min.	Max.	Rated	75%	50%	25%	Min.
(°F)	(°C)																			
65	18.3	Q(Btu/h)	26230	22480	19680	13120	6560	3620	27300	23400	20480	13650	6830	3770	28370	24320	21280	14180	7100	3920
		W	2860	1820	2140	1420	710	390	2710	1730	2030	1350	670	370	2570	1640	1920	1280	630	350
60	15.6	Q(Btu/h)	24820	21270	18610	12410	6200	3420	25890	22190	19420	12950	6470	3570	26960	23110	20230	13490	6740	3720
		W	2830	1810	2130	1420	710	390	2690	1720	2020	1350	670	370	2550	1630	1910	1280	630	350
55	12.8	Q(Btu/h)	23380	20030	17530	11680	5850	3230	24470	20970	18350	12230	6120	3380	25560	21910	19170	12780	6390	3530
		W	2800	1790	2100	1400	700	380	2660	1700	1990	1330	660	360	2520	1610	1880	1260	620	340
50	10.0	Q(Btu/h)	21940	18810	16460	10970	5480	3030	23050	19760	17290	11530	5760	3180	24160	20710	18120	12090	6040	3330
		W	2750	1760	2060	1380	700	380	2610	1670	1960	1310	660	360	2470	1580	1860	1240	620	340
45	7.2	Q(Btu/h)	20510	17580	15380	10250	5120	2830	21630	18540	16220	10810	5400	2980	22750	19500	17060	11370	5680	3130
		W	2700	1720	2030	1350	670	370	2560	1630	1930	1280	640	350	2420	1540	1830	1210	610	330
43	6.1	Q(Btu/h)	19890	17040	14910	9940	4970	2750	21000	18000	15750	10500	5250	2900	22110	18960	16590	11060	5530	3050
		W	2640	1690	1980	1320	650	360	2510	1600	1880	1250	620	340	2380	1510	1780	1180	590	320
40	4.4	Q(Btu/h)	18710	16290	14030	9350	4680	2580	19800	17240	14850	9900	4950	2730	20890	18190	15670	10450	5220	2880
		W	2580	1660	1940	1300	650	360	2450	1580	1840	1230	620	340	2320	1500	1740	1160	590	320
35	1.7	Q(Btu/h)	17500	15000	13130	8750	4380	2420	18590	15930	13950	9300	4650	2570	19680	16860	14770	9850	4920	2720
		W	2510	1600	1880	1240	620	350	2380	1520	1780	1180	590	330	2250	1440	1680	1120	560	310
30	-1.1	Q(Btu/h)	17180	13800	12870	8590	4290	2370	18320	14720	13730	9160	4580	2530	19460	15640	14590	9730	4870	2690
		W	2570	1530	1930	1290	640	360	2440	1450	1830	1220	610	340	2310	1370	1730	1150	580	320
25	-3.9	Q(Btu/h)	16830	12600	12620	8420	4210	2320	18040	13500	13530	9020	4510	2490	19250	14400	14440	9620	4810	2660
		W	2630	1440	1970	1310	650	360	2500	1370	1870	1240	620	340	2370	1300	1770	1170	590	320
20	-6.7	Q(Btu/h)	15970	11390	11980	7990	4000	2210	17220	12290	12920	8620	4310	2380	18470	13190	13860	9250	4620	2550
		W	2630	1330	1970	1310	650	360	2500	1260	1870	1240	620	340	2370	1190	1770	1170	590	320
15	-9.4	Q(Btu/h)	15070	10170	11300	7530	3770	2080	16400	11070	12300	8200	4100	2260	17730	11970	13300	8870	4430	2440
		W	2630	1210	1970	1310	650	360	2500	1150	1870	1240	620	340	2370	1090	1770	1170	590	320
10	-12.2	Q(Btu/h)	14030	8900	10520	7010	3500	1930	15470	9810	11600	7730	3860	2130	16910	10720	12680	8450	4220	2330
		W	2630	1090	1970	1310	650	360	2500	1030	1870	1240	620	340	2370	970	1770	1170	590	320
5	-15.0	Q(Btu/h)	12950	7610	9720	6470	3240	1790	14540	8550	10910	7270	3640	2010	16130	9490	12100	8070	4040	2230
		W	2630	950	1970	1310	650	360	2500	900	1870	1240	620	340	2370	850	1770	1170	590	320
0	-17.8	Q(Btu/h)	12020	7160	9020	6020	3010	1660	13850	8250	10390	6930	3470	1910	15680	9340	11760	7840	3930	2160
		W	2630	1260	1970	1310	650	360	2500	1200	1870	1240	620	340	2370	1140	1770	1170	590	320
-4	-20.0	Q(Btu/h)	11110	6700	8330	5560	2780	1540	13160	7940	9870	6580	3290	1820	15210	9180	11410	7600	3800	2100
		W	2620	1580	1960	1310	650	360	2490	1500	1860	1240	620	340	2360	1420	1760	1170	590	320

* Above data is for heating operation without any frost.

MUZ-GX15NLHZ

1) COOLING

Rated
Q(Btu/h): 14000
W: 1075

Indoor W.B.			71°F / 21.7°C						67°F / 19.4°C						63°F / 17.2°C					
Outdoor D.B.			Max.	Rated	75%	50%	25%	Min.	Max.	Rated	75%	50%	25%	Min.	Max.	Rated	75%	50%	25%	Min.
(°F)	(°C)																			
115	46.1	Q(Btu/h)	16440	12880	12530	8630	4730	2520	15560	11970	11870	8170	4480	2390	14620	10920	11150	7680	4210	2240
		W	2590	1240	1930	1260	600	220	2440	1190	1820	1190	570	210	2320	1140	1730	1140	540	200
110	43.3	Q(Btu/h)	17170	13440	13080	9010	4940	2640	16250	12500	12390	8530	4680	2500	15270	11450	11640	8010	4400	2350
		W	2530	1220	1880	1220	590	220	2390	1170	1780	1160	560	210	2270	1120	1690	1110	530	200
105	40.6	Q(Btu/h)	17880	14000	13630	9390	5140	2740	16930	13020	12910	8890	4870	2600	15910	11970	12130	8350	4570	2440
		W	2470	1190	1840	1190	570	210	2330	1140	1740	1130	540	200	2220	1100	1650	1080	510	190
100	37.8	Q(Btu/h)	18560	14530	14150	9750	5340	2850	17570	13510	13400	9230	5060	2700	16510	12570	12590	8670	4750	2530
		W	2400	1160	1790	1160	550	210	2270	1110	1690	1100	530	200	2160	1070	1600	1050	510	190
95	35.0	Q(Btu/h)	19230	15050	14660	10090	5530	2960	18200	14000	13880	9560	5240	2800	17110	13160	13040	8980	4920	2630
		W	2330	1130	1740	1130	530	200	2200	1075	1640	1070	510	190	2090	1030	1560	1020	490	180
90	32.2	Q(Btu/h)	20000	15540	15250	10500	5750	3070	18930	14560	14440	9940	5450	2910	17790	13650	13570	9340	5120	2730
		W	2250	1090	1670	1090	510	200	2120	1030	1580	1030	490	190	2020	990	1500	980	470	180
85	29.4	Q(Btu/h)	20770	16030	15830	10900	5980	3190	19660	15120	14990	10320	5660	3020	18480	14140	14090	9700	5320	2830
		W	2160	1050	1610	1050	490	190	2040	990	1520	990	470	180	1940	950	1440	950	450	170
80	26.7	Q(Btu/h)	21540	16590	16420	11310	6200	3310	20390	15680	15550	10710	5870	3140	19160	14700	14610	10060	5510	2950
		W	2070	1010	1530	1000	470	180	1950	950	1450	950	450	170	1860	910	1380	910	430	160
75	23.9	Q(Btu/h)	22300	17150	17000	11710	6420	3430	21110	16240	16100	11090	6080	3250	19840	15260	15130	10420	5710	3050
		W	1960	960	1460	950	450	170	1850	900	1380	900	430	160	1760	860	1310	860	410	150
70	21.1	Q(Btu/h)	23070	17740	17590	12110	6640	3550	21840	16800	16660	11470	6290	3360	20530	15790	15660	10780	5910	3150
		W	1850	920	1390	900	430	160	1750	860	1310	850	410	150	1660	820	1240	810	390	140
65	18.3	Q(Btu/h)	19710	15150	14770	9850	4930	2140	18660	14350	13990	9330	4670	2030	17540	13490	13150	8770	4390	1900
		W	2520	1240	1900	1270	630	280	2380	1160	1790	1200	600	260	2260	1110	1690	1140	570	240
60	15.6	Q(Btu/h)	19710	15150	14770	9850	4930	2140	18660	14350	13990	9330	4670	2030	17540	13490	13150	8770	4390	1900
		W	2520	1240	1900	1270	630	280	2380	1160	1790	1200	600	260	2260	1110	1690	1140	570	240
55	12.8	Q(Btu/h)	19710	15150	14770	9850	4930	2140	18660	14350	13990	9330	4670	2030	17540	13490	13150	8770	4390	1900
		W	2520	1240	1900	1270	630	280	2380	1160	1790	1200	600	260	2260	1110	1690	1140	570	240
50	10.0	Q(Btu/h)	19710	15150	14770	9850	4930	2140	18660	14350	13990	9330	4670	2030	17540	13490	13150	8770	4390	1900
		W	2520	1240	1900	1270	630	280	2380	1160	1790	1200	600	260	2260	1110	1690	1140	570	240
45	7.2	Q(Btu/h)	19710	15150	14770	9850	4930	2140	18660	14350	13990	9330	4670	2030	17540	13490	13150	8770	4390	1900
		W	2520	1240	1900	1270	630	280	2380	1160	1790	1200	600	260	2260	1110	1690	1140	570	240
40	4.4	Q(Btu/h)	19710	15150	14770	9850	4930	2140	18660	14350	13990	9330	4670	2030	17540	13490	13150	8770	4390	1900
		W	2520	1240	1900	1270	630	280	2380	1160	1790	1200	600	260	2260	1110	1690	1140	570	240
35	1.7	Q(Btu/h)	19710	15150	14770	9850	4930	2140	18660	14350	13990	9330	4670	2030	17540	13490	13150	8770	4390	1900
		W	2520	1240	1900	1270	630	280	2380	1160	1790	1200	600	260	2260	1110	1690	1140	570	240
30	-1.1	Q(Btu/h)	19710	15150	14770	9850	4930	2140	18660	14350	13990	9330	4670	2030	17540	13490	13150	8770	4390	1900
		W	2520	1240	1900	1270	630	280	2380	1160	1790	1200	600	260	2260	1110	1690	1140	570	240
25	-3.9	Q(Btu/h)	19710	15150	14770	9850	4930	2140	18660	14350	13990	9330	4670	2030	17540	13490	13150	8770	4390	1900
		W	2520	1240	1900	1270	630	280	2380	1160	1790	1200	600	260	2260	1110	1690	1140	570	240
20	-6.7	Q(Btu/h)	19710	15150	14770	9850	4930	2140	18660	14350	13990	9330	4670	2030	17540	13490	13150	8770	4390	1900
		W	2520	1240	1900	1270	630	280	2380	1160	1790	1200	600	260	2260	1110	1690	1140	570	240
15	-9.4	Q(Btu/h)	19710	15150	14770	9850	4930	2140	18660	14350	13990	9330	4670	2030	17540	13490	13150	8770	4390	1900
		W	2520	1240	1900	1270	630	280	2380	1160	1790	1200	600	260	2260	1110	1690	1140	570	240

* It may not reach the above capacities in low ambient temperatures.

MUZ-GX15NLHZ

2) HEATING

Rated
Q(Btu/h): 14000
W: 1100

Indoor D.B.			78.8°F / 26.0°C						70°F / 21.1°C						59°F / 15.0°C					
Outdoor W.B.			Max.	Rated	75%	50%	25%	Min.	Max.	Rated	75%	50%	25%	Min.	Max.	Rated	75%	50%	25%	Min.
(°F)	(°C)																			
65	18.3	Q(Btu/h)	26230	17490	19680	13120	6560	3620	27300	18200	20480	13650	6830	3770	28370	18910	21280	14180	7100	3920
		W	2860	1250	2140	1420	710	390	2710	1190	2030	1350	670	370	2570	1130	1920	1280	630	350
60	15.6	Q(Btu/h)	24820	16540	18610	12410	6200	3420	25890	17260	19420	12950	6470	3570	26960	17980	20230	13490	6740	3720
		W	2830	1240	2130	1420	710	390	2690	1180	2020	1350	670	370	2550	1120	1910	1280	630	350
55	12.8	Q(Btu/h)	23380	15580	17530	11680	5850	3230	24470	16310	18350	12230	6120	3380	25560	17040	19170	12780	6390	3530
		W	2800	1230	2100	1400	700	380	2660	1170	1990	1330	660	360	2520	1110	1880	1260	620	340
50	10.0	Q(Btu/h)	21940	14630	16460	10970	5480	3030	23050	15370	17290	11530	5760	3180	24160	16110	18120	12090	6040	3330
		W	2750	1210	2060	1380	700	380	2610	1150	1960	1310	660	360	2470	1090	1860	1240	620	340
45	7.2	Q(Btu/h)	20510	13670	15380	10250	5120	2830	21630	14420	16220	10810	5400	2980	22750	15170	17060	11370	5680	3130
		W	2700	1180	2030	1350	670	370	2560	1120	1930	1280	640	350	2420	1060	1830	1210	610	330
43	6.1	Q(Btu/h)	19890	13260	14910	9940	4970	2750	21000	14000	15750	10500	5250	2900	22110	14740	16590	11060	5530	3050
		W	2640	1160	1980	1320	650	360	2510	1100	1880	1250	620	340	2380	1040	1780	1180	590	320
40	4.4	Q(Btu/h)	18710	12670	14030	9350	4680	2580	19800	13410	14850	9900	4950	2730	20890	14150	15670	10450	5220	2880
		W	2580	1150	1940	1300	650	360	2450	1090	1840	1230	620	340	2320	1030	1740	1160	590	320
35	1.7	Q(Btu/h)	17500	11660	13130	8750	4380	2420	18590	12390	13950	9300	4650	2570	19680	13120	14770	9850	4920	2720
		W	2510	1110	1880	1240	620	350	2380	1050	1780	1180	590	330	2250	990	1680	1120	560	310
30	-1.1	Q(Btu/h)	17300	10740	12980	8650	4320	2380	18450	11450	13840	9230	4610	2540	19600	12160	14700	9810	4900	2700
		W	2630	1110	1990	1350	700	420	2500	1060	1890	1280	670	400	2370	1010	1790	1210	640	380
25	-3.9	Q(Btu/h)	17080	9800	12800	8540	4270	2360	18300	10500	13720	9150	4580	2530	19520	11200	14640	9760	4890	2700
		W	2690	1050	2030	1370	710	420	2560	1000	1930	1300	680	400	2430	950	1830	1230	650	380
20	-6.7	Q(Btu/h)	16270	8860	12200	8130	4070	2240	17550	9560	13160	8770	4390	2420	18830	10260	14120	9410	4710	2600
		W	2690	980	2030	1370	710	420	2560	930	1930	1300	680	400	2430	880	1830	1230	650	380
15	-9.4	Q(Btu/h)	15440	7910	11580	7720	3860	2130	16800	8610	12600	8400	4200	2320	18160	9310	13620	9080	4540	2510
		W	2690	890	2030	1370	710	420	2560	850	1930	1300	680	400	2430	810	1830	1230	650	380
10	-12.2	Q(Btu/h)	13970	6920	10480	6980	3490	1920	15400	7630	11550	7700	3850	2120	16830	8340	12620	8420	4210	2320
		W	2690	810	2030	1370	710	420	2560	770	1930	1300	680	400	2430	730	1830	1230	650	380
5	-15.0	Q(Btu/h)	12470	5920	9350	6230	3120	1720	14000	6650	10500	7000	3500	1930	15530	7380	11650	7770	3880	2140
		W	2690	710	2030	1370	710	420	2560	680	1930	1300	680	400	2430	650	1830	1230	650	380
0	-17.8	Q(Btu/h)	11250	5230	8440	5620	2810	1550	12960	6020	9720	6480	3240	1790	14670	6810	11000	7340	3670	2030
		W	2690	990	2030	1370	710	420	2560	940	1930	1300	680	400	2430	890	1830	1230	650	380
-4	-20.0	Q(Btu/h)	10060	4550	7540	5030	2520	1380	11910	5390	8930	5960	2980	1640	13760	6230	10320	6890	3440	1900
		W	2680	1250	2020	1370	710	420	2550	1190	1920	1300	680	400	2420	1130	1820	1230	650	380
-10	-23.3	Q(Btu/h)	8670	3920	6510	4340	2170	1200	10870	4920	8160	5440	2720	1500	13070	5920	9810	6540	3270	1800
		W	2680	1250	2020	1370	710	420	2550	1190	1920	1300	680	400	2420	1130	1820	1230	650	380
-13	-25.0	Q(Btu/h)	7540	3410	5650	3770	1880	1040	9820	4440	7360	4910	2450	1350	12100	5470	9070	6050	3020	1660
		W	2680	1250	2020	1370	710	420	2550	1190	1920	1300	680	400	2420	1130	1820	1230	650	380

* Above data is for heating operation without any frost.

MUZ-GX18NL MUY-GX18NL

Rated
Q(Btu/h): 18000
W: 1280

1) COOLING

Indoor W.B.			71°F / 21.7°C						67°F / 19.4°C						63°F / 17.2°C					
Outdoor D.B.			Max.	Rated	75%	50%	25%	Min.	Max.	Rated	75%	50%	25%	Min.	Max.	Rated	75%	50%	25%	Min.
(°F)	(°C)																			
115	46.1	Q(Btu/h)	19860	16560	14890	9910	4700	4700	18810	15390	14100	9390	4450	4450	17670	14040	13250	8820	4180	4180
		W	2520	1470	1840	1120	390	390	2390	1420	1730	1070	380	380	2270	1360	1650	1020	350	350
110	43.3	Q(Btu/h)	20740	17280	15540	10350	4910	4910	19640	16070	14720	9800	4650	4650	18450	14720	13830	9210	4370	4370
		W	2470	1440	1790	1100	380	380	2340	1390	1690	1050	370	370	2220	1340	1610	1000	340	340
105	40.6	Q(Btu/h)	21610	18000	16200	10780	5110	5110	20460	16740	15340	10210	4840	4840	19230	15390	14410	9590	4550	4550
		W	2410	1410	1750	1070	370	370	2280	1360	1650	1020	360	360	2170	1310	1570	970	340	340
100	37.8	Q(Btu/h)	22420	18680	16810	11190	5300	5300	21230	17370	15920	10600	5020	5020	19950	16160	14950	9960	4720	4720
		W	2340	1380	1710	1040	360	360	2220	1320	1610	990	350	350	2110	1270	1540	940	330	330
95	35.0	Q(Btu/h)	23230	19350	17410	11590	5490	5490	22000	18000	16490	10980	5200	5200	20670	16920	15490	10320	4890	4890
		W	2270	1340	1660	1010	350	350	2150	1280	1560	960	340	340	2040	1220	1490	910	320	320
90	32.2	Q(Btu/h)	24160	19980	18110	12060	5720	5720	22880	18720	17150	11420	5410	5410	21500	17550	16110	10730	5090	5090
		W	2180	1300	1590	980	340	340	2070	1230	1500	930	330	330	1970	1180	1430	880	310	310
85	29.4	Q(Btu/h)	25090	20610	18810	12520	5940	5940	23760	19440	17810	11860	5620	5620	22330	18180	16730	11140	5280	5280
		W	2100	1250	1530	930	320	320	1990	1180	1440	890	310	310	1890	1130	1370	850	290	290
80	26.7	Q(Btu/h)	26020	21330	19500	12990	6160	6160	24640	20160	18470	12300	5830	5830	23150	18900	17350	11560	5480	5480
		W	2000	1200	1460	890	310	310	1900	1130	1380	850	300	300	1810	1080	1320	810	280	280
75	23.9	Q(Btu/h)	26950	22050	20200	13450	6370	6370	25520	20880	19130	12740	6030	6030	23980	19620	17970	11970	5670	5670
		W	1910	1140	1390	850	300	300	1810	1080	1310	810	290	290	1720	1020	1250	770	270	270
70	21.1	Q(Btu/h)	27880	22810	20900	13910	6590	6590	26400	21600	19790	13180	6240	6240	24810	20300	18590	12380	5870	5870
		W	1800	1080	1320	810	280	280	1710	1020	1240	770	270	270	1620	960	1180	730	250	250
65	18.3	Q(Btu/h)	23810	19480	17930	12030	5880	5880	22550	18450	16980	11400	5570	5570	21190	17340	15950	10710	5240	5240
		W	2030	1220	1540	1030	500	500	1930	1150	1450	980	480	480	1830	1080	1380	930	440	440
60	15.6	Q(Btu/h)	23810	19480	17930	12030	5880	5880	22550	18450	16980	11400	5570	5570	21190	17340	15950	10710	5240	5240
		W	2030	1220	1540	1030	500	500	1930	1150	1450	980	480	480	1830	1080	1380	930	440	440
55	12.8	Q(Btu/h)	23810	19480	17930	12030	5880	5880	22550	18450	16980	11400	5570	5570	21190	17340	15950	10710	5240	5240
		W	2030	1220	1540	1030	500	500	1930	1150	1450	980	480	480	1830	1080	1380	930	440	440
50	10.0	Q(Btu/h)	23810	19480	17930	12030	5880	5880	22550	18450	16980	11400	5570	5570	21190	17340	15950	10710	5240	5240
		W	2030	1220	1540	1030	500	500	1930	1150	1450	980	480	480	1830	1080	1380	930	440	440
45	7.2	Q(Btu/h)	23810	19480	17930	12030	5880	5880	22550	18450	16980	11400	5570	5570	21190	17340	15950	10710	5240	5240
		W	2030	1220	1540	1030	500	500	1930	1150	1450	980	480	480	1830	1080	1380	930	440	440
40	4.4	Q(Btu/h)	23810	19480	17930	12030	5880	5880	22550	18450	16980	11400	5570	5570	21190	17340	15950	10710	5240	5240
		W	2030	1220	1540	1030	500	500	1930	1150	1450	980	480	480	1830	1080	1380	930	440	440
35	1.7	Q(Btu/h)	23810	19480	17930	12030	5880	5880	22550	18450	16980	11400	5570	5570	21190	17340	15950	10710	5240	5240
		W	2030	1220	1540	1030	500	500	1930	1150	1450	980	480	480	1830	1080	1380	930	440	440
30	-1.1	Q(Btu/h)	23810	19480	17930	12030	5880	5880	22550	18450	16980	11400	5570	5570	21190	17340	15950	10710	5240	5240
		W	2030	1220	1540	1030	500	500	1930	1150	1450	980	480	480	1830	1080	1380	930	440	440
25	-3.9	Q(Btu/h)	23810	19480	17930	12030	5880	5880	22550	18450	16980	11400	5570	5570	21190	17340	15950	10710	5240	5240
		W	2030	1220	1540	1030	500	500	1930	1150	1450	980	480	480	1830	1080	1380	930	440	440
20	-6.7	Q(Btu/h)	23810	19480	17930	12030	5880	5880	22550	18450	16980	11400	5570	5570	21190	17340	15950	10710	5240	5240
		W	2030	1220	1540	1030	500	500	1930	1150	1450	980	480	480	1830	1080	1380	930	440	440
15	-9.4	Q(Btu/h)	23810	19480	17930	12030	5880	5880	22550	18450	16980	11400	5570	5570	21190	17340	15950	10710	5240	5240
		W	2030	1220	1540	1030	500	500	1930	1150	1450	980	480	480	1830	1080	1380	930	440	440

* It may not reach the above capacities in low ambient temperatures.

MUZ-GX18NL

2) HEATING

Rated
Q(Btu/h): 21600
W: 1680

Indoor D.B.			78.8°F / 26.0°C						70°F / 21.1°C						59°F / 15.0°C					
Outdoor W.B.			Max.	Rated	75%	50%	25%	Min.	Max.	Rated	75%	50%	25%	Min.	Max.	Rated	75%	50%	25%	Min.
(°F)	(°C)																			
65	18.3	Q(Btu/h)	34230	26980	25830	17110	8720	6230	35620	28080	26880	17810	9070	6480	37010	29180	27930	18510	9420	6730
		W	4550	1910	3430	2280	1160	830	4320	1810	3260	2160	1100	790	4090	1710	3090	2040	1040	750
60	15.6	Q(Btu/h)	32370	25520	24420	16180	8230	5890	33770	26620	25480	16880	8590	6140	35170	27720	26540	17580	8950	6390
		W	4510	1900	3400	2250	1150	820	4280	1800	3230	2140	1090	780	4050	1700	3060	2030	1030	740
55	12.8	Q(Btu/h)	30490	24040	23010	15260	7770	5550	31920	25160	24090	15970	8130	5810	33350	26280	25170	16680	8490	6070
		W	4470	1880	3380	2240	1140	810	4240	1780	3210	2130	1080	770	4010	1680	3040	2020	1020	730
50	10.0	Q(Btu/h)	28620	22570	21590	14310	7280	5200	30070	23710	22680	15030	7650	5460	31520	24850	23770	15750	8020	5720
		W	4380	1840	3300	2190	1120	800	4160	1750	3130	2080	1060	760	3940	1660	2960	1970	1000	720
45	7.2	Q(Btu/h)	26760	21100	20200	13390	6820	4870	28220	22250	21300	14120	7190	5140	29680	23400	22400	14850	7560	5410
		W	4300	1800	3230	2140	1090	780	4080	1710	3070	2030	1030	740	3860	1620	2910	1920	970	700
43	6.1	Q(Btu/h)	25950	20450	19570	12970	6600	4720	27400	21600	20670	13700	6970	4980	28850	22750	21770	14430	7340	5240
		W	4210	1770	3180	2110	1070	770	4000	1680	3020	2000	1020	730	3790	1590	2860	1890	970	690
40	4.4	Q(Btu/h)	24410	19550	18420	12220	6220	4440	25830	20690	19500	12930	6580	4700	27250	21830	20580	13640	6940	4960
		W	4110	1750	3100	2050	1040	750	3900	1660	2940	1950	990	710	3690	1570	2780	1850	940	670
35	1.7	Q(Btu/h)	22830	18000	17230	11420	5810	4150	24250	19120	18300	12130	6170	4410	25670	20240	19370	12840	6530	4670
		W	4000	1690	3020	2000	1020	730	3800	1600	2870	1900	970	690	3600	1510	2720	1800	920	650
30	-1.1	Q(Btu/h)	21440	16560	16170	10720	5460	3900	22870	17660	17250	11430	5820	4160	24300	18760	18330	12140	6180	4420
		W	3740	1600	2820	1880	950	670	3550	1520	2680	1780	900	640	3360	1440	2540	1680	850	610
25	-3.9	Q(Btu/h)	20050	15120	15130	10020	5100	3650	21490	16200	16210	10740	5470	3910	22930	17280	17290	11460	5840	4170
		W	3470	1520	2610	1730	870	620	3290	1440	2480	1640	830	590	3110	1360	2350	1550	790	560
20	-6.7	Q(Btu/h)	18400	13670	13890	9210	4680	3350	19850	14740	14980	9930	5050	3610	21300	15810	16070	10650	5420	3870
		W	3270	1400	2470	1630	830	590	3100	1330	2340	1550	790	560	2930	1260	2210	1470	750	530
15	-9.4	Q(Btu/h)	16720	12200	12620	8360	4250	3040	18200	13280	13730	9100	4630	3310	19680	14360	14840	9840	5010	3580
		W	3060	1270	2310	1530	780	560	2900	1210	2190	1450	740	530	2740	1150	2070	1370	700	500
10	-12.2	Q(Btu/h)	14830	10680	11190	7420	3770	2690	16350	11770	12340	8180	4160	2970	17870	12860	13490	8940	4550	3250
		W	2870	1140	2170	1440	740	530	2720	1080	2060	1370	700	500	2570	1020	1950	1300	660	470
5	-15.0	Q(Btu/h)	12910	9140	9730	6450	3280	2340	14490	10260	10930	7240	3680	2630	16070	11380	12130	8030	4080	2920
		W	2670	1000	2010	1340	680	480	2530	950	1910	1270	650	460	2390	900	1810	1200	620	440
0	-17.8	Q(Btu/h)	11380	7480	8580	5690	2890	2070	13110	8620	9890	6550	3330	2380	14840	9760	11200	7410	3770	2690
		W	2500	1190	1880	1240	630	450	2370	1130	1780	1180	600	430	2240	1070	1680	1120	570	410
-4	-20.0	Q(Btu/h)	9900	5890	7470	4960	2520	1810	11720	6980	8850	5870	2990	2140	13540	8070	10230	6780	3460	2470
		W	2320	1380	1750	1160	590	420	2200	1310	1660	1100	560	400	2080	1240	1570	1040	530	380

* Above data is for heating operation without any frost.

MUZ-GX18NLHZ

1) COOLING

Rated
Q(Btu/h): 18000
W: 1280

Indoor W.B.			71°F / 21.7°C						67°F / 19.4°C						63°F / 17.2°C					
Outdoor D.B.			Max.	Rated	75%	50%	25%	Min.	Max.	Rated	75%	50%	25%	Min.	Max.	Rated	75%	50%	25%	Min.
(°F)	(°C)																			
115	46.1	Q(Btu/h)	19860	16560	14890	9910	4700	4700	18810	15390	14100	9390	4450	4450	17670	14040	13250	8820	4180	4180
		W	2520	1470	1840	1120	390	390	2390	1420	1730	1070	380	380	2270	1360	1650	1020	350	350
110	43.3	Q(Btu/h)	20740	17280	15540	10350	4910	4910	19640	16070	14720	9800	4650	4650	18450	14720	13830	9210	4370	4370
		W	2470	1440	1790	1100	380	380	2340	1390	1690	1050	370	370	2220	1340	1610	1000	340	340
105	40.6	Q(Btu/h)	21610	18000	16200	10780	5110	5110	20460	16740	15340	10210	4840	4840	19230	15390	14410	9590	4550	4550
		W	2410	1410	1750	1070	370	370	2280	1360	1650	1020	360	360	2170	1310	1570	970	340	340
100	37.8	Q(Btu/h)	22420	18680	16810	11190	5300	5300	21230	17370	15920	10600	5020	5020	19950	16160	14950	9960	4720	4720
		W	2340	1380	1710	1040	360	360	2220	1320	1610	990	350	350	2110	1270	1540	940	330	330
95	35.0	Q(Btu/h)	23230	19350	17410	11590	5490	5490	22000	18000	16490	10980	5200	5200	20670	16920	15490	10320	4890	4890
		W	2270	1340	1660	1010	350	350	2150	1280	1560	960	340	340	2040	1220	1490	910	320	320
90	32.2	Q(Btu/h)	24160	19980	18110	12060	5720	5720	22880	18720	17150	11420	5410	5410	21500	17550	16110	10730	5090	5090
		W	2180	1300	1590	980	340	340	2070	1230	1500	930	330	330	1970	1180	1430	880	310	310
85	29.4	Q(Btu/h)	25090	20610	18810	12520	5940	5940	23760	19440	17810	11860	5620	5620	22330	18180	16730	11140	5280	5280
		W	2100	1250	1530	930	320	320	1990	1180	1440	890	310	310	1890	1130	1370	850	290	290
80	26.7	Q(Btu/h)	26020	21330	19500	12990	6160	6160	24640	20160	18470	12300	5830	5830	23150	18900	17350	11560	5480	5480
		W	2000	1200	1460	890	310	310	1900	1130	1380	850	300	300	1810	1080	1320	810	280	280
75	23.9	Q(Btu/h)	26950	22050	20200	13450	6370	6370	25520	20880	19130	12740	6030	6030	23980	19620	17970	11970	5670	5670
		W	1910	1140	1390	850	300	300	1810	1080	1310	810	290	290	1720	1020	1250	770	270	270
70	21.1	Q(Btu/h)	27880	22810	20900	13910	6590	6590	26400	21600	19790	13180	6240	6240	24810	20300	18590	12380	5870	5870
		W	1800	1080	1320	810	280	280	1710	1020	1240	770	270	270	1620	960	1180	730	250	250
65	18.3	Q(Btu/h)	23810	19480	17930	12030	5880	5880	22550	18450	16980	11400	5570	5570	21190	17340	15950	10710	5240	5240
		W	2030	1220	1540	1030	500	500	1930	1150	1450	980	480	480	1830	1080	1380	930	440	440
60	15.6	Q(Btu/h)	23810	19480	17930	12030	5880	5880	22550	18450	16980	11400	5570	5570	21190	17340	15950	10710	5240	5240
		W	2030	1220	1540	1030	500	500	1930	1150	1450	980	480	480	1830	1080	1380	930	440	440
55	12.8	Q(Btu/h)	23810	19480	17930	12030	5880	5880	22550	18450	16980	11400	5570	5570	21190	17340	15950	10710	5240	5240
		W	2030	1220	1540	1030	500	500	1930	1150	1450	980	480	480	1830	1080	1380	930	440	440
50	10.0	Q(Btu/h)	23810	19480	17930	12030	5880	5880	22550	18450	16980	11400	5570	5570	21190	17340	15950	10710	5240	5240
		W	2030	1220	1540	1030	500	500	1930	1150	1450	980	480	480	1830	1080	1380	930	440	440
45	7.2	Q(Btu/h)	23810	19480	17930	12030	5880	5880	22550	18450	16980	11400	5570	5570	21190	17340	15950	10710	5240	5240
		W	2030	1220	1540	1030	500	500	1930	1150	1450	980	480	480	1830	1080	1380	930	440	440
40	4.4	Q(Btu/h)	23810	19480	17930	12030	5880	5880	22550	18450	16980	11400	5570	5570	21190	17340	15950	10710	5240	5240
		W	2030	1220	1540	1030	500	500	1930	1150	1450	980	480	480	1830	1080	1380	930	440	440
35	1.7	Q(Btu/h)	23810	19480	17930	12030	5880	5880	22550	18450	16980	11400	5570	5570	21190	17340	15950	10710	5240	5240
		W	2030	1220	1540	1030	500	500	1930	1150	1450	980	480	480	1830	1080	1380	930	440	440
30	-1.1	Q(Btu/h)	23810	19480	17930	12030	5880	5880	22550	18450	16980	11400	5570	5570	21190	17340	15950	10710	5240	5240
		W	2030	1220	1540	1030	500	500	1930	1150	1450	980	480	480	1830	1080	1380	930	440	440
25	-3.9	Q(Btu/h)	23810	19480	17930	12030	5880	5880	22550	18450	16980	11400	5570	5570	21190	17340	15950	10710	5240	5240
		W	2030	1220	1540	1030	500	500	1930	1150	1450	980	480	480	1830	1080	1380	930	440	440
20	-6.7	Q(Btu/h)	23810	19480	17930	12030	5880	5880	22550	18450	16980	11400	5570	5570	21190	17340	15950	10710	5240	5240
		W	2030	1220	1540	1030	500	500	1930	1150	1450	980	480	480	1830	1080	1380	930	440	440
15	-9.4	Q(Btu/h)	23810	19480	17930	12030	5880	5880	22550	18450	16980	11400	5570	5570	21190	17340	15950	10710	5240	5240
		W	2030	1220	1540	1030	500	500	1930	1150	1450	980	480	480	1830	1080	1380	930	440	440

* It may not reach the above capacities in low ambient temperatures.

MUZ-GX18NLHZ

2) HEATING

Rated
Q(Btu/h): 19000
W: 1340

Indoor D.B.			78.8°F / 26.0°C						70°F / 21.1°C						59°F / 15.0°C					
Outdoor W.B.			Max.	Rated	75%	50%	25%	Min.	Max.	Rated	75%	50%	25%	Min.	Max.	Rated	75%	50%	25%	Min.
(°F)	(°C)																			
65	18.3	Q(Btu/h)	34230	23730	25670	17110	8560	5900	35620	24700	26720	17810	8910	6140	37010	25670	27770	18510	9260	6380
		W	4550	1530	3410	2280	1140	780	4320	1450	3240	2160	1080	740	4090	1370	3070	2040	1020	700
60	15.6	Q(Btu/h)	32370	22450	24280	16190	8100	5590	33770	23420	25330	16890	8450	5830	35170	24390	26380	17590	8800	6070
		W	4510	1520	3380	2250	1130	780	4280	1440	3210	2140	1070	740	4050	1360	3040	2030	1010	700
55	12.8	Q(Btu/h)	30490	21150	22870	15250	7620	5250	31920	22140	23940	15960	7980	5500	33350	23130	25010	16670	8340	5750
		W	4470	1500	3350	2230	1120	770	4240	1420	3180	2120	1060	730	4010	1340	3010	2010	1000	690
50	10.0	Q(Btu/h)	28620	19860	21460	14310	7150	4930	30070	20860	22550	15030	7510	5180	31520	21860	23640	15750	7870	5430
		W	4380	1470	3290	2190	1100	760	4160	1400	3120	2080	1040	720	3940	1330	2950	1970	980	680
45	7.2	Q(Btu/h)	26760	18560	20070	13380	6690	4610	28220	19570	21160	14110	7050	4860	29680	20580	22250	14840	7410	5110
		W	4300	1440	3220	2150	1070	740	4080	1370	3060	2040	1020	700	3860	1300	2900	1930	970	660
43	6.1	Q(Btu/h)	25950	17990	19460	12970	6490	4470	27400	19000	20550	13700	6850	4720	28850	20010	21640	14430	7210	4970
		W	4210	1410	3160	2110	1050	730	4000	1340	3000	2000	1000	690	3790	1270	2840	1890	950	650
40	4.4	Q(Btu/h)	24410	17200	18300	12210	6100	4210	25830	18200	19370	12920	6460	4460	27250	19200	20440	13630	6820	4710
		W	4110	1390	3090	2060	1030	720	3900	1320	2930	1960	980	680	3690	1250	2770	1860	930	640
35	1.7	Q(Btu/h)	22830	15830	17120	11420	5700	3940	24250	16820	18190	12130	6060	4180	25670	17810	19260	12840	6420	4420
		W	4000	1340	3000	2000	1000	700	3800	1270	2850	1900	950	660	3600	1200	2700	1800	900	620
30	-1.1	Q(Btu/h)	22710	14570	17030	11350	5670	3910	24220	15540	18160	12110	6050	4170	25730	16510	19290	12870	6430	4430
		W	3980	1390	3010	2040	1080	780	3780	1330	2860	1940	1030	750	3580	1270	2710	1840	980	720
25	-3.9	Q(Btu/h)	22570	13300	16940	11290	5650	3890	24190	14250	18150	12100	6050	4170	25810	15200	19360	12910	6450	4450
		W	3820	1330	2900	1970	1050	760	3630	1270	2760	1880	1000	730	3440	1210	2620	1790	950	700
20	-6.7	Q(Btu/h)	21600	12020	16200	10800	5410	3730	23300	12970	17470	11650	5830	4020	25000	13920	18740	12500	6250	4310
		W	3680	1240	2800	1900	1000	730	3500	1180	2660	1810	960	700	3320	1120	2520	1720	920	670
15	-9.4	Q(Btu/h)	20580	10740	15440	10290	5150	3550	22400	11690	16800	11200	5600	3860	24220	12640	18160	12110	6050	4170
		W	3530	1130	2670	1830	970	710	3360	1080	2540	1740	930	680	3190	1030	2410	1650	890	650
10	-12.2	Q(Btu/h)	18780	9400	14090	9400	4700	3240	20700	10360	15530	10360	5180	3570	22620	11320	16970	11320	5660	3900
		W	3380	1030	2560	1750	940	690	3210	980	2440	1670	900	660	3040	930	2320	1590	860	630
5	-15.0	Q(Btu/h)	16920	8040	12690	8460	4230	2920	19000	9030	14250	9500	4750	3280	21080	10020	15810	10540	5270	3640
		W	3210	920	2440	1670	900	660	3050	880	2320	1590	860	630	2890	840	2200	1510	820	600
0	-17.8	Q(Btu/h)	15390	7470	11540	7700	3850	2660	17730	8600	13300	8870	4430	3060	20070	9730	15060	10040	5010	3460
		W	3090	1230	2340	1610	870	640	2940	1170	2230	1530	830	610	2790	1110	2120	1450	790	580
-4	-20.0	Q(Btu/h)	13900	6890	10430	6960	3480	2400	16460	8160	12350	8240	4120	2840	19020	9430	14270	9520	4760	3280
		W	2960	1530	2250	1540	830	600	2820	1460	2140	1470	790	580	2680	1390	2030	1400	750	560
-10	-23.3	Q(Btu/h)	12080	5990	9060	6040	3010	2080	15150	7510	11360	7570	3780	2610	18220	9030	13660	9100	4550	3140
		W	2850	1480	2160	1480	790	580	2710	1410	2060	1410	760	560	2570	1340	1960	1340	730	540
-13	-25.0	Q(Btu/h)	10630	5270	7970	5310	2660	1840	13840	6860	10380	6920	3460	2390	17050	8450	12790	8530	4260	2940
		W	2730	1420	2080	1430	770	570	2600	1350	1980	1360	740	550	2470	1280	1880	1290	710	530

* Above data is for heating operation without any frost.

MUZ-GX24NL MUY-GX24NL

Rated
Q(Btu/h): 22400
W: 1720

1) COOLING

Indoor W.B.			71°F / 21.7°C						67°F / 19.4°C						63°F / 17.2°C					
Outdoor D.B.			Max.	Rated	75%	50%	25%	Min.	Max.	Rated	75%	50%	25%	Min.	Max.	Rated	75%	50%	25%	Min.
(°F)	(°C)																			
115	46.1	Q(Btu/h)	24390	20610	18850	13320	7790	6690	23090	19150	17850	12610	7380	6330	21700	17470	16770	11850	6940	5950
		W	3390	1980	2520	1640	780	600	3210	1910	2390	1550	730	570	3050	1820	2270	1470	700	540
110	43.3	Q(Btu/h)	25450	21510	19690	13910	8140	6990	24100	19990	18640	13170	7710	6610	22650	18310	17520	12380	7250	6220
		W	3320	1940	2470	1610	770	590	3140	1870	2340	1520	720	560	2980	1790	2220	1440	690	530
105	40.6	Q(Btu/h)	26520	22400	20510	14490	8480	7270	25110	20830	19420	13720	8030	6880	23590	19150	18250	12890	7550	6470
		W	3240	1900	2410	1570	750	570	3060	1820	2280	1480	700	540	2910	1750	2170	1400	670	510
100	37.8	Q(Btu/h)	27520	23240	21280	15040	8800	7550	26060	21620	20150	14240	8330	7140	24490	20110	18940	13380	7830	6720
		W	3150	1860	2340	1530	730	550	2980	1770	2220	1440	680	530	2830	1700	2110	1370	660	510
95	35.0	Q(Btu/h)	28520	24080	22050	15580	9110	7820	27000	22400	20880	14750	8630	7400	25370	21060	19620	13860	8110	6960
		W	3060	1810	2270	1480	710	530	2890	1720	2150	1400	660	510	2750	1640	2040	1330	640	490
90	32.2	Q(Btu/h)	29660	24870	22940	16200	9480	8140	28080	23300	21720	15340	8980	7700	26390	21840	20410	14420	8440	7240
		W	2940	1750	2180	1430	690	510	2780	1660	2070	1350	640	490	2640	1580	1970	1280	620	470
85	29.4	Q(Btu/h)	30800	25650	23820	16820	9840	8450	29160	24190	22550	15930	9320	7990	27400	22620	21190	14970	8760	7520
		W	2820	1680	2100	1380	650	490	2670	1590	1990	1300	610	470	2540	1520	1890	1230	590	450
80	26.7	Q(Btu/h)	31940	26550	24700	17450	10210	8760	30240	25090	23390	16520	9670	8290	28420	23520	21980	15530	9090	7800
		W	2700	1610	2000	1310	620	470	2550	1520	1900	1240	580	450	2420	1450	1810	1180	560	430
75	23.9	Q(Btu/h)	33080	27440	25580	18070	10570	9070	31320	25980	24220	17110	10010	8580	29430	24420	22760	16080	9410	8070
		W	2570	1530	1910	1250	590	450	2430	1440	1810	1180	550	430	2310	1380	1720	1120	530	410
70	21.1	Q(Btu/h)	34220	28390	26470	18690	10940	9390	32400	26880	25060	17700	10360	8880	30440	25270	23550	16630	9740	8350
		W	2430	1460	1800	1190	570	430	2300	1370	1710	1120	530	410	2190	1310	1620	1060	510	390
65	18.3	Q(Btu/h)	29230	24250	21930	14600	7310	5850	27680	22960	20760	13830	6920	5530	26010	21580	19510	12990	6510	5200
		W	2510	1510	1870	1250	630	490	2380	1420	1780	1180	590	470	2270	1360	1690	1120	570	450
60	15.6	Q(Btu/h)	29230	24250	21930	14600	7310	5850	27680	22960	20760	13830	6920	5530	26010	21580	19510	12990	6510	5200
		W	2510	1510	1870	1250	630	490	2380	1420	1780	1180	590	470	2270	1360	1690	1120	570	450
55	12.8	Q(Btu/h)	29230	24250	21930	14600	7310	5850	27680	22960	20760	13830	6920	5530	26010	21580	19510	12990	6510	5200
		W	2510	1510	1870	1250	630	490	2380	1420	1780	1180	590	470	2270	1360	1690	1120	570	450
50	10.0	Q(Btu/h)	29230	24250	21930	14600	7310	5850	27680	22960	20760	13830	6920	5530	26010	21580	19510	12990	6510	5200
		W	2510	1510	1870	1250	630	490	2380	1420	1780	1180	590	470	2270	1360	1690	1120	570	450
45	7.2	Q(Btu/h)	29230	24250	21930	14600	7310	5850	27680	22960	20760	13830	6920	5530	26010	21580	19510	12990	6510	5200
		W	2510	1510	1870	1250	630	490	2380	1420	1780	1180	590	470	2270	1360	1690	1120	570	450
40	4.4	Q(Btu/h)	29230	24250	21930	14600	7310	5850	27680	22960	20760	13830	6920	5530	26010	21580	19510	12990	6510	5200
		W	2510	1510	1870	1250	630	490	2380	1420	1780	1180	590	470	2270	1360	1690	1120	570	450
35	1.7	Q(Btu/h)	29230	24250	21930	14600	7310	5850	27680	22960	20760	13830	6920	5530	26010	21580	19510	12990	6510	5200
		W	2510	1510	1870	1250	630	490	2380	1420	1780	1180	590	470	2270	1360	1690	1120	570	450
30	-1.1	Q(Btu/h)	29230	24250	21930	14600	7310	5850	27680	22960	20760	13830	6920	5530	26010	21580	19510	12990	6510	5200
		W	2510	1510	1870	1250	630	490	2380	1420	1780	1180	590	470	2270	1360	1690	1120	570	450
25	-3.9	Q(Btu/h)	29230	24250	21930	14600	7310	5850	27680	22960	20760	13830	6920	5530	26010	21580	19510	12990	6510	5200
		W	2510	1510	1870	1250	630	490	2380	1420	1780	1180	590	470	2270	1360	1690	1120	570	450
20	-6.7	Q(Btu/h)	29230	24250	21930	14600	7310	5850	27680	22960	20760	13830	6920	5530	26010	21580	19510	12990	6510	5200
		W	2510	1510	1870	1250	630	490	2380	1420	1780	1180	590	470	2270	1360	1690	1120	570	450
15	-9.4	Q(Btu/h)	29230	24250	21930	14600	7310	5850	27680	22960	20760	13830	6920	5530	26010	21580	19510	12990	6510	5200
		W	2510	1510	1870	1250	630	490	2380	1420	1780	1180	590	470	2270	1360	1690	1120	570	450

* It may not reach the above capacities in low ambient temperatures.

MUZ-GX24NL

2) HEATING

Rated
Q(Btu/h): 27600
W: 2340

Indoor D.B.			78.8°F / 26.0°C						70°F / 21.1°C						59°F / 15.0°C					
Outdoor W.B.			Max.	Rated	75%	50%	25%	Min.	Max.	Rated	75%	50%	25%	Min.	Max.	Rated	75%	50%	25%	Min.
(°F)	(°C)																			
65	18.3	Q(Btu/h)	39970	34480	29980	19990	9990	6660	41600	35880	31200	20800	10400	6930	43230	37280	32420	21610	10810	7200
		W	4550	2670	3410	2280	1140	760	4320	2530	3240	2160	1080	720	4090	2390	3070	2040	1020	680
60	15.6	Q(Btu/h)	37800	32610	28360	18910	9450	6300	39440	34020	29590	19730	9860	6570	41080	35430	30820	20550	10270	6840
		W	4510	2640	3380	2250	1130	750	4280	2510	3210	2140	1070	710	4050	2380	3040	2030	1010	670
55	12.8	Q(Btu/h)	35610	30710	26710	17810	8900	5930	37280	32150	27960	18640	9320	6210	38950	33590	29210	19470	9740	6490
		W	4470	2610	3360	2240	1120	750	4240	2480	3190	2130	1060	710	4010	2350	3020	2020	1000	670
50	10.0	Q(Btu/h)	33430	28830	25070	16710	8360	5570	35120	30290	26340	17560	8780	5850	36810	31750	27610	18410	9200	6130
		W	4380	2570	3280	2190	1100	730	4160	2440	3110	2080	1040	690	3940	2310	2940	1970	980	650
45	7.2	Q(Btu/h)	31260	26960	23430	15630	7810	5210	32960	28430	24710	16480	8240	5490	34660	29900	25990	17330	8670	5770
		W	4300	2520	3220	2150	1070	720	4080	2390	3060	2040	1020	680	3860	2260	2900	1930	970	640
43	6.1	Q(Btu/h)	30300	26130	22730	15150	7580	5050	32000	27600	24000	16000	8000	5330	33700	29070	25270	16850	8420	5610
		W	4210	2470	3160	2110	1050	710	4000	2340	3000	2000	1000	670	3790	2210	2840	1890	950	630
40	4.4	Q(Btu/h)	28500	24970	21360	14250	7120	4750	30160	26430	22610	15080	7540	5030	31820	27890	23860	15910	7960	5310
		W	4110	2430	3090	2050	1030	680	3900	2310	2930	1950	980	650	3690	2190	2770	1850	930	620
35	1.7	Q(Btu/h)	26660	23000	20000	13330	6670	4440	28320	24430	21240	14160	7080	4720	29980	25860	22480	14990	7490	5000
		W	4000	2340	3000	2000	1000	660	3800	2220	2850	1900	950	630	3600	2100	2700	1800	900	600
30	-1.1	Q(Btu/h)	26050	21160	19530	13010	6510	4340	27780	22570	20830	13880	6940	4630	29510	23980	22130	14750	7370	4920
		W	3810	2220	2870	1920	960	640	3620	2110	2720	1820	910	610	3430	2000	2570	1720	860	580
25	-3.9	Q(Btu/h)	25420	19320	19070	12720	6350	4240	27240	20700	20440	13630	6810	4540	29060	22080	21810	14540	7270	4840
		W	3610	2110	2720	1810	910	600	3430	2000	2580	1720	860	570	3250	1890	2440	1630	810	540
20	-6.7	Q(Btu/h)	24030	17470	18020	12020	6010	4010	25920	18840	19440	12960	6480	4320	27810	20210	20860	13900	6950	4630
		W	3450	1940	2580	1720	850	570	3270	1840	2450	1630	810	540	3100	1740	2320	1540	770	510
15	-9.4	Q(Btu/h)	22600	15590	16950	11300	5650	3770	24600	16970	18450	12300	6150	4100	26600	18350	19950	13300	6650	4430
		W	3280	1770	2450	1630	820	550	3110	1680	2330	1550	780	520	2940	1590	2210	1470	740	490
10	-12.2	Q(Btu/h)	20520	13640	15390	10270	5130	3420	22620	15040	16970	11320	5660	3770	24720	16440	18550	12370	6190	4120
		W	3090	1580	2320	1550	780	520	2930	1500	2200	1470	740	490	2770	1420	2080	1390	700	460
5	-15.0	Q(Btu/h)	18370	11680	13790	9190	4600	3060	20630	13110	15480	10320	5160	3440	22890	14540	17170	11450	5720	3820
		W	2900	1390	2170	1450	730	480	2750	1320	2060	1380	690	460	2600	1250	1950	1310	650	440
0	-17.8	Q(Btu/h)	16380	11260	12280	8190	4090	2730	18870	12970	14150	9430	4710	3140	21360	14680	16020	10670	5330	3550
		W	2760	1690	2080	1390	700	460	2620	1600	1970	1320	660	440	2480	1510	1860	1250	620	420
-4	-20.0	Q(Btu/h)	14440	10830	10830	7220	3610	2410	17100	12830	12830	8550	4280	2850	19760	14830	14830	9880	4950	3290
		W	2620	1970	1970	1320	660	440	2490	1870	1870	1250	630	420	2360	1770	1770	1180	600	400

* Above data is for heating operation without any frost.

MUZ-GX24NLHZ

1) COOLING

Rated
Q(Btu/h): 22400
W: 1720

Indoor W.B.			71°F / 21.7°C						67°F / 19.4°C						63°F / 17.2°C					
Outdoor D.B.			Max.	Rated	75%	50%	25%	Min.	Max.	Rated	75%	50%	25%	Min.	Max.	Rated	75%	50%	25%	Min.
(°F)	(°C)																			
115	46.1	Q(Btu/h)	24390	20610	18850	13320	7790	6690	23090	19150	17850	12610	7380	6330	21700	17470	16770	11850	6940	5950
		W	3390	1980	2520	1640	780	600	3210	1910	2390	1550	730	570	3050	1820	2270	1470	700	540
110	43.3	Q(Btu/h)	25450	21510	19690	13910	8140	6990	24100	19990	18640	13170	7710	6610	22650	18310	17520	12380	7250	6220
		W	3320	1940	2470	1610	770	590	3140	1870	2340	1520	720	560	2980	1790	2220	1440	690	530
105	40.6	Q(Btu/h)	26520	22400	20510	14490	8480	7270	25110	20830	19420	13720	8030	6880	23590	19150	18250	12890	7550	6470
		W	3240	1900	2410	1570	750	570	3060	1820	2280	1480	700	540	2910	1750	2170	1400	670	510
100	37.8	Q(Btu/h)	27520	23240	21280	15040	8800	7550	26060	21620	20150	14240	8330	7140	24490	20110	18940	13380	7830	6720
		W	3150	1860	2340	1530	730	550	2980	1770	2220	1440	680	530	2830	1700	2110	1370	660	510
95	35.0	Q(Btu/h)	28520	24080	22050	15580	9110	7820	27000	22400	20880	14750	8630	7400	25370	21060	19620	13860	8110	6960
		W	3060	1810	2270	1480	710	530	2890	1720	2150	1400	660	510	2750	1640	2040	1330	640	490
90	32.2	Q(Btu/h)	29660	24870	22940	16200	9480	8140	28080	23300	21720	15340	8980	7700	26390	21840	20410	14420	8440	7240
		W	2940	1750	2180	1430	690	510	2780	1660	2070	1350	640	490	2640	1580	1970	1280	620	470
85	29.4	Q(Btu/h)	30800	25650	23820	16820	9840	8450	29160	24190	22550	15930	9320	7990	27400	22620	21190	14970	8760	7520
		W	2820	1680	2100	1380	650	490	2670	1590	1990	1300	610	470	2540	1520	1890	1230	590	450
80	26.7	Q(Btu/h)	31940	26550	24700	17450	10210	8760	30240	25090	23390	16520	9670	8290	28420	23520	21980	15530	9090	7800
		W	2700	1610	2000	1310	620	470	2550	1520	1900	1240	580	450	2420	1450	1810	1180	560	430
75	23.9	Q(Btu/h)	33080	27440	25580	18070	10570	9070	31320	25980	24220	17110	10010	8580	29430	24420	22760	16080	9410	8070
		W	2570	1530	1910	1250	590	450	2430	1440	1810	1180	550	430	2310	1380	1720	1120	530	410
70	21.1	Q(Btu/h)	34220	28390	26470	18690	10940	9390	32400	26880	25060	17700	10360	8880	30440	25270	23550	16630	9740	8350
		W	2430	1460	1800	1190	570	430	2300	1370	1710	1120	530	410	2190	1310	1620	1060	510	390
65	18.3	Q(Btu/h)	29230	24250	21930	14600	7310	5850	27680	22960	20760	13830	6920	5530	26010	21580	19510	12990	6510	5200
		W	2510	1510	1870	1250	630	490	2380	1420	1780	1180	590	470	2270	1360	1690	1120	570	450
60	15.6	Q(Btu/h)	29230	24250	21930	14600	7310	5850	27680	22960	20760	13830	6920	5530	26010	21580	19510	12990	6510	5200
		W	2510	1510	1870	1250	630	490	2380	1420	1780	1180	590	470	2270	1360	1690	1120	570	450
55	12.8	Q(Btu/h)	29230	24250	21930	14600	7310	5850	27680	22960	20760	13830	6920	5530	26010	21580	19510	12990	6510	5200
		W	2510	1510	1870	1250	630	490	2380	1420	1780	1180	590	470	2270	1360	1690	1120	570	450
50	10.0	Q(Btu/h)	29230	24250	21930	14600	7310	5850	27680	22960	20760	13830	6920	5530	26010	21580	19510	12990	6510	5200
		W	2510	1510	1870	1250	630	490	2380	1420	1780	1180	590	470	2270	1360	1690	1120	570	450
45	7.2	Q(Btu/h)	29230	24250	21930	14600	7310	5850	27680	22960	20760	13830	6920	5530	26010	21580	19510	12990	6510	5200
		W	2510	1510	1870	1250	630	490	2380	1420	1780	1180	590	470	2270	1360	1690	1120	570	450
40	4.4	Q(Btu/h)	29230	24250	21930	14600	7310	5850	27680	22960	20760	13830	6920	5530	26010	21580	19510	12990	6510	5200
		W	2510	1510	1870	1250	630	490	2380	1420	1780	1180	590	470	2270	1360	1690	1120	570	450
35	1.7	Q(Btu/h)	29230	24250	21930	14600	7310	5850	27680	22960	20760	13830	6920	5530	26010	21580	19510	12990	6510	5200
		W	2510	1510	1870	1250	630	490	2380	1420	1780	1180	590	470	2270	1360	1690	1120	570	450
30	-1.1	Q(Btu/h)	29230	24250	21930	14600	7310	5850	27680	22960	20760	13830	6920	5530	26010	21580	19510	12990	6510	5200
		W	2510	1510	1870	1250	630	490	2380	1420	1780	1180	590	470	2270	1360	1690	1120	570	450
25	-3.9	Q(Btu/h)	29230	24250	21930	14600	7310	5850	27680	22960	20760	13830	6920	5530	26010	21580	19510	12990	6510	5200
		W	2510	1510	1870	1250	630	490	2380	1420	1780	1180	590	470	2270	1360	1690	1120	570	450
20	-6.7	Q(Btu/h)	29230	24250	21930	14600	7310	5850	27680	22960	20760	13830	6920	5530	26010	21580	19510	12990	6510	5200
		W	2510	1510	1870	1250	630	490	2380	1420	1780	1180	590	470	2270	1360	1690	1120	570	450
15	-9.4	Q(Btu/h)	29230	24250	21930	14600	7310	5850	27680	22960	20760	13830	6920	5530	26010	21580	19510	12990	6510	5200
		W	2510	1510	1870	1250	630	490	2380	1420	1780	1180	590	470	2270	1360	1690	1120	570	450

* It may not reach the above capacities in low ambient temperatures.

MUZ-GX24NLHZ

2) HEATING

Rated
Q(Btu/h): 21200
W: 1500

Indoor D.B.			78.8°F / 26.0°C						70°F / 21.1°C						59°F / 15.0°C					
Outdoor W.B.			Max.	Rated	75%	50%	25%	Min.	Max.	Rated	75%	50%	25%	Min.	Max.	Rated	75%	50%	25%	Min.
(°F)	(°C)																			
65	18.3	Q(Btu/h)	39970	26480	30140	20000	10160	6350	41600	27560	31370	20810	10570	6610	43230	28640	32600	21620	10980	6870
		W	4550	1710	3420	2280	1150	720	4320	1620	3250	2160	1090	680	4090	1530	3080	2040	1030	640
60	15.6	Q(Btu/h)	37800	25050	28500	18890	9590	6000	39440	26130	29730	19710	10010	6260	41080	27210	30960	20530	10430	6520
		W	4510	1700	3400	2250	1150	720	4280	1610	3230	2140	1090	680	4050	1520	3060	2030	1030	640
55	12.8	Q(Btu/h)	35610	23600	26840	17800	9050	5660	37280	24700	28100	18630	9470	5920	38950	25800	29360	19460	9890	6180
		W	4470	1680	3370	2230	1140	720	4240	1590	3200	2120	1080	680	4010	1500	3030	2010	1020	640
50	10.0	Q(Btu/h)	33430	22150	25200	16710	8490	5310	35120	23270	26480	17560	8920	5580	36810	24390	27760	18410	9350	5850
		W	4380	1640	3300	2180	1110	700	4160	1560	3130	2070	1050	660	3940	1480	2960	1960	990	620
45	7.2	Q(Btu/h)	31260	20710	23570	15630	7940	4960	32960	21840	24850	16480	8370	5230	34660	22970	26130	17330	8800	5500
		W	4300	1610	3240	2150	1100	680	4080	1530	3080	2040	1040	650	3860	1450	2920	1930	980	620
43	6.1	Q(Btu/h)	30300	20070	22850	15150	7700	4810	32000	21200	24130	16000	8130	5080	33700	22330	25410	16850	8560	5350
		W	4210	1580	3180	2120	1070	670	4000	1500	3020	2010	1020	640	3790	1420	2860	1900	970	610
40	4.4	Q(Btu/h)	28500	19180	21490	14250	7240	4530	30160	20300	22740	15080	7660	4790	31820	21420	23990	15910	8080	5050
		W	4110	1560	3100	2050	1040	650	3900	1480	2940	1950	990	620	3690	1400	2780	1850	940	590
35	1.7	Q(Btu/h)	26660	17660	20100	13330	6770	4230	28320	18760	21350	14160	7190	4490	29980	19860	22600	14990	7610	4750
		W	4000	1510	3020	2010	1020	640	3800	1430	2870	1910	970	610	3600	1350	2720	1810	920	580
30	-1.1	Q(Btu/h)	26290	16250	19820	13150	6680	4170	28040	17330	21140	14020	7120	4450	29790	18410	22460	14890	7560	4730
		W	4060	1550	3080	2090	1120	740	3860	1480	2930	1990	1070	710	3660	1410	2780	1890	1020	680
25	-3.9	Q(Btu/h)	25900	14840	19540	12950	6580	4120	27760	15900	20940	13880	7050	4410	29620	16960	22340	14810	7520	4700
		W	4000	1470	3040	2060	1100	730	3800	1400	2890	1960	1050	700	3600	1330	2740	1860	1000	670
20	-6.7	Q(Btu/h)	24640	13420	18580	12320	6260	3910	26580	14470	20040	13290	6750	4220	28520	15520	21500	14260	7240	4530
		W	3900	1360	2980	2020	1090	730	3710	1300	2830	1920	1040	700	3520	1240	2690	1820	990	670
15	-9.4	Q(Btu/h)	23340	11980	17590	11670	5930	3700	25400	13040	19150	12700	6450	4030	27460	14100	20710	13730	6970	4360
		W	3810	1260	2900	1960	1060	710	3620	1200	2760	1870	1010	680	3430	1140	2620	1780	960	650
10	-12.2	Q(Btu/h)	21130	10490	15940	10580	5370	3360	23300	11560	17570	11660	5920	3700	25470	12630	19200	12740	6470	4040
		W	3700	1140	2830	1920	1040	690	3520	1090	2690	1830	990	660	3340	1040	2550	1740	940	630
5	-15.0	Q(Btu/h)	18880	8970	14230	9430	4790	2990	21200	10070	15980	10590	5380	3360	23520	11170	17730	11750	5970	3730
		W	3600	1020	2740	1860	1000	680	3420	970	2610	1770	960	650	3240	920	2480	1680	920	620
0	-17.8	Q(Btu/h)	17050	8420	12850	8520	4330	2710	19640	9700	14800	9810	4990	3120	22230	10980	16750	11100	5650	3530
		W	3520	1430	2690	1830	990	670	3350	1360	2560	1740	950	640	3180	1290	2430	1650	910	610
-4	-20.0	Q(Btu/h)	15260	7870	11510	7630	3880	2420	18070	9320	13630	9040	4590	2870	20880	10770	15750	10450	5300	3320
		W	3440	1840	2630	1780	960	650	3270	1750	2500	1700	920	620	3100	1660	2370	1620	880	590
-10	-23.3	Q(Btu/h)	13090	6750	9870	6550	3330	2080	16410	8470	12380	8210	4170	2610	19730	10190	14890	9870	5010	3140
		W	3360	1800	2560	1740	940	640	3200	1710	2440	1660	900	610	3040	1620	2320	1580	860	580
-13	-25.0	Q(Btu/h)	11330	5840	8550	5670	2880	1800	14750	7610	11130	7380	3750	2340	18170	9380	13710	9090	4620	2880
		W	3280	1750	2500	1700	920	630	3120	1670	2380	1620	880	600	2960	1590	2260	1540	840	570

* Above data is for heating operation without any frost.

MUZ-GX30NL MUY-GX30NL

Rated
Q(Btu/h): 30600
W: 3380

1) COOLING

Indoor W.B.			71°F / 21.7°C						67°F / 19.4°C						63°F / 17.2°C					
Outdoor D.B.			Max.	Rated	75%	50%	25%	Min.	Max.	Rated	75%	50%	25%	Min.	Max.	Rated	75%	50%	25%	Min.
(°F)	(°C)																			
115	46.1	Q(Btu/h)	27630	28150	22030	16630	11030	9300	26160	26160	20860	15750	10450	8810	24580	23870	19610	14800	9820	8280
		W	3970	3890	3000	2050	1080	760	3750	3750	2830	1930	1010	720	3570	3580	2700	1840	970	680
110	43.3	Q(Btu/h)	28840	29380	23000	17360	11520	9720	27310	27310	21780	16440	10910	9200	25660	25020	20470	15450	10250	8650
		W	3890	3810	2940	2010	1060	750	3670	3670	2770	1890	990	710	3490	3520	2640	1800	950	670
105	40.6	Q(Btu/h)	30060	30600	23960	18080	11990	10120	28460	28460	22690	17130	11360	9580	26740	26160	21330	16100	10670	9000
		W	3790	3730	2860	1950	1020	730	3580	3580	2700	1840	960	690	3400	3450	2570	1750	920	650
100	37.8	Q(Btu/h)	31190	31750	24870	18770	12450	10500	29530	29530	23550	17780	11790	9940	27740	27460	22140	16710	11070	9340
		W	3690	3640	2790	1900	1000	710	3480	3480	2630	1790	940	670	3310	3340	2510	1700	900	630
95	35.0	Q(Btu/h)	32320	32900	25770	19450	12900	10880	30600	30600	24400	18420	12220	10300	28750	28760	22930	17310	11480	9680
		W	3580	3550	2700	1850	970	690	3380	3380	2550	1740	910	650	3210	3230	2430	1660	870	610
90	32.2	Q(Btu/h)	33610	33970	26810	20230	13420	11310	31830	31830	25380	19160	12710	10710	29900	29840	23860	18000	11940	10060
		W	3460	3430	2610	1780	940	660	3260	3260	2460	1680	880	630	3100	3110	2350	1600	850	600
85	29.4	Q(Btu/h)	34900	35040	27830	21000	13940	11740	33050	33050	26350	19890	13200	11120	31050	30910	24770	18690	12400	10450
		W	3320	3300	2500	1710	900	630	3130	3130	2360	1610	840	600	2980	2990	2250	1530	810	570
80	26.7	Q(Btu/h)	36200	36270	28870	21780	14450	12190	34280	34280	27330	20630	13690	11540	32200	32130	25690	19380	12860	10840
		W	3170	3160	2390	1630	850	610	2990	2990	2250	1540	800	580	2840	2850	2140	1470	770	550
75	23.9	Q(Btu/h)	37490	37490	29890	22560	14970	12620	35500	35500	28300	21370	14180	11950	33350	33350	26600	20080	13320	11230
		W	3010	3010	2270	1550	810	580	2840	2840	2140	1460	760	550	2700	2700	2040	1390	730	520
70	21.1	Q(Btu/h)	38780	38780	30930	23330	15480	13050	36720	36720	29280	22100	14660	12360	34500	34500	27520	20770	13770	11620
		W	2860	2860	2150	1480	780	550	2700	2700	2030	1390	730	520	2570	2570	1940	1320	700	490
65	18.3	Q(Btu/h)	33130	33130	24780	16710	8350	5760	31370	31370	23460	15830	7910	5460	29470	29470	22050	14880	7430	5130
		W	2890	2890	2160	1470	740	500	2730	2730	2040	1380	690	470	2600	2600	1950	1310	660	440
60	15.6	Q(Btu/h)	33130	33130	24780	16710	8350	5760	31370	31370	23460	15830	7910	5460	29470	29470	22050	14880	7430	5130
		W	2890	2890	2160	1470	740	500	2730	2730	2040	1380	690	470	2600	2600	1950	1310	660	440
55	12.8	Q(Btu/h)	33130	33130	24780	16710	8350	5760	31370	31370	23460	15830	7910	5460	29470	29470	22050	14880	7430	5130
		W	2890	2890	2160	1470	740	500	2730	2730	2040	1380	690	470	2600	2600	1950	1310	660	440
50	10.0	Q(Btu/h)	33130	33130	24780	16710	8350	5760	31370	31370	23460	15830	7910	5460	29470	29470	22050	14880	7430	5130
		W	2890	2890	2160	1470	740	500	2730	2730	2040	1380	690	470	2600	2600	1950	1310	660	440
45	7.2	Q(Btu/h)	33130	33130	24780	16710	8350	5760	31370	31370	23460	15830	7910	5460	29470	29470	22050	14880	7430	5130
		W	2890	2890	2160	1470	740	500	2730	2730	2040	1380	690	470	2600	2600	1950	1310	660	440
40	4.4	Q(Btu/h)	33130	33130	24780	16710	8350	5760	31370	31370	23460	15830	7910	5460	29470	29470	22050	14880	7430	5130
		W	2890	2890	2160	1470	740	500	2730	2730	2040	1380	690	470	2600	2600	1950	1310	660	440
35	1.7	Q(Btu/h)	33130	33130	24780	16710	8350	5760	31370	31370	23460	15830	7910	5460	29470	29470	22050	14880	7430	5130
		W	2890	2890	2160	1470	740	500	2730	2730	2040	1380	690	470	2600	2600	1950	1310	660	440
30	-1.1	Q(Btu/h)	33130	33130	24780	16710	8350	5760	31370	31370	23460	15830	7910	5460	29470	29470	22050	14880	7430	5130
		W	2890	2890	2160	1470	740	500	2730	2730	2040	1380	690	470	2600	2600	1950	1310	660	440
25	-3.9	Q(Btu/h)	33130	33130	24780	16710	8350	5760	31370	31370	23460	15830	7910	5460	29470	29470	22050	14880	7430	5130
		W	2890	2890	2160	1470	740	500	2730	2730	2040	1380	690	470	2600	2600	1950	1310	660	440
20	-6.7	Q(Btu/h)	33130	33130	24780	16710	8350	5760	31370	31370	23460	15830	7910	5460	29470	29470	22050	14880	7430	5130
		W	2890	2890	2160	1470	740	500	2730	2730	2040	1380	690	470	2600	2600	1950	1310	660	440
15	-9.4	Q(Btu/h)	33130	33130	24780	16710	8350	5760	31370	31370	23460	15830	7910	5460	29470	29470	22050	14880	7430	5130
		W	2890	2890	2160	1470	740	500	2730	2730	2040	1380	690	470	2600	2600	1950	1310	660	440

* It may not reach the above capacities in low ambient temperatures.

MUZ-GX30NL

2) HEATING

Rated
Q(Btu/h): 32600
W: 3360

Indoor D.B.			78.8°F / 26.0°C						70°F / 21.1°C						59°F / 15.0°C					
Outdoor W.B.			Max.	Rated	75%	50%	25%	Min.	Max.	Rated	75%	50%	25%	Min.	Max.	Rated	75%	50%	25%	Min.
(°F)	(°C)																			
65	18.3	Q(Btu/h)	42470	40720	31770	21410	10700	6910	44200	42380	33060	22280	11140	7190	45930	44040	34350	23150	11580	7470
		W	4550	3820	3400	2300	1150	740	4320	3630	3230	2180	1090	700	4090	3440	3060	2060	1030	660
60	15.6	Q(Btu/h)	40170	38510	30050	20250	10130	6540	41910	40180	31350	21130	10570	6820	43650	41850	32650	22010	11010	7100
		W	4510	3790	3370	2270	1140	740	4280	3600	3200	2150	1080	700	4050	3410	3030	2030	1020	660
55	12.8	Q(Btu/h)	37840	36280	28310	19080	9530	6150	39610	37980	29630	19970	9980	6440	41380	39680	30950	20860	10430	6730
		W	4470	3750	3340	2250	1130	730	4240	3560	3170	2140	1070	690	4010	3370	3000	2030	1010	650
50	10.0	Q(Btu/h)	35520	34060	26580	17910	8960	5780	37320	35780	27920	18820	9410	6070	39120	37500	29260	19730	9860	6360
		W	4380	3690	3280	2200	1100	710	4160	3500	3110	2090	1040	670	3940	3310	2940	1980	980	630
45	7.2	Q(Btu/h)	33210	31840	24840	16740	8370	5410	35020	33580	26190	17650	8830	5700	36830	35320	27540	18560	9290	5990
		W	4300	3610	3210	2160	1070	700	4080	3430	3050	2050	1020	660	3860	3250	2890	1940	970	620
43	6.1	Q(Btu/h)	32190	30870	24080	16220	8110	5240	34000	32600	25430	17130	8570	5530	35810	34330	26780	18040	9030	5820
		W	4210	3540	3150	2130	1060	680	4000	3360	2990	2020	1010	650	3790	3180	2830	1910	960	620
40	4.4	Q(Btu/h)	30280	29500	22650	15260	7620	4920	32050	31220	23970	16150	8070	5210	33820	32940	25290	17040	8520	5500
		W	4110	3490	3080	2080	1040	670	3900	3310	2920	1970	990	640	3690	3130	2760	1860	940	610
35	1.7	Q(Btu/h)	28330	27160	21180	14270	7140	4600	30090	28850	22500	15160	7580	4890	31850	30540	23820	16050	8020	5180
		W	4000	3360	2990	2010	1010	650	3800	3190	2840	1910	960	620	3600	3020	2690	1810	910	590
30	-1.1	Q(Btu/h)	27640	24990	20670	13920	6970	4490	29480	26650	22040	14850	7430	4790	31320	28310	23410	15780	7890	5090
		W	3880	3190	2900	1950	970	620	3680	3030	2750	1850	920	590	3480	2870	2600	1750	870	560
25	-3.9	Q(Btu/h)	26930	22810	20140	13570	6780	4380	28860	24450	21580	14540	7270	4690	30790	26090	23020	15510	7760	5000
		W	3750	3020	2800	1890	940	600	3560	2870	2660	1790	890	570	3370	2720	2520	1690	840	540
20	-6.7	Q(Btu/h)	25430	20630	19020	12810	6410	4130	27430	22250	20510	13820	6910	4460	29430	23870	22000	14830	7410	4790
		W	3620	2790	2710	1820	920	590	3440	2650	2570	1730	870	560	3260	2510	2430	1640	820	530
15	-9.4	Q(Btu/h)	23890	18420	17860	12040	6020	3890	26000	20050	19440	13100	6550	4230	28110	21680	21020	14160	7080	4570
		W	3500	2550	2620	1770	880	570	3320	2420	2490	1680	840	540	3140	2290	2360	1590	800	510
10	-12.2	Q(Btu/h)	21430	16120	16030	10800	5400	3480	23630	17770	17670	11910	5950	3840	25830	19420	19310	13020	6500	4200
		W	3360	2280	2510	1690	840	550	3190	2160	2380	1600	800	520	3020	2040	2250	1510	760	490
5	-15.0	Q(Btu/h)	18930	13800	14150	9540	4760	3070	21250	15490	15890	10710	5350	3450	23570	17180	17630	11880	5940	3830
		W	3210	2000	2400	1610	810	530	3050	1900	2280	1530	770	500	2890	1800	2160	1450	730	470
0	-17.8	Q(Btu/h)	17010	13150	12730	8580	4290	2770	19600	15150	14660	9880	4940	3190	22190	17150	16590	11180	5590	3610
		W	3110	2230	2330	1570	790	510	2950	2120	2210	1490	750	480	2790	2010	2090	1410	710	450
-4	-20.0	Q(Btu/h)	15150	12500	11330	7630	3820	2470	17940	14800	13420	9040	4520	2920	20730	17100	15510	10450	5220	3370
		W	2990	2470	2230	1510	750	480	2840	2340	2120	1430	710	460	2690	2210	2010	1350	670	440

* Above data is for heating operation without any frost.

MUZ-GX36NL MUY-GX36NL

Rated
Q(Btu/h): 33800
W: 4020

1) COOLING

Indoor W.B.			71°F / 21.7°C						67°F / 19.4°C						63°F / 17.2°C					
Outdoor D.B.			Max.	Rated	75%	50%	25%	Min.	Max.	Rated	75%	50%	25%	Min.	Max.	Rated	75%	50%	25%	Min.
(°F)	(°C)																			
115	46.1	Q(Btu/h)	30520	31100	24320	17900	11710	9300	28900	28900	23030	16950	11080	8810	27150	26360	21640	15930	10420	8280
		W	4720	4620	3560	2370	1210	760	4460	4460	3360	2240	1140	720	4250	4260	3190	2130	1070	680
110	43.3	Q(Btu/h)	31860	32450	25390	18690	12220	9720	30170	30170	24040	17700	11570	9200	28350	27630	22590	16630	10880	8650
		W	4620	4530	3480	2320	1180	750	4360	4360	3290	2190	1120	710	4150	4180	3120	2090	1060	670
105	40.6	Q(Btu/h)	33190	33800	26440	19470	12730	10120	31430	31430	25040	18440	12050	9580	29530	28900	23530	17330	11330	9000
		W	4510	4440	3400	2270	1150	730	4260	4260	3210	2140	1090	690	4060	4100	3050	2040	1030	650
100	37.8	Q(Btu/h)	34450	35070	27450	20210	13220	10500	32620	32620	25990	19140	12510	9940	30650	30340	24420	17980	11760	9340
		W	4380	4330	3300	2200	1120	710	4140	4140	3120	2080	1060	670	3940	3970	2960	1980	1000	630
95	35.0	Q(Btu/h)	35700	36340	28440	20940	13690	10880	33800	33800	26930	19830	12960	10300	31760	31770	25300	18630	12180	9680
		W	4260	4220	3210	2140	1090	690	4020	4020	3030	2020	1030	650	3830	3840	2880	1920	970	610
90	32.2	Q(Btu/h)	37120	37520	29580	21790	14240	11310	35150	35150	28010	20630	13480	10710	33030	32960	26320	19380	12670	10060
		W	4100	4070	3090	2060	1050	660	3870	3870	2920	1950	990	630	3690	3700	2770	1860	930	600
85	29.4	Q(Btu/h)	38550	38700	30710	22620	14790	11740	36500	36500	29080	21420	14000	11120	34290	34140	27320	20130	13160	10450
		W	3940	3920	2960	1980	1000	630	3720	3720	2800	1870	950	600	3540	3560	2660	1780	900	570
80	26.7	Q(Btu/h)	39980	40060	31850	23460	15340	12190	37860	37860	30160	22210	14520	11540	35570	35490	28340	20870	13650	10840
		W	3760	3750	2840	1900	960	610	3550	3550	2680	1790	910	580	3380	3390	2540	1710	860	550
75	23.9	Q(Btu/h)	41410	41410	32990	24290	15880	12620	39210	39210	31240	23000	15030	11950	36840	36840	29350	21610	14130	11230
		W	3580	3580	2700	1800	920	580	3380	3380	2550	1700	870	550	3220	3220	2420	1620	820	520
70	21.1	Q(Btu/h)	42840	42840	34130	25130	16430	13050	40560	40560	32320	23800	15550	12360	38110	38110	30360	22360	14620	11620
		W	3400	3400	2560	1700	870	550	3210	3210	2420	1610	820	520	3060	3060	2300	1530	770	490
65	18.3	Q(Btu/h)	36600	36600	27590	18300	9300	5810	34650	34650	26130	17330	8800	5500	32560	32560	24550	16280	8270	5170
		W	3190	3190	2400	1580	810	500	3010	3010	2270	1500	760	470	2870	2870	2160	1430	710	440
60	15.6	Q(Btu/h)	36600	36600	27590	18300	9300	5810	34650	34650	26130	17330	8800	5500	32560	32560	24550	16280	8270	5170
		W	3190	3190	2400	1580	810	500	3010	3010	2270	1500	760	470	2870	2870	2160	1430	710	440
55	12.8	Q(Btu/h)	36600	36600	27590	18300	9300	5810	34650	34650	26130	17330	8800	5500	32560	32560	24550	16280	8270	5170
		W	3190	3190	2400	1580	810	500	3010	3010	2270	1500	760	470	2870	2870	2160	1430	710	440
50	10.0	Q(Btu/h)	36600	36600	27590	18300	9300	5810	34650	34650	26130	17330	8800	5500	32560	32560	24550	16280	8270	5170
		W	3190	3190	2400	1580	810	500	3010	3010	2270	1500	760	470	2870	2870	2160	1430	710	440
45	7.2	Q(Btu/h)	36600	36600	27590	18300	9300	5810	34650	34650	26130	17330	8800	5500	32560	32560	24550	16280	8270	5170
		W	3190	3190	2400	1580	810	500	3010	3010	2270	1500	760	470	2870	2870	2160	1430	710	440
40	4.4	Q(Btu/h)	36600	36600	27590	18300	9300	5810	34650	34650	26130	17330	8800	5500	32560	32560	24550	16280	8270	5170
		W	3190	3190	2400	1580	810	500	3010	3010	2270	1500	760	470	2870	2870	2160	1430	710	440
35	1.7	Q(Btu/h)	36600	36600	27590	18300	9300	5810	34650	34650	26130	17330	8800	5500	32560	32560	24550	16280	8270	5170
		W	3190	3190	2400	1580	810	500	3010	3010	2270	1500	760	470	2870	2870	2160	1430	710	440
30	-1.1	Q(Btu/h)	36600	36600	27590	18300	9300	5810	34650	34650	26130	17330	8800	5500	32560	32560	24550	16280	8270	5170
		W	3190	3190	2400	1580	810	500	3010	3010	2270	1500	760	470	2870	2870	2160	1430	710	440
25	-3.9	Q(Btu/h)	36600	36600	27590	18300	9300	5810	34650	34650	26130	17330	8800	5500	32560	32560	24550	16280	8270	5170
		W	3190	3190	2400	1580	810	500	3010	3010	2270	1500	760	470	2870	2870	2160	1430	710	440
20	-6.7	Q(Btu/h)	36600	36600	27590	18300	9300	5810	34650	34650	26130	17330	8800	5500	32560	32560	24550	16280	8270	5170
		W	3190	3190	2400	1580	810	500	3010	3010	2270	1500	760	470	2870	2870	2160	1430	710	440
15	-9.4	Q(Btu/h)	36600	36600	27590	18300	9300	5810	34650	34650	26130	17330	8800	5500	32560	32560	24550	16280	8270	5170
		W	3190	3190	2400	1580	810	500	3010	3010	2270	1500	760	470	2870	2870	2160	1430	710	440

* It may not reach the above capacities in low ambient temperatures.

MUZ-GX36NL

2) HEATING

Rated
Q(Btu/h): 35200
W: 3840

Indoor D.B.			78.8°F / 26.0°C						70°F / 21.1°C						59°F / 15.0°C					
Outdoor W.B.			Max.	Rated	75%	50%	25%	Min.	Max.	Rated	75%	50%	25%	Min.	Max.	Rated	75%	50%	25%	Min.
(°F)	(°C)																			
65	18.3	Q(Btu/h)	44970	43970	33900	22470	11420	7140	46800	45760	35280	23390	11880	7430	48630	47550	36660	24310	12340	7720
		W	4550	4370	3420	2280	1150	720	4320	4150	3250	2160	1090	680	4090	3930	3080	2040	1030	640
60	15.6	Q(Btu/h)	42530	41590	32060	21260	10790	6750	44370	43390	33450	22180	11260	7040	46210	45190	34840	23100	11730	7330
		W	4510	4330	3400	2250	1150	720	4280	4110	3230	2140	1090	680	4050	3890	3060	2030	1030	640
55	12.8	Q(Btu/h)	40070	39180	30210	20030	10170	6360	41940	41010	31620	20970	10650	6660	43810	42840	33030	21910	11130	6960
		W	4470	4290	3370	2230	1140	720	4240	4070	3200	2120	1080	680	4010	3850	3030	2010	1020	640
50	10.0	Q(Btu/h)	37610	36780	28350	18800	9550	5970	39510	38640	29790	19750	10030	6270	41410	40500	31230	20700	10510	6570
		W	4380	4210	3300	2180	1110	700	4160	4000	3130	2070	1050	660	3940	3790	2960	1960	990	620
45	7.2	Q(Btu/h)	35160	34390	26500	17580	8920	5580	37080	36260	27950	18540	9410	5880	39000	38130	29400	19500	9900	6180
		W	4300	4130	3240	2150	1100	680	4080	3920	3080	2040	1040	650	3860	3710	2920	1930	980	620
43	6.1	Q(Btu/h)	34090	33330	25710	17040	8660	5420	36000	35200	27150	18000	9150	5720	37910	37070	28590	18960	9640	6020
		W	4210	4050	3180	2120	1070	670	4000	3840	3020	2010	1020	640	3790	3630	2860	1900	970	610
40	4.4	Q(Btu/h)	32060	31850	24170	16020	8140	5080	33930	33710	25580	16960	8610	5380	35800	35570	26990	17900	9080	5680
		W	4110	3990	3100	2050	1040	650	3900	3790	2940	1950	990	620	3690	3590	2780	1850	940	590
35	1.7	Q(Btu/h)	29990	29320	22610	15000	7620	4760	31860	31150	24020	15930	8090	5060	33730	32980	25430	16860	8560	5360
		W	4000	3850	3020	2010	1020	640	3800	3650	2870	1910	970	610	3600	3450	2720	1810	920	580
30	-1.1	Q(Btu/h)	28930	26990	21810	14470	7350	4590	30850	28780	23260	15430	7840	4900	32770	30570	24710	16390	8330	5210
		W	3930	3660	2960	1970	1000	620	3730	3470	2810	1870	950	590	3530	3280	2660	1770	900	560
25	-3.9	Q(Btu/h)	27830	24630	20990	13910	7060	4410	29830	26400	22490	14910	7570	4730	31830	28170	23990	15910	8080	5050
		W	3860	3460	2910	1930	980	610	3660	3280	2760	1830	930	580	3460	3100	2610	1730	880	550
20	-6.7	Q(Btu/h)	26070	22280	19650	13040	6620	4130	28120	24030	21200	14060	7140	4460	30170	25780	22750	15080	7660	4790
		W	3760	3180	2830	1880	950	590	3570	3020	2690	1780	900	560	3380	2860	2550	1680	850	530
15	-9.4	Q(Btu/h)	24260	19890	18290	12140	6170	3850	26400	21650	19910	13210	6710	4190	28540	23410	21530	14280	7250	4530
		W	3660	2910	2750	1820	930	580	3470	2760	2610	1730	880	550	3280	2610	2470	1640	830	520
10	-12.2	Q(Btu/h)	21830	17410	16460	10920	5550	3470	24070	19190	18150	12040	6120	3830	26310	20970	19840	13160	6690	4190
		W	3550	2600	2680	1770	900	560	3370	2470	2540	1680	850	530	3190	2340	2400	1590	800	500
5	-15.0	Q(Btu/h)	19350	14890	14600	9680	4920	3070	21730	16720	16390	10870	5520	3450	24110	18550	18180	12060	6120	3830
		W	3430	2290	2580	1710	870	550	3260	2170	2450	1620	830	520	3090	2050	2320	1530	790	490
0	-17.8	Q(Btu/h)	17510	14270	13200	8760	4450	2790	20170	16440	15210	10090	5130	3210	22830	18610	17220	11420	5810	3630
		W	3350	2560	2530	1680	850	540	3180	2430	2400	1590	810	510	3010	2300	2270	1500	770	480
-4	-20.0	Q(Btu/h)	15710	13650	11840	7850	3990	2490	18600	16160	14020	9300	4720	2950	21490	18670	16200	10750	5450	3410
		W	3270	2830	2450	1620	820	520	3100	2690	2330	1540	780	490	2930	2550	2210	1460	740	460

* Above data is for heating operation without any frost.

MITSUBISHI ELECTRIC CORPORATION

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