

Technical & Service Manual

Series SLZ Ceiling Cassettes

R454B

Indoor unit

[Model Name]

[Service Ref.]

SLZ-AF09NL

SLZ-AF09NL-U1

SLZ-AF12NL

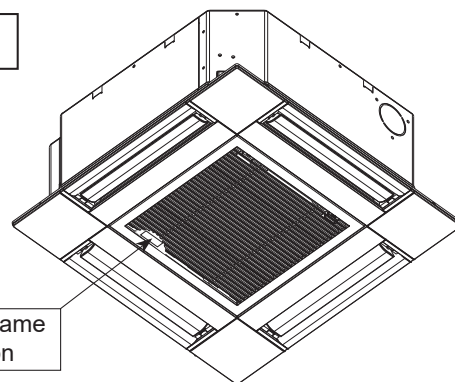
SLZ-AF12NL-U1

SLZ-AF15NL

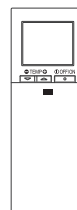
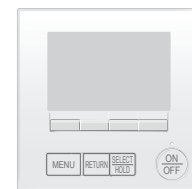
SLZ-AF15NL-U1

SLZ-AF18NL

SLZ-AF18NL-U1

Model name
indication


INDOOR UNIT


WIRELESS REMOTE
CONTROLLER
(Option)

WIRED REMOTE CONTROLLER
(Option)

Contents

Service manual

| | |
|-------------------------------------|----|
| 1. REFERENCE MANUAL | 2 |
| 2. SAFETY PRECAUTION | 3 |
| 3. PARTS NAMES AND FUNCTIONS..... | 9 |
| 4. SPECIFICATIONS | 10 |
| 5. OUTLINES AND DIMENSIONS..... | 12 |
| 6. WIRING DIAGRAM..... | 13 |
| 7. REFRIGERANT SYSTEM DIAGRAM | 14 |
| 8. TROUBLESHOOTING..... | 15 |
| 9. SPECIAL FUNCTION | 32 |
| 10. 4-WAY AIRFLOW SYSTEM | 33 |
| 11. DISASSEMBLY PROCEDURE | 35 |
| 12. REMOTE CONTROLLER | 40 |





Technical data

| | |
|--|----|
| T1. SPECIFICATIONS CONNECTED TO OUTDOOR UNITS | 60 |
| T2. POSITION OF THE CENTER OF GRAVITY | 62 |
| T3. PERFORMANCE CHART | 63 |
| T4. AIRFLOW DATA | 69 |

OUTDOOR UNIT'S SERVICE MANUAL

| Model Name | Service Ref. | Service Manual No. / Parts catalog No. |
|--|--|--|
| MXZ-2D20NL MXZ-3D24NL MXZ-4D30NL MXZ-5D36/42NL MXZ-2D20NLHZ MXZ-3D24/30NLHZ | MXZ-2D20NL-U1 MXZ-3D24NL-U1 MXZ-4D30NL-U1 MXZ-5D36/42NL-U1 MXZ-2D20NLHZ-U1 MXZ-3D24/30NLHZ-U1 | OBH949 / OBB949 |
| MXZ-SM36/48/60NL MXZ-SM36/42/48NLHZ | MXZ-SM36/48/60NL-U1 MXZ-SM36/42/48NLHZ-U1 | OCH819 / OCB819 |
| SUZ-AA09/12/15NL | SUZ-AA09/12/15NL-U1 | OCH879 / OCB879 |
| SUZ-AA18NL | SUZ-AA18NL-U1 | OCH885/OCB885 |
| SUZ-AA09/12/15/18NLHZ | SUZ-AA09/12/15/18NLHZ-U1 | OCH886/OCB886 |
| PUMY-L36/48/60NKMU PUMY-HL36/42/48NKMU | PUMY-L36/48/60NKMU PUMY-HL36/42/48NKMU | OCH836/OCB836 |

MEANINGS OF SYMBOLS DISPLAYED ON THE UNIT

| | | |
|---|---|---|
|  | WARNING (Risk of fire) | This unit uses a flammable refrigerant. If the refrigerant leaks and comes in contact with fire or a heating part, it will create a harmful gas and there is a risk of fire. |
|  | Read the OPERATION MANUAL carefully before operation. | |
|  | Service personnel are required to carefully read the OPERATION MANUAL and INSTALLATION MANUAL before operation. | |
|  | Further information is available in the OPERATION MANUAL, INSTALLATION MANUAL, and the like. | |

2-1. ALWAYS OBSERVE FOR SAFETY

Before obtaining access to terminal, all supply circuits must be disconnected.

2-2. CAUTIONS RELATED TO NEW REFRIGERANT

Cautions for units utilizing refrigerant R454B

Do not use the existing refrigerant piping.

The old refrigerant and lubricant in the existing piping contains a large amount of chlorine which may cause the lubricant deterioration of the new unit.

Make sure that the inside and outside of refrigerant piping is clean and it has no contaminants such as sulfur, oxides, dirt, shaving particles, etc., which are hazard to refrigerant cycle. In addition, use pipes with specified thickness.

Contamination inside refrigerant piping can cause deterioration of refrigerant oil, etc.

Store the piping indoors, and keep both ends of the piping sealed until just before brazing. (Leave elbow joints, etc. in their packaging.)

If dirt, dust or moisture enters into refrigerant cycle, that can cause deterioration of refrigerant oil or malfunction of compressor.

The refrigerant oil applied to flare and flange connections must be ester oil, ether oil or alkylbenzene oil in a small amount.

If large amount of mineral oil enters, that can cause deterioration of refrigerant oil, etc.

Charge refrigerant from liquid phase of gas cylinder.

If the refrigerant is charged from gas phase, composition change may occur in refrigerant and the efficiency will be lowered.

Ventilate the room if refrigerant leaks during operation. If refrigerant comes into contact with a flame, poisonous gases will be released.

Use a vacuum pump with a reverse flow check valve.

Vacuum pump oil may flow back into refrigerant cycle and that can cause deterioration of refrigerant oil, etc.

Use the following tools specifically designed for use with R454B refrigerant.

The following tools are necessary to use R454B refrigerant.

| Tools for R454B | |
|-------------------|---------------------------------------|
| Gauge manifold | Flare tool |
| Charge hose | Size adjustment gauge |
| Gas leak detector | Vacuum pump adaptor |
| Torque wrench | Electronic refrigerant charging scale |

Handle tools with care.

If dirt, dust or moisture enters into refrigerant cycle, that can cause deterioration of refrigerant oil or malfunction of compressor.

Do not use a charging cylinder.

If a charging cylinder is used, the composition of refrigerant will change and the efficiency will be lowered.

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 on name plate of outdoor unit.

If other refrigerant (R22, etc.) is used, chlorine in refrigerant can cause deterioration of refrigerant oil, etc. We will not be held responsible for mechanical failure, system malfunction, unit breakdown or accidents caused by failure to follow the instructions.

[1] Warning for service

- (1) Do not alter the unit.
- (2) For installation and relocation work, follow the instructions in the Installation Manual and use tools and pipe components specifically made for use with refrigerant specified in the outdoor unit installation manual.
- (3) Ask a dealer or an authorized technician to install, relocate and repair the unit.
- (4) This unit should be installed in rooms which exceed the floor space specified in outdoor unit installation manual. Refer to outdoor unit installation manual.
- (5) Install the indoor unit at least 2.5 m above floor or grade level.
For appliances not accessible to the general public.
- (6) Refrigerant pipes connection shall be accessible for maintenance purposes.
- (7) If the air conditioner is installed in a small room or closed room, measures must be taken to prevent the refrigerant concentration in the room from exceeding the safety limit in the event of refrigerant leakage. Should the refrigerant leak and cause the concentration limit to be exceeded, hazards due to lack of oxygen in the room may result.
- (8) Keep gas-burning appliances, electric heaters, and other fire sources (ignition sources) away from the location where installation, repair, and other air conditioner work will be performed.
If refrigerant comes into contact with a flame, poisonous gases will be released.
- (9) When installing or relocating, or servicing the air conditioner, use only the specified refrigerant written on outdoor unit to charge the refrigerant lines.
Do not mix it with any other refrigerant and do not allow air to remain in the lines.
If air is mixed with the refrigerant, then it can be the cause of abnormal high pressure in the refrigerant line, and may result in an explosion and other hazards.
- (10) After installation has been completed, check for refrigerant leaks. If refrigerant leaks into the room and comes into contact with the flame of a heater or portable cooking range, poisonous gases will be released.
- (11) Do not use low temperature solder alloy in case of brazing the refrigerant pipes.
- (12) When performing brazing work, be sure to ventilate the room sufficiently. Make sure that there are no hazardous or flammable materials nearby.
When performing the work in a closed room, small room, or similar location, make sure that there are no refrigerant leaks before performing the work.
If refrigerant leaks and accumulates, it may ignite or poisonous gases may be released.
- (13) Do not install the unit in places where refrigerant may build-up or places with poor ventilation such as a semi-basement or a sunken place in outdoor: Refrigerant is heavier than air, and inclined to fall away from the leak source.
- (14) Do not use means to accelerate the defrosting process or to clean, other than those recommended by the manufacturer.
- (15) The appliance shall be stored in a room without continuously operating ignition sources (for example: open flames, an operating gas appliance or an operating electric heater).
- (16) Do not pierce or burn.
- (17) Be aware that refrigerants may not contain an odour.
- (18) Pipe-work shall be protected from physical damage.
- (19) The installation of pipe-work shall be kept to a minimum.
- (20) Compliance with national gas regulations shall be observed.
- (21) Keep any required ventilation openings clear of obstruction.
- (22) Servicing shall be performed only as recommended by the manufacturer.
- (23) The appliance shall be stored in a well-ventilated area where the room size corresponds to the room area as specified for operation.
- (24) Maintenance, service and repair operations shall be performed by authorized technician with required qualification.

[2] Cautions for service

- (1) Perform service after recovering the refrigerant left in unit completely.
- (2) Do not release refrigerant in the air.
- (3) After completing service, charge the cycle with specified amount of refrigerant.
- (4) When performing service, install a filter drier simultaneously.
Be sure to use a filter drier for new refrigerant.

[3] Additional refrigerant charge

When charging directly from cylinder

- (1) Check that cylinder for R454B available on the market is a syphon type.
- (2) Charging should be performed with the cylinder of syphon stood vertically. (Refrigerant is charged from liquid phase.)

[4] Cautions for 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.

(1) Information on servicing

(1-1) 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, 1-2 to 1-6 shall be completed prior to conducting work on the system.

(1-2) 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.

(1-3) 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.

(1-4) 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.

(1-5) 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 CO₂ fire extinguisher adjacent to the charging area.

(1-6) 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.

(1-7) 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.

(1-8) 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.

(1-9) 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.

(2) Repairs to sealed components

Sealed electrical components shall be replace.

(3) Repair to intrinsically safe components

Intrinsically safe components must be replaced.

(4) Cabling

Check that cabling will not be subject to wear, corrosion, excessive pressure, vibration, sharp edges or any other adverse environmental effects.

The check shall also take into account the effects of aging or continual vibration from sources such as compressors or fans.

(5) Detection of flammable refrigerants

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

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 of refrigerant shall be according to 2-4.6.

(6) 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
 - 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.

(7) 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.

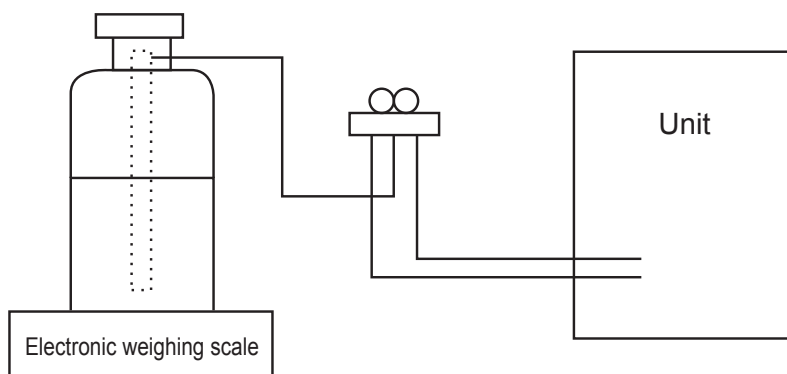
(8) Decommissioning

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.

Continued to the next page

- a) Become familiar with the equipment and its operation.
- b) Isolate system electrically.
- c) 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.
- d) Pump down refrigerant system, if possible.
- e) If a vacuum is not possible, make a manifold so that refrigerant can be removed from various parts of the system.
- f) Make sure that cylinder is situated on the scales before recovery takes place.
- g) Start the recovery machine and operate in accordance with instructions.
- h) Do not overfill cylinders. (no more than 80 % volume liquid charge)
- i) Do not exceed the maximum working pressure of the cylinder, even temporarily.
- j) 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.
- k) Recovered refrigerant shall not be charged into another REFRIGERATING SYSTEM unless it has been cleaned and checked.
- (9) 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.
- (10) 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.



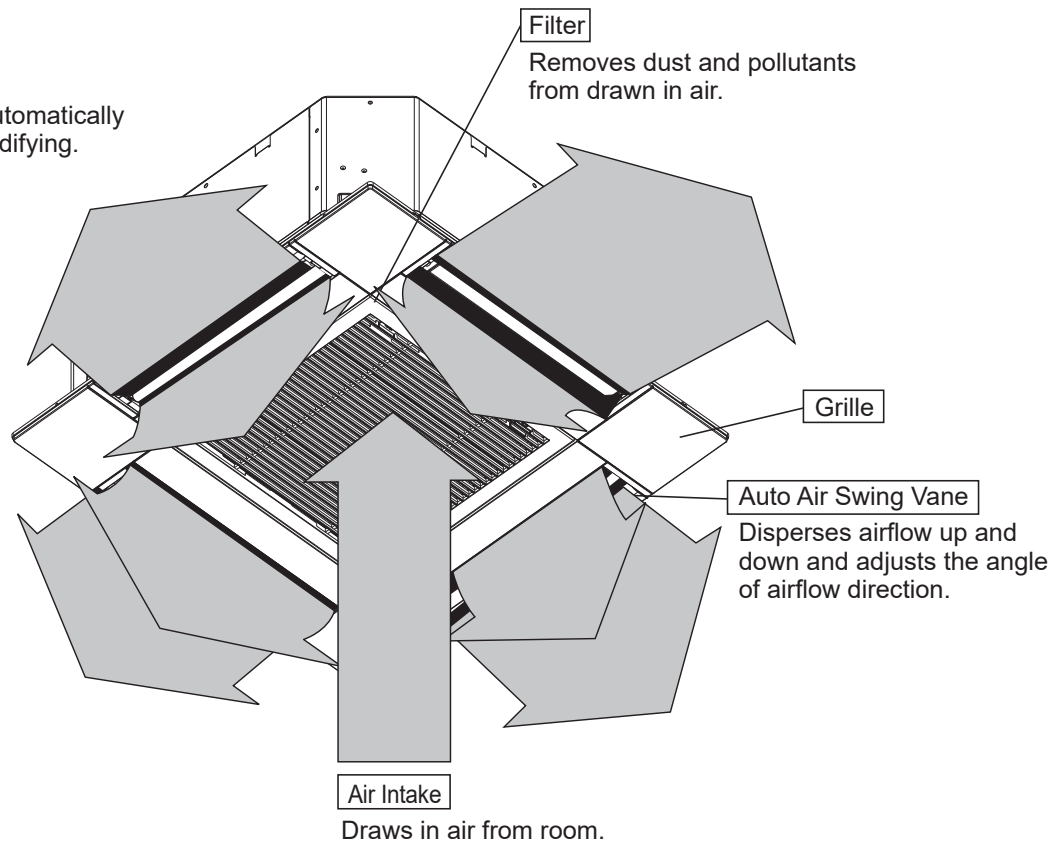
[4] Service tools

Use the below service tools as exclusive tools for R454B refrigerant.

| No. | Tool name | Specifications |
|-----|--------------------------------|---|
| ① | Gauge manifold | · Only for R454B |
| | | · Use the existing fitting specifications. (UNF1/2) |
| | | · Use high-tension side pressure of 768.7 PSIG [5.3 MPa.G] or over. |
| ② | Charge hose | · Only for R454B |
| | | · Use pressure performance of 738.2 PSIG [5.09 MPa.G] or over. |
| ③ | Electronic weighing scale | — |
| ④ | Gas leak detector | · Use the detector for R454B. |
| ⑤ | Adaptor for reverse flow check | · Attach on vacuum pump. |
| ⑥ | Refrigerant charge base | — |
| ⑦ | Refrigerant cylinder | · Only for R454B |
| | | · Cylinder with syphon |
| ⑧ | Refrigerant recovery equipment | — |

Horizontal Air Outlet

Sets horizontal airflow automatically during cooling or dehumidifying.



| | | | | | | | | | | |
|--------------------------------------|-------------------|---------------------|--------------------------|---------|---------------|---------|-----------------------|---------|---------------|---------|
| Indoor unit service ref. | | | SLZ-AF09NL-U1 | | SLZ-AF12NL-U1 | | SLZ-AF15NL-U1 | | SLZ-AF18NL-U1 | |
| Mode | | | Cooling | Heating | Cooling | Heating | Cooling | Heating | Cooling | Heating |
| Power supply (phase, cycle, voltage) | | | 1-phase 208/230 V, 60 Hz | | | | | | | |
| Electrical data | Input | kW | 0.02 | 0.02 | 0.02 | 0.02 | 0.03 | 0.03 | 0.04 | 0.04 |
| | Current* | A | 0.20 | 0.15 | 0.24 | 0.19 | 0.32 | 0.27 | 0.43 | 0.38 |
| | Fan motor output* | kW | 0.05 | | 0.05 | | 0.05 | | 0.05 | |
| | Fan motor | F.L.A. | 0.29 | | | | | | | |
| Airflow rate (Low/Medium/High) | | m ³ /min | 6.5/7.5/8.5 | | 6.5/8.0/9.5 | | 7.0/9.0/11.5 | | 8.5/12.0/13.5 | |
| | | CFM | 230/265/300 | | 230/280/335 | | 245/315/405 | | 300/420/475 | |
| Noise level (Low/Medium/High) | | dB | 25/28/31 | | 25/30/34 | | 27/34/39 | | 32/40/43 | |
| Dimensions | Width | mm (in) | UNIT: 570 (22-7/16) | | | | PANEL: 625 (24-19/32) | | | |
| | Depth | mm (in) | UNIT: 570 (22-7/16) | | | | PANEL: 625 (24-19/32) | | | |
| | Height | mm (in) | UNIT: 245 (9-21/32) | | | | PANEL: 10 (13/32) | | | |
| Weight | | kg (lb) | UNIT: 14 (31) | | | | PANEL: 2.4 (5.3) | | | |

NOTE : Test conditions are based on ISO 5151.

Nominal cooling condition

Indoor : 27°CDB/19°CWB (81°FDB/66°F WB)

Outdoor : 35°CDB (95°FDB)

Pipe length : 7.5 m (24-9/16 ft)

*Measured under rated operating frequency

Nominal heating condition

20°CDB/15°CWB (68°FDB/59°F WB)

7°CDB/6°CWB (45°FDB/43°F WB)

7.5 m (24-9/16 ft)

Specifications and rating conditions of main electric parts

INDOOR UNIT

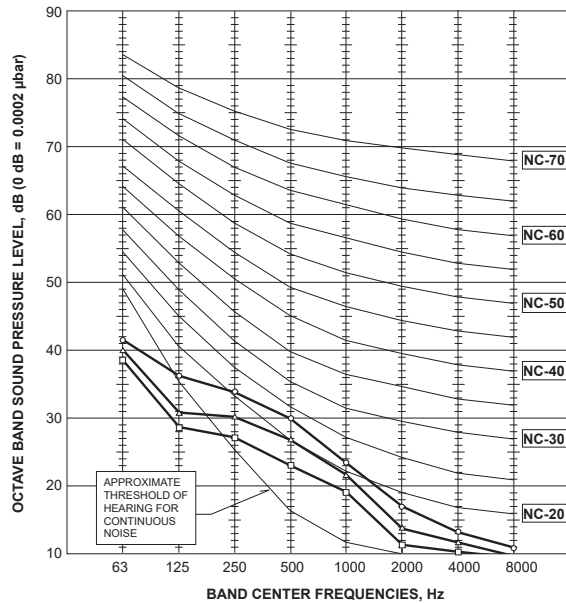
| Item | service ref. | SLZ-AF09NL-U1 | SLZ-AF12NL-U1 | SLZ-AF15NL-U1 | SLZ-AF18NL-U1 |
|---------------------|--------------|---|---------------|---------------|---------------|
| Fuse (FUSE) | | 250 V 6.3 A | | | |
| Vane motor (MV) | | MSBPC20M32 (Green label), MSBPC20M33 (Blue label): 12 V 300 Ω | | | |
| Terminal block (TB) | | TO OUTDOOR UNIT : 3P TO WIRED REMOTE CONTROLLER : 2P | | | |

NOISE CRITERION CURVES

SLZ-AF09NL-U1

<60Hz>

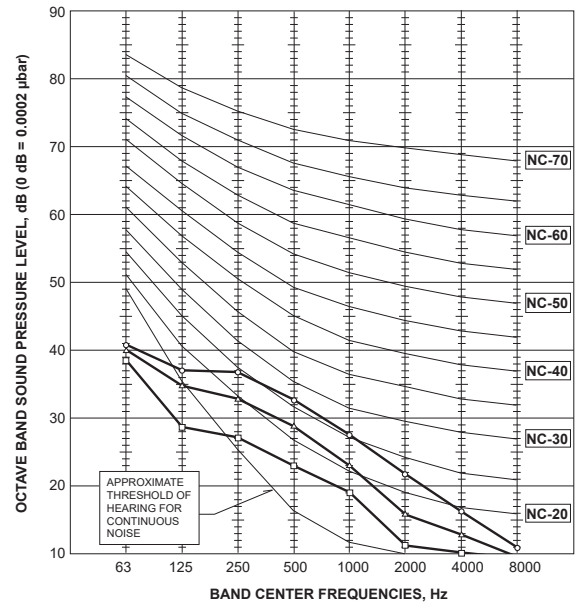
| NOTCH | SPL(dB) | LINE |
|--------|---------|------|
| High | 31 | ○—○ |
| Medium | 28 | △—△ |
| Low | 25 | □—□ |



SLZ-AF12NL-U1

<60Hz>

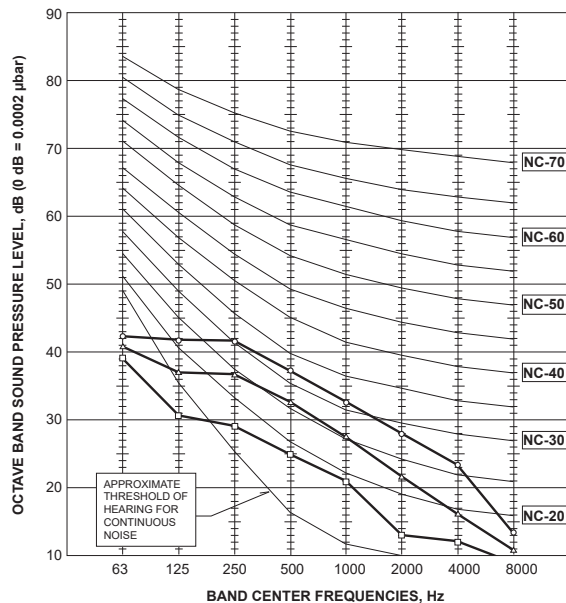
| NOTCH | SPL(dB) | LINE |
|--------|---------|------|
| High | 34 | ○—○ |
| Medium | 30 | △—△ |
| Low | 25 | □—□ |



SLZ-AF15NL-U1

<60Hz>

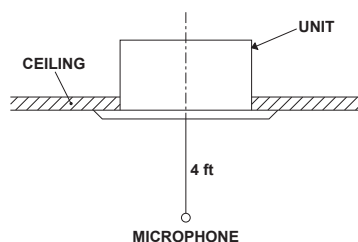
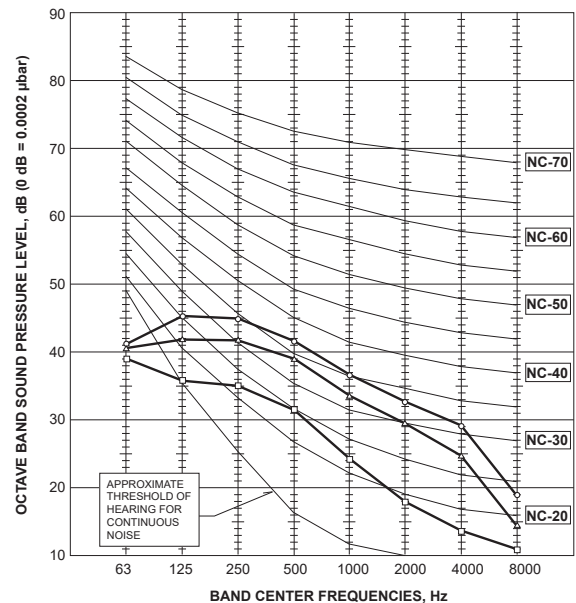
| NOTCH | SPL(dB) | LINE |
|--------|---------|------|
| High | 39 | ○—○ |
| Medium | 34 | △—△ |
| Low | 27 | □—□ |



SLZ-AF18NL-U1

<60Hz>

| NOTCH | SPL(dB) | LINE |
|--------|---------|------|
| High | 43 | ○—○ |
| Medium | 40 | △—△ |
| Low | 32 | □—□ |



NOTE: The sound level is measured in an anechoic room where echoes are few, when compressor stops. The sound may be bigger than the indicated level in actual use due to surrounding echoes. The sound level can be higher by about 2 dB than the indicated level during cooling and heating operation.

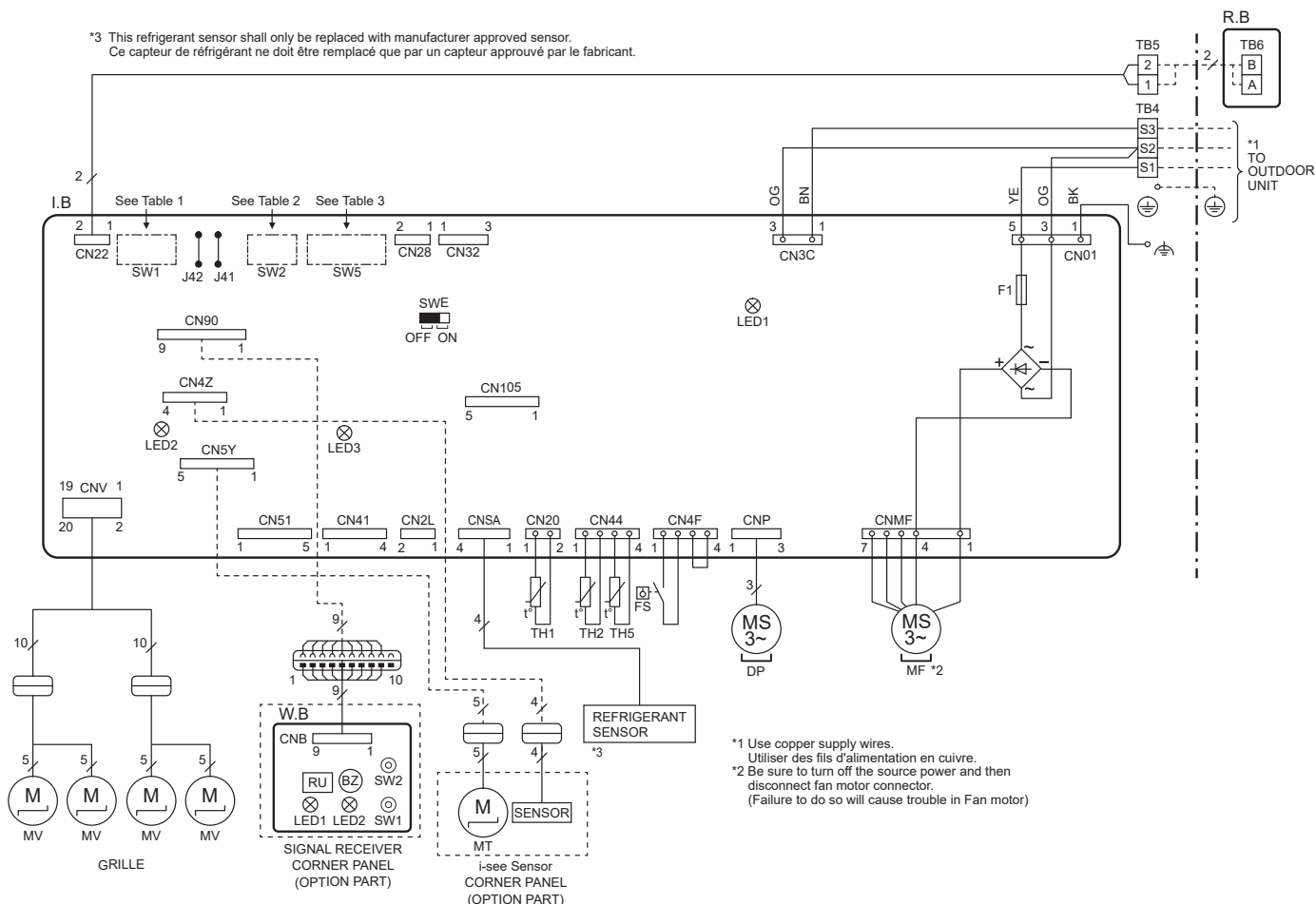
Technical drawings of the SLZ-AF15/18NL and SLZ-AF09/12NL models, showing front, side, and top views with dimensions in inches and millimeters. The drawings include labels for components like the receiver corner panel, air intake grille, and vane motor. A table at the bottom right lists models and their corresponding refrigerant types and flared connections.

| MODELS | REFRIGERANT PIPE (LIQUID) | REFRIGERANT PIPE (GAS) | A | B |
|---------------|-----------------------------------|-----------------------------------|----|----|
| SLZ-AF09/12NL | #6.35(1/4) FLARED CONNECTION 1/4F | #9.52(3/8) FLARED CONNECTION 3/8F | 63 | 72 |
| SLZ-AF15/18NL | #6.35(1/4) FLARED CONNECTION 1/4F | #12.7(1/2) FLARED CONNECTION 1/2F | 63 | 78 |

6

WIRING DIAGRAM

*3 This refrigerant sensor shall only be replaced with manufacturer approved sensor.
Ce capteur de réfrigérant ne doit être remplacé que par un capteur approuvé par le fabricant.



*1 Use copper supply wires.
Utiliser des fils d'alimentation en cuivre.
*2 Be sure to turn off the source power and then disconnect fan motor connector.
(Failure to do so will cause trouble in Fan motor)

[LEGEND]

| SYMBOL | NAME |
|----------------|---|
| I.B. | INDOOR CONTROLLER BOARD |
| CN2L | CONNECTOR (LOSSNAY) |
| CN32 | CONNECTOR (REMOTE SWITCH) |
| CN41 | CONNECTOR (HA TERMINAL-A) |
| CN51 | CONNECTOR (CENTRALLY CONTROL) |
| CN105 | CONNECTOR (IT) |
| F1 | FUSE (T6.3AL250V) |
| J41 | JUMPER WIRE (PAIR NUMBER SETTING WITH) |
| J42 | WIRELESS REMOTE CONTROLLER) |
| LED1 | POWER SUPPLY (I.B.) |
| LED2 | POWER SUPPLY (WIRED REMOTE CONTROLLER) |
| LED3 | COMMUNICATION (INDOOR-OUTDOOR) |
| SW1 | DIP SWITCH (MODEL SELECTION) Refer to <Table 1> |
| SW2 | DIP SWITCH (CAPACITY CODE) Refer to <Table 2> |
| SW5 | DIP SWITCH (FUNCTION SETTING) Refer to <Table 3> |
| SWE | JUMPER SWITCH (EMERGENCY OPERATION) |
| DP | DRAIN PUMP |
| FS | FLOAT SWITCH |
| MF | FAN MOTOR |
| MV | VANE MOTOR |
| TB4 | TERMINAL BLOCK (INDOOR/OUTDOOR CONNECTING LINE) |
| TB5, TB6 | TERMINAL BLOCK (REMOTE CONTROLLER TRANSMISSION LINE) |
| TH1 | ROOM TEMP. THERMISTOR (0°C/15kΩ, 25°C/5.4kΩ)(32°F/15kΩ, 77°F/5.4kΩ) |
| TH2 | PIPE TEMP. THERMISTOR (LIQUID) (0°C/15kΩ, 25°C/5.4kΩ)(32°F/15kΩ, 77°F/5.4kΩ) |
| TH5 | CONDENSER/EVAPORATOR TEMP. THERMISTOR (0°C/15kΩ, 25°C/5.4kΩ)(32°F/15kΩ, 77°F/5.4kΩ) |
| OPTIONAL PARTS | |
| W.B. | WIRELESS REMOTE CONTROLLER BOARD |
| BZ | BUZZER |
| LED1 | OPERATION (GREEN) |
| LED2 | DEFROST/STAND BY (ORANGE) |
| RU | RECEIVING UNIT |
| SW1 | EMERGENCY OPERATION (HEAT) |
| SW2 | EMERGENCY OPERATION (COOL) |
| MT | i-see Sensor MOTOR |
| R.B. | WIRED REMOTE CONTROLLER |

<Table 1> SW1 (MODEL SELECTION)

| MODEL | SW1 |
|-----------|-----------------------|
| SLZ-AF.NL | ON OFF 1 2 3 4 5 6 |

<Table 2> SW2 (CAPACITY CODE)

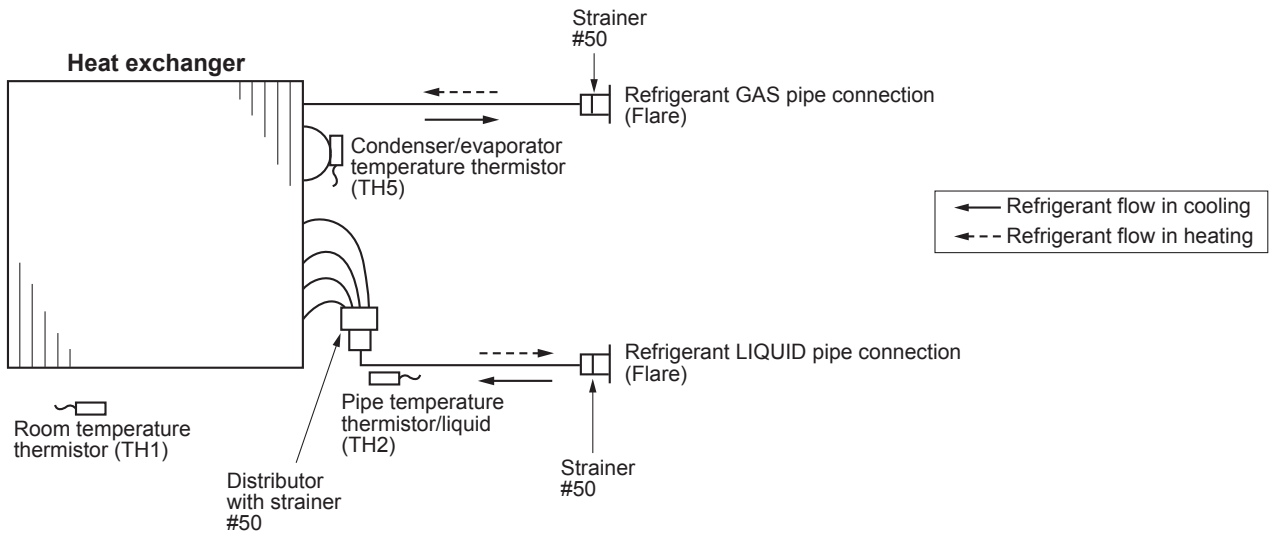
| MODEL | SW2 | MODEL | SW2 |
|-------|---------------------|-------|---------------------|
| 09 | ON OFF 1 2 3 4 5 | 15 | ON OFF 1 2 3 4 5 |
| 12 | ON OFF 1 2 3 4 5 | 18 | ON OFF 1 2 3 4 5 |

<Table 3> SW5 (FUNCTION SETTING)

| MODEL | SW5 |
|-----------|---------------------------|
| SLZ-AF.NL | ON OFF 1 2 3 4 5 6 7 8 |

Turn it off when a remote controller other than PAR-4*MAAUB/CT01MAU is connected.

- NOTES: 1. Since the outdoor side electric wiring may change be sure to check the outdoor unit electric wiring for servicing.
2. Indoor and outdoor connecting wires are made with polarities, make wiring matching terminal numbers (S1, S2, S3).
3. Symbols used in wiring diagram are,
□ □ □ : terminal block, □ □ □ □ □ : connector.
4. For details on how to operate self-diagnosis refer to the technical manuals etc.
5. The black square (■) in the wiring diagram indicates a switch position.



Refrigerant pipe diameter

Unit : mm (in.)

| Item \ Model | SLZ-AF09/12NL | SLZ-AF15/18NL |
|--------------|---------------|---------------|
| Gas pipe | Ø9.52 (3/8) | Ø12.7 (1/2) |
| Liquid pipe | Ø6.35 (1/4) | Ø6.35 (1/4) |

8-1. TROUBLESHOOTING

<Check code displayed by self-diagnosis and actions to be taken for service (summary)>

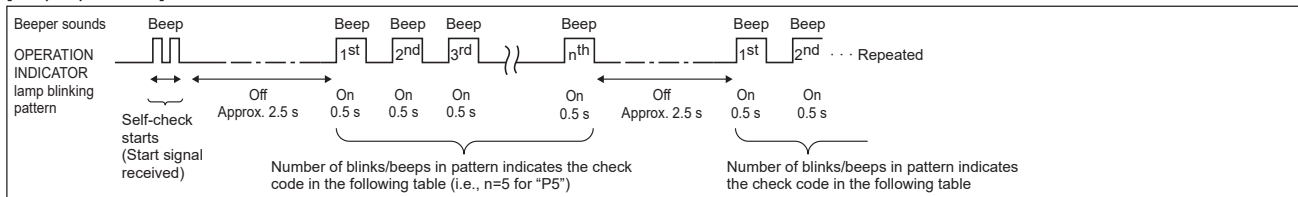
Present and past check codes are logged, and they can be displayed on the wired remote controller or controller board of outdoor unit. Actions to be taken for service, which depends on whether or not the trouble is reoccurring in the field, are summarized in the table below. Check the contents below before investigating details.

| Unit conditions at service | Check code | Actions to be taken for service (summary) |
|---------------------------------|---------------|---|
| The trouble is reoccurring. | Displayed | Judge what is wrong and take a corrective action according to "8-3. SELF-DIAGNOSIS ACTION TABLE". |
| | Not displayed | Conduct troubleshooting and ascertain the cause of the trouble according to "8-4. TROUBLESHOOTING OF PROBLEMS". |
| The trouble is not reoccurring. | Logged | <ol style="list-style-type: none"> ① Consider the temporary defects such as the work of protection devices in the refrigerant circuit including compressor, poor connection of wiring, noise, etc. Re-check the symptom, and check the installation environment, refrigerant amount, weather when the trouble occurred, matters related to wiring, etc. ② Reset check code logs and restart the unit after finishing service. ③ There is no abnormality in electrical component, controller board, remote controller, etc. |
| | Not logged | <ol style="list-style-type: none"> ① Re-check the abnormal symptom. ② Conduct troubleshooting and ascertain the cause of the trouble according to "8-4. TROUBLESHOOTING OF PROBLEMS". ③ Continue to operate unit for the time being if the cause is not ascertained. ④ There is no abnormality concerning of parts such as electrical component, controller board, remote controller, etc. |

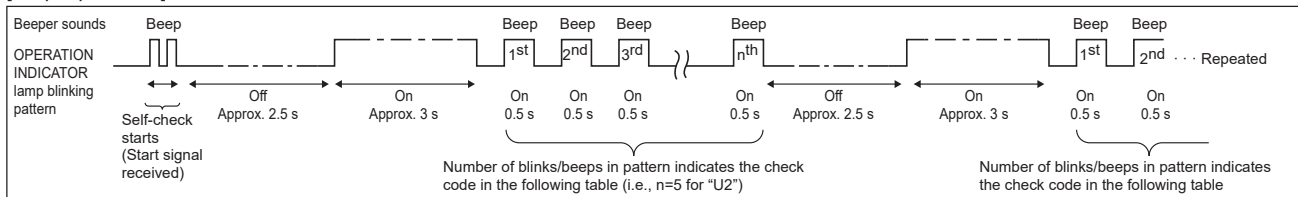
8-2. MALFUNCTION-DIAGNOSIS METHOD BY REMOTE CONTROLLER

Refer to "13-7. SELF-DIAGNOSIS" to search for the error history.

[Output pattern A]



[Output pattern B]



[Output pattern A] Errors detected by indoor unit

| Wireless remote controller Beeper sounds/OPERATION INDICATOR lamp blinks (Number of times) | Wired remote controller Check code | Symptom | Remark |
|---|--|---|--------|
| 1 | P1 | Intake sensor error | |
| 2 | P2, P9 | Pipe (liquid or 2-phase pipe) sensor error | |
| 3 | E6, E7 | Indoor/outdoor unit communication error | |
| 4 | P4 | Float switch connector open | |
| 5 | P5 | Drain pump error | |
| | PA | Forced compressor error | |
| 6 | P6 | Freezing (during cooling operation)/Overheating protection operation (during heating operation) | |
| 7 | EE | Assembly error (system error) | |
| 8 | P8 | Pipe temperature error | |
| 9 | E4, E5 | Communication error between wired remote controller and indoor unit | |
| 10 | — | — | |
| 11 | PB(Pb) | Indoor unit fan motor error | |
| 12 | FB(Fb) | Indoor unit control system error (memory error, etc.) | |
| | FL | Refrigerant leakage | |
| | FH | Refrigerant sensor error | |
| 14 | PL | Refrigerant circuit abnormal | |
| No sound | E0, E3 | Remote controller transmission error | |
| No sound | E1, E2 | Remote controller control board error | |
| No sound | — — — — | No corresponding | |

[Output pattern B] Errors detected by unit other than indoor unit (outdoor unit, etc.)

Note: The supported check codes may vary depending on the connected outdoor unit.

| Wireless remote controller Beeper sounds/OPERATION INDICATOR lamp blinks (Number of times) | Wired remote controller Check code | Symptom | Remark |
|---|--|--|---|
| 1 | E9 | Indoor/outdoor unit communication error | For details, check the LED display of the outdoor controller board. |
| 2 | UP | Compressor overcurrent interruption | |
| 3 | U3, U4 | Open/short of outdoor unit thermistors | |
| 4 | UF | Compressor overcurrent interruption (When compressor locked) | |
| 5 | U2 | Abnormal high discharging temperature/49C worked/insufficient refrigerant | |
| 6 | U1, Ud | Abnormal high pressure (63H worked)/Overheating protection operation | |
| 7 | U5 | Abnormal temperature of heat sink | |
| 8 | U8 | Outdoor unit fan protection stop | |
| 9 | U6 | Compressor overcurrent interruption/Abnormal of power module | |
| 10 | U7 | Abnormality of super heat due to low discharge temperature | |
| 11 | U9, UH | Abnormality such as overvoltage or voltage shortage and abnormal synchronous signal to main circuit/Current sensor error | |
| 12 | — | — | |
| 13 | — | — | |
| 14 | Others | Other errors (Refer to the technical manual for the outdoor unit.) | |
| | FL | Refrigerant leakage or Refrigerant sensor error caused by other rooms | |

Notes:

- If the beeper does not sound again after the initial 2 beeps to confirm the self-check start signal was received and the OPERATION INDICATOR lamp does not come on, there are no error records.
- If the beeper sounds 3 times continuously "beep, beep, beep (0.4 + 0.4 + 0.4 seconds)" after the initial 2 beeps to confirm the self-check start signal was received, the specified refrigerant address is incorrect.
 - On wireless remote controller
The continuous buzzer sounds from receiving section of indoor unit.
Blink of operation lamp
 - On wired remote controller
Check code displayed in the LCD.

Continued to the next page

- If the unit cannot be operated properly after test run, refer to the following table to find the cause.

| Symptom | | | Cause |
|--|--|---|--|
| Wired remote controller | | LED 1, 2 (PCB in outdoor unit) | |
| Please Wait | For about 3 minutes after power-on | After LED 1, 2 are lit, LED 2 is turned off, then only LED 1 is lit. (Correct operation) | • For about 3 minutes following power-on, operation of the remote controller is not possible due to system startup. (Correct operation) |
| Please Wait → Check code | Subsequent to about 3 minutes after power-on | Only LED 1 is lit. → LED 1, 2 blink. | • Connector for the outdoor unit's protection device is not connected. • Reverse or open phase wiring for the outdoor unit's power terminal block (L1, L2, GR). |
| Display messages do not appear even when operation switch is turned ON (operation lamp does not light up). | | Only LED 1 is lit. → LED 1 blinks twice, LED 2 blinks once. | • Incorrect wiring between indoor and outdoor units (incorrect polarity of S1, S2, S3) • Remote controller wire short |

On the wireless remote controller with condition above, following phenomena take place.

- No signals from the remote controller can be received.
- Operation lamp is blinking.
- The buzzer makes a short ping sound.

Note:

Operation is not possible for about 30 seconds after cancellation of function selection. (Correct operation)

For description of each LED (LED1, 2, 3) provided on the indoor controller, refer to the following table.

| | |
|---|--|
| LED1 (power for microprocessor) | Indicates whether control power is supplied. Make sure that this LED is always lit. |
| LED2 (power for remote controller) | Indicates whether power is supplied to the remote controller. This LED lights only in the case of the indoor unit which is connected to the outdoor unit refrigerant addresses "0". |
| LED3 (communication between indoor and outdoor units) | Indicates state of communication between the indoor and outdoor units. Make sure that this LED is always blinking. |

Note: Errors to be detected in outdoor unit, such as codes starting with F, U or E (excluding E0 to E7), are not covered in this document. Please refer to the outdoor unit's service manual for the details.

8-3. SELF-DIAGNOSIS ACTION TABLE

| Check code | Abnormal point and detection method | Cause | Countermeasure |
|------------|---|---|---|
| P1 | Room temperature thermistor (TH1) ① The unit is in 3-minute resume prevention mode if short/open of thermistor is detected. Abnormal if the unit does not reset normally after 3 minutes. (The unit returns to normal operation, if it has been reset normally.) ② Constantly detected during cooling, drying and heating operation Short: 90°C [194°F] or more Open: -40°C [-40°F] or less | ① Defective thermistor characteristics ② Contact failure of connector (CN20) on the indoor controller board (Insert failure) ③ Breaking of wire or contact failure of thermistor wiring ④ Defective indoor controller board | ①—③ Check resistance value of thermistor. 0°C [32°F]...15.0 kΩ 10°C [50°F].....9.6 kΩ 20°C [68°F].....6.3 kΩ 30°C [86°F].....4.3 kΩ 40°C [104°F].....3.0 kΩ If you put force on (draw or bend) the lead wire with measuring resistance value of thermistor, breaking of wire or contact failure can be detected. ② Check contact failure of connector (CN20) on the indoor controller board. Refer to "8-5. TEST POINT DIAGRAM". Turn the power back on and check restart after inserting connector again. ④ Check room temperature display on remote controller. Replace indoor controller board if there is abnormal difference with actual room temperature. Turn the power off, and on again to operate after checking. |
| P2 | Pipe temperature thermistor/Liquid (TH2) ① The unit is in 3-minute resume prevention mode if short/open of thermistor is detected. Abnormal if the unit does not reset normally after 3 minutes. (The unit returns to normal operation, if it has been reset normally.) ② Constantly detected during cooling, drying, and heating (except defrosting) operation. Short: 90°C [194°F] or more Open: -40°C [-40°F] or less | ① Defective thermistor characteristics ② Contact failure of connector (CN44) on the indoor controller board (Insert failure) ③ Breaking of wire or contact failure of thermistor wiring ④ Defective refrigerant circuit is causing thermistor temperature of 90°C [194°F] or more or -40°C [-40°F] or less. ⑤ Defective indoor controller board | ①—③ Check resistance value of thermistor. For characteristics, refer to (P1) above. ② Check contact failure of connector (CN44) on the indoor controller board. Refer to "8-5. TEST POINT DIAGRAM". Turn the power on and check restart after inserting connector again. ④ Check pipe <liquid> temperature with remote controller in test run mode. If pipe <liquid> temperature is extremely low (in cooling mode) or high (in heating mode), refrigerant circuit may have defect. ⑤ Check pipe <liquid> temperature with remote controller in test run mode. If there is extreme difference with actual pipe <liquid> temperature, replace indoor controller board. Turn the power off, and on again to operate after checking. |
| P4 | Contact failure of drain float switch (CN4F) • Extract when the connector of drain float switch is disconnected. (③ and ④ of connector CN4F is not short-circuited.) • Constantly detected during operation | ① Contact failure of connector (Insert failure) ② Defective indoor controller board | ① Check contact failure of float switch connector. Turn the power on again and check after inserting connector again. ② Operate with connector (CN4F) short-circuited. Replace indoor controller board if abnormality reappears. |
| P5 | Drain overflow protection operation ① Suspected abnormality, if drain float switch is detected to be underwater for 1 minute and 30 seconds continuously with drain pump on. Compressor and indoor fan will be turned off. ② Drain pump is abnormal if the condition above is detected during suspensive abnormality. ③ Constantly detected during drain pump operation | ① Malfunction of drain pump ② Defective drainage Clogged drain pump Clogged drain pipe ③ Defective drain float switch Catch of the drain float switch or malfunction of moving parts caus drain float switch to be detected under water (Switch on) ④ Defective indoor controller board | ① Check if drain-up machine works. ② Check drain function. ③ Remove drain float switch connector CN4F and check if it is short (Switch on) with the moving part of float switch UP, or OPEN with the moving part of float switch down. Replace float switch if it is short with the moving part of float switch down. ④ Replace indoor controller board if it is short-circuited between ③—④ of the drain float switch connector CN4F and abnormality reappears. It is not abnormal if there is no problem about the above-mentioned ①—④. Turn the power off, and on again to operate after check. |

*1: only P-series outdoor unit

| Check code | Abnormal point and detection method | Cause | Countermeasure |
|------------|---|--|---|
| P5 | Drain pump lock protection operation ① Suspected abnormality, if drain pump stops for 5 seconds continuously with drain pump on. Drain pump will be restarted after turning off for 10 seconds. ② Drain pump is abnormal if the condition above is detected 4 times during operation. | ① Malfunction of drain pump ② Clogged drain pump ③ Disconnected drain pump ④ Defective indoor controller board | ①② Check if drain pump works. ③ Check if connector (CNP) is connected. ④ Turn the emergency operation switch (SWE) on and check the voltage between CNP ①-③. • Replace drain pump if the output is 13 VDC. • Replace indoor controller board if the output is under 13 VDC. |
| P6 | Freezing/overheating protection is operating ① Freezing protection (Cooling mode) The unit is in 6-minute resume prevention mode if pipe <liquid or condenser/evaporator> temperature stays under -15°C [5°F] for 3 minutes after the compressor started. Abnormal if it stays under -15°C [5°F] for 3 minutes again within 16 minutes after 6-minute resume prevention mode. Overheating protection (Heating mode) The units is in 6-minute resume prevention mode if pipe <condenser/evaporator> temperature is detected as over 70°C [158°F] after the compressor started. Abnormal if the temperature of over 70°C [158°F] is detected again within 30 minutes after 6-minute resume prevention mode. | (Cooling or drying mode) ① Clogged filter (reduced airflow) ② Short cycle of air path ③ Low-load (low temperature) operation out of the tolerance range ④ Defective indoor fan motor • Fan motor is defective. • Indoor controller board is defective. ⑤ Defective outdoor fan control ⑥ Overcharge of refrigerant ⑦ Defective refrigerant circuit (clogging) (Heating mode) ① Clogged filter (reduced airflow) ② Short cycle of air path ③ Overload (high temperature) operation out of the tolerance range ④ Defective indoor fan motor • Fan motor is defective. • Indoor controller board is defective. ⑤ Defective outdoor fan control ⑥ Overcharge of refrigerant ⑦ Defective refrigerant circuit (restriction) ⑧ Bypass circuit of outdoor unit is defective. | (Cooling or drying mode) ① Check cleanliness of the filter. ② Remove blockage. ④ Refer to "8-7-2. DC Fan Motor (Fan Motor / Indoor Controller Board)". ⑤ Check outdoor fan motor. ⑥⑦ Check operating condition of refrigerant circuit. (Heating mode) ① Check cleanliness of the filter. ② Remove blockage. ④ Refer to "8-7-2. DC Fan Motor (Fan Motor / Indoor Controller Board)". ⑤ Check outdoor fan motor. ⑥-⑧ Check operating condition of refrigerant circuit. |
| P8 | Pipe temperature <Cooling mode> Detected as abnormal when the pipe temperature is not in the cooling range 3 minutes after compressor start and 6 minutes after the liquid or condenser/evaporator pipe is out of cooling range. Note 1: It takes at least 9 minutes to detect. Note 2: Abnormality P8 is not detected in drying mode. Cooling range: -3°C [-5.4°F] (TH-TH1) TH: Lower temperature between liquid pipe temperature (TH2) and condenser/evaporator temperature (TH5) TH1: Intake temperature <Heating mode> When 10 seconds have passed after the compressor starts operation and the hot adjustment mode has finished, the unit is detected as abnormal when condenser/evaporator pipe temperature is not in heating range within 20 minutes. Note 3: It takes at least 27 minutes to detect abnormality. Note 4: It excludes the period of defrosting (Detection restarts when defrosting mode is over) Heating range: -3°C [5.4°F] (TH5-TH1) | ① Slight temperature difference between indoor room temperature and pipe <liquid or condenser/evaporator> temperature thermistor • Shortage of refrigerant • Disconnected holder of pipe <liquid or condenser/evaporator> thermistor • Defective refrigerant circuit ② Reverse connection of extension pipe (on plural units connection) ③ Reverse wiring of indoor/outdoor unit connecting wire (on plural units connection) ④ Defective detection of indoor room temperature and pipe <condenser/evaporator> temperature thermistor ⑤ Stop valve is not opened completely. | ①-④ Check pipe <liquid or condenser/evaporator> temperature with room temperature display on remote controller and outdoor controller circuit board. Pipe <liquid or condenser/evaporator> temperature display is indicated by setting SW2 of outdoor controller circuit board as follows. *1 (Conduct temperature check with outdoor controller circuit board after connecting 'A-Control Service Tool (PAC-SK52ST)'.) ②③ Check converse connection of extension pipe or converse wiring of indoor/outdoor unit connecting wire. |

*1: only P-series outdoor unit

| Check code | Abnormal point and detection method | Cause | Countermeasure |
|-------------------------|--|---|--|
| P9 | Pipe temperature thermistor/Condenser/Evaporator (TH5) ① The unit is in 3-minute resume protection mode if short/open of thermistor is detected. Abnormal if the unit does not get back to normal within 3 minutes. (The unit returns to normal operation, if it has been reset normally.) ② Constantly detected during cooling, drying, and heating operation (except defrosting) Short: 90°C [194°F] or more Open: -40°C [-40°F] or less | ① Defective thermistor characteristics ② Contact failure of connector (CN44) on the indoor controller board (Insert failure) ③ Breaking of wire or contact failure of thermistor wiring ④ Temperature of thermistor is 90°C [194°F] or more or -40°C [-40°F] or less caused by defective refrigerant circuit. ⑤ Defective indoor controller board | ①—③ Check resistance value of thermistor. For characteristics, refer to (P1). ② Check contact failure of connector (CN44) on the indoor controller board. Refer "8-5. TEST POINT DIAGRAM". Turn the power on and check restart after inserting connector again. ④ Operate in test run mode and check pipe <condenser/evaporator> temperature with outdoor controller circuit board. If pipe <condenser/evaporator> temperature is extremely low (in cooling mode) or high (in heating mode), refrigerant circuit may have defect. ⑤ Operate in test run mode and check pipe <condenser/evaporator> temperature with outdoor control circuit board. If there is extreme difference with actual pipe <condenser/evaporator> temperature replace indoor controller board. There is no abnormality if none of the above comes within the unit. Turn the power off and on again to operate. *1 (In case of checking pipe temperature with outdoor controller circuit board, be sure to connect A-control service tool (PAC-SK52ST).) |
| PL | Abnormal refrigerant circuit During Cooling, Drying, or Auto Cooling operation, the following conditions are regarded as failures when detected for 1 second. a) The compressor continues to run for 30 or more seconds. b) The liquid pipe temperature (TH2) or the condenser/evaporator temperature (TH5) is 75°C [167°F] or more. <u>These detected errors will not be cancelled until the power source is reset.</u> | ① Abnormal operation of 4-way valve ② Disconnection of or leakage in refrigerant pipes ③ Air into refrigerant piping ④ Abnormal operation (no rotation) of indoor fan · Defective fan motor · Defective indoor control board ⑤ Defective refrigerant circuit (restriction) | ① <u>When this error occurs, be sure to replace the 4-way valve.</u> ② Check refrigerant pipes for disconnection or leakage. ③ After the recovery of refrigerant, vacuum dry the whole refrigerant circuit. ④ Refer to section "8-7. TROUBLESHOOTING OF MAIN PARTS". ⑤ Check refrigerant circuit for operation. <u>To avoid entry of moisture or air into refrigerant circuit which could cause abnormal high pressure, purge air in refrigerant circuit or replace refrigerant.</u> |
| E0 or E4 (6831 or 6834) | Remote controller transmission error(E0)/signal receiving error(E4) ① Abnormal if main or sub remote controller cannot receive any transmission normally from indoor unit of refrigerant address "0" for 3 minutes. (Check code : E0) ② Abnormal if sub-remote controller could not receive for any signal for 2 minutes. (Check code: E0) ① Abnormal if indoor controller board cannot receive normally any data from remote controller board or from other indoor controller board for 3 minutes. (Check code: E4) ② Indoor controller board cannot receive any signal from remote controller for 2 minutes. (Check code: E4) | ① Contact failure at transmission wire of remote controller ② All remote controllers are set as "sub" remote controller. In this case, E0 is displayed on remote controller, and E4 is displayed at LED (LED1, LED2) on the outdoor controller circuit board. ③ Miswiring of remote controller ④ Defective transmitting/receiving circuit of remote controller ⑤ Defective transmitting/receiving circuit of indoor controller board of refrigerant address "0" ⑥ Noise has entered into the transmission wire of remote controller. | ① Check disconnection or looseness of indoor unit or transmission wire of remote controller. ② Set one of the remote controllers "main", if there is no problem with the action above. ③ Check wiring of remote controller. • Total wiring length: max. 500 m (Do not use cables with 3 cores or more. Do not use shielded wires.) • The number of connecting indoor units: max. 16 units • The number of connecting remote controller: max. 2 units When two units are connected, the total wiring length shall not exceed 200 m. If the cause of trouble is not in above ①—③, ④ Diagnose remote controllers. a) When "OK" is displayed, remote controllers have no problem. Turn the power off, and on again to check. If abnormality generates again, replace indoor controller board. b) When "NG" is displayed, replace remote controller. c) When "E3" or "ERC" is displayed, noise may be causing abnormality. |

| Check code | Abnormal point and detection method | Cause | Countermeasure |
|--|--|--|--|
| E3 or E5 (6832 or 6833) | Remote controller transmission error(E3)/ signal receiving error(E5) ① Abnormal if remote controller could not find blank of transmission path for 6 seconds and could not transmit. (Check code: E3) ② Remote controller receives transmitted data at the same time, compares the data, and when detecting it, judges different data to be abnormal 30 continuous times. (Check code: E3) ① Abnormal if indoor controller board could not find blank of transmission path. (Check code: E5) ② Indoor controller board receives transmitted data at the same time, compares the data, and when detecting it, judges different data to be abnormal 30 continuous times. (Check code: E5) | ① 2 remote controllers are set as "main." (In case of 2 remote controllers) ② Remote controller is connected with 2 indoor units or more. ③ Repetition of refrigerant address ④ Defective transmitting/receiving circuit of remote controller ⑤ Defective transmitting/receiving circuit of indoor controller board ⑥ Noise has entered into transmission wire of remote controller. | ① Set a remote controller to main, and the other to sub. ② Remote controller is connected with only one indoor unit. ③ The address changes to a separate setting. ④–⑥ Diagnose remote controller. a) When "OK" is displayed, remote controllers have no problem. Turn the power off, and on again to check. When becoming abnormal again, replace indoor controller board. b) When "NG" is displayed, replace remote controller. c) When "E3" or "ERC" is displayed, noise may be causing abnormality. |
| E6 | Indoor/outdoor unit communication error (Signal receiving error) ① Abnormal if indoor controller board cannot receive any signal normally for 6 minutes after turning the power on. ② Abnormal if indoor controller board cannot receive any signal normally for 3 minutes. ③ Consider the unit abnormal under the following condition: When 2 or more indoor units are connected to one outdoor unit, indoor controller board cannot receive a signal for 3 minutes from outdoor controller circuit board, a signal which allows outdoor controller circuit board to transmit signals. | ① Contact failure, short circuit or, miswiring (converse wiring) of indoor/outdoor unit connecting wire ② Defective transmitting/receiving circuit of indoor controller board ③ Defective transmitting/receiving circuit of indoor controller board ④ Noise has entered into indoor/outdoor unit connecting wire. | ① Check disconnection or looseness of indoor/outdoor unit connecting wire of indoor unit or outdoor unit. Check all the units in case of twin indoor unit system. ②–④ Turn the power off, and on again to check. If abnormality generates again, replace indoor controller board or outdoor controller circuit board. Note: Other indoor controller board may have defect in case of twin indoor unit system. |
| E7 | Indoor/outdoor unit communication error (Transmitting error) Abnormal if "1" receiving is detected 30 times continuously though indoor controller board has transmitted "0". | ① Defective transmitting receiving circuit of indoor controller board ② Noise has entered into power supply. ③ Noise has entered into outdoor control wire. | ①–③ Turn the power off, and on again to check. If abnormality generates again, replace indoor controller board. |
| FB (Fb) | Indoor controller board Abnormal if data cannot be normally read from the nonvolatile memory of the indoor controller board. | ① Defective indoor controller board | ① Replace indoor controller board. *The check code in the parenthesis indicates PAR-42MAAUB model. |
| FH | Refrigerant sensor error Abnormal if refrigerant sensor cannot detect errors normally. | ① The refrigerant sensor mounted on the indoor unit does not work. ② The refrigerant sensor is not connected properly or the wire is broken. | ①② Turn the power off, check the connection of some parts such as connectors and turn the power on again. When the error has not been cleared, replace the refrigerant sensor. |
| FL | Refrigerant leakage Abnormal if refrigerant leakage detected by a refrigerant sensor. | ① Refrigerant leaks from the piping or the heat exchanger in the indoor unit. ② The following items are used around the indoor unit. • Spray (LP gas including Freon, and whose main ingredient is propane and butane) • Aerosol insecticide (including ethanol) • Air spray painting (including dichloromethane) • Charcoal (charcoal fire) • Chemicals (such as ethanol) ③ Refrigerant leaks from piping or heat exchangers, or sensor errors in indoor units in other rooms. | • Turn off the power after FAN operation is finished. (FAN operation continues for 8 hours.) • Check the indoor unit to detect the part where refrigerant leaks. • Repair the part where refrigerant leaks. • Turn on the power again. • Replace the refrigerant sensor if the problem is not fixed. |

| Check code | Abnormal point and detection method | Cause | Countermeasure |
|--|--|---|---|
| E1 or E2 (6201 or 6202) | Remote controller control board ① Abnormal if data cannot be normally read from the nonvolatile memory of the remote controller control board.(Check code: E1) ② Abnormal if the clock function of remote controller cannot be normally operated. (Check code: E2) | ① Defective remote controller | ① Replace remote controller. |
| PA | Forced compressor stop (due to water leakage abnormality) ① The unit has a water leakage abnormality when the following conditions, a) and b), are satisfied while the above-mentioned detection is performed. a) The intake temperature subtracted with liquid pipe temperature detects to be less than -10°C [14°F] for a total of 30 minutes. (When the drain float switch is detected to be NOT soaked in the water, the detection record of a) and b) will be cleared.) b) Drain float switch detects to be in the water for more than 15 minutes. Note: Once the water leakage abnormality is detected, abnormality state will not be released until the main power is reset. | ① Drain pump trouble ② Drain defective · Drain pump clogging · Drain pipe clogging ③ Open circuit of float switch ④ Contact failure of float switch connector ⑤ Dew condensation on float switch · Drain water trickles down lead wire · Drain water ripples due to filter being clogged ⑥ Extension piping connection difference at twin, triple or quadruple system ⑦ Miswiring of indoor/outdoor connecting at twin, triple, quadruple system ⑧ Room temperature thermistor/ liquid pipe temperature thermistor detection is defective. | ① Check the drain pump. ② Check whether water can be drained. ③ Check the resistance of the float switch. ④ Check the connector contact failure. ⑤ Check the float switch leadwire mounted. Check the filter cleanliness. ⑥ Check the piping connection. ⑦ Check the indoor/outdoor connecting wires. ⑧ Check the room temperature display of remote controller. Check the indoor liquid pipe temperature display of outdoor controller board. |
| PB(Pb) | Fan motor trouble | ① Defective fan motor ② Defective indoor controller board ③ Contact failure of fan motor connector | ①-③ Refer to "8-7-2. DC Fan Motor (Fan Motor/Indoor Controller Board)". |

8-4. TROUBLESHOOTING OF PROBLEMS

Note: Refer to the manual of outdoor unit for the detail of remote controller.

*1: only P-series outdoor unit

| Phenomena | Cause | Countermeasure |
|---|---|---|
| (1) LED2 on indoor controller board is off. | <ul style="list-style-type: none"> When LED1 on indoor controller board is also off. <ol style="list-style-type: none"> ① Power supply of rated voltage is not supplied to outdoor unit. ② Defective outdoor controller circuit board ③ Power supply of 208/230 V is not supplied to indoor unit. ④ Defective indoor controller board | <ol style="list-style-type: none"> ① Check the voltage of outdoor power supply terminal block (L1, L2). <ul style="list-style-type: none"> When 208/230 V is not detected, check the power wiring to outdoor unit and the breaker. When 208/230 VAC is detected, check ② (below). ② Check the voltage between outdoor terminal block S1 and S2. <ul style="list-style-type: none"> When 208/230 VAC is not detected, —check the fuse on outdoor controller circuit board. —check the wiring connection. When 208/230 VAC is detected, check ③ (below). ③ Check the voltage between indoor terminal block S1 and S2. <ul style="list-style-type: none"> When 208/230 VAC is not detected, check indoor/outdoor unit connecting wire for miswiring. When 208/230 VAC is detected, check ④ (below). ④ Check the wiring connection between TB4 and CN01. Check the fuse on indoor controller board. If no problems are found, indoor controller board is defective. |
| | <ul style="list-style-type: none"> When LED1 on indoor controller board is lit. <ol style="list-style-type: none"> ① Mis-setting of refrigerant address for outdoor unit (There is no unit corresponding to refrigerant address "0".) *1 | <ol style="list-style-type: none"> ① Check the setting of refrigerant address for outdoor unit. Set the refrigerant address to "0". (For grouping control system under which 2 or more outdoor units are connected, set one of the units to "0".) Set refrigerant address using SW1 (3-6) on outdoor controller circuit board. *1 |
| (2) LED2 on indoor controller board is blinking. | <ul style="list-style-type: none"> When LED1 on indoor controller board is also blinking. Connection failure of indoor/outdoor unit connecting wire When LED1 is lit <ol style="list-style-type: none"> ① Miswiring of remote controller wires Under twin indoor unit system, 2 or more indoor units ② Refrigerant address for outdoor unit is wrong or not set. Under grouping control system, there are some units whose refrigerant address is 0. *1 ③ Short-cut of remote controller wires ④ Defective remote controller | <p>Check indoor/outdoor unit connecting wire for connection failure.</p> <ol style="list-style-type: none"> ① Check the connection of remote controller wires in case of twin triple indoor unit system. When 2 or more indoor units are wired in one refrigerant system, connect remote controller wires to one of those units. ② Check the setting of refrigerant address in case of grouping control system. If there are some units whose refrigerant addresses are 0 in one group, set one of the units to 0 using SW1 (3-6) on outdoor controller circuit board. *1 ③④ Remove remote controller wires and check LED2 on indoor controller board. <ul style="list-style-type: none"> When LED2 is blinking, check the condition of the remote controller wires, to see if they are shorted. When LED2 is lit, connect remote controller wires again and: if LED2 is blinking, remote controller is defective; if LED2 is lit, connection failure of remote controller terminal block, etc. has returned to normal. |

Note: Refer to the outdoor unit's service manual for the detail of remote controller.

| Phenomena | Cause | Countermeasure |
|---|---|--|
| (3) Upward/downward vane performance failure | ① The vane is not downward during defrosting and heat preparation and when the thermostat is OFF in HEAT mode. (Working of COOL protection function) ② Vane motor does not rotate. • Defective vane motor • Breaking of wire or connection failure of connector ③ Upward/downward vane does not work. • The vane is set to fixed position. | ① Normal operation (The vane is set to horizontal regardless of remote control.) ② Check ② (left). • Check the vane motor. (Refer to 9-6.HOW TO CHECK THE PARTS.) • Check for breaking of wire or connection failure of connector. ③ Normal operation (Each connector on vane motor side is disconnected or setting the fixed vanes by wired remote controller.) |
| (4) Receiver for wireless remote controller | ① Weak batteries of wireless remote controller ② Contact failure of connector (CNB) on wireless remote controller board (Insert failure) ③ Contact failure of connector (CN90) on indoor controller board (Insert failure) ④ Contact failure of connector between wireless remote controller board and indoor controller board | ① Replace batteries of wireless remote controller. ②—④ Check contact failure of each connector. If no problems are found of connector, replace indoor controller board. When the same trouble occurs even if indoor controller board is replaced, replace wireless remote controller board. |

(FL): Refrigerant leakage

Abnormal points and detection methods

Refrigerant is leaking from the air conditioner.
The refrigerant sensor has detected refrigerant leak.
Refrigerant is leaking in the room where the alarm is beeping. (Optional)
A refrigerant sensor has failed.

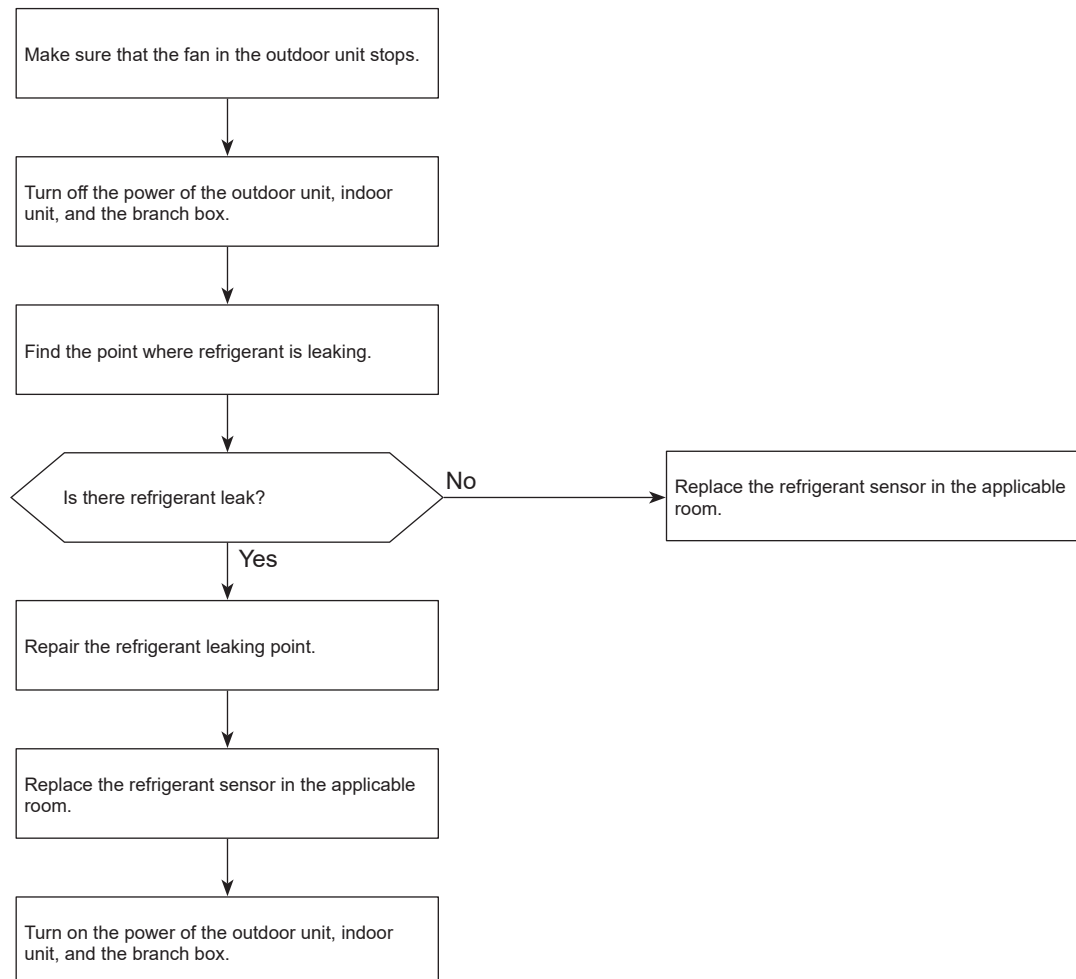
Causes and checkpoints

- Refrigerant leak from air conditioner
- Refrigerant leak from piping
- False detection (The refrigerant sensor reacted to other gas.)

Notes:

- When this error occurs, both of the alarm in the applicable room and the supervisor mode alarm beep. Also, the system closes the shut-off valve and performs refrigerant recovery.
- When this error occurs, ventilate the room.
- When this error occurs, do not turn off the power until the fan in the outdoor unit stops.

Diagnosis of failure



(FH): Refrigerant sensor error

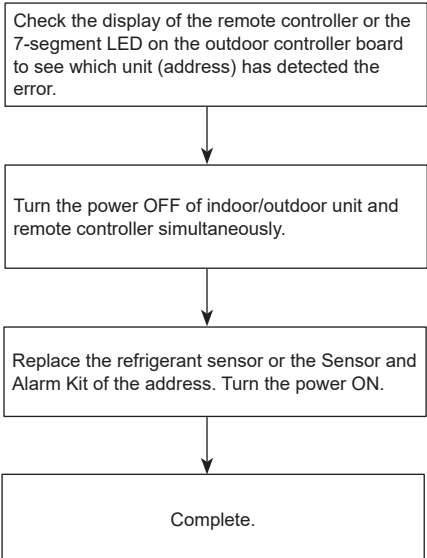
Abnormal points and detection methods

A refrigerant sensor has failed.

Causes and checkpoints

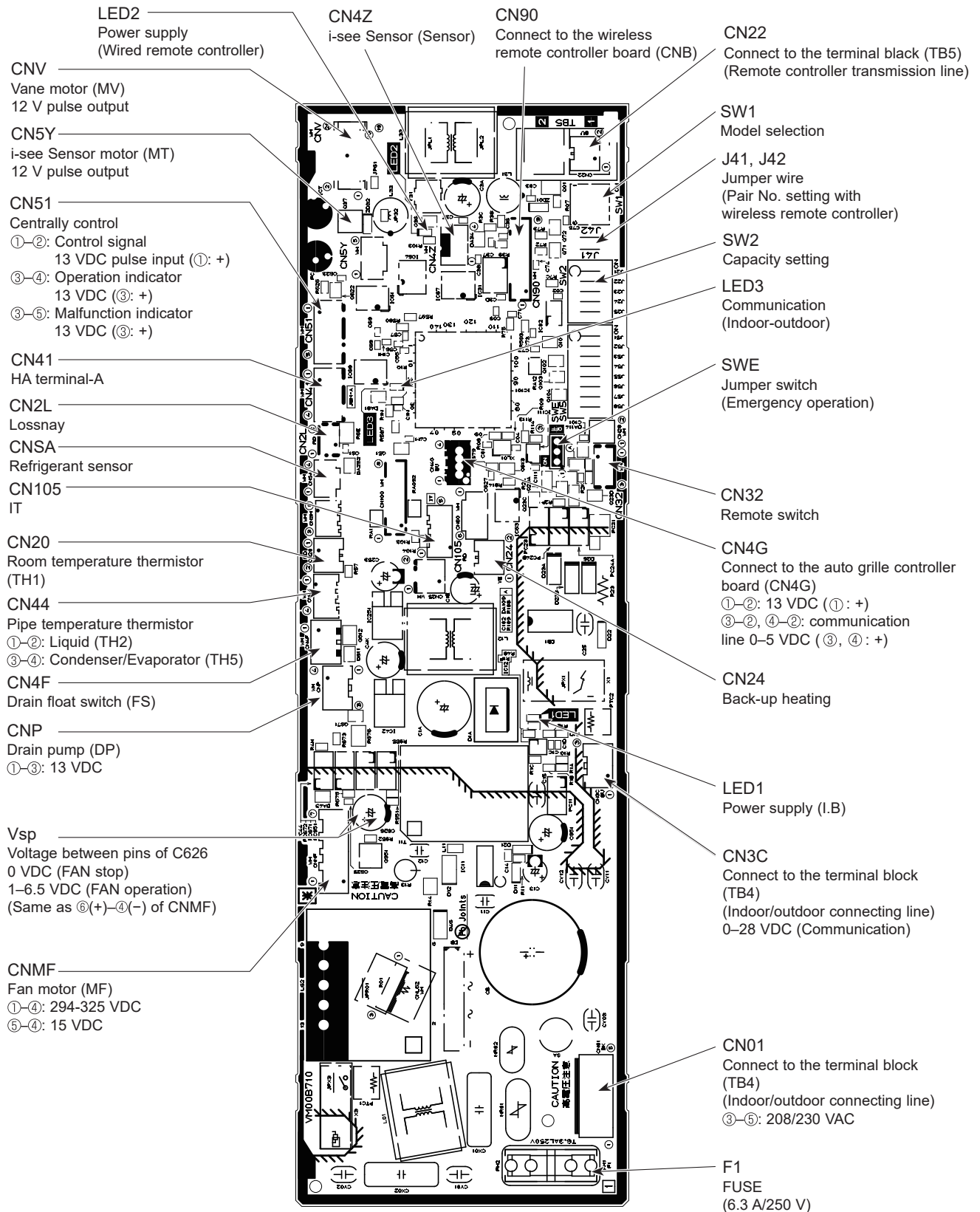
- A refrigerant sensor connected to an M-IC has failed.
- A Sensor and Alarm Kit connected to a branch box has failed.

Diagnosis of failure



8-5. TEST POINT DIAGRAM

Indoor controller board



8-6. FUNCTION OF DIP SWITCH

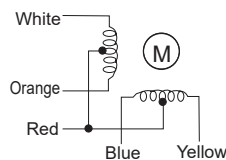
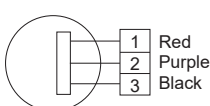
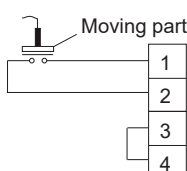
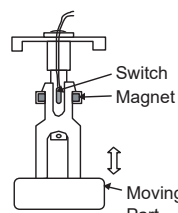
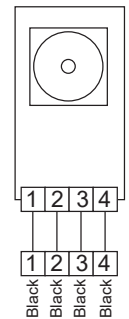
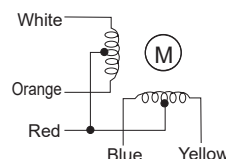
Each function is controlled by the DIP switch on the indoor controller board.

Model setting and capacity setting are preset in the nonvolatile memory of the indoor controller board.

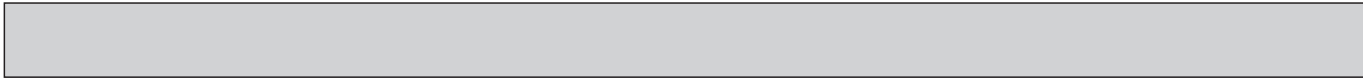
The black square (■) indicates a switch position.

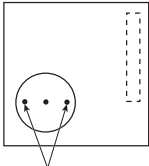
| Switch Jumper wire | Functions | Setting by the DIP switch and jumper wire | Remarks | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| SW1 | Model settings | <table><tr><td>MODEL</td><td>SW1</td></tr><tr><td>SLZ- AF.NL</td><td><table><tr><td><div><div></div><div></div><div></div><div></div><div></div><div></div></div></td><td>ON OFF</td></tr><tr><td></td><td>1 2 3 4 5 6</td></tr></table></td></tr></table> | MODEL | SW1 | SLZ- AF.NL | <table><tr><td><div><div></div><div></div><div></div><div></div><div></div><div></div></div></td><td>ON OFF</td></tr><tr><td></td><td>1 2 3 4 5 6</td></tr></table> | <div><div></div><div></div><div></div><div></div><div></div><div></div></div> | ON OFF | | 1 2 3 4 5 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MODEL | SW1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SLZ- AF.NL | <table><tr><td><div><div></div><div></div><div></div><div></div><div></div><div></div></div></td><td>ON OFF</td></tr><tr><td></td><td>1 2 3 4 5 6</td></tr></table> | <div><div></div><div></div><div></div><div></div><div></div><div></div></div> | ON OFF | | 1 2 3 4 5 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| SW2 | Capacity settings | <table><tr><td>MODEL</td><td>SW2</td><td>MODEL</td><td>SW2</td></tr><tr><td>09</td><td><table><tr><td><div><div></div><div></div><div></div><div></div><div></div></div></td><td>ON OFF</td><td><table><tr><td><div><div></div><div></div><div></div><div></div><div></div></div></td><td>ON OFF</td></tr><tr><td></td><td>1 2 3 4 5</td><td></td><td>1 2 3 4 5</td></tr></table></td><td>15</td><td><table><tr><td><div><div></div><div></div><div></div><div></div><div></div></div></td><td>ON OFF</td><td><table><tr><td><div><div></div><div></div><div></div><div></div><div></div></div></td><td>ON OFF</td></tr><tr><td></td><td>1 2 3 4 5</td><td></td><td>1 2 3 4 5</td></tr></table></td></tr><tr><td>12</td><td><table><tr><td><div><div></div><div></div><div></div><div></div><div></div></div></td><td>ON OFF</td><td>18</td><td><table><tr><td><div><div></div><div></div><div></div><div></div><div></div></div></td><td>ON OFF</td><td><table><tr><td><div><div></div><div></div><div></div><div></div><div></div></div></td><td>ON OFF</td></tr><tr><td></td><td>1 2 3 4 5</td><td></td><td>1 2 3 4 5</td></tr></table></td></tr></table></td><td></td></tr><tr><td>SW5</td><td>Function setting</td><td><table><tr><td>MODEL</td><td>SW5</td></tr><tr><td>SLZ- AF.NL</td><td><table><tr><td><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div></td><td>ON OFF</td></tr><tr><td></td><td>1 2 3 4 5 6 7 8</td></tr></table></td></tr></table></td><td></td></tr><tr><td>J41 J42</td><td>Pair number setting with IR wireless remote controller</td><td><table><tr><th rowspan="2">Wireless remote controller setting</th><th colspan="2">Control PCB setting</th></tr><tr><th>J41</th><th>J42</th></tr><tr><td>0</td><td>Short</td><td>Short</td></tr><tr><td>1</td><td>Open</td><td>Short</td></tr><tr><td>2</td><td>Short</td><td>Open</td></tr><tr><td>3 to 9</td><td>Open</td><td>Open</td></tr></table></td><td><Initial setting> IR wireless remote controller: 0 Control PCB: 0 4 pair number settings are supported. 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Only when the protection temperature of the auxiliary heater is less than 1292°F [700°C], setting can be changed.</td></tr></table></td></tr></table></td></tr></table></td></tr></table> | MODEL | SW2 | MODEL | SW2 | 09 | <table><tr><td><div><div></div><div></div><div></div><div></div><div></div></div></td><td>ON OFF</td><td><table><tr><td><div><div></div><div></div><div></div><div></div><div></div></div></td><td>ON OFF</td></tr><tr><td></td><td>1 2 3 4 5</td><td></td><td>1 2 3 4 5</td></tr></table></td><td>15</td><td><table><tr><td><div><div></div><div></div><div></div><div></div><div></div></div></td><td>ON OFF</td><td><table><tr><td><div><div></div><div></div><div></div><div></div><div></div></div></td><td>ON OFF</td></tr><tr><td></td><td>1 2 3 4 5</td><td></td><td>1 2 3 4 5</td></tr></table></td></tr><tr><td>12</td><td><table><tr><td><div><div></div><div></div><div></div><div></div><div></div></div></td><td>ON OFF</td><td>18</td><td><table><tr><td><div><div></div><div></div><div></div><div></div><div></div></div></td><td>ON OFF</td><td><table><tr><td><div><div></div><div></div><div></div><div></div><div></div></div></td><td>ON OFF</td></tr><tr><td></td><td>1 2 3 4 5</td><td></td><td>1 2 3 4 5</td></tr></table></td></tr></table></td><td></td></tr><tr><td>SW5</td><td>Function setting</td><td><table><tr><td>MODEL</td><td>SW5</td></tr><tr><td>SLZ- AF.NL</td><td><table><tr><td><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div></td><td>ON OFF</td></tr><tr><td></td><td>1 2 3 4 5 6 7 8</td></tr></table></td></tr></table></td><td></td></tr><tr><td>J41 J42</td><td>Pair number setting with IR wireless remote controller</td><td><table><tr><th rowspan="2">Wireless remote controller setting</th><th colspan="2">Control PCB setting</th></tr><tr><th>J41</th><th>J42</th></tr><tr><td>0</td><td>Short</td><td>Short</td></tr><tr><td>1</td><td>Open</td><td>Short</td></tr><tr><td>2</td><td>Short</td><td>Open</td></tr><tr><td>3 to 9</td><td>Open</td><td>Open</td></tr></table></td><td><Initial setting> IR wireless remote controller: 0 Control PCB: 0 4 pair number settings are supported. 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| | 1 2 3 4 5 | | 1 2 3 4 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| MODEL | SW5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| J41 J42 | Pair number setting with IR wireless remote controller | <table><tr><th rowspan="2">Wireless remote controller setting</th><th colspan="2">Control PCB setting</th></tr><tr><th>J41</th><th>J42</th></tr><tr><td>0</td><td>Short</td><td>Short</td></tr><tr><td>1</td><td>Open</td><td>Short</td></tr><tr><td>2</td><td>Short</td><td>Open</td></tr><tr><td>3 to 9</td><td>Open</td><td>Open</td></tr></table> | Wireless remote controller setting | Control PCB setting | | J41 | J42 | 0 | Short | Short | 1 | Open | Short | 2 | Short | Open | 3 to 9 | Open | Open | <Initial setting> IR wireless remote controller: 0 Control PCB: 0 4 pair number settings are supported. The pair number settings of the wireless remote controller and indoor control PCB (J41/J42) are given in the table on the left. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Wireless remote controller setting | Control PCB setting | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | J41 | J42 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | Short | Short | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Open | Short | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Short | Open | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 to 9 | Open | Open | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dip SW 5-4 | Change CN24 output setting | OFF (Initial setting) | Turn off the auxiliary heater connected to CN24 when refrigerant leak is detected. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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8-7. TROUBLESHOOTING OF MAIN PARTS

| Parts name | Checkpoints | | | | | | | | | | | | |
|--|---|----------------------|---------------|---------------------------------|-------------------------|-------------------------------|---------------------------------|--------------------------------|-----------|----------------------|--|--|--|
| Room temperature thermistor (TH1) | Measure the resistance with a multimeter. (Parts temperature 50 to 86°F) | | | | | | | | | | | | |
| Pipe temperature thermistor/liquid (TH2) | <table><tr><td>Normal</td></tr><tr><td>4.3 to 9.6 kΩ</td></tr></table> | Normal | 4.3 to 9.6 kΩ | | | | | | | | | | |
| Normal | | | | | | | | | | | | | |
| 4.3 to 9.6 kΩ | | | | | | | | | | | | | |
| Condenser/evaporator temperature thermistor (TH5) | (Refer to "8-7-1. Thermistor Characteristic Graph") | | | | | | | | | | | | |
| Vane motor (MV)  | Measure the resistance between the terminals with a multimeter. (At the ambient temperature 68 to 86°F) <table><tr><th>Connector</th><th>Normal</th></tr><tr><td>Red–Yellow (⑤–③, ⑩–⑧, ⑮–⑬, ⑳–⑱)</td><td rowspan="4">300 Ω ± 7% (at 77°F)</td></tr><tr><td>Red–Blue (⑤–①, ⑩–⑥, ⑮–⑪, ⑳–⑯)</td></tr><tr><td>Red–Orange (⑤–④, ⑩–⑨, ⑮–⑭, ⑳–⑰)</td></tr><tr><td>Red–White (⑤–②, ⑩–⑦, ⑮–⑫, ⑳–⑭)</td></tr></table> | Connector | Normal | Red–Yellow (⑤–③, ⑩–⑧, ⑮–⑬, ⑳–⑱) | 300 Ω ± 7% (at 77°F) | Red–Blue (⑤–①, ⑩–⑥, ⑮–⑪, ⑳–⑯) | Red–Orange (⑤–④, ⑩–⑨, ⑮–⑭, ⑳–⑰) | Red–White (⑤–②, ⑩–⑦, ⑮–⑫, ⑳–⑭) | | | | | |
| Connector | Normal | | | | | | | | | | | | |
| Red–Yellow (⑤–③, ⑩–⑧, ⑮–⑬, ⑳–⑱) | 300 Ω ± 7% (at 77°F) | | | | | | | | | | | | |
| Red–Blue (⑤–①, ⑩–⑥, ⑮–⑪, ⑳–⑯) | | | | | | | | | | | | | |
| Red–Orange (⑤–④, ⑩–⑨, ⑮–⑭, ⑳–⑰) | | | | | | | | | | | | | |
| Red–White (⑤–②, ⑩–⑦, ⑮–⑫, ⑳–⑭) | | | | | | | | | | | | | |
| Drain pump (DP)  | <p>① Check if the drain float switch works properly.</p> <p>② Check if the drain pump works and drains water properly in dry mode.</p> <p>③ If no water drains, confirm that the check code P5 will be displayed 10 minutes after the operation starts.</p> <p>Note: The DC powered drain pump motor for this model, which is driven by the control board, cannot measure resistance between the wires leading to the pump motor.</p> <p>Normal</p> <p>Red–Black: Input 13 VDC → The pump starts to rotate.</p> <p>Purple–Black: Abnormal (check code P5) if it outputs 0–13 V square wave (5 pulses/rotation), and the number of rotation is not normal.</p> | | | | | | | | | | | | |
| Drain float switch (FS)  | Measure the resistance between the terminals with a multimeter. <table><tr><th>State of moving part</th><th>Normal</th><th>Abnormal</th></tr><tr><td>UP</td><td>Closed</td><td>Other than short</td></tr><tr><td>DOWN</td><td>Open</td><td>Other than open</td></tr></table>  | State of moving part | Normal | Abnormal | UP | Closed | Other than short | DOWN | Open | Other than open | | | |
| State of moving part | Normal | Abnormal | | | | | | | | | | | |
| UP | Closed | Other than short | | | | | | | | | | | |
| DOWN | Open | Other than open | | | | | | | | | | | |
| i-see Sensor *  | Turn the power ON while the i-see Sensor connector is connected to the CN4Z on indoor controller board. A communication between the indoor controller board and i-see Sensor board is made to detect the connection. | | | | | | | | | | | | |
| | Normal: When the operation starts, the motor for i-see Sensor is driven to rotate the i-see Sensor. Abnormal: The motor for i-see Sensor is not driven when the operation starts. | | | | | | | | | | | | |
| | Note: The voltage between the terminals cannot be measured accurately since it is pulse output. | | | | | | | | | | | | |
| i-see Sensor motor *  | Measure the resistance between the terminals with a multimeter. (At the ambient temperature 68 to 86°F) <table><tr><th colspan="4">Normal</th></tr><tr><td>Red–Yellow</td><td>Red–Blue</td><td>Red–Orange</td><td>Red–White</td></tr><tr><td colspan="4">250 Ω ± 7% (at 77°F)</td></tr></table> | Normal | | | | Red–Yellow | Red–Blue | Red–Orange | Red–White | 250 Ω ± 7% (at 77°F) | | | |
| Normal | | | | | | | | | | | | | |
| Red–Yellow | Red–Blue | Red–Orange | Red–White | | | | | | | | | | |
| 250 Ω ± 7% (at 77°F) | | | | | | | | | | | | | |

* i-see Sensor is available with optional "i-see Sensor corner panel" (PAC-SF1ME-E).



| Parts name | Check method and criterion | | | | |
|--------------------|--|--------|----------|------------|---------------------|
| Refrigerant sensor | <div>Measure the resistance between the terminals with a multimeter.</div> <table><tr><td>Normal</td><td>Abnormal</td></tr><tr><td>Below 10 Ω</td><td>Open (10 Ω or more)</td></tr></table> <div>After turning off the indoor unit breaker and leaving it for 5 minutes, measure the resistance value between the sensor terminals.</div> <div>< Back side of the sensor ></div> <div></div> <div>Measure the both sides of the sensor pin.</div> | Normal | Abnormal | Below 10 Ω | Open (10 Ω or more) |
| Normal | Abnormal | | | | |
| Below 10 Ω | Open (10 Ω or more) | | | | |

8-7-1. Thermistor Characteristic Graph

<Thermistor characteristic graph>

Thermistors for lower temperature

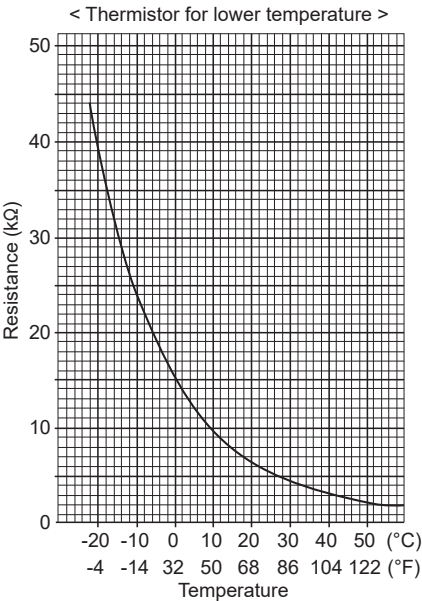
Room temperature thermistor (TH1)
Pipe temperature thermistor/liquid (TH2)
Condenser/evaporator temperature thermistor (TH5)

Thermistor R₀ = 15 kΩ ± 3%
Fixed number of B = 3480 ± 2%

t(°C) ... R_t (kΩ) = R₀ exp{ B ($\frac{1}{273+t}$ - $\frac{1}{273}$) }

T(°F) ... R_T (kΩ) = R₀ exp{ B ($\frac{1}{273+\frac{T-32}{1.8}}$ - $\frac{1}{273}$) }

| | | |
|------|---------|--------|
| 0°C | [32°F] | 15 kΩ |
| 10°C | [50°F] | 9.6 kΩ |
| 20°C | [68°F] | 6.3 kΩ |
| 25°C | [77°F] | 5.4 kΩ |
| 30°C | [86°F] | 4.3 kΩ |
| 40°C | [104°F] | 3.0 kΩ |



8-7-2. DC Fan Motor (Fan Motor/Indoor Controller Board)

Check method of DC fan motor (fan motor/indoor controller circuit board)

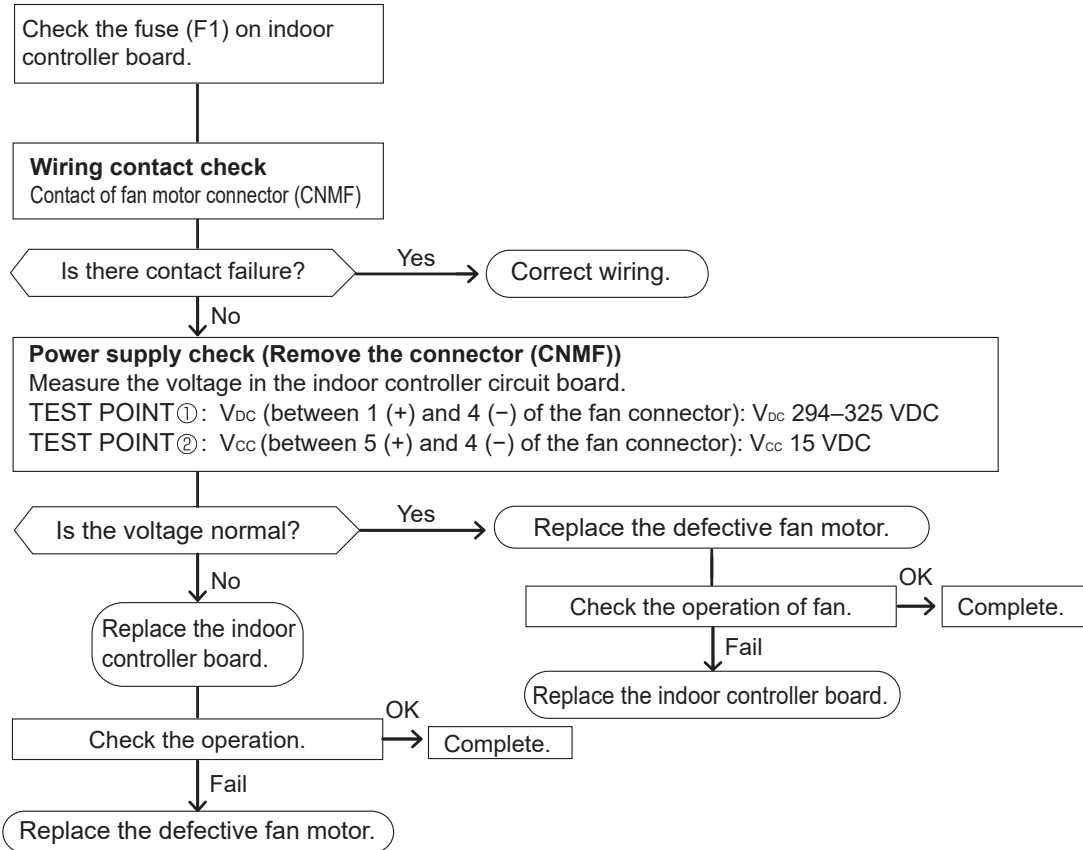
① Notes

- High voltage is applied to the connector (CNMF) for the fan motor. Pay attention to the service.
(It causes trouble of the indoor controller circuit board and fan motor.)

② Self check

②-1 Symptom: The indoor fan cannot rotate.

▪Troubleshooting



②-2 Symptom:

The fan motor does not stop when controlled to stop by the remote controller.
The fan motor runs when the breaker is turned on.

- Troubleshooting: The Emergency operation switch of indoor controller board might be set ON.
Check the setting of SWE and turn OFF when it is set ON.

11-2. BACK-UP HEATING FUNCTION

11-2-1. Operation

The back-up heater turns ON when both of the following conditions have been satisfied:

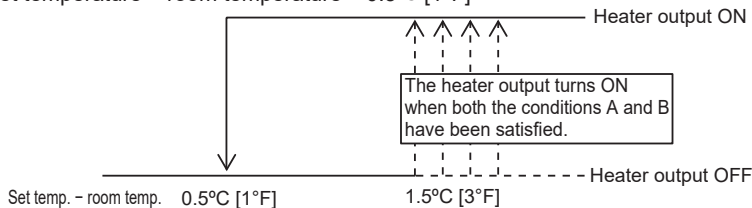
- A) When the heater ON delay time has passed and the room temperature, which is measured every minute, has not increased three times in a row compared with the temperature before the heater ON delay time started.

Note: The heater ON delay time starts when the condition of "set temperature – room temperature > 0.5°C [1°F]" has been satisfied.

- B) Set temperature – room temperature ≥ 1.5°C [3°F]

The back-up heater turns OFF when the following condition has been satisfied:

- Set temperature – room temperature ≤ 0.5°C [1°F]



11-2-2. How to change the heater ON delay time

You can set these functions by wired remote controller.

Notes:

- Both main and sub units should be set in the same setting.
- Every time replacing indoor controller board for service, the function should be set again.
- Stop the air-conditioner operation before changing the heater ON delay time.

Request code list

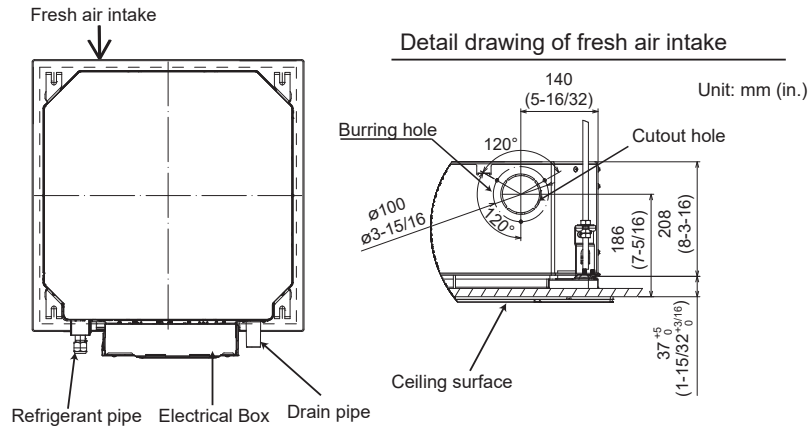
| Setting No. (Request code) | Setting contents | Initial setting |
|-------------------------------|---|-----------------|
| No.1 (390) | Monitoring the request code of current setting | |
| No.2 (391) | 10 minutes | |
| No.3 (392) | 15 minutes | |
| No.4 (393) | 20 minutes | ○ |
| No.5 (394) | 25 minutes | |
| No.6 (395) | 5 minutes | |
| No.7 (396) | 1 minutes | |

11-2-3. How to connect

When connecting to the connector CN24 of the indoor unit, use PAC-SE56RA-E (optional parts).

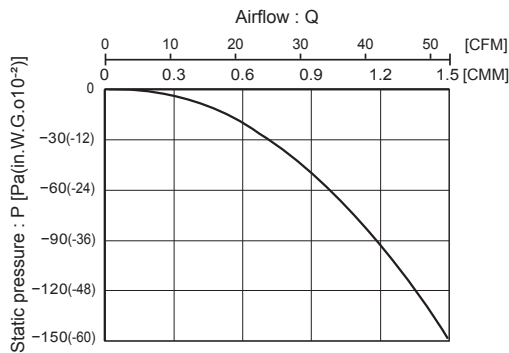
10-1. FRESH AIR INTAKE (LOCATION FOR INSTALLATION)

At the time of installation, use the duct holes (cut out) located at the positions shown in following diagram, as and when required.



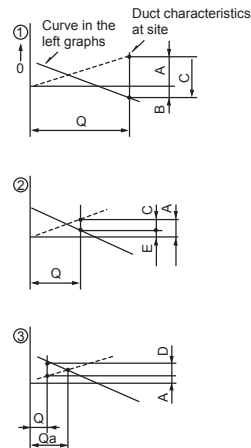
10-2. FRESH AIR INTAKE AMOUNT & STATIC PRESSURE CHARACTERISTICS

Taking air into the unit



NOTE: Fresh air intake amount should be 10% or less of whole air amount to prevent dew dripping.

How to read curves



- Q...Designed amount of fresh air intake
<CMM (CFM)>
- A...Static pressure loss of fresh air intake duct system with air flow amount Q
<Pa (in.W.G.×10⁻²)>
- B...Forced static pressure at air conditioner inlet with airflow amount Q
<Pa (in.W.G.×10⁻²)>
- C...Static pressure of booster fan with air flow amount Q
<Pa (in.W.G.×10⁻²)>
- D...Static pressure loss increase amount of fresh air intake duct system for air flow amount Q
<Pa (in.W.G.×10⁻²)>
- E...Static pressure of indoor unit with air flow amount Q
<Pa (in.W.G.×10⁻²)>
- Qa...Estimated amount of fresh air intake without D
<CMM (CFM)>

10-3. OPERATION IN CONJUNCTION WITH DUCT FAN (BOOSTER FAN)

- Whenever the indoor unit operates, the duct fan operates.

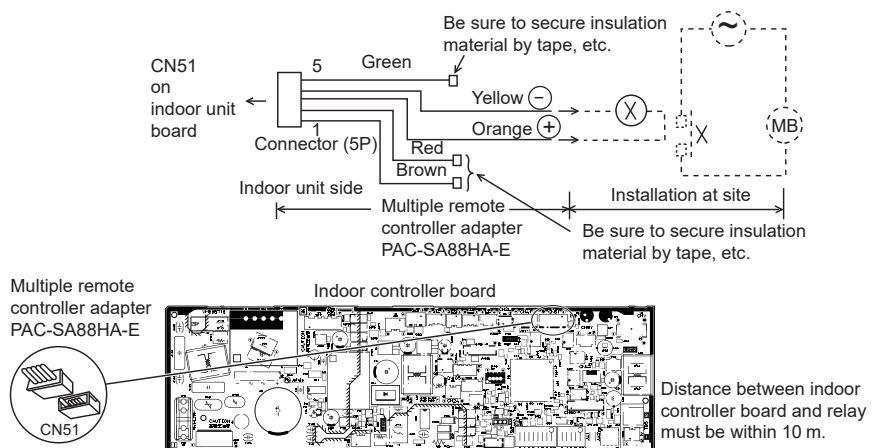
(1) Connect the optional multiple remote controller adaptor (PAC-SA88HA-E) to the connector CN51 on the indoor controller board.

(2) Drive the relay after connecting the 12 VDC relay between the Yellow and Orange connector wires.

Use a relay of 1W or smaller.

MB: Electromagnetic switch power relay for duct fan.

X: Auxiliary relay (12 VDC LY-1F)

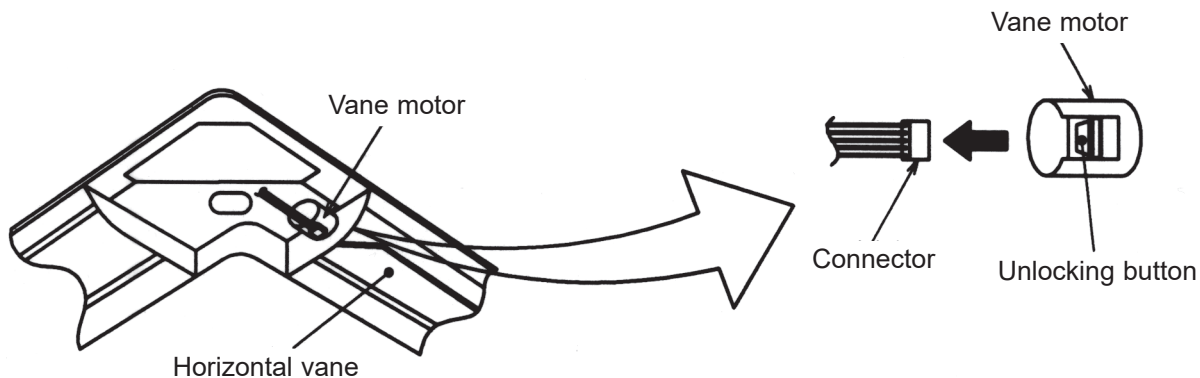


10-4. FIXING HORIZONTAL VANE

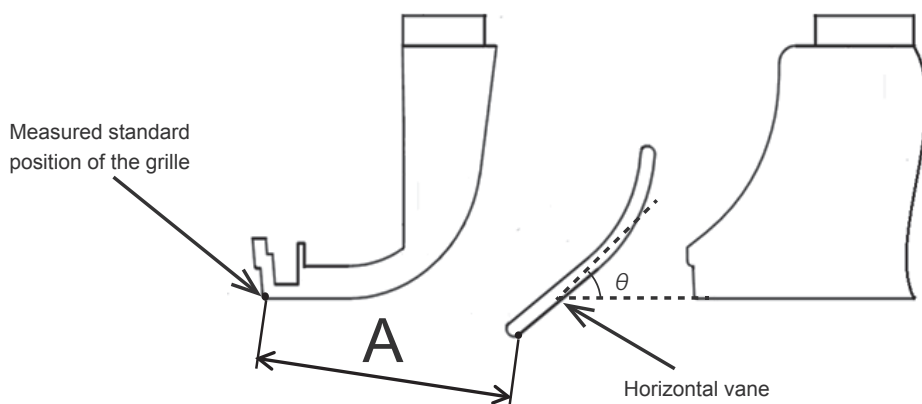
Horizontal vane of each air outlet can be fixed according to the environment where it is installed.

Setting procedure

- 1) Turn off the main power supply (Turn off the breaker).
- 2) Remove the vane motor connector in the direction of the arrow shown below with pressing the unlocking button as in the figure below.
Insulate the disconnected connector with the plastic tape.



- 3) Set the vertical vane of the air outlet by hand slowly within the range in the table below.



<Set range>

| Standard of horizontal position | Angle $\theta = 21^\circ$ (Horizontal) | Angle $\theta = 24^\circ$ | Angle $\theta = 39^\circ$ | Angle $\theta = 42^\circ$ | Angle $\theta = 45^\circ$ (Downward) |
|---------------------------------|---|---------------------------|---------------------------|---------------------------|---|
| Dimension A | 39 mm 1-9/16 in. | 41 mm 1-5/8 in. | 47 mm 1-7/8 in. | 48 mm 1-29/32 in. | 49 mm 1-15/16 in. |

Note: Dimension between 39 mm (1-9/16 in.) and 49 mm (1-15/16 in.) can be arbitrarily set.

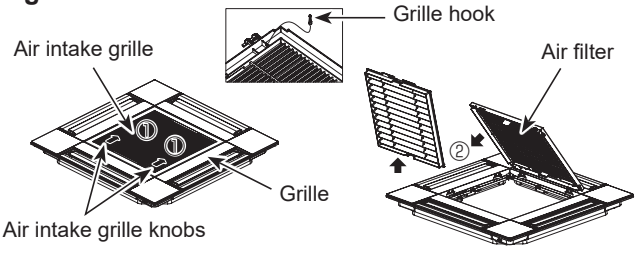
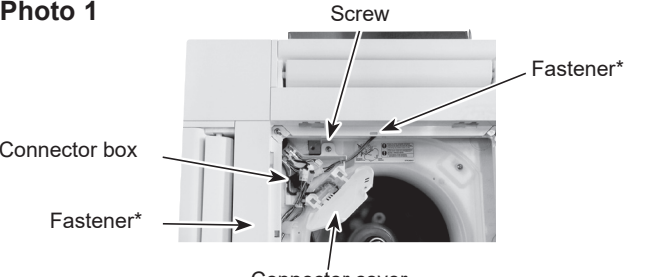
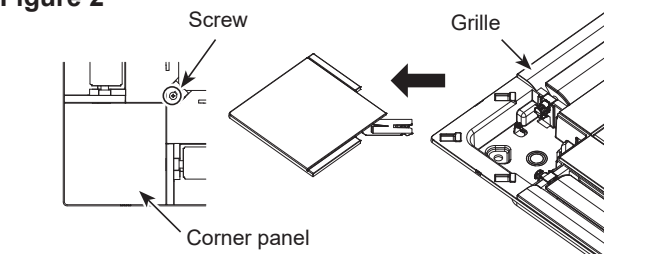
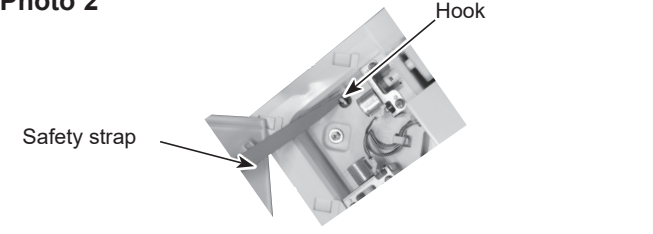
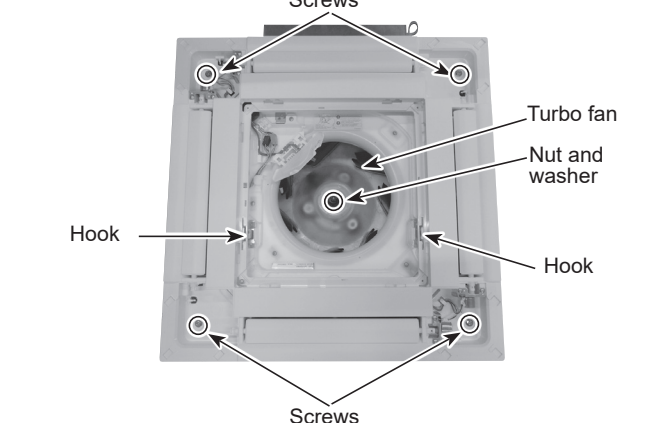
Caution

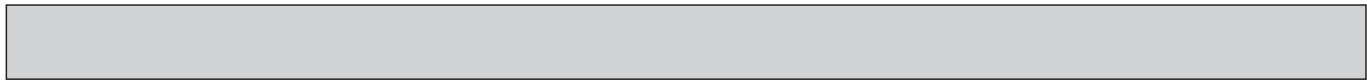


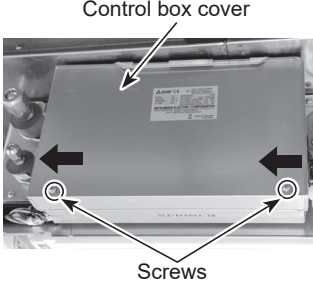
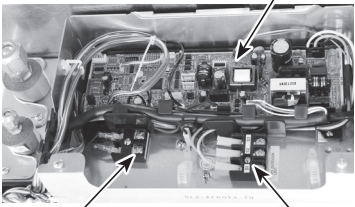
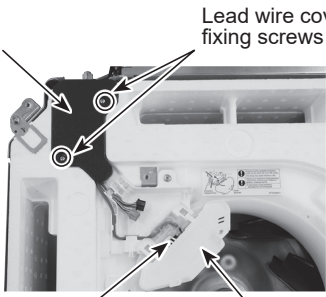
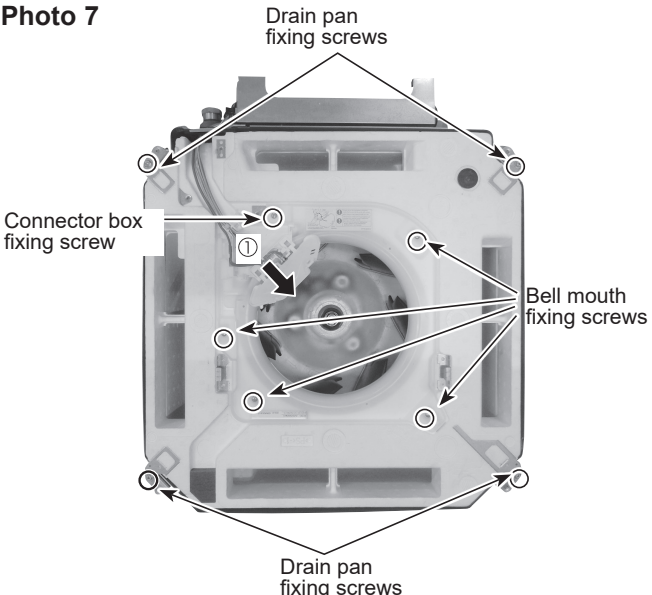
Do not set the dimension out of the range.

Erroneous setting could cause dew drips or malfunction of unit.

NOTE: Turn OFF the power supply before disassembly.
Be careful when removing heavy parts.

| OPERATING PROCEDURE | PHOTOS/FIGURES |
|---|---|
| <p>1. Removing the air intake grille and air filter</p> <ol style="list-style-type: none"> (1) Slide the knob of air intake grille to the direction of the arrow ① to open the air intake grille. (2) Remove the grille hook from the panel to prevent the grille from dropping. (3) Slide the hinge of the intake grille to the direction of the arrow ② and remove the air filter. | <p>Figure 1</p>  <p>Labels: Air intake grille, Grille hook, Air filter, Grille, Air intake grille knobs.</p> |
| <p>2. Removing the panel</p> <ol style="list-style-type: none"> (1) Remove the air intake grille. (Refer to procedure 1) <p>Connector box (See Photo 1)</p> <ol style="list-style-type: none"> (2) Remove the screw of the connector cover. (3) Slide the connector cover to the direction of the arrow to open the cover. (4) Disconnect all the connectors, then pull out the connectors that are coming from panel side from the connector box. <p>Corner panel (See Figure 2 and Photo 2)</p> <ol style="list-style-type: none"> (5) Loosen the screw from the corner of the corner panel. (6) Slide the corner panel as indicated by the arrow. (7) Remove the safety strap from the hook, then remove the corner panel from the panel. (The safety strap is not equipped for the signal receiver panel and i-see Sensor corner panel.) (8) Remove the fastener (*), then remove the corner panel. <p>Panel (See Photo 3)</p> <ol style="list-style-type: none"> (9) Remove the 4 screws. (10) Unlatch the 2 hooks. <p>* Fastener is only for the signal receiver and i-see Sensor corner panel.</p> | <p>Photo 1</p>  <p>Figure 2</p>  <p>Photo 2</p>  <p>Photo 3</p>  |



| OPERATING PROCEDURE | PHOTOS/FIGURES |
|---|---|
| <p>3. Removing the electrical parts</p> <p>(1) Loosen the 2 screws on the control box cover.</p> <p>(2) Slide the control box cover as indicated by the arrow to remove.</p> <p><Electrical parts in the control box></p> <ul style="list-style-type: none">• Indoor controller board (I.B)• Terminal block (TB4)• Terminal block (TB5) | <p>Photo 4</p>  <p>Control box cover</p> <p>Screws</p> <p>Photo 5</p>  <p>Indoor controller board (I.B)</p> <p>Terminal block (TB5)</p> <p>Terminal block (TB4)</p> |
| <p>4. Removing the room temperature thermistor (TH1)</p> <p>(1) Remove the panel. (Refer to procedure 2)</p> <p>Room temperature thermistor (TH1) (See Photo 6)</p> <p>(2) Remove the 2 lead wire cover fixing screws. (See Photo 6)</p> <p>(3) Open the lead wire cover, then remove the connector cover from the connector box.</p> <p>(4) Remove the band that fixes the room temperature thermistor (TH1) to the connector box.</p> <p>(5) Remove the room temperature thermistor (TH1) from the connector box.</p> <p>(6) Remove the connector (CN20) from the indoor controller board, and disconnect the room temperature thermistor (TH1).</p> <p>Note: When fixing the thermistor, make sure to fix it to the connector box using a band.</p> | <p>Photo 6</p>  <p>Lead wire cover</p> <p>Lead wire cover fixing screws</p> <p>Room temperature thermistor (TH1)</p> <p>Connector cover</p> |
| <p>5. Removing the drain pan</p> <p>(1) Remove the panel. (Refer to procedure 2)</p> <p>(2) Remove the room temperature thermistor (TH1). (Refer to procedure 4)</p> <p>Connector box (See Photo 7)</p> <p>(3) Remove the connector box fixing screw.</p> <p>(4) Slide the connector box as indicated by the arrow ①, then remove from bell mouth.</p> <p>Bell mouth (See Photo 7)</p> <p>(5) Remove the 4 bell mouth fixing screws, then remove the bell mouth.</p> <p>Drain pan (See Photo 7)</p> <p>(6) Remove the 4 drain pan fixing screws, then remove the drain pan.</p> | <p>Photo 7</p>  <p>Drain pan fixing screws</p> <p>Connector box fixing screw</p> <p>Bell mouth fixing screws</p> <p>Drain pan fixing screws</p> |

OPERATING PROCEDURE

6. Removing the pipe temperature thermistor/liquid (TH2) and pipe temperature thermistor/gas (TH5)

- (1) Remove the panel. (Refer to procedure 2)
- (2) Remove the room temperature thermistor (TH1). (Refer to procedure 4)
- (3) Remove the drain pan. (Refer to procedure 5)

Pipe temperature thermistor/liquid (TH2) and pipe temperature thermistor/gas (TH5) (See Photo 8)

- (4) Remove the control box cover. (Refer to procedure 3)
- (5) Disconnect the thermistor connectors from the CN44 on the indoor controller board.
- (6) Cut the band fixing the thermistor connectors to the fan motor cable.
- (7) Remove the thermistors from the holders on heat exchanger.

Note: When re-attaching the thermistor connectors to the fan motor cable, make sure to put the fixed band into the groove. (See Photo 8-2)

7. Removing the R454B sensor (See Photo 8-1)

- (1) Remove the band
- (2) Remove the screw
- (3) Remove the R454B sensor

Note 1: To install the R454B sensor, orient the sensor case (See Photo 8-3) and insert the tip of sensor case into the sensor guide (See Photo 8-4).

Note 2: When re-attaching the lead wire of the R454B sensor to the fan motor cable with the thermistor connectors, make sure to put the fixed band into the groove. (See Photo 8-2)

Note 3 : This refrigerant sensor shall only be replaced with manufacturer approved sensor.

PHOTOS/FIGURES

Photo 8-1

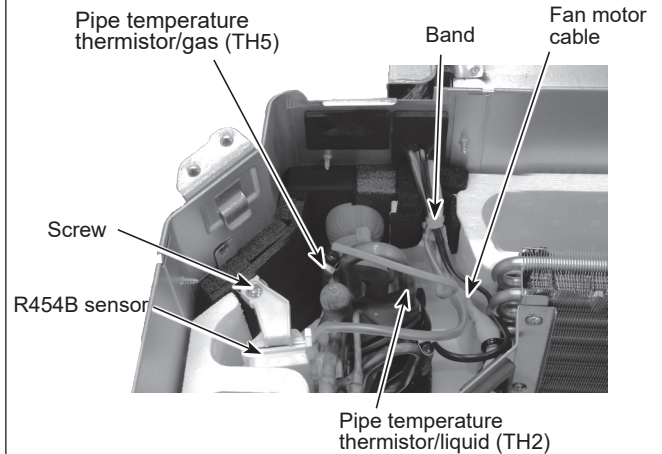


Photo 8-2

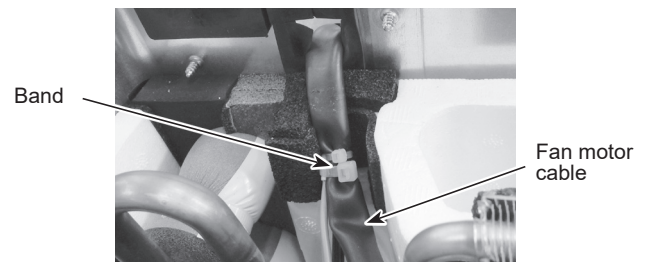


Photo 8-3

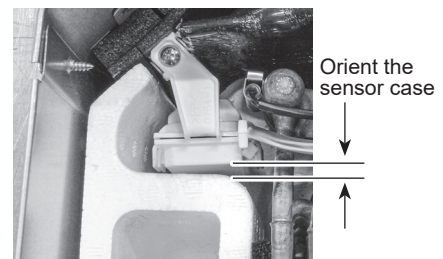
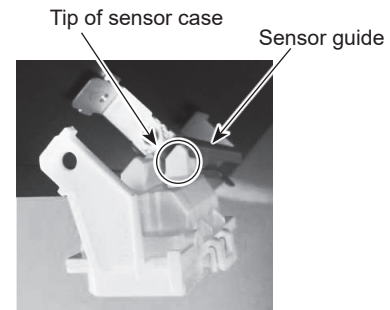


Photo 8-4



OPERATING PROCEDURE

8. Removing the fan motor (MF)

- (1) Remove the panel. (Refer to procedure 2)
- (2) Remove the room temperature thermistor (TH1). (Refer to procedure 4)
- (3) Remove the drain pan. (Refer to procedure 5)

Turbo fan (See Photo 3)

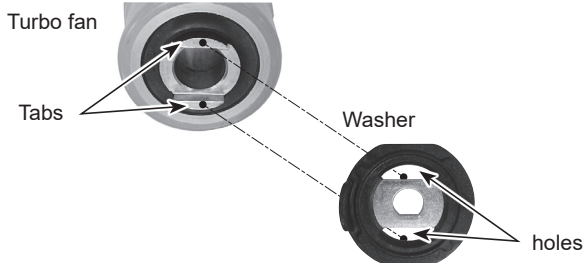
- (4) Remove the nut and washer from the turbo fan.
- (5) Remove the turbo fan from the motor shaft.

< Nut and washer >



Note 1: When assembling the turbo fan, attach it so that its tabs fit the holes of washer.

Note 2: Nut tightening torque: 4.5 ± 0.5 Nm.



Fan motor (See Photo 9)

- (6) Remove the control box cover. (Refer to procedure 3)
- (7) Disconnect the fan motor cable from the CNMF on the indoor controller board.
- (8) Remove the 2 motor lead cover fixing screws, then remove the motor lead cover.
- (9) Loosen the 3 clamps fixing the fan motor cable.
- (10) Cut the band.
- (11) Remove the 3 nuts and washers, then remove the fan motor.
- (12) Remove the 3 motor mounts.

Note 1: When re-attaching the motor mount, make sure that the thicker end faces the motor shaft. (See Photo 10-1)

Note 2: When re-attaching the turbo fan, make sure that the tightening torque for nuts is 5 N·m or lower.

PHOTOS/FIGURES

Photo 9

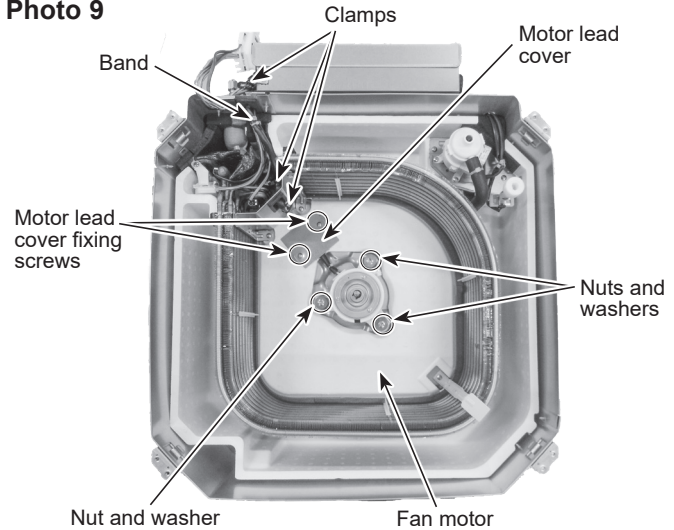
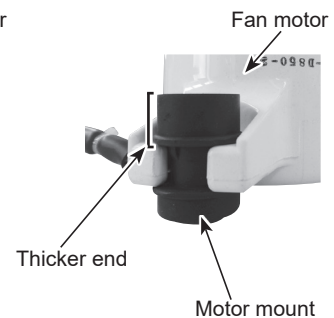


Photo 10



Photo 10-1



OPERATING PROCEDURE

9. Removing the drain pump (DP) and float switch (FS)

- (1) Remove the panel. (Refer to procedure 2)
- (2) Remove the room temperature thermistor (TH1). (Refer to procedure 4)
- (3) Remove the control box cover. (Refer to procedure 3)
- (4) Remove the drain pan. (Refer to procedure 5)

Drain pump (See Photo 11 and 12)

- (5) Disconnect the drain pump connector from the CNP and float switch connector from CN4F on the indoor controller board.
- (6) Loosen the clamp fixing the connectors on the side of the control box.
- (7) Cut the hose band and release the hose.
- (8) Remove the 2 screws fixing the drain pump and float switch to the inner cover.
- (9) Slide the base plate of the drain pump and float switch as indicated by the arrow ① to remove.
- (10) Cut the band. (See Photo 12)
- (11) Remove the 3 drain pump fixing screws, then remove the drain pump. (See Photo 12)

Notes:

1. When re-attaching the drain pump, make sure to use a band to fix the connector to the base plate.
2. Do not give a shock to the float switch. Otherwise it can cause damage or malfunction.

PHOTOS/FIGURES

Photo 11

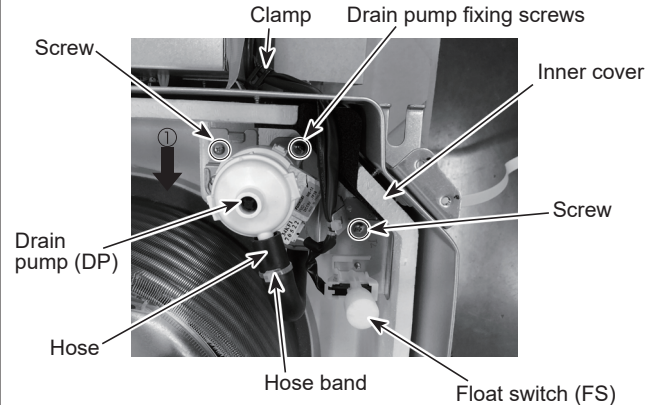
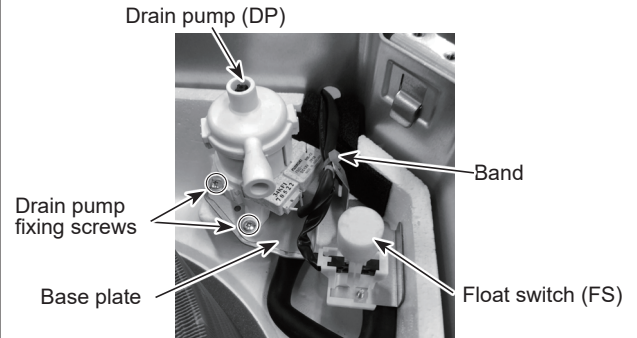


Photo 12



10. Removing the heat exchanger

- (1) Remove the panel. (Refer to procedure 2)
- (2) Remove the room temperature thermistor (TH1). (Refer to procedure 4)
- (3) Remove the drain pan. (Refer to procedure 5)
- (4) Remove the turbo fan and fan motor. (Refer to procedure 8)

Heat exchanger (See Photo 13 and 14)

- (5) Remove the 3 pipe cover fixing screws to remove the pipe cover.
- (6) Remove the 2 coil plate fixing screws.
- (7) Remove the coil support fixing screw, then remove the coil support.
- (8) Remove the heat exchanger.

Photo 13

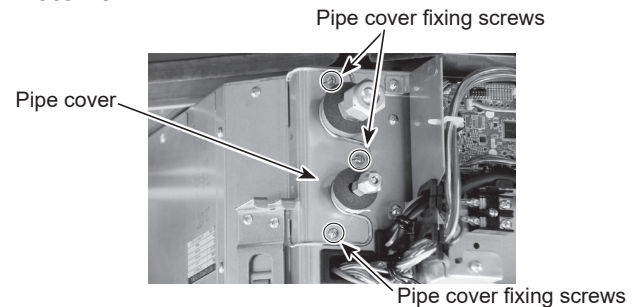
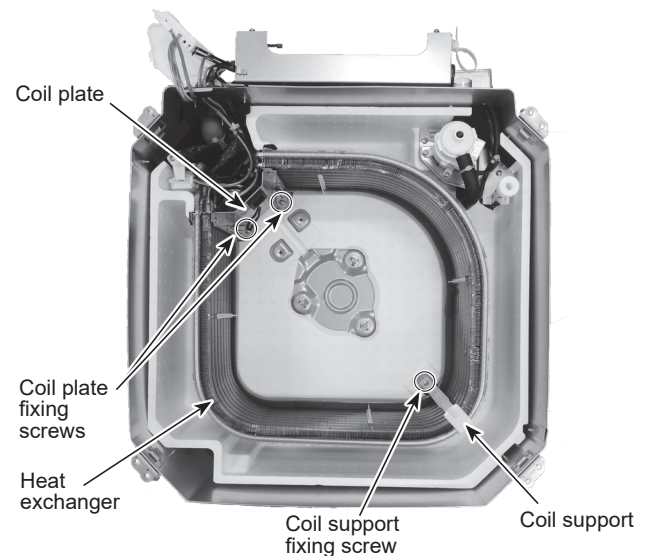


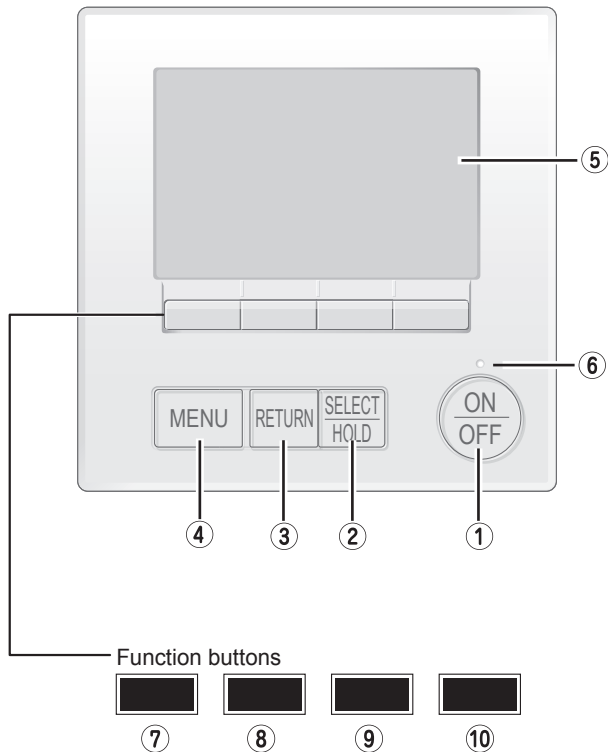
Photo 14



12-1. REMOTE CONTROLLER FUNCTIONS

<PAR-42MAAUB>

Controller interface

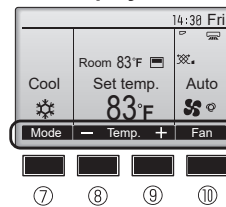


The functions of the function buttons change depending on the screen.

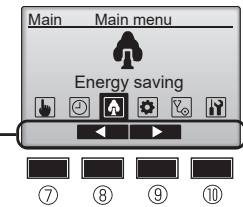
Refer to the button function guide that appears at the bottom of the LCD for the functions they serve on a given screen.

When the system is centrally controlled, the button function guide that corresponds to the locked button will not appear.

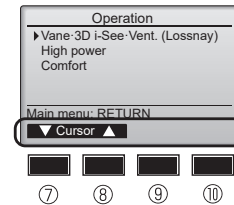
Main display



Main menu



Menu screen



Function guide

① [ON/OFF] button

Press to turn ON/OFF the indoor unit.

② [SELECT/HOLD] button

Press to save the setting.

When the Main menu is displayed, pressing this button will enable/disable the HOLD function.

③ [RETURN] button

Press to return to the previous screen.

④ [MENU] button

Press to bring up the Main menu.

⑤ Backlit LCD

Operation settings will appear.

When the backlight is off, pressing any button turns the backlight on and it will stay lit for a certain period of time depending on the screen.

When the backlight is off, pressing any button turns the backlight on and does not perform its function. (except for the [ON/OFF] button)

⑥ ON/OFF lamp

This lamp lights up in green while the unit is in operation. It blinks while the remote controller is starting up or when there is an error.

⑦ Function button [F1]

Main display: Press to change the operation mode.

Menu screen: The button function varies with the screen.

⑧ Function button [F2]

Main display: Press to decrease temperature.

Main menu: Press to move the cursor left.

Menu screen: The button function varies with the screen.

⑨ Function button [F3]

Main display: Press to increase temperature.

Main menu: Press to move the cursor right.

Menu screen: The button function varies with the screen.

⑩ Function button [F4]

Main display: Press to change the fan speed.

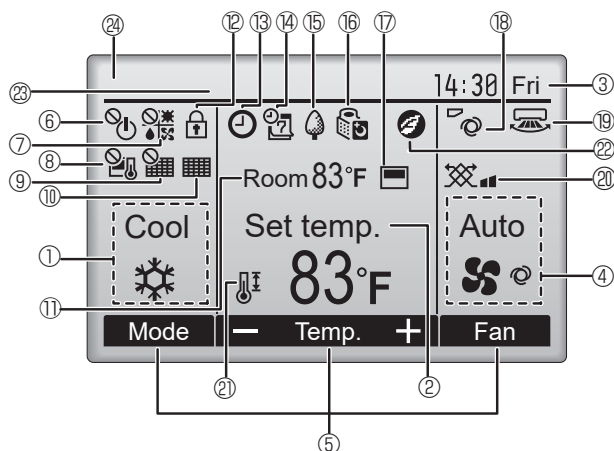
Menu screen: The button function varies with the screen.

Display

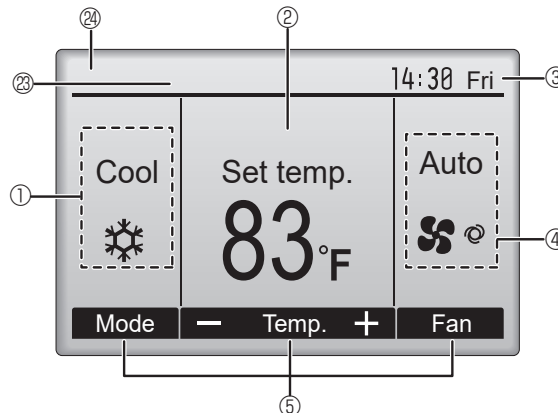
The main display can be displayed in two different modes: "Full" and "Basic". The initial setting is "Full". To switch to the "Basic" mode, change the setting on the Main display setting. (Refer to operation manual included with remote controller.)

<Full mode>

All icons are displayed for explanation.



<Basic mode>



① Operation mode

② Preset temperature

③ Clock

④ Fan speed

⑤ Button function guide

Functions of the corresponding buttons appear here.



Appears when the ON/OFF operation is centrally controlled.



Appears when the operation mode is centrally controlled.



Appears when the preset temperature is centrally controlled.



Appears when the filter reset function is centrally controlled.



Indicates when filter needs maintenance.

⑪ Room temperature



Appears when the buttons are locked.



Appears when the On/Off timer or Auto-off timer function is enabled.

appears when the timer is disabled by the centralized control system.
appears when the HOLD function is enable.



Appears when the Weekly timer is enabled.



Appears while the units are operated in the energy saving mode. (Will not appear on some models of indoor units)



Appears while the outdoor units are operated in the silent mode.



Appears when the built-in thermistor on the remote controller is activated to monitor the room temperature (1).

appears when the thermistor on the indoor unit is activated to monitor the room temperature.



Indicates the vane setting.



Indicates the louver setting.



Indicates the ventilation setting.



Appears when the preset temperature range is restricted.



Appears when an energy saving operation is performed using a "3D i-see Sensor" function.

②③ Centrally controlled

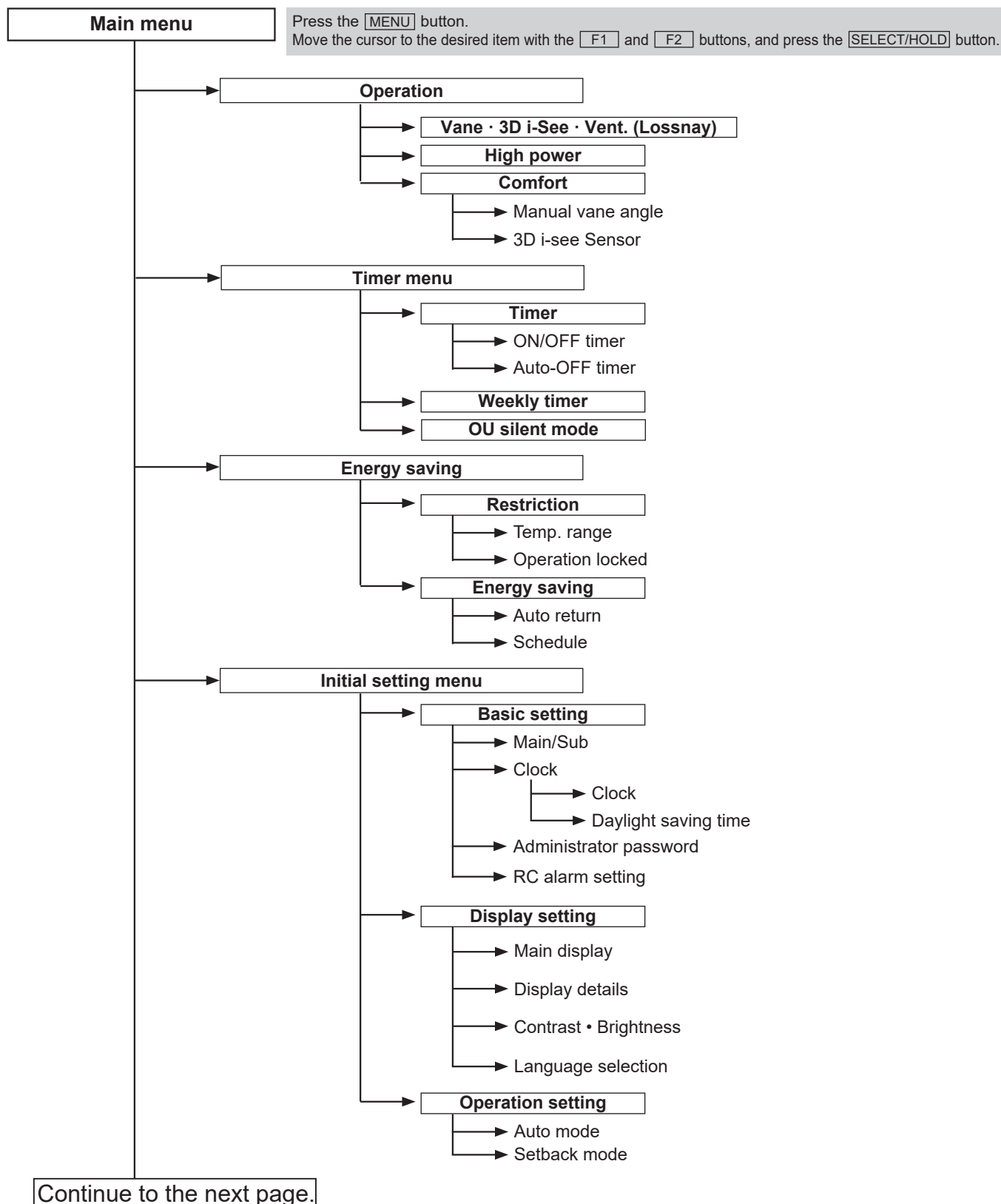
Appears for a certain period of time when a centrally-controlled item is operated.

②④ Preliminary error display

A check code appears during the preliminary error.

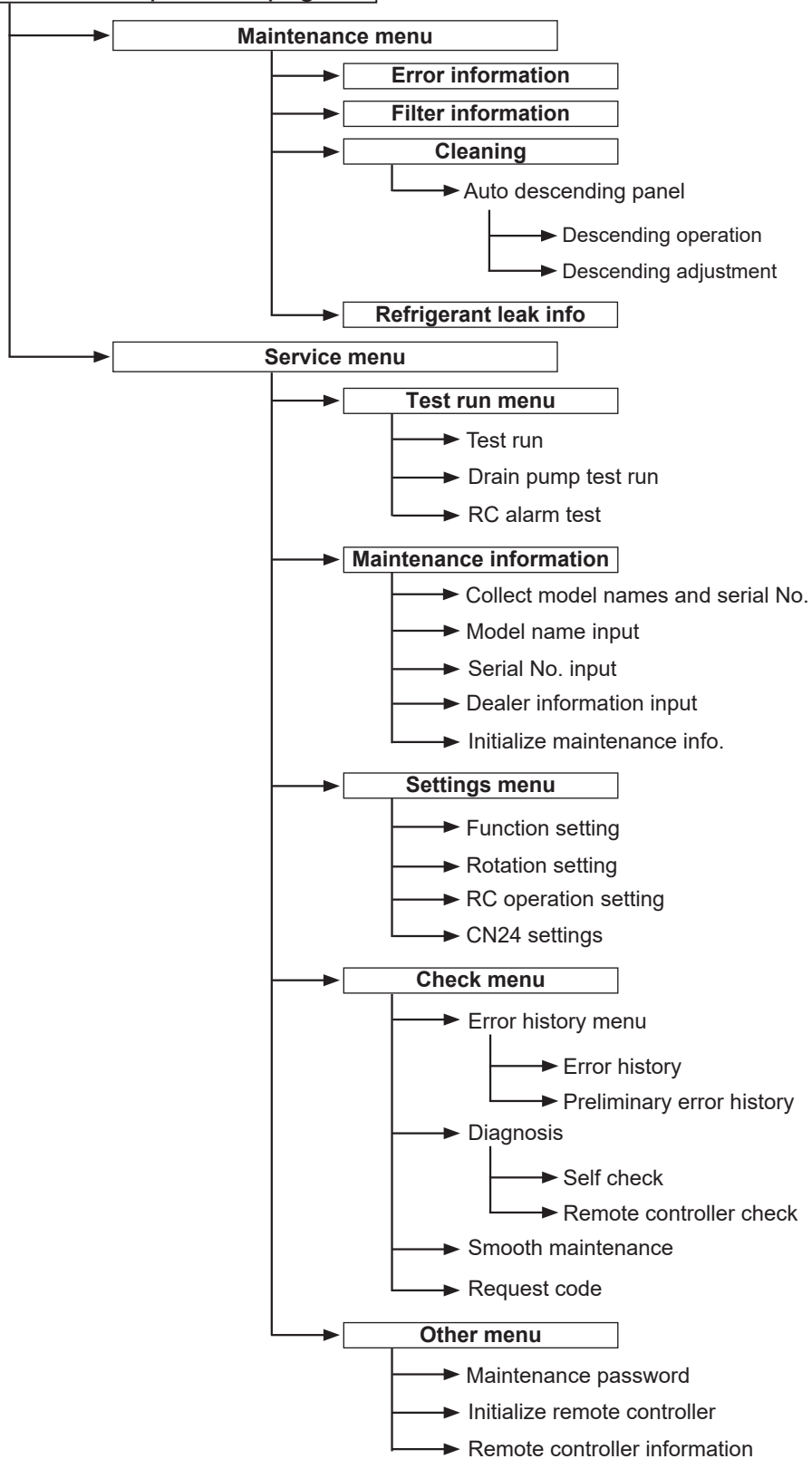
Most settings (except ON/OFF, mode, fan speed, temperature) can be made from the Main menu.

Menu structure



Not all functions are available on all models of indoor units.

Continue from the previous page.



Not all functions are available on all models of indoor units.

Main menu list

| Main menu | Setting and display items | | Setting details |
|-----------------|--|----------------------------|---|
| Operation | Vane•3D i-See•Vent. (Lossnay) Vane · Louver · Vent. (Lossnay) | | Vane: Use to set the vertical air direction. Louver: Use to set the horizontal air direction. 3D i-See sensor: This setting is available only for the air conditioners that support easy setting function of motion sensing air direction. Vent: Use to set the amount of ventilation. Use to set the vane angle. • Select a desired vane setting. Use to turn ON/OFF the louver. • Select a desired setting from "ON" and "OFF." Use to set the amount of ventilation. • Select a desired setting from "Off," "Low," and "High." |
| | High power ^{*3} | | Use to reach the comfortable room temperature quickly. • Units can be operated in the High-power mode for up to 30 minutes. |
| | Comfort | Manual vane angle | Use to fix each vane angle. |
| | | 3D i-see Sensor | Use to set the following functions for 3D i-see Sensor. • Air distribution • Energy saving option • Seasonal airflow |
| Timer | Timer | ON/OFF timer ^{*1} | Use to set the operation ON/OFF times. • Time can be set in 5-minute increments. |
| | | Auto-Off timer | Use to set the Auto-Off time. • Time can be set to a value from 30 to 240 in 10-minute increments. |
| | Weekly timer ^{*1, *2} | | Use to set the weekly operation ON/OFF times. • Up to 8 operation patterns can be set for each day. (Not valid when the ON/OFF timer is enabled.) |
| | OU silent mode ^{*1, *3} | | Use to set the time periods in which priority is given to quiet operation of outdoor units over temperature control. Set the Start/Stop times for each day of the week. • Select the desired silent level from "Normal," "Middle," and "Quiet." |
| Energy saving | Restriction | Temp. range ^{*2} | Use to restrict the preset temperature range. • Different temperature ranges can be set for different operation modes. |
| | | Operation locked | Use to lock selected functions. • The locked functions cannot be operated. |
| | Energy saving | Auto return ^{*2} | Use to get the units to operate at the preset temperature after performing energy saving operation for a specified time period. • Time can be set to a value from 30 and 120 in 10-minute increments. (This function will not be valid when the preset temperature ranges are restricted.) |
| | | Schedule ^{*1, *3} | Set the start/stop times to operate the units in the energy saving mode for each day of the week, and set the energy saving rate. • Up to 4 energy saving operation patterns can be set for each day. • Time can be set in 5-minute increments. • Energy saving rate can be set to a value from 0% or 50 to 90% in 10% increments. |
| Initial setting | Basic setting | Main/Sub | When connecting 2 remote controllers, one of them needs to be designated as a sub controller. |
| | | Clock | Use to set the current time. |
| | | Daylight saving time | Set the daylight saving time. |
| | | Administrator password | The administrator password is required to make the settings for the following items. • Timer setting • Energy saving setting • Weekly timer setting • Restriction setting • Outdoor unit silent mode setting |

^{*1} Clock setting is required.

^{*2} 2°F (1°C) increments.

^{*3} This function is available only when certain outdoor units are connected.

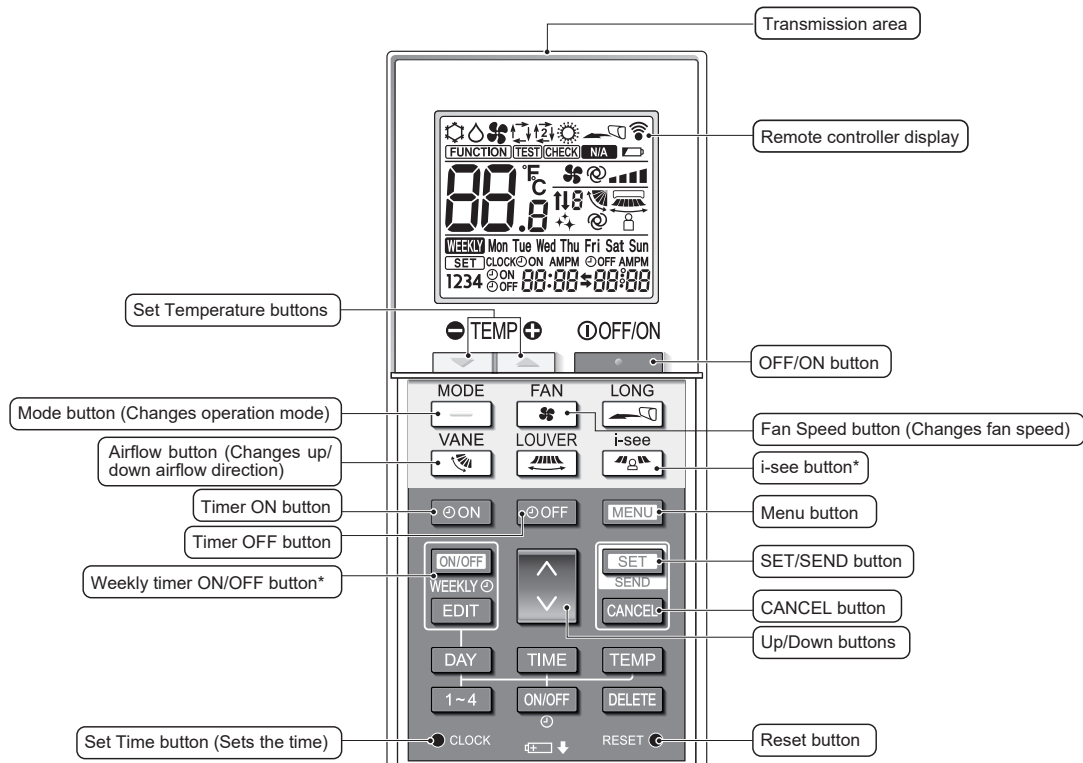
| |
|--|
| |
|--|

| Main menu | Setting and display items | | Setting details |
|-----------------|---------------------------|-------------------------------|--|
| Initial setting | Display setting | Main display | Use to switch between "Full" and "Basic" modes for the Main display, and use to change the background colors of the display to black. |
| | | Display details | Make the settings for the remote controller related items as necessary. Clock: The initial settings are "Yes" and "24h" format. Temperature: Set either Celsius (°C) or Fahrenheit (°F). Room temp.: Set Show or Hide. Auto mode: Set Auto mode display or Only Auto display. |
| | | Contrast • Brightness | Use to adjust screen contrast and brightness. |
| | | Language selection | Use to select the desired language. |
| | Operation setting | Auto mode | Whether or not to use Auto mode can be selected by using the button. This setting is valid only when indoor units with Auto mode function are connected. |
| | | Setback mode | Whether or not to use the Setback mode can be selected by using the button. This setting is valid only when indoor units with the Setback mode function are connected. |
| Maintenance | Error information | | Use to check error information when an error occurs. • Check code, error source, refrigerant address, model name, manufacturing number, contact information (dealer's phone number) can be displayed. (The model name, manufacturing number, and contact information need to be registered in advance to be displayed.) |
| | Refrigerant leak info | | Use to check error information when a refrigerant leakage occurs. • Error code, error source, refrigerant address, unit model, manufacturing number, contact information (dealer's phone number) can be displayed. * The unit model, manufacturing number, and contact information need to be registered in advance to be displayed. |
| | Filter information | | Use to check the filter status. • The filter sign can be reset. |
| | Cleaning | Auto descending panel | Use to lift and lower the auto descending panel (Optional parts). |
| Service | Test run | | Select "Test run" from the Service menu to bring up the Test run menu. • Test run • Drain pump test run |
| | Input maintenance | | Select "Input maintenance Info." from the Service menu to bring up the Maintenance information screen. The following settings can be made from the Maintenance Information screen. • Model name input • Serial No. input • Dealer information input • Initialize maintenance info. |
| | Settings | Function setting | Make the settings for the indoor unit functions via the remote controller as necessary. |
| | Check | Error history | Display the error history and execute "delete error history". |
| | | Diagnosis | Self check: Error history of each unit can be checked via the remote controller. Remote controller check: When the remote controller does not work properly, use the remote controller checking function to troubleshoot the problem. |
| | | Smooth maintenance *1 | Use to display the maintenance data of indoor/outdoor units. |
| | | Request code *1 | Use to check operation data such as thermistor temperature and error information. |
| | Others | Maintenance password | Use to change the maintenance password. |
| | | Initialize remote controller | Use to initialize the remote controller to the factory shipment status. |
| | | Remote controller information | Use to display the remote controller model name, software version, and serial number. |

*1 This function is available only when certain outdoor units are connected.

<PAR-SL101A-E>

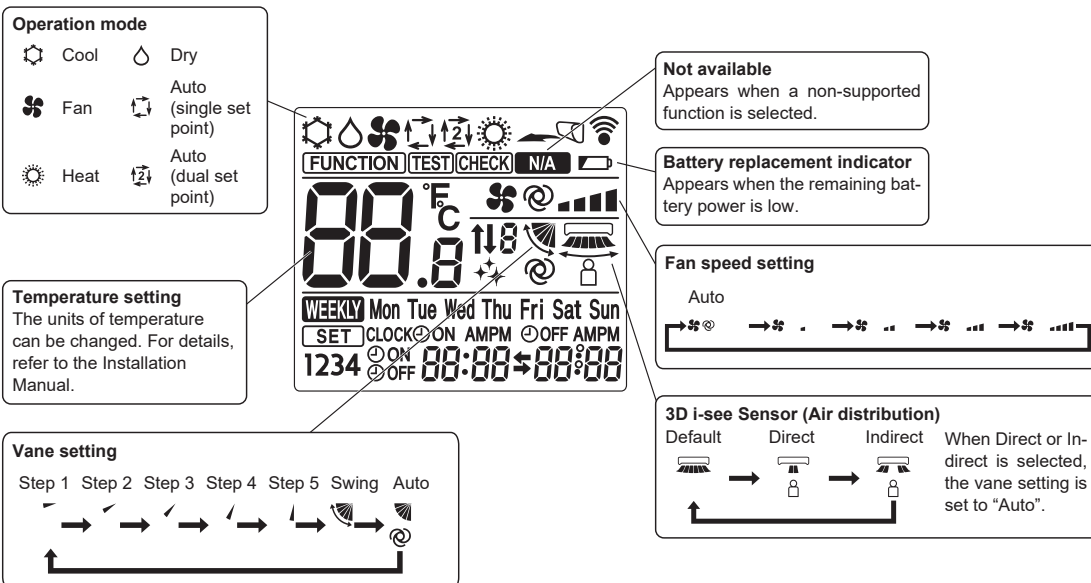
Controller interface



Note:

* This button is enabled or disabled depending on the model of the indoor unit.

Display



12-2. ERROR INFORMATION

When an error occurs, the following screen will appear.
Check the error status, stop the operation, and consult your dealer.

1. Check code, error unit, refrigerant address, model name, and serial number will appear.
The model name and serial number will appear only if the information has been registered.

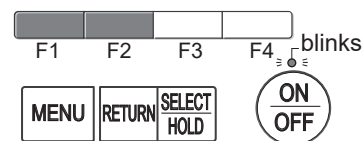
Press the [F1] or [F2] button to go to the next page.

Error information 1/2

| | |
|---------------|-------------|
| Error code | A3 |
| Error unit | IU 8 Unit#1 |
| Time Occurred | 02/01 4:48 |

Reset error: Reset button

▼ Page ▲ Reset



Contact information (dealer's phone number) will appear if the information has been registered.

Error information 2/2

Contact information

Dealer

Tel

Reset error: Reset button

▼ Page ▲ Reset

2. Press the [F4] button or the [ON/OFF] button to reset the error that is occurring.

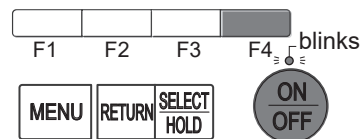
Errors cannot be reset while the ON/OFF operation is prohibited.

Error information 1/2

| | |
|---------------|-------------|
| Error code | A3 |
| Error unit | IU 8 Unit#1 |
| Time Occurred | 02/01 4:48 |

Reset error: Reset button

▼ Page ▲ Reset

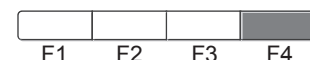


Select "OK" with the [F4] button.

Error reset

Reset current error?

Cancel OK



Error reset

Error reset

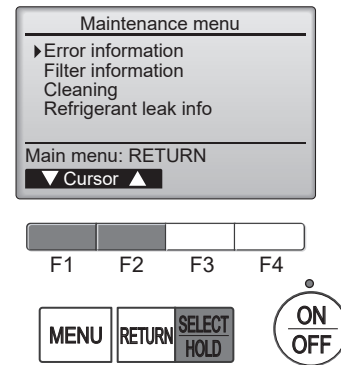
Main menu: MENU

Navigating through the screens

- To go back to the Service menu [MENU] button

• Checking the error information

While no errors are occurring, page 2/2 of the error information can be viewed by selecting "Error information" from the Maintenance menu. Errors cannot be reset from this screen.

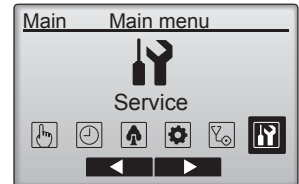


12-3. SERVICE MENU

Maintenance password is required

1. Select "Service" from the Main menu, and press the [SELECT/HOLD] button.

*At the main display, the menu button and select "Service" to make the maintenance setting.



2. When the Service menu is selected, a window will appear asking for the password.

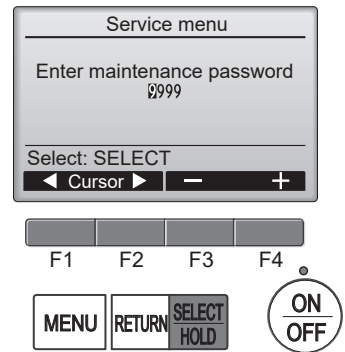
To enter the current maintenance password (4 numerical digits), move the cursor to the digit you want to change with the [F1] or [F2] button.



Set each number (0 through 9) with the [F3] or [F4] button.



Then, press the [SELECT/HOLD] button.



Note: The initial maintenance password is "9999". Change the default password as necessary to prevent unauthorized access. Have the password available for those who need it.

: If you forget your maintenance password, you can initialize the password to the default password "9999" by pressing and holding the [F1] button for 10 seconds on the maintenance password setting screen.

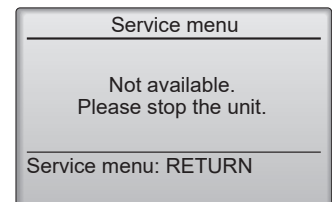
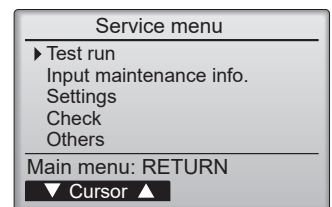
3. If the password matches, the Service menu will appear.

The type of menu that appears depends on the connected indoor units' type.

Note: Air conditioning units may need to be stopped to make only at "Settings". There may be some settings that cannot be made when the system is centrally controlled.



A screen will appear that indicates the setting has been saved.



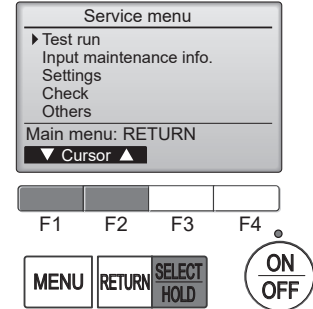
Navigating through the screens

- To go back to the Service menu [MENU] button
- To return to the previous screen..... [RETURN] button

12-4. TEST RUN

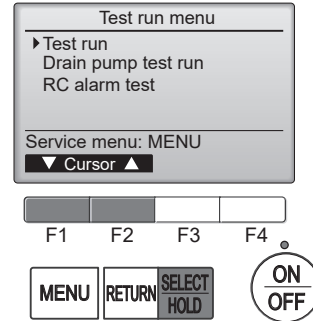
12-4-1. PAR-42MAAUB

1. Select "Service" from the Main menu, and press the [SELECT/HOLD] button.



Select "Test run" with the [F1] or [F2] button, and press the [SELECT/HOLD] button.

2. Select "Test run" with the [F1] or [F2] button, and press the [SELECT/HOLD] button.

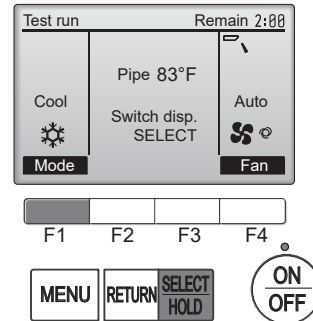


Test run operation

Press the [F1] button to go through the operation modes in the order of "Cool and Heat".

Cool mode: Check the cold air blows out.
Heat mode: Check the heat blows out.

Check the operation of the outdoor unit's fan.



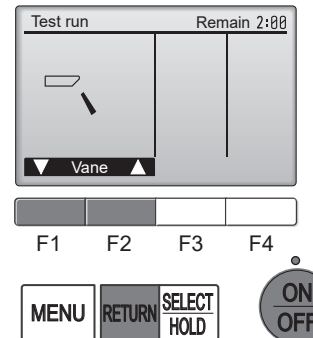
Press the [SELECT/HOLD] button and open the Vane setting screen.

Auto vane check

Check the auto vane with the [F1] [F2] buttons.

Press the [RETURN] button to return to "Test run operation".











Press the [ON/OFF] button.

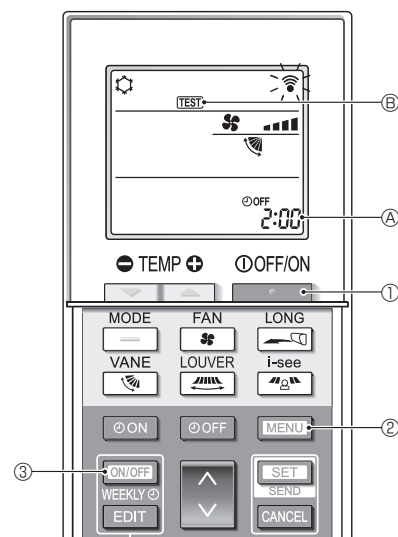


When the test run is completed, the "Test run menu" screen will appear.
The test run will automatically stop after 2 hours.

*The function is available only for the model with vanes.

12-4-2. PAR-SL101A-E

1. Press the  button ① to stop the air conditioner.
 - If the weekly timer is enabled (**WEEKLY** is on), press the  button ③ to disable it (**WEEKLY** is off).
2. Press the  button ② for 5 seconds.
 - **CHECK** comes on and the unit enters the service mode.
3. Press the  button ②.
 - **TEST** ⑤ comes on and the unit enters the test run mode.
4. Press the following buttons to start the test run.
 - : Switch the operation mode between cooling and heating and start the test run.
 - : Switch the fan speed and start the test run.
 - : Switch the airflow direction and start the test run.
 - : Switch the louver and start the test run.
 - : Start the test run.
5. Stop the test run.
 - Press the  button ① to stop the test run.
 - After 2 hours, the stop signal is transmitted.



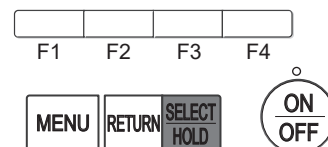
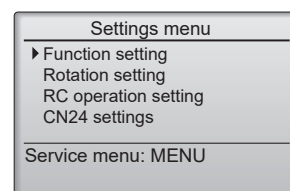
12-5. FUNCTION SETTING

12-5-1. PAR-42MAAUB

1. Select "Service" from the Main menu, and press the [SELECT/HOLD] button.

Select "Setting" from the Service menu, and press the [SELECT/HOLD] button.

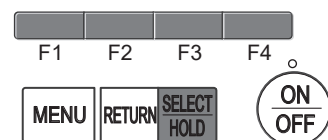
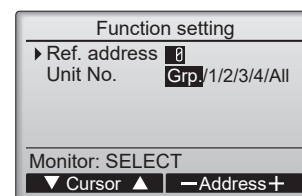
Select "Function setting", and press the [SELECT/HOLD] button.



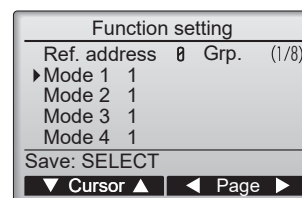
2. Set the indoor unit refrigerant addresses and unit numbers with the [F1] through [F4] buttons, and then press the [SELECT/HOLD] button to confirm the current setting.

Note: Checking the indoor unit No.

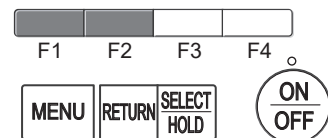
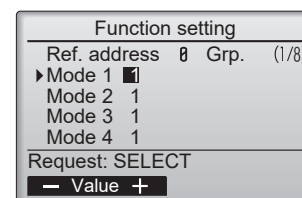
When the [SELECT/HOLD] button is pressed, the target indoor unit will start fan operation. If the unit is common or when running all units, all indoor units for the selected refrigerant address will start fan operation.



3. Toggle through the pages with the [F3] or [F4] button.
Select the mode number with the [F1] or [F2] button, and then press the [SELECT/HOLD] button.



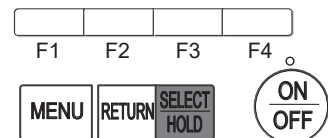
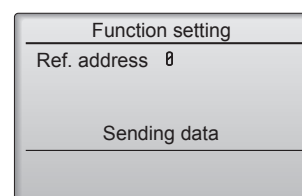
4. Select the setting number with the [F1] or [F2] button.
Setting range for modes 1 through 28: 1 through 3
Setting range for modes 31 through 66: 1 through 15



5. When the settings are completed, press the [SELECT/HOLD] button to send the setting data from the remote controller to the indoor units.
When the transmission is successfully completed, the screen will return to the Function setting screen.

Note: • Make the above settings only on Mr. Slim units as necessary.

- The above function settings are not available for the CITY MULTI units.
- Refer to the indoor unit Installation Manual for the detailed information about initial settings, mode numbers, and setting numbers for the indoor units.
- Be sure to write down the settings for all functions if any of the initial settings has been changed after the completion of installation work.



12-5-2. PAR-SL101A-E

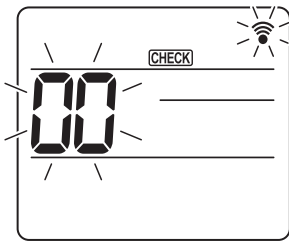


Fig. 1

1. Going to the function select mode

Press the **[MENU]** button between of 5 seconds.

(Start this operation from the status of remote controller display turned off.)

[CHECK] is lit and "00" blinks. (Fig. 1)

Press the **[↓]** button to set the "50".

Direct the wireless remote controller toward the receiver of the indoor unit and press the **[SET]** button.

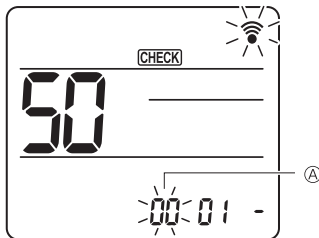


Fig. 2

2. Setting the unit number

Press the **[↓]** button to set unit number **Ⓐ**. (Fig. 2)

Direct the wireless remote controller toward the receiver of the indoor unit and press the **[SET]** button.

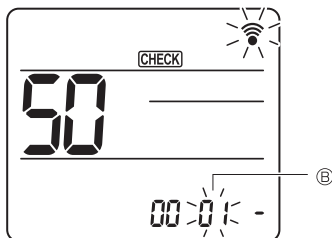


Fig. 3

3. Select a mode

Press the **[↓]** button to set Mode number **Ⓑ**. (Fig. 3)

Direct the wireless remote controller toward the receiver of the indoor unit and press the **[SET]** button.

Current setting number:

- 1=1 beep (1 second)
- 2=2 beep (1 second each)
- 3=3 beep (1 second each)

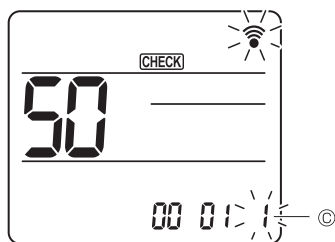


Fig. 4

4. Selecting the setting number

Use the **[↓]** button to change the Setting number **Ⓒ**. (Fig. 4)

Direct the wireless remote controller toward the receiver of the indoor unit and press the **[SET]** button.

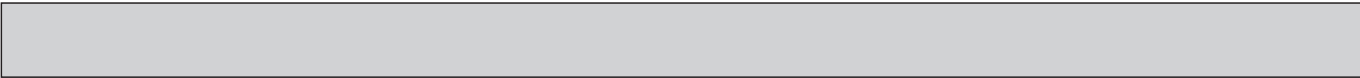
5. To select multiple functions continuously

Repeat select **Ⓒ** and **Ⓓ** to change multiple function settings continuously.

6. Complete function selection

Direct the wireless remote controller toward the sensor of the indoor unit and press the **[OFF/ON]** button.

Note: Be sure to write down the settings for all functions if any of the initial settings has been changed after the completion of installation work.

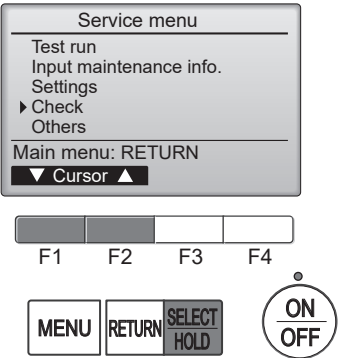


12-6. ERROR HISTORY

1. Select "Service" from the Main menu, and press the [SELECT/HOLD] button.



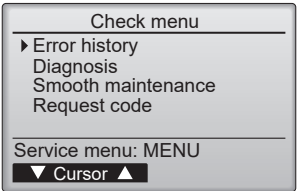
Select "Check" with the [F1] or [F2] button, and press the [SELECT/HOLD] button.



2. Select "Error history" with the [F1] or [F2] button, and press the [SELECT/HOLD] button.

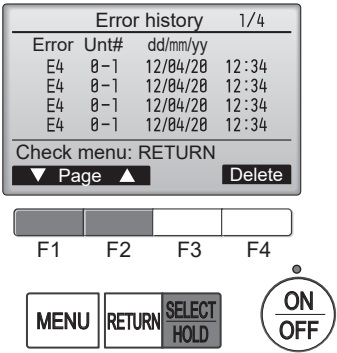


Select "Error history" from the Error history menu, and press the [SELECT/HOLD] button.



3. 16 error history records will appear.

4 records are shown per page, and the top record on the first page indicates the latest error record.



4. Deleting the error history

To delete the error history, press the [F4] button (Delete) on the screen that shows error history.
A confirmation screen will appear asking if you want to delete the error history.

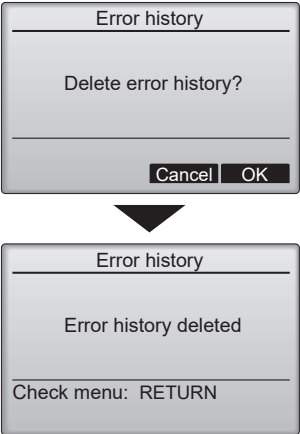


Press the [F4] button (OK) to delete the history.



"Error history deleted" will appear on the screen.

Press the [RETURN] button to go back to the Check menu screen.



12-7. SELF-DIAGNOSIS

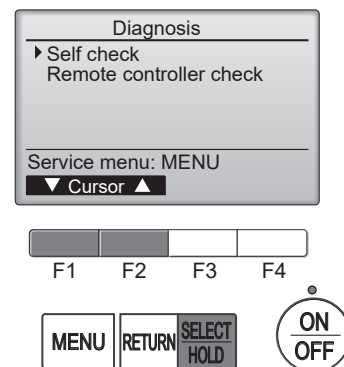
12-7-1. PAR-42MAAUB

1. Select "Service" from the Main menu,
and press the [SELECT/HOLD] button.

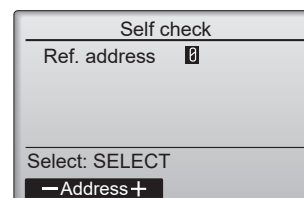
Select "Check" from the Service menu,
and press the [SELECT/HOLD] button.

Select "Diagnosis" from the Check menu,
and press the [SELECT/HOLD] button.

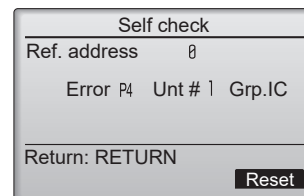
Select "Self check" with the [F1] or [F2] button,
and press the [SELECT/HOLD] button.



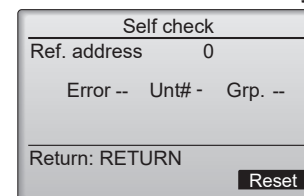
2. With the [F1] or [F2] button, enter the refrigerant address, and press the [SELECT/HOLD] button.



3. Check code, unit number, attribute will appear.
"-" will appear if no error history is available.



When there is no error history



4. Resetting the error history

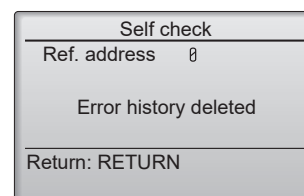
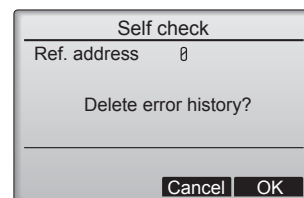
Press the [F4] button (Reset) on the screen that shows the error history.

A confirmation screen will appear asking if you want to delete the error history.

Press the [F4] button (OK) to delete the error history.

If deletion fails, "Request rejected" will appear.

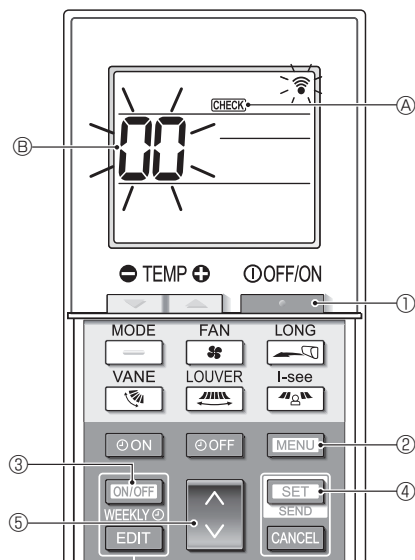
"Unit not exist" will appear if no indoor units that are correspond to the entered address are found.











Navigating through the screens

- To go back to the Service menu [MENU] button
- To return to the previous screen..... [RETURN] button

12-7-2. PAR-SL101A-E



- Press the  button ① to stop the air conditioner.
 - If the weekly timer is enabled (**WEEKLY** is on), press the  button ③ to disable it (**WEEKLY** is off).
- Press the  button ② for 5 seconds.
 -  (A) comes on and the unit enters the self-check mode.
- Press the  button ⑤ to select the refrigerant address (M-NET address) (B) of the indoor unit for which you want to perform the self-check.
- Press the  button ④.
 - If an error is detected, the check code is indicated by the number of beeps from the indoor unit and the number of blinks of the OPERATION INDICATOR lamp.
- Press the  button ①.
 -  (A) and the refrigerant address (M-NET address) (B) go off and the self-check is completed.

12-8. REMOTE CONTROLLER CHECK

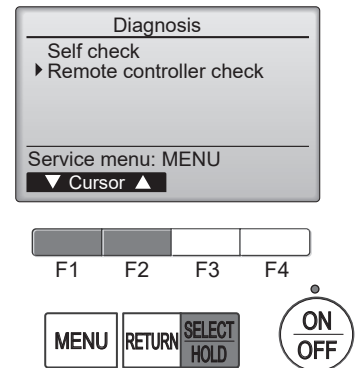
If operations cannot be completed with the remote controller, diagnose the remote controller with this function.

1. Select "Service" from the Main menu, and press the [SELECT/HOLD] button.

Select "Check" from the Service menu, and press the [SELECT/HOLD] button.

Select "Diagnosis" from the Check menu, and press the [SELECT/HOLD] button.

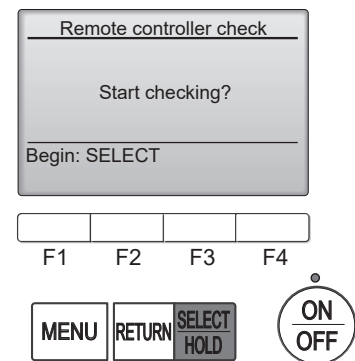
Select "Remote controller check" with the [F1] or [F2] button, and press the [SELECT/HOLD] button.



2. Select "Remote controller check" from the Diagnosis menu, and press the [SELECT/HOLD] button to start the remote controller check and see the check results.

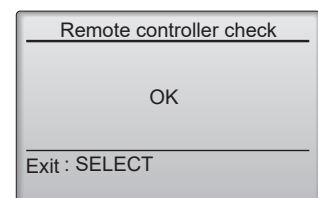
To cancel the remote controller check and exit the "Remote controller check" menu screen, press the [MENU] or the [RETURN] button.

The remote controller will not reboot itself.



3. **OK:** No problems are found with the remote controller. Check other parts for problems.
E3, 6832: There is noise on the transmission line, or the indoor unit or another remote controller is faulty. Check the transmission line and the other remote controllers.
NG (ALL0, ALL1): Send-receive circuit fault. The remote controller needs replacing.
ERC: The number of data errors is the discrepancy between the number of bits in the data transmitted from the remote controller and that of the data that was actually transmitted over the transmission line. If data errors are found, check the transmission line for external noise interference.

Remote controller check results screen

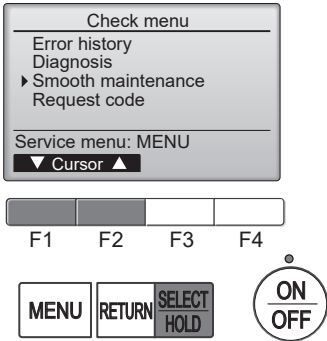


If the [SELECT/HOLD] button is pressed after the remote controller check results are displayed, remote controller check will end, and the remote controller will automatically reboot itself.

Check the remote controller display and see if anything is displayed (including lines). Nothing will appear on the remote controller display if the correct voltage (8.5–12 VDC) is not supplied to the remote controller. If this is the case, check the remote controller wiring and indoor units.

12-9. SMOOTH MAINTENANCE

1. Select "Service" from the Main menu, and press the [SELECT/HOLD] button.



Select "Check" with the [F1] or [F2] button, and press the [SELECT/HOLD] button.

Select "Smooth maintenance" with the [F1] or [F2] button, and press the [SELECT/HOLD] button.

2. Set each item.

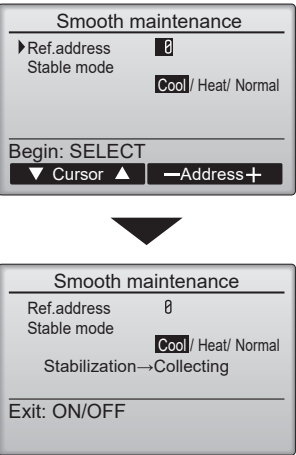
Select the item to be changed with the [F1] or [F2] button.

Select the required setting with the [F3] or [F4] button.

- <Ref.address>setting [0] – [15]
- <Stable mode>setting [Cool] / [Heat] / [Normal]

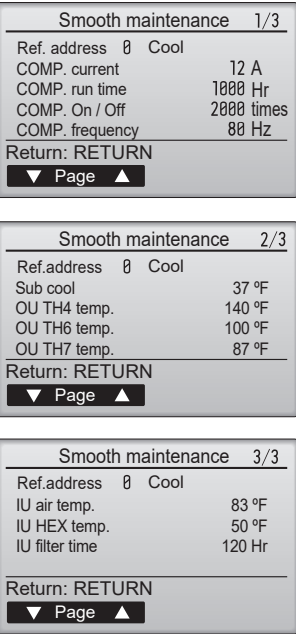
Press the [SELECT/HOLD] button, Fixed operation will start.

Note: Stable mode will take approx. 20 minutes.



3. The operation data will appear.

The Compressor-Accumulated operating (COMP. run) time is 10-hour unit, and the Compressor-Number of operation times (COMP. ON/OFF) is a 100-time unit (fractions discarded).



Navigating through the screens

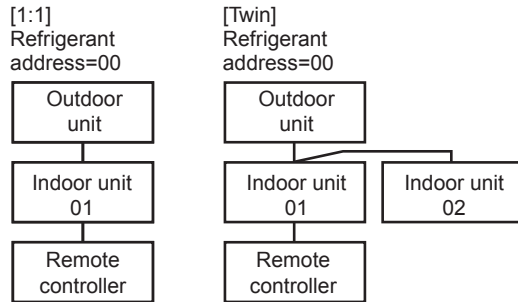
- To go back to the Service menu [MENU] button
- To return to the previous screen [RETURN] button

■ Refrigerant address

Single refrigerant system

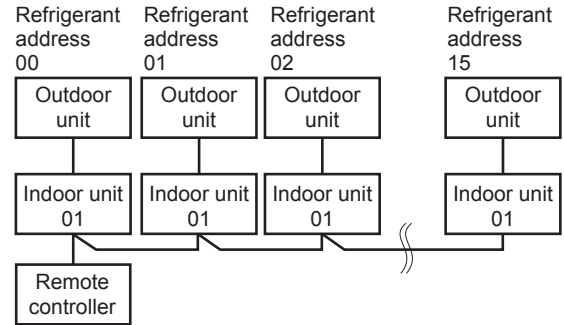
In the case of single refrigerant system, the refrigerant address is "00" and no operation is required.

Simultaneous twin, triple units belong to this category (single refrigerant system).



Multi refrigerant system (group control)

Up to 16 refrigerant systems (16 outdoor units) can be connected as a group by 1 remote controller. To check or set the refrigerant addresses.



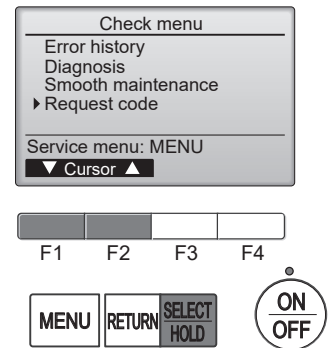
12-10. REQUEST CODE

Details on the operation data including each thermistor temperature and error history can be confirmed with the remote controller.

1. Select "Service" from the Main menu, and press the [SELECT/HOLD] button.

Select "Check" with the [F1] or [F2] button, and press the [SELECT/HOLD] button.

Select "Request code" with the [F1] or [F2] button, and press the [SELECT/HOLD] button.



2. Set the Refrigerant address and Request code.

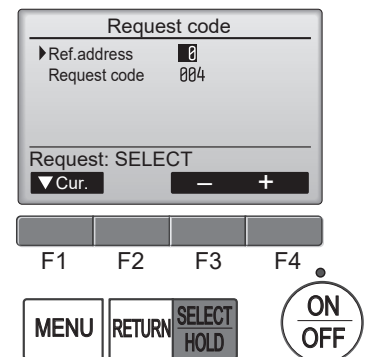
Select the item to be changed with the [F1] or [F2] button.

Select the required setting with the [F3] or [F4] button.

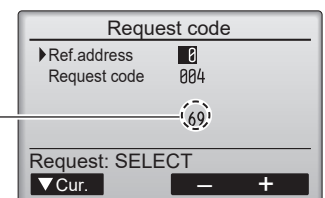
■ <Ref.address>setting [0] – [15]

■ <Request code>setting

Press the [SELECT/HOLD] button, Data will be collected and displayed.



Request code: 004
Discharge temperature: 69°C



| Model name | | Indoor unit | | SLZ-AF09NL | SLZ-AF12NL | SLZ-AF15NL | SLZ-AF18NL |
|---------------------------------|---------------------------------------|------------------------------|----------------------------|---------------------------|-------------|---------------------|----------------------|
| | | Outdoor unit | | SUZ-AA09NL | SUZ-AA12NL | SUZ-AA15NL | SUZ-AA18NL |
| Cooling | at 95°F | Max. Capacity | Btu/h | 9,000 | 12,000 | 15,000 | 18,000 |
| | | Rated Capacity ^{*1} | Btu/h | 9,000 | 12,000 | 15,000 | 18,000 |
| | | Min. Capacity | Btu/h | 2,300 | 3,000 | 3,600 | 5,300 |
| | | Total Input | W | 680 | 960 | 1,240 | 1,500 |
| | | EER2 | Btu/h/W | 13.2 | 12.5 | 12.0 | 12.0 |
| | | Moisture Removal | Pints/h | 0.7 | 1.8 | 3.8 | 4.8 |
| | | SHF | | 0.90 | 0.82 | 0.72 | 0.70 |
| | | Power factor | % | 90 | 98 | 97 | 99 |
| | | SEER2 | Btu/h/W | 21.0 | 20.3 | 20.6 | 17.5 |
| | | Heating | at 47°F | Max. Capacity | Btu/h | 12,800 | 15,000 |
| Rated Capacity | Btu/h | | | 12,000 | 15,000 | 18,000 | 20,000 |
| Min. Capacity | Btu/h | | | 4,900 | 4,900 | 4,600 | 7,900 |
| Total Input | W | | | 910 | 1,350 | 1,580 | 1,880 |
| COP | W/W | | | 3.80 | 3.20 | 3.30 | 3.10 |
| Power factor | % | | | 95 | 95 | 99 | 99 |
| at 17°F | Rated Capacity | | Btu/h | 7,800 | 9,800 | 11,300 | 13,200 |
| | Total Input | | W | 740 | 1,090 | 1,190 | 1,430 |
| | COP | | W/W | 3.0 | 2.6 | 2.7 | 2.7 |
| | HSPF2(IV/V) | | Btu/h/W | 11.8 | 9.7 | 10.1 | 9.6 |
| Power supply | Phase,Cycle,Voltage | | | 1-phase, 60 Hz, 208/230 V | | | |
| Voltage | Breaker size | | A | 15 | | 20 | 30 |
| | Indoor - Outdoor S1-S2 | | | AC208 V / 230 V | | | |
| | Indoor - Outdoor S2-S3 | | | DC24 V | | | |
| | Indoor - Remote controller | | | DC12 V | | | |
| Indoor unit | MCA | | A | 1.0 | | | |
| | MOCP | | A | 15 | | | |
| | Fan Motor Output | | W | 50 | | | |
| | Air flow(LoLo-Lo-Mid-Hi) | | (CFM) | 230-265-300 | 230-280-335 | 245-315-405 | 300-420-475 |
| | External Static Pressure | | in. WG [Pa] | 0 | | | |
| | Sound Pressure Level (LoLo-Lo-Mid-Hi) | | dB(A) | 25-28-31 | 25-30-34 | 27-34-39 | 32-40-43 |
| | Dimensions | W:mm [inch] | 570 [22-7/16] | | | | |
| | | D:mm [inch] | 570 [22-7/16] | | | | |
| | | H:mm [inch] | 208 [8-4/16] | | | | |
| | Weight Unit | kg [lbs] | 14 [31] | | | | |
| RemoteController | Field Drain pipe size | | mm [inch] | 32 [1-1/4] | | | |
| | Refrigerant pipe size Gas | | mm [inch] | ø9.52 [3/8F] | | ø12.7 [1/2F] | |
| | Refrigerant pipe size Liquid | | mm [inch] | ø6.35 [1/4F] | | | |
| | Attached in Indoor Unit | | | | | | |
| | MCA | | A | 13 | 14 | 17 | 25 |
| | MOCP | | A | 22 | 23 | 29 | 42 |
| | SCCR | | kA | 5 | | | |
| | Inverter input | | A | 8.7 | | 11.7 | |
| | Fan Motor Output | | W | 55 | | 50 | |
| | Outdoor unit | Compressor | | Model | SRB092FQFMC | | SRB140FQHMC |
| Air flow | | CFM | 1,229/1,172 | | | 2,193/1,949 | |
| Refrigerant Control | | | Electronic Expansion Valve | | | | |
| Defrost Method | | | Reverse Cycle | | | | |
| Sound Pressure Level at cooling | | dB(A) | 48 | 49 | | 54 | |
| Sound Pressure Level at heating | | dB(A) | 50 | 51 | | 55 | |
| External Finish Color | | | Ivory Munsell 3Y 7.8/1.1 | | | | |
| Dimensions | | W: mm [inch] | 800 [31-8/16] | | | | |
| | | D: mm [inch] | 285 [11-4/16] | | | | |
| | | H: mm [inch] | 550 [21-11/16] | | | | |
| Weight Unit | kg [lbs] | 40 [88.2] | | | | | |
| Refrigerant | Type | | R454B | | | | |
| | Charge | | kg [lbs,oz] | 0.9 [1 lbs + 15 oz] | | 1.02 [2 lbs + 3 oz] | 1.35 [2 lbs + 15 oz] |
| | Oil | | Model | RM68EH | | | |
| | | | L [oz] | 0.35 [11.8] | | 0.43 [14.5] | |
| Refrigerant Pipe Size | Gas side O.D. | | mm [inch] | 9.52 [3/8] | | 12.72 [1/2] | |
| Refrigerant pipe length | Liquid side O.D. | | mm [inch] | 6.35 [1/4] | | | |
| Refrigerant pipe length | Height difference | | | 12 [40] | | 15 [50] | |
| Refrigerant Piping | Length | | | 20 [65] | | 30 [100] | |
| Connection Method | Indoor/Outdoor | | | Not supplied | | | |
| | | | | Flared | | | |

NOTES: *1.Rating conditions (cooling)-Indoor : D.B. 26.7°C(80°F), W.B. 19.4°C(67°F) Outdoor : D.B. 35°C(95°F), W.B. 23.9°C(75°F)

| Model name | | Indoor unit | | SLZ-AF09NL | SLZ-AF12NL | SLZ-AF15NL | SLZ-AF18NL | |
|--------------------|---------------------------------------|-------------------|----------------------------|---------------------------|--------------|--------------|--------------|--------|
| | | Outdoor unit | | SUZ-AA09NLHZ | SUZ-AA12NLHZ | SUZ-AA15NLHZ | SUZ-AA18NLHZ | |
| Cooling | at 95°F | Max. Capacity | Btu/h | 9,000 | 12,000 | 15,000 | 18,000 | |
| | | Rated Capacity *1 | Btu/h | 9,000 | 12,000 | 15,000 | 18,000 | |
| | | Min. Capacity | Btu/h | 5,200 | 5,200 | 5,300 | 5,300 | |
| | | Total Input | W | 720 | 860 | 1,180 | 1,500 | |
| | | EER2 | Btu/h/W | 12.5 | 13.9 | 12.7 | 12.0 | |
| | | Moisture Removal | Pints/h | 1.0 | 2.1 | 3.3 | 4.8 | |
| | | SHF | | 0.88 | 0.81 | 0.76 | 0.70 | |
| | | Power factor | % | 95 | 95 | 99 | 99 | |
| | | SEER2 | Btu/h/W | 16.6 | 16.8 | 17.0 | 17.5 | |
| | | Heating | at 47°F | Max. Capacity | Btu/h | 14,600 | 16,900 | 19,000 |
| Rated Capacity | Btu/h | | | 12,000 | 15,000 | 17,000 | 20,000 | |
| Min. Capacity | Btu/h | | | 7,700 | 7,700 | 7,800 | 7,900 | |
| Total Input | W | | | 1,020 | 1,290 | 1,500 | 1,880 | |
| COP | W/W | | | 3.40 | 3.40 | 3.30 | 3.10 | |
| Power factor | % | | | 93 | 98 | 98 | 99 | |
| at 17°F | Rated Capacity | | Btu/h | 7,500 | 9,600 | 11,000 | 13,200 | |
| | Total Input | | W | 930 | 1,130 | 1,310 | 1,570 | |
| | COP | | W/W | 2.3 | 2.4 | 2.4 | 2.4 | |
| HSPF2(IV/V) | Btu/h/W | | 9.3 | 9.4 | 9.2 | 9.3 | | |
| Power supply | Phase,Cycle,Voltage | | | 1-phase, 60 Hz, 208/230 V | | | | |
| | | Breaker size | A | 25 | 30 | | | |
| Voltage | Indoor - Outdoor S1-S2 | | | AC208 V / 230 V | | | | |
| | Indoor - Outdoor S2-S3 | | | DC24 V | | | | |
| | Indoor - Remote controller | | | DC12 V | | | | |
| Indoor unit | MCA | A | 1 | | | | | |
| | MOCP | A | 15 | | | | | |
| | Fan Motor Output | W | 50 | | | | | |
| | Air flow(LoLo-Lo-Mid-Hi) | DRY(CFM) | 230-265-300 | 230-280-335 | 245-315-405 | 300-420-475 | | |
| | External Static Pressure | in. WG [Pa] | 0 | | | | | |
| | Sound Pressure Level (LoLo-Lo-Mid-Hi) | dB(A) | 25-28-31 | 25-30-34 | 27-34-39 | 32-40-43 | | |
| | Dimensions | W:mm [inch] | 570 [22-7/16] | | | | | |
| | | D:mm [inch] | 570 [22-7/16] | | | | | |
| | | H:mm [inch] | 208 [8-3/16] | | | | | |
| | Weight Unit | kg [lbs] | 14 [31] | | | | | |
| | Field Drain pipe size | mm [inch] | 32 [1-1/4] | | | | | |
| | Refrigerant pipe size Gas | mm [inch] | ø9.52 [3/8F] | | ø12.7 [1/2F] | | | |
| | Refrigerant pipe size Liquid | mm [inch] | ø6.35 [1/4F] | | | | | |
| RemoteController | | | Attached in Indoor Unit | | | | | |
| Outdoor unit | MCA | A | 24 | 25 | | | | |
| | MOCP | A | 41 | 42 | | | | |
| | SCCR | kA | 5 | | | | | |
| | Inverter input | A | 17.2 | | | | | |
| | Fan Motor Output | W | 50 | | | | | |
| | Compressor | Model | SRB172FQHMT | | | | | |
| | Air flow | CFM | 2,193/1,949 | | | | | |
| | Refrigerant Control | | Electronic Expansion Valve | | | | | |
| | Defrost Method | | Reverse Cycle | | | | | |
| | Sound Pressure Level at cooling | dB(A) | 54 | | | | | |
| | Sound Pressure Level at heating | dB(A) | 55 | | | | | |
| | External Finish Color | | Ivory Munsell 3Y 7.8/1.1 | | | | | |
| | Dimensions | W: mm [inch] | 330 [33-2/16] | | | | | |
| | | D: mm [inch] | 330 [13] | | | | | |
| | | H: mm [inch] | 880 [34-11/16] | | | | | |
| | Weight Unit | kg [lbs] | 60.33 [133] | | | | | |
| | Refrigerant | Type | | R454B | | | | |
| | | Charge | kg [lbs,oz] | 1.35 [2 lbs + 15 oz] | | | | |
| | | Oil | Model | RM68EH | | | | |
| L [oz] | | | 0.43 [14.5] | | | | | |
| Refrigerant | Gas side O.D. | mm [inch] | 9.52 [3/8] | | 12.72 [1/2] | | | |
| Pipe Size | Liquid side O.D. | mm [inch] | 6.35 [1/4] | | | | | |
| Refrigerant | Height difference | | 15 [50] | | | | | |
| pipe length | Length | | 30 [100] | | | | | |
| Refrigerant Piping | | | Not supplied | | | | | |
| Connection | | | | | | | | |
| Method | Indoor/Outdoor | | | Flared | | | | |

NOTES: *1.Rating conditions (cooling)-Indoor : D.B. 26.7°C(80°F), W.B. 19.4°C(67°F) Outdoor : D.B. 35°C(95°F), W.B. 23.9°C(75°F)

OUTLET AIR SPEED AND COVERAGE

| Model | Function | Airflow (CFM) | Air speed (ft/s) | Coverage (ft) |
|------------|----------|---------------|------------------|---------------|
| SLZ-AF09NL | Dry | 300 | 19.7 | 15.1 |
| SLZ-AF12NL | | 335 | 22.0 | 16.9 |
| SLZ-AF15NL | | 405 | 26.7 | 20.3 |
| SLZ-AF18NL | | 475 | 31.3 | 23.7 |

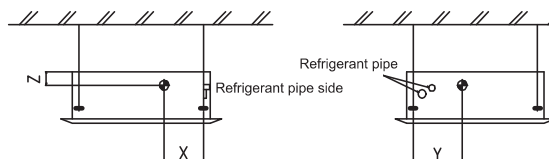
- The air coverage is the figure up to the position where the air speed is 1 ft/s, when air is blown out horizontally from the unit properly at the High speed position.
The coverage should be used only as a general guideline since it varies according to the size of the room and furniture arranged inside the room.

T2

POSITION OF THE CENTER OF GRAVITY

INDOOR UNIT

Ceiling-cassette type



Unit: inch(mm)

| Model name | X | Y | Z |
|------------|------------------|-----------------|-----------------|
| SLZ-AF09NL | 5-29/32 (150) | 10-1/4 (260) | 4-5/32 (105) |
| SLZ-AF12NL | 5-29/32 (150) | 10-1/4 (260) | 4-5/32 (105) |
| SLZ-AF15NL | 5-29/32 (150) | 10-1/4 (260) | 4-5/32 (105) |
| SLZ-AF18NL | 5-29/32 (150) | 10-1/4 (260) | 4-5/32 (105) |

T3-1. INVERTER

T3-1-1. COOLING CAPACITY

SLZ-AF09NL/SUZ-AA09NL

CAPACITY (Btu/h): 9,000 INPUT (kW): 0.68 SHF: 0.91

| Indoor intake air D.B.(°C) | Indoor intake air D.B.(°F) | Indoor intake air W.B.(°C) | Indoor intake air W.B.(°F) | Outdoor intake air °C/°F D.B. | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|----------------------------------|----------------------------------|----------------------------------|-------------------------------|--------|------|------|--------|--------|------|------|--------|-------|------|------|-------|-------|------|------|--------|-------|------|------|--------|-------|------|------|
| | | | | 20/68 | | | | 25/77 | | | | 30/86 | | | | 35/95 | | | | 40/104 | | | | 46/115 | | | |
| | | | | CA | SHC | SHF | P.C. | CA | SHC | SHF | P.C. | CA | SHC | SHF | P.C. | CA | SHC | SHF | P.C. | CA | SHC | SHF | P.C. | CA | SHC | SHF | P.C. |
| 19 | 66 | 16 | 61 | 9,430 | 7,600 | 0.81 | 0.45 | 8,870 | 7,149 | 0.81 | 0.51 | 8,160 | 6,577 | 0.81 | 0.56 | 7,488 | 6,035 | 0.81 | 0.61 | 6,816 | 5,493 | 0.81 | 0.64 | 6,143 | 4,952 | 0.81 | 0.67 |
| 19 | 66 | 18 | 64 | 10,307 | 7,071 | 0.69 | 0.50 | 9,747 | 6,686 | 0.69 | 0.56 | 9,037 | 6,200 | 0.69 | 0.61 | 8,365 | 5,738 | 0.69 | 0.65 | 7,693 | 5,277 | 0.69 | 0.68 | 7,021 | 4,816 | 0.69 | 0.71 |
| 20 | 68 | 16 | 61 | 9,430 | 7,978 | 0.85 | 0.45 | 8,870 | 7,504 | 0.85 | 0.51 | 8,160 | 6,903 | 0.85 | 0.56 | 7,488 | 6,335 | 0.85 | 0.61 | 6,816 | 5,766 | 0.85 | 0.64 | 6,143 | 5,197 | 0.85 | 0.67 |
| 20 | 68 | 18 | 64 | 10,307 | 7,483 | 0.73 | 0.50 | 9,747 | 7,076 | 0.73 | 0.56 | 9,037 | 6,561 | 0.73 | 0.61 | 8,365 | 6,073 | 0.73 | 0.65 | 7,693 | 5,585 | 0.73 | 0.68 | 7,021 | 5,097 | 0.73 | 0.71 |
| 20 | 68 | 20 | 68 | 10,755 | 6,518 | 0.61 | 0.52 | 10,307 | 6,246 | 0.61 | 0.57 | 9,710 | 5,884 | 0.61 | 0.63 | 9,000 | 5,454 | 0.61 | 0.68 | 8,290 | 5,024 | 0.61 | 0.71 | 7,693 | 4,662 | 0.61 | 0.75 |
| 22 | 72 | 16 | 61 | 9,430 | 8,732 | 0.93 | 0.45 | 8,870 | 8,213 | 0.93 | 0.51 | 8,160 | 7,556 | 0.93 | 0.56 | 7,488 | 6,934 | 0.93 | 0.61 | 6,816 | 6,311 | 0.93 | 0.64 | 6,143 | 5,689 | 0.93 | 0.67 |
| 22 | 72 | 18 | 64 | 10,307 | 8,307 | 0.81 | 0.50 | 9,747 | 7,856 | 0.81 | 0.56 | 9,037 | 7,284 | 0.81 | 0.61 | 8,365 | 6,742 | 0.81 | 0.65 | 7,693 | 6,201 | 0.81 | 0.68 | 7,021 | 5,659 | 0.81 | 0.71 |
| 22 | 72 | 20 | 68 | 10,755 | 7,378 | 0.69 | 0.52 | 10,307 | 7,071 | 0.69 | 0.57 | 9,710 | 6,661 | 0.69 | 0.63 | 9,000 | 6,174 | 0.69 | 0.68 | 8,290 | 5,687 | 0.69 | 0.71 | 7,693 | 5,277 | 0.69 | 0.75 |
| 24 | 75 | 16 | 61 | 9,430 | 9,430 | 1.00 | 0.45 | 8,870 | 8,870 | 1.00 | 0.51 | 8,160 | 8,160 | 1.00 | 0.56 | 7,488 | 7,488 | 1.00 | 0.61 | 6,816 | 6,816 | 1.00 | 0.64 | 6,143 | 6,143 | 1.00 | 0.67 |
| 24 | 75 | 18 | 64 | 10,307 | 9,132 | 0.89 | 0.50 | 9,747 | 8,636 | 0.89 | 0.56 | 9,037 | 8,007 | 0.89 | 0.61 | 8,365 | 7,412 | 0.89 | 0.65 | 7,693 | 6,816 | 0.89 | 0.68 | 7,021 | 6,220 | 0.89 | 0.71 |
| 24 | 75 | 20 | 68 | 10,755 | 8,238 | 0.77 | 0.52 | 10,307 | 7,895 | 0.77 | 0.57 | 9,710 | 7,438 | 0.77 | 0.63 | 9,000 | 6,894 | 0.77 | 0.68 | 8,290 | 6,350 | 0.77 | 0.71 | 7,693 | 5,893 | 0.77 | 0.75 |
| 24 | 75 | 22 | 72 | 11,353 | 7,334 | 0.65 | 0.55 | 10,979 | 7,093 | 0.65 | 0.61 | 10,307 | 6,658 | 0.65 | 0.66 | 9,635 | 6,224 | 0.65 | 0.71 | 8,963 | 5,790 | 0.65 | 0.74 | 8,216 | 5,307 | 0.65 | 0.76 |
| 26 | 79 | 16 | 61 | 9,430 | 9,430 | 1.00 | 0.45 | 8,870 | 8,870 | 1.00 | 0.51 | 8,160 | 8,160 | 1.00 | 0.56 | 7,488 | 7,488 | 1.00 | 0.61 | 6,816 | 6,816 | 1.00 | 0.64 | 6,143 | 6,143 | 1.00 | 0.67 |
| 26 | 79 | 18 | 64 | 10,307 | 9,957 | 0.97 | 0.50 | 9,747 | 9,415 | 0.97 | 0.56 | 9,037 | 8,730 | 0.97 | 0.61 | 8,365 | 8,081 | 0.97 | 0.65 | 7,693 | 7,431 | 0.97 | 0.68 | 7,021 | 6,782 | 0.97 | 0.71 |
| 26 | 79 | 20 | 68 | 10,755 | 9,099 | 0.85 | 0.52 | 10,307 | 8,720 | 0.85 | 0.57 | 9,710 | 8,214 | 0.85 | 0.63 | 9,000 | 7,614 | 0.85 | 0.68 | 8,290 | 7,014 | 0.85 | 0.71 | 7,693 | 6,508 | 0.85 | 0.75 |
| 26 | 79 | 22 | 72 | 11,353 | 8,242 | 0.73 | 0.55 | 10,979 | 7,971 | 0.73 | 0.61 | 10,307 | 7,483 | 0.73 | 0.66 | 9,635 | 6,995 | 0.73 | 0.71 | 8,963 | 6,507 | 0.73 | 0.74 | 8,216 | 5,965 | 0.73 | 0.76 |
| 27 | 81 | 16 | 61 | 9,430 | 9,430 | 1.00 | 0.45 | 8,870 | 8,870 | 1.00 | 0.51 | 8,160 | 8,160 | 1.00 | 0.56 | 7,488 | 7,488 | 1.00 | 0.61 | 6,816 | 6,816 | 1.00 | 0.64 | 6,143 | 6,143 | 1.00 | 0.67 |
| 27 | 81 | 18 | 64 | 10,307 | 10,307 | 1.00 | 0.50 | 9,747 | 9,747 | 1.00 | 0.56 | 9,037 | 9,037 | 1.00 | 0.61 | 8,365 | 8,365 | 1.00 | 0.65 | 7,693 | 7,693 | 1.00 | 0.68 | 7,021 | 7,021 | 1.00 | 0.71 |
| 27 | 81 | 20 | 68 | 10,755 | 9,529 | 0.89 | 0.52 | 10,307 | 9,132 | 0.89 | 0.57 | 9,710 | 8,603 | 0.89 | 0.63 | 9,000 | 7,974 | 0.89 | 0.68 | 8,290 | 7,345 | 0.89 | 0.71 | 7,693 | 6,816 | 0.89 | 0.75 |
| 27 | 81 | 22 | 72 | 11,353 | 8,696 | 0.77 | 0.55 | 10,979 | 8,410 | 0.77 | 0.61 | 10,307 | 7,895 | 0.77 | 0.66 | 9,635 | 7,380 | 0.77 | 0.71 | 8,963 | 6,865 | 0.77 | 0.74 | 8,216 | 6,293 | 0.77 | 0.76 |
| 28 | 82 | 16 | 61 | 9,430 | 9,430 | 1.00 | 0.45 | 8,870 | 8,870 | 1.00 | 0.51 | 8,160 | 8,160 | 1.00 | 0.56 | 7,488 | 7,488 | 1.00 | 0.61 | 6,816 | 6,816 | 1.00 | 0.64 | 6,143 | 6,143 | 1.00 | 0.67 |
| 28 | 82 | 18 | 64 | 10,307 | 10,307 | 1.00 | 0.50 | 9,747 | 9,747 | 1.00 | 0.56 | 9,037 | 9,037 | 1.00 | 0.61 | 8,365 | 8,365 | 1.00 | 0.65 | 7,693 | 7,693 | 1.00 | 0.68 | 7,021 | 7,021 | 1.00 | 0.71 |
| 28 | 82 | 20 | 68 | 10,755 | 9,959 | 0.93 | 0.52 | 10,307 | 9,544 | 0.93 | 0.57 | 9,710 | 8,991 | 0.93 | 0.63 | 9,000 | 8,334 | 0.93 | 0.68 | 8,290 | 7,677 | 0.93 | 0.71 | 7,693 | 7,124 | 0.93 | 0.75 |
| 28 | 82 | 22 | 72 | 11,353 | 9,150 | 0.81 | 0.55 | 10,979 | 8,849 | 0.81 | 0.61 | 10,307 | 8,307 | 0.81 | 0.66 | 9,635 | 7,766 | 0.81 | 0.71 | 8,963 | 7,224 | 0.81 | 0.74 | 8,216 | 6,622 | 0.81 | 0.76 |
| 30 | 86 | 16 | 61 | 9,430 | 9,430 | 1.00 | 0.45 | 8,870 | 8,870 | 1.00 | 0.51 | 8,160 | 8,160 | 1.00 | 0.56 | 7,488 | 7,488 | 1.00 | 0.61 | 6,816 | 6,816 | 1.00 | 0.64 | 6,143 | 6,143 | 1.00 | 0.67 |
| 30 | 86 | 18 | 64 | 10,307 | 10,307 | 1.00 | 0.50 | 9,747 | 9,747 | 1.00 | 0.56 | 9,037 | 9,037 | 1.00 | 0.61 | 8,365 | 8,365 | 1.00 | 0.65 | 7,693 | 7,693 | 1.00 | 0.68 | 7,021 | 7,021 | 1.00 | 0.71 |
| 30 | 86 | 20 | 68 | 10,755 | 10,755 | 1.00 | 0.52 | 10,307 | 10,307 | 1.00 | 0.57 | 9,710 | 9,710 | 1.00 | 0.63 | 9,000 | 9,000 | 1.00 | 0.68 | 8,290 | 8,290 | 1.00 | 0.71 | 7,693 | 7,693 | 1.00 | 0.75 |
| 30 | 86 | 22 | 72 | 11,353 | 10,058 | 0.89 | 0.55 | 10,979 | 9,728 | 0.89 | 0.61 | 10,307 | 9,132 | 0.89 | 0.66 | 9,635 | 8,536 | 0.89 | 0.71 | 8,963 | 7,941 | 0.89 | 0.74 | 8,216 | 7,279 | 0.89 | 0.76 |
| 32 | 90 | 16 | 61 | 9,430 | 9,430 | 1.00 | 0.45 | 8,870 | 8,870 | 1.00 | 0.51 | 8,160 | 8,160 | 1.00 | 0.56 | 7,488 | 7,488 | 1.00 | 0.61 | 6,816 | 6,816 | 1.00 | 0.64 | 6,143 | 6,143 | 1.00 | 0.67 |
| 32 | 90 | 18 | 64 | 10,307 | 10,307 | 1.00 | 0.50 | 9,747 | 9,747 | 1.00 | 0.56 | 9,037 | 9,037 | 1.00 | 0.61 | 8,365 | 8,365 | 1.00 | 0.65 | 7,693 | 7,693 | 1.00 | 0.68 | 7,021 | 7,021 | 1.00 | 0.71 |
| 32 | 90 | 20 | 68 | 10,755 | 10,755 | 1.00 | 0.52 | 10,307 | 10,307 | 1.00 | 0.57 | 9,710 | 9,710 | 1.00 | 0.63 | 9,000 | 9,000 | 1.00 | 0.68 | 8,290 | 8,290 | 1.00 | 0.71 | 7,693 | 7,693 | 1.00 | 0.75 |
| 32 | 90 | 22 | 72 | 11,353 | 10,967 | 0.97 | 0.55 | 10,979 | 10,606 | 0.97 | 0.61 | 10,307 | 9,957 | 0.97 | 0.66 | 9,635 | 9,307 | 0.97 | 0.71 | 8,963 | 8,658 | 0.97 | 0.74 | 8,216 | 7,936 | 0.97 | 0.76 |

SLZ-AF12NL/SUZ-AA12NL

CAPACITY (Btu/h): 12,000 INPUT (kW): 0.96 SHF: 0.84

| Indoor intake air D.B.(°C) | Indoor intake air D.B.(°F) | Indoor intake air W.B.(°C) | Indoor intake air W.B.(°F) | Outdoor intake air °C/°F D.B. | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|----------------------------------|----------------------------------|----------------------------------|-------------------------------|--------|------|------|--------|--------|------|------|--------|--------|------|------|--------|--------|------|------|--------|--------|------|------|--------|--------|------|------|
| | | | | 20/68 | | | | 25/77 | | | | 30/86 | | | | 35/95 | | | | 40/104 | | | | 46/115 | | | |
| | | | | CA | SHC | SHF | P.C. | CA | SHC | SHF | P.C. | CA | SHC | SHF | P.C. | CA | SHC | SHF | P.C. | CA | SHC | SHF | P.C. | CA | SHC | SHF | P.C. |
| 19 | 66 | 16 | 61 | 12,573 | 9,254 | 0.74 | 0.64 | 11,826 | 8,704 | 0.74 | 0.72 | 10,880 | 8,008 | 0.74 | 0.79 | 9,984 | 7,348 | 0.74 | 0.86 | 9,087 | 6,688 | 0.74 | 0.90 | 8,191 | 6,029 | 0.74 | 0.94 |
| 19 | 66 | 18 | 64 | 13,743 | 8,466 | 0.62 | 0.70 | 12,996 | 8,005 | 0.62 | 0.79 | 12,050 | 7,423 | 0.62 | 0.85 | 11,154 | 6,871 | 0.62 | 0.92 | 10,257 | 6,318 | 0.62 | 0.96 | 9,361 | 5,766 | 0.62 | 1.01 |
| 20 | 68 | 16 | 61 | 12,573 | 9,757 | 0.78 | 0.64 | 11,826 | 9,177 | 0.78 | 0.72 | 10,880 | 8,443 | 0.78 | 0.79 | 9,984 | 7,747 | 0.78 | 0.86 | 9,087 | 7,052 | 0.78 | 0.90 | 8,191 | 6,356 | 0.78 | 0.94 |
| 20 | 68 | 18 | 64 | 13,743 | 9,015 | 0.66 | 0.70 | 12,996 | 8,525 | 0.66 | 0.79 | 12,050 | 7,905 | 0.66 | 0.85 | 11,154 | 7,317 | 0.66 | 0.92 | 10,257 | 6,729 | 0.66 | 0.96 | 9,361 | 6,141 | 0.66 | 1.01 |
| 20 | 68 | 20 | 68 | 14,340 | 7,686 | 0.54 | 0.74 | 13,743 | 7,366 | 0.54 | 0.81 | 12,946 | 6,939 | 0.54 | 0.89 | 12,000 | 6,432 | 0.54 | 0.96 | 11,054 | 5,925 | 0.54 | 1.01 | 10,257 | 5,498 | 0.54 | 1.05 |
| 22 | 72 | 16 | 61 | 12,573 | 10,762 | 0.86 | 0.64 | 11,826 | 10,123 | 0.86 | 0.72 | 10,880 | 9,313 | 0.86 | 0.79 | 9,984 | 8,546 | 0.86 | 0.86 | 9,087 | 7,779 | 0.86 | 0.90 | 8,191 | 7,012 | 0.86 | 0.94 |
| 22 | 72 | 18 | 64 | 13,743 | 10,115 | 0.74 | 0.70 | 12,996 | 9,565 | 0.74 | 0.79 | 12,050 | 8,869 | 0.74 | 0.85 | 11,154 | 8,209 | 0.74 | 0.92 | 10,257 | 7,549 | 0.74 | 0.96 | 9,361 | 6,890 | 0.74 | 1.01 |
| 22 | 72 | 20 | 68 | 14,340 | 8,834 | 0.62 | 0.74 | 13,743 | 8,466 | 0.62 | 0.81 | 12,946 | 7,975 | 0.62 | 0.89 | 12,000 | 7,392 | 0.62 | 0.96 | 11,054 | 6,809 | 0.62 | 1.01 | 10,257 | 6,318 | 0.62 | 1.05 |
| 24 | 75 | 16 | 61 | 12,573 | 11,768 | 0.94 | 0.64 | 11,826 | 11,069 | 0.94 | 0.72 | 10,880 | 10,184 | 0.94 | 0.79 | 9,984 | 9,345 | 0.94 | 0.86 | 9,087 | 8,506 | 0.94 | 0.90 | 8,191 | 7,667 | 0.94 | 0.94 |
| 24 | 75 | 18 | 64 | 13,743 | 11,214 | 0.82 | 0.70 | 12,996 | 10,605 | 0.82 | 0.79 | 12,050 | 9,833 | 0.82 | 0.85 | 11,154 | 9,101 | 0.82 | 0.92 | 10,257 | 8,370 | 0.82 | 0.96 | 9,361 | 7,639 | 0.82 | 1.01 |
| 24 | 75 | 20 | 68 | 14,340 | 9,981 | 0.70 | 0.74 | 13,743 | 9,565 | 0.70 | 0.81 | 12,946 | 9,010 | 0.70 | 0.89 | 12,000 | 8,352 | 0.70 | 0.96 | 11,054 | 7,694 | 0.70 | 1.01 | 10,257 | 7,139 | 0.70 | 1.05 |
| 24 | 75 | 22 | 72 | 15,137 | 8,719 | 0.58 | 0.77 | 14,639 | 8,432 | 0.58 | 0.85 | 13,743 | 7,916 | 0.58 | 0.93 | 12,846 | 7,400 | 0.58 | 1.00 | 11,950 | 6,883 | 0.58 | 1.05 | 10,954 | 6,310 | 0.58 | 1.08 |
| 26 | 79 | 16 | 61 | 12,573 | 12,573 | 1.00 | 0.64 | 11,826 | 11,826 | 1.00 | 0.72 | 10,880 | 10,880 | 1.00 | 0.79 | 9,984 | 9,984 | 1.00 | 0.86 | 9,087 | 9,087 | 1.00 | 0.90 | 8,191 | 8,191 | 1.00 | 0.94 |
| 26 | 79 | 18 | 64 | 13,743 | 12,313 | 0.90 | 0.70 | 12,996 | 11,644 | 0.90 | 0.79 | 12,050 | 10,797 | 0.90 | 0.85 | 11,154 | 9,994 | 0.90 | 0.92 | 10,257 | 9,191 | 0.90 | 0.96 | 9,361 | 8,387 | 0.90 | 1.01 |
| 26 | 79 | 20 | 68 | 14,340 | 11,128 | 0.78 | 0.74 | 13,743 | 10,664 | 0.78 | 0.81 | 12,946 | 10,046 | 0.78 | 0.89 | 12,000 | 9,312 | 0.78 | 0.96 | 11,054 | 8,578 | 0.78 | 1.01 | 10,257 | 7,960 | 0.78 | 1.05 |
| 26 | 79 | 22 | 72 | 15,137 | 9,930 | 0.66 | 0.77 | 14,639 | 9,603 | 0.66 | 0.85 | 13,743 | 9,015 | 0.66 | 0.93 | 12,846 | 8,427 | 0.66 | 1.00 | 11,950 | 7,839 | 0.66 | 1.05 | 10,954 | 7,186 | 0.66 | 1.08 |
| 27 | 81 | 16 | 61 | 12,573 | 12,573 | 1.00 | 0.64 | 11,826 | 11,826 | 1.00 | 0.72 | 10,880 | 10,880 | 1.00 | 0.79 | 9,984 | 9,984 | 1.00 | 0.86 | 9,087 | 9,087 | 1.00 | 0.90 | 8,191 | 8,191 | 1.00 | 0.94 |
| 27 | 81 | 18 | 64 | 13,743 | 12,863 | 0.94 | 0.70 | 12,996 | 12,164 | 0.94 | 0.79 | 12,050 | 11,279 | 0.94 | 0.85 | 11,154 | 10,440 | 0.94 | 0.92 | 10,257 | 9,601 | 0.94 | 0.96 | 9,361 | 8,762 | 0.94 | 1.01 |
| 27 | 81 | 20 | 68 | 14,340 | 11,702 | 0.82 | 0.81 | 12,946 | 10,564 | 0.82 | 0.89 | 12,000 | 9,792 | 0.82 | 0.96 | 11,054 | 9,020 | 0.82 | 1.01 | 10,257 | 8,920 | 0.82 | 1.01 | 10,257 | 8,730 | 0.82 | 1.05 |
| 27 | 81 | 22 | 72 | 15,137 | 10,535 | 0.70 | 0.77 | 14,639 | 10,189 | 0.70 | 0.85 | 13,743 | 9,565 | 0.70 | 0.93 | 12,846 | 8,941 | 0.70 | 1.00 | 11,950 | 8,317 | 0.70 | 1.05 | 10,954 | 7,624 | 0.70 | 1.08 |
| 28 | 82 | 16 | 61 | 12,573 | 12,573 | 1.00 | 0.64 | 11,826 | 11,826 | 1.00 | 0.72 | 10,880 | 10,880 | 1.00 | 0.79 | 9,984 | 9,984 | 1.00 | 0.86 | 9,087 | 9,087 | 1.00 | 0.90 | 8,191 | 8,191 | 1.00 | 0.94 |
| 28 | 82 | 18 | 64 | 13,743 | 13,413 | 0.98 | 0.70 | 12,996 | 12,684 | 0.98 | 0.79 | 12,050 | 11,761 | 0.98 | 0.85 | 11,154 | 10,886 | 0.98 | 0.92 | 10,257 | 10,011 | 0.98 | 0.96 | 9,361 | 9,136 | 0.98 | 1.01 |
| 28 | 82 | 20 | 68 | 14,340 | 12,275 | 0.86 | 0.74 | 13,743 | 11,764 | 0.86 | 0.81 | 12,946 | 11,082 | 0.86 | 0.89 | 12,000 | 10,272 | 0.86 | 0.96 | 11,054 | 9,462 | 0.86 | 1.01 | 10,257 | 8,780 | 0.86 | 1.05 |
| 28 | 82 | 22 | 72 | 15,137 | 11,141 | 0.74 | 0.77 | 14,639 | 10,774 | 0.74 | 0.85 | 13,743 | 10,115 | 0.74 | 0.93 | 12,846 | 9,455 | 0.74 | 1.00 | 11,950 | 8,795 | 0.74 | 1.05 | 10,954 | 8,062 | 0.74 | 1.08 |
| 30 | 86 | 16 | 61 | 12,573 | 12,573 | 1.00 | 0.64 | 11,826 | 11,826 | 1.00 | 0.72 | 10,880 | 10,880 | 1.00 | 0.79 | 9,984 | 9,984 | 1.00 | 0.86 | 9,087 | 9,087 | 1.00 | 0.90 | 8,191 | 8,191 | 1.00 | 0.94 |
| 30 | 86 | 18 | 64 | 13,743 | 13,743 | 1.00 | 0.70 | 12,996 | 12,996 | 1.00 | 0.79 | 12,050 | 12,050 | 1.00 | 0.85 | 11,154 | 11,154 | 1.00 | 0.92 | 10,257 | 10,257 | 1.00 | 0.96 | 9,361 | 9,361 | 1.00 | 1.01 |
| 30 | 86 | 20 | 68 | 14,340 | 13,422 | 0.94 | 0.74 | 13,743 | 12,863 | 0.94 | 0.81 | 12,946 | 12,118 | 0.94 | 0.89 | 12,000 | 11,232 | 0.94 | 0.96 | 11,054 | 10,346 | 0.94 | 1.01 | 10,257 | 9,601 | 0.94 | 1.05 |
| 30 | 86 | 22 | 72 | 15,137 | 12,352 | 0.82 | 0.77 | 14,639 | 11,954 | 0.82 | 0.85 | 13,743 | 11,214 | 0.82 | 0.93 | 12,846 | 10,483 | 0.82 | 1.00 | 11,950 | 9,751 | 0.82 | 1.05 | 10,954 | 8,939 | 0.82 | 1.08 |
| 32 | 90 | 16 | 61 | 12,573 | 12,573 | 1.00 | 0.64 | 11,826 | 11,826 | 1.00 | 0.72 | 10,880 | 10,880 | 1.00 | 0.79 | 9,984 | 9,984 | 1.00 | 0.86 | 9,087 | 9,087 | 1.00 | 0.90 | 8,191 | 8,191 | 1.00 | 0.94 |
| 32 | 90 | 18 | 64 | 13,743 | 13,743 | 1.00 | 0.70 | 12,996 | 12,996 | 1.00 | 0.79 | 12,050 | 12,050 | 1.00 | 0.85 | 11,154 | 11,154 | 1.00 | 0.92 | 10,257 | 10,257 | 1.00 | 0.96 | 9,361 | 9,361 | 1.00 | 1.01 |
| 32 | 90 | 20 | 68 | 14,340 | 14,340 | 1.00 | 0.74 | 13,743 | 13,743 | 1.00 | 0.81 | 12,946 | 12,946 | 1.00 | 0.89 | 12,000 | 12,000 | 1.00 | 0.96 | 11,054 | 11,054 | 1.00 | 1.01 | 10,257 | 10,257 | 1.00 | 1.05 |
| 32 | 90 | 22 | 72 | 15,137 | 13,563 | 0.90 | 0.77 | 14,639 | 13,117 | 0.90 | 0.85 | 13,743 | 12,313 | 0.90 | 0.93 | 12,846 | 11,510 | 0.90 | 1.00 | 11,950 | 10,707 | 0.90 | 1.05 | 10,954 | 9,815 | 0.90 | 1.08 |

SLZ-AF15NL/SUZ-AA15NL

CAPACITY (Btu/h): 15,000 INPUT (kW): 1.24 SHF: 0.72

| Indoor Intake air D.B.(°C) | Indoor Intake air D.B.(°F) | Indoor Intake air W.B.(°C) | Indoor Intake air W.B.(°F) | Outdoor intake air °C/°F D.B. | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|----------------------------------|----------------------------------|----------------------------------|-------------------------------|--------|------|------|--------|--------|------|------|--------|--------|------|------|--------|--------|------|------|--------|--------|------|------|--------|--------|------|------|
| | | | | 20/68 | | | | 25/77 | | | | 30/86 | | | | 35/95 | | | | 40/104 | | | | 46/115 | | | |
| | | | | CA | SHC | SHF | P.C. | CA | SHC | SHF | P.C. | CA | SHC | SHF | P.C. | CA | SHC | SHF | P.C. | CA | SHC | SHF | P.C. | CA | SHC | SHF | P.C. |
| 19 | 66 | 16 | 61 | 15,716 | 9,681 | 0.62 | 0.82 | 14,783 | 9,106 | 0.62 | 0.93 | 13,600 | 8,378 | 0.62 | 1.02 | 12,480 | 7,687 | 0.62 | 1.10 | 11,359 | 6,997 | 0.62 | 1.16 | 10,239 | 6,307 | 0.62 | 1.22 |
| 19 | 66 | 18 | 64 | 17,178 | 8,520 | 0.50 | 0.91 | 16,245 | 8,057 | 0.50 | 1.02 | 15,062 | 7,471 | 0.50 | 1.10 | 13,942 | 6,915 | 0.50 | 1.19 | 12,822 | 6,360 | 0.50 | 1.25 | 11,701 | 5,804 | 0.50 | 1.30 |
| 20 | 68 | 16 | 61 | 15,716 | 10,310 | 0.66 | 0.82 | 14,783 | 9,697 | 0.66 | 0.93 | 13,600 | 8,922 | 0.66 | 1.02 | 12,480 | 8,187 | 0.66 | 1.10 | 11,359 | 7,452 | 0.66 | 1.16 | 10,239 | 6,717 | 0.66 | 1.22 |
| 20 | 68 | 18 | 64 | 17,178 | 9,208 | 0.54 | 0.91 | 16,245 | 8,707 | 0.54 | 1.02 | 15,062 | 8,073 | 0.54 | 1.10 | 13,942 | 7,473 | 0.54 | 1.19 | 12,822 | 6,872 | 0.54 | 1.25 | 11,701 | 6,272 | 0.54 | 1.30 |
| 20 | 68 | 20 | 68 | 17,925 | 7,457 | 0.42 | 0.96 | 17,178 | 7,146 | 0.42 | 1.04 | 16,183 | 6,732 | 0.42 | 1.14 | 15,000 | 6,240 | 0.42 | 1.24 | 13,817 | 5,748 | 0.42 | 1.30 | 12,822 | 5,334 | 0.42 | 1.36 |
| 22 | 72 | 16 | 61 | 15,716 | 11,567 | 0.74 | 0.82 | 14,783 | 10,880 | 0.74 | 0.93 | 13,600 | 10,010 | 0.74 | 1.02 | 12,480 | 9,185 | 0.74 | 1.10 | 11,359 | 8,360 | 0.74 | 1.16 | 10,239 | 7,536 | 0.74 | 1.22 |
| 22 | 72 | 18 | 64 | 17,178 | 10,582 | 0.62 | 0.91 | 16,245 | 10,007 | 0.62 | 1.02 | 15,062 | 9,278 | 0.62 | 1.10 | 13,942 | 8,588 | 0.62 | 1.19 | 12,822 | 7,898 | 0.62 | 1.25 | 11,701 | 7,208 | 0.62 | 1.30 |
| 22 | 72 | 20 | 68 | 17,925 | 8,891 | 0.50 | 0.96 | 17,178 | 8,520 | 0.50 | 1.04 | 16,183 | 8,027 | 0.50 | 1.14 | 15,000 | 7,440 | 0.50 | 1.24 | 13,817 | 6,853 | 0.50 | 1.30 | 12,822 | 6,360 | 0.50 | 1.36 |
| 24 | 75 | 16 | 61 | 15,716 | 12,824 | 0.82 | 0.82 | 14,783 | 12,063 | 0.82 | 0.93 | 13,600 | 11,098 | 0.82 | 1.02 | 12,480 | 10,183 | 0.82 | 1.10 | 11,359 | 9,269 | 0.82 | 1.16 | 10,239 | 8,355 | 0.82 | 1.22 |
| 24 | 75 | 18 | 64 | 17,178 | 11,956 | 0.70 | 0.91 | 16,245 | 11,306 | 0.70 | 1.02 | 15,062 | 10,483 | 0.70 | 1.10 | 13,942 | 9,704 | 0.70 | 1.19 | 12,822 | 8,924 | 0.70 | 1.25 | 11,701 | 8,144 | 0.70 | 1.30 |
| 24 | 75 | 20 | 68 | 17,925 | 10,325 | 0.58 | 0.96 | 17,178 | 9,895 | 0.58 | 1.04 | 16,183 | 9,321 | 0.58 | 1.14 | 15,000 | 8,640 | 0.58 | 1.24 | 13,817 | 7,959 | 0.58 | 1.30 | 12,822 | 7,385 | 0.58 | 1.36 |
| 24 | 75 | 22 | 72 | 18,921 | 8,628 | 0.46 | 1.00 | 18,299 | 8,344 | 0.46 | 1.10 | 17,178 | 7,833 | 0.46 | 1.20 | 16,058 | 7,322 | 0.46 | 1.29 | 14,938 | 6,812 | 0.46 | 1.35 | 13,693 | 6,244 | 0.46 | 1.39 |
| 26 | 79 | 16 | 61 | 15,716 | 14,082 | 0.90 | 0.82 | 14,783 | 13,245 | 0.90 | 0.93 | 13,600 | 12,186 | 0.90 | 1.02 | 12,480 | 11,182 | 0.90 | 1.10 | 11,359 | 10,178 | 0.90 | 1.16 | 10,239 | 9,174 | 0.90 | 1.22 |
| 26 | 79 | 18 | 64 | 17,178 | 13,330 | 0.78 | 0.91 | 16,245 | 12,606 | 0.78 | 1.02 | 15,062 | 11,688 | 0.78 | 1.10 | 13,942 | 10,819 | 0.78 | 1.19 | 12,822 | 9,950 | 0.78 | 1.25 | 11,701 | 9,080 | 0.78 | 1.30 |
| 26 | 79 | 20 | 68 | 17,925 | 11,759 | 0.66 | 0.96 | 17,178 | 11,269 | 0.66 | 1.04 | 16,183 | 10,616 | 0.66 | 1.14 | 15,000 | 9,840 | 0.66 | 1.24 | 13,817 | 9,064 | 0.66 | 1.30 | 12,822 | 8,411 | 0.66 | 1.36 |
| 26 | 79 | 22 | 72 | 18,921 | 10,142 | 0.54 | 1.00 | 18,299 | 9,808 | 0.54 | 1.10 | 17,178 | 9,208 | 0.54 | 1.20 | 16,058 | 8,607 | 0.54 | 1.29 | 14,938 | 8,007 | 0.54 | 1.35 | 13,693 | 7,339 | 0.54 | 1.39 |
| 27 | 81 | 16 | 61 | 15,716 | 14,710 | 0.94 | 0.82 | 14,783 | 13,836 | 0.94 | 0.93 | 13,600 | 12,730 | 0.94 | 1.02 | 12,480 | 11,681 | 0.94 | 1.10 | 11,359 | 10,632 | 0.94 | 1.16 | 10,239 | 9,584 | 0.94 | 1.22 |
| 27 | 81 | 18 | 64 | 17,178 | 14,018 | 0.82 | 0.91 | 16,245 | 13,256 | 0.82 | 1.02 | 15,062 | 12,291 | 0.82 | 1.10 | 13,942 | 11,377 | 0.82 | 1.19 | 12,822 | 10,462 | 0.82 | 1.25 | 11,701 | 9,548 | 0.82 | 1.30 |
| 27 | 81 | 20 | 68 | 17,925 | 12,476 | 0.70 | 0.96 | 17,178 | 11,956 | 0.70 | 1.04 | 16,183 | 11,263 | 0.70 | 1.14 | 15,000 | 10,440 | 0.70 | 1.24 | 13,817 | 9,617 | 0.70 | 1.30 | 12,822 | 8,924 | 0.70 | 1.36 |
| 27 | 81 | 22 | 72 | 18,921 | 10,899 | 0.58 | 1.00 | 18,299 | 10,540 | 0.58 | 1.10 | 17,178 | 9,895 | 0.58 | 1.20 | 16,058 | 9,249 | 0.58 | 1.29 | 14,938 | 8,604 | 0.58 | 1.35 | 13,693 | 7,887 | 0.58 | 1.39 |
| 28 | 82 | 16 | 61 | 15,716 | 15,339 | 0.98 | 0.82 | 14,783 | 14,428 | 0.98 | 0.93 | 13,600 | 13,274 | 0.98 | 1.02 | 12,480 | 12,180 | 0.98 | 1.10 | 11,359 | 11,087 | 0.98 | 1.16 | 10,239 | 9,993 | 0.98 | 1.22 |
| 28 | 82 | 18 | 64 | 17,178 | 14,705 | 0.86 | 0.91 | 16,245 | 13,906 | 0.86 | 1.02 | 15,062 | 12,893 | 0.86 | 1.10 | 13,942 | 11,934 | 0.86 | 1.19 | 12,822 | 10,975 | 0.86 | 1.25 | 11,701 | 10,016 | 0.86 | 1.30 |
| 28 | 82 | 20 | 68 | 17,925 | 13,193 | 0.74 | 0.96 | 17,178 | 12,643 | 0.74 | 1.04 | 16,183 | 11,910 | 0.74 | 1.14 | 15,000 | 11,040 | 0.74 | 1.24 | 13,817 | 10,170 | 0.74 | 1.30 | 12,822 | 9,437 | 0.74 | 1.36 |
| 28 | 82 | 22 | 72 | 18,921 | 11,655 | 0.62 | 1.00 | 18,299 | 11,272 | 0.62 | 1.10 | 17,178 | 10,582 | 0.62 | 1.20 | 16,058 | 9,892 | 0.62 | 1.29 | 14,938 | 9,202 | 0.62 | 1.35 | 13,693 | 8,435 | 0.62 | 1.39 |
| 30 | 86 | 16 | 61 | 15,716 | 15,716 | 1.00 | 0.82 | 14,783 | 14,783 | 1.00 | 0.93 | 13,600 | 13,600 | 1.00 | 1.02 | 12,480 | 12,480 | 1.00 | 1.10 | 11,359 | 11,359 | 1.00 | 1.16 | 10,239 | 10,239 | 1.00 | 1.22 |
| 30 | 86 | 18 | 64 | 17,178 | 16,079 | 0.94 | 0.91 | 16,245 | 15,205 | 0.94 | 1.02 | 15,062 | 14,098 | 0.94 | 1.10 | 13,942 | 13,050 | 0.94 | 1.19 | 12,822 | 12,001 | 0.94 | 1.25 | 11,701 | 10,952 | 0.94 | 1.30 |
| 30 | 86 | 20 | 68 | 17,925 | 14,627 | 0.82 | 0.96 | 17,178 | 14,018 | 0.82 | 1.04 | 16,183 | 13,205 | 0.82 | 1.14 | 15,000 | 12,240 | 0.82 | 1.24 | 13,817 | 11,275 | 0.82 | 1.30 | 12,822 | 10,462 | 0.82 | 1.36 |
| 30 | 86 | 22 | 72 | 18,921 | 13,169 | 0.70 | 1.00 | 18,299 | 12,736 | 0.70 | 1.10 | 17,178 | 11,956 | 0.70 | 1.20 | 16,058 | 11,176 | 0.70 | 1.29 | 14,938 | 10,397 | 0.70 | 1.35 | 13,693 | 9,530 | 0.70 | 1.39 |
| 32 | 90 | 16 | 61 | 15,716 | 15,716 | 1.00 | 0.82 | 14,783 | 14,783 | 1.00 | 0.93 | 13,600 | 13,600 | 1.00 | 1.02 | 12,480 | 12,480 | 1.00 | 1.10 | 11,359 | 11,359 | 1.00 | 1.16 | 10,239 | 10,239 | 1.00 | 1.22 |
| 32 | 90 | 18 | 64 | 17,178 | 17,178 | 1.00 | 0.91 | 16,245 | 16,245 | 1.00 | 1.02 | 15,062 | 15,062 | 1.00 | 1.10 | 13,942 | 13,942 | 1.00 | 1.19 | 12,822 | 12,822 | 1.00 | 1.25 | 11,701 | 11,701 | 1.00 | 1.30 |
| 32 | 90 | 20 | 68 | 17,925 | 16,061 | 0.90 | 0.96 | 17,178 | 15,392 | 0.90 | 1.04 | 16,183 | 14,500 | 0.90 | 1.14 | 15,000 | 13,440 | 0.90 | 1.24 | 13,817 | 12,380 | 0.90 | 1.30 | 12,822 | 11,488 | 0.90 | 1.36 |
| 32 | 90 | 22 | 72 | 18,921 | 14,683 | 0.78 | 1.00 | 18,299 | 14,200 | 0.78 | 1.10 | 17,178 | 13,330 | 0.78 | 1.20 | 16,058 | 12,461 | 0.78 | 1.29 | 14,938 | 11,592 | 0.78 | 1.35 | 13,693 | 10,626 | 0.78 | 1.39 |

SLZ-AF18NL/SUZ-AA18NL

CAPACITY (Btu/h): 18,000 INPUT (kW): 1.5 SHF: 0.7

| Indoor intake air D.B.(°C) | Indoor intake air D.B.(°F) | Indoor intake air W.B.(°C) | Indoor intake air W.B.(°F) | Outdoor intake air °C/°F D.B. | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|----------------------------------|----------------------------------|----------------------------------|-------------------------------|--------|------|------|--------|--------|------|------|--------|--------|------|------|--------|--------|------|------|--------|--------|------|------|--------|--------|------|------|
| | | | | 20/68 | | | | 25/77 | | | | 30/86 | | | | 35/95 | | | | 40/104 | | | | 46/115 | | | |
| | | | | CA | SHC | SHF | P.C. | CA | SHC | SHF | P.C. | CA | SHC | SHF | P.C. | CA | SHC | SHF | P.C. | CA | SHC | SHF | P.C. | CA | SHC | SHF | P.C. |
| 19 | 66 | 16 | 61 | 18,859 | 11,240 | 0.60 | 0.99 | 17,739 | 10,572 | 0.60 | 1.13 | 16,320 | 9,727 | 0.60 | 1.23 | 14,976 | 8,925 | 0.60 | 1.34 | 13,631 | 8,124 | 0.60 | 1.40 | 12,287 | 7,323 | 0.60 | 1.47 |
| 19 | 66 | 18 | 64 | 20,614 | 9,812 | 0.48 | 1.10 | 19,494 | 9,279 | 0.48 | 1.23 | 18,075 | 8,604 | 0.48 | 1.34 | 16,730 | 7,964 | 0.48 | 1.44 | 15,386 | 7,324 | 0.48 | 1.51 | 14,041 | 6,684 | 0.48 | 1.58 |
| 20 | 68 | 16 | 61 | 18,859 | 11,995 | 0.64 | 0.99 | 17,739 | 11,282 | 0.64 | 1.13 | 16,320 | 10,380 | 0.64 | 1.23 | 14,976 | 9,524 | 0.64 | 1.34 | 13,631 | 8,669 | 0.64 | 1.40 | 12,287 | 7,814 | 0.64 | 1.47 |
| 20 | 68 | 18 | 64 | 20,614 | 10,637 | 0.52 | 1.10 | 19,494 | 10,059 | 0.52 | 1.23 | 18,075 | 9,327 | 0.52 | 1.34 | 16,730 | 8,633 | 0.52 | 1.44 | 15,386 | 7,939 | 0.52 | 1.51 | 14,041 | 7,245 | 0.52 | 1.58 |
| 20 | 68 | 20 | 68 | 21,510 | 8,518 | 0.40 | 1.16 | 20,614 | 8,163 | 0.40 | 1.26 | 19,419 | 7,690 | 0.40 | 1.38 | 18,000 | 7,128 | 0.40 | 1.50 | 16,581 | 6,566 | 0.40 | 1.58 | 15,386 | 6,093 | 0.40 | 1.64 |
| 22 | 72 | 16 | 61 | 18,859 | 13,503 | 0.72 | 0.99 | 17,739 | 12,701 | 0.72 | 1.13 | 16,320 | 11,685 | 0.72 | 1.23 | 14,976 | 10,723 | 0.72 | 1.34 | 13,631 | 9,760 | 0.72 | 1.40 | 12,287 | 8,797 | 0.72 | 1.47 |
| 22 | 72 | 18 | 64 | 20,614 | 12,286 | 0.60 | 1.10 | 19,494 | 11,618 | 0.60 | 1.23 | 18,075 | 10,773 | 0.60 | 1.34 | 16,730 | 9,971 | 0.60 | 1.44 | 15,386 | 9,170 | 0.60 | 1.51 | 14,041 | 8,369 | 0.60 | 1.58 |
| 22 | 72 | 20 | 68 | 21,510 | 10,239 | 0.48 | 1.16 | 20,614 | 9,812 | 0.48 | 1.26 | 19,419 | 9,243 | 0.48 | 1.38 | 18,000 | 8,568 | 0.48 | 1.50 | 16,581 | 7,893 | 0.48 | 1.58 | 15,386 | 7,324 | 0.48 | 1.64 |
| 24 | 75 | 16 | 61 | 18,859 | 15,012 | 0.80 | 0.99 | 17,739 | 14,120 | 0.80 | 1.13 | 16,320 | 12,991 | 0.80 | 1.23 | 14,976 | 11,921 | 0.80 | 1.34 | 13,631 | 10,850 | 0.80 | 1.40 | 12,287 | 9,780 | 0.80 | 1.47 |
| 24 | 75 | 18 | 64 | 20,614 | 13,935 | 0.68 | 1.10 | 19,494 | 13,178 | 0.68 | 1.23 | 18,075 | 12,218 | 0.68 | 1.34 | 16,730 | 11,310 | 0.68 | 1.44 | 15,386 | 10,401 | 0.68 | 1.51 | 14,041 | 9,492 | 0.68 | 1.58 |
| 24 | 75 | 20 | 68 | 21,510 | 11,960 | 0.56 | 1.16 | 20,614 | 11,461 | 0.56 | 1.26 | 19,419 | 10,797 | 0.56 | 1.38 | 18,000 | 10,008 | 0.56 | 1.50 | 16,581 | 9,219 | 0.56 | 1.58 | 15,386 | 8,555 | 0.56 | 1.64 |
| 24 | 75 | 22 | 72 | 22,705 | 9,900 | 0.44 | 1.21 | 21,959 | 9,574 | 0.44 | 1.34 | 20,614 | 8,988 | 0.44 | 1.45 | 19,270 | 8,402 | 0.44 | 1.56 | 17,925 | 7,815 | 0.44 | 1.64 | 16,432 | 7,164 | 0.44 | 1.68 |
| 26 | 79 | 16 | 61 | 18,859 | 16,521 | 0.88 | 0.99 | 17,739 | 15,539 | 0.88 | 1.13 | 16,320 | 14,296 | 0.88 | 1.23 | 14,976 | 13,119 | 0.88 | 1.34 | 13,631 | 11,941 | 0.88 | 1.40 | 12,287 | 10,763 | 0.88 | 1.47 |
| 26 | 79 | 18 | 64 | 20,614 | 15,584 | 0.76 | 1.10 | 19,494 | 14,737 | 0.76 | 1.23 | 18,075 | 13,664 | 0.76 | 1.34 | 16,730 | 12,648 | 0.76 | 1.44 | 15,386 | 11,632 | 0.76 | 1.51 | 14,041 | 10,615 | 0.76 | 1.58 |
| 26 | 79 | 20 | 68 | 21,510 | 13,681 | 0.64 | 1.16 | 20,614 | 13,311 | 0.64 | 1.26 | 19,419 | 12,351 | 0.64 | 1.38 | 18,000 | 11,448 | 0.64 | 1.50 | 16,581 | 10,545 | 0.64 | 1.58 | 15,386 | 9,785 | 0.64 | 1.64 |
| 26 | 79 | 22 | 72 | 22,705 | 11,716 | 0.52 | 1.21 | 21,959 | 11,331 | 0.52 | 1.34 | 20,614 | 10,637 | 0.52 | 1.45 | 19,270 | 9,943 | 0.52 | 1.56 | 17,925 | 9,249 | 0.52 | 1.64 | 16,432 | 8,479 | 0.52 | 1.68 |
| 27 | 81 | 16 | 61 | 18,859 | 17,275 | 0.92 | 0.99 | 17,739 | 16,249 | 0.92 | 1.13 | 16,320 | 14,949 | 0.92 | 1.23 | 14,976 | 13,718 | 0.92 | 1.34 | 13,631 | 12,486 | 0.92 | 1.40 | 12,287 | 11,255 | 0.92 | 1.47 |
| 27 | 81 | 18 | 64 | 20,614 | 16,409 | 0.80 | 1.10 | 19,494 | 15,517 | 0.80 | 1.23 | 18,075 | 14,387 | 0.80 | 1.34 | 16,730 | 13,317 | 0.80 | 1.44 | 15,386 | 12,247 | 0.80 | 1.51 | 14,041 | 11,171 | 0.80 | 1.58 |
| 27 | 81 | 20 | 68 | 21,510 | 14,541 | 0.68 | 1.16 | 20,614 | 13,935 | 0.68 | 1.26 | 19,419 | 13,127 | 0.68 | 1.38 | 18,000 | 12,168 | 0.68 | 1.50 | 16,581 | 11,209 | 0.68 | 1.58 | 15,386 | 10,401 | 0.68 | 1.64 |
| 27 | 81 | 22 | 72 | 22,705 | 12,624 | 0.56 | 1.21 | 21,959 | 12,209 | 0.56 | 1.34 | 20,614 | 11,461 | 0.56 | 1.45 | 19,270 | 10,714 | 0.56 | 1.56 | 17,925 | 9,966 | 0.56 | 1.64 | 16,432 | 9,136 | 0.56 | 1.68 |
| 28 | 82 | 16 | 61 | 18,859 | 18,030 | 0.96 | 0.99 | 17,739 | 16,959 | 0.96 | 1.13 | 16,320 | 15,602 | 0.96 | 1.23 | 14,976 | 14,317 | 0.96 | 1.34 | 13,631 | 13,031 | 0.96 | 1.40 | 12,287 | 11,746 | 0.96 | 1.47 |
| 28 | 82 | 18 | 64 | 20,614 | 17,233 | 0.84 | 1.10 | 19,494 | 16,297 | 0.84 | 1.23 | 18,075 | 15,110 | 0.84 | 1.34 | 16,730 | 13,987 | 0.84 | 1.44 | 15,386 | 12,863 | 0.84 | 1.51 | 14,041 | 11,739 | 0.84 | 1.58 |
| 28 | 82 | 20 | 68 | 21,510 | 15,401 | 0.72 | 1.16 | 20,614 | 14,760 | 0.72 | 1.26 | 19,419 | 13,904 | 0.72 | 1.38 | 18,000 | 12,988 | 0.72 | 1.50 | 16,581 | 11,872 | 0.72 | 1.58 | 15,386 | 11,016 | 0.72 | 1.64 |
| 28 | 82 | 22 | 72 | 22,705 | 13,532 | 0.60 | 1.21 | 21,959 | 13,087 | 0.60 | 1.34 | 20,614 | 12,286 | 0.60 | 1.45 | 19,270 | 11,485 | 0.60 | 1.56 | 17,925 | 10,683 | 0.60 | 1.64 | 16,432 | 9,793 | 0.60 | 1.68 |
| 30 | 86 | 16 | 61 | 18,859 | 18,859 | 1.00 | 0.99 | 17,739 | 17,739 | 1.00 | 1.13 | 16,320 | 16,320 | 1.00 | 1.23 | 14,976 | 14,976 | 1.00 | 1.34 | 13,631 | 13,631 | 1.00 | 1.40 | 12,287 | 12,287 | 1.00 | 1.47 |
| 30 | 86 | 18 | 64 | 20,614 | 18,883 | 0.92 | 1.10 | 19,494 | 17,856 | 0.92 | 1.23 | 18,075 | 16,556 | 0.92 | 1.34 | 16,730 | 15,325 | 0.92 | 1.44 | 15,386 | 14,093 | 0.92 | 1.51 | 14,041 | 12,862 | 0.92 | 1.58 |
| 30 | 86 | 20 | 68 | 21,510 | 17,122 | 0.80 | 1.16 | 20,614 | 16,409 | 0.80 | 1.26 | 19,419 | 15,458 | 0.80 | 1.38 | 18,000 | 14,328 | 0.80 | 1.50 | 16,581 | 13,198 | 0.80 | 1.58 | 15,386 | 12,247 | 0.80 | 1.64 |
| 30 | 86 | 22 | 72 | 22,705 | 15,349 | 0.68 | 1.21 | 21,959 | 14,844 | 0.68 | 1.34 | 20,614 | 13,953 | 0.68 | 1.45 | 19,270 | 13,026 | 0.68 | 1.56 | 17,925 | 12,118 | 0.68 | 1.64 | 16,432 | 11,108 | 0.68 | 1.68 |
| 32 | 90 | 16 | 61 | 18,859 | 18,859 | 1.00 | 0.99 | 17,739 | 17,739 | 1.00 | 1.13 | 16,320 | 16,320 | 1.00 | 1.23 | 14,976 | 14,976 | 1.00 | 1.34 | 13,631 | 13,631 | 1.00 | 1.40 | 12,287 | 12,287 | 1.00 | 1.47 |
| 32 | 90 | 18 | 64 | 20,614 | 20,532 | 1.00 | 1.10 | 19,494 | 19,416 | 1.00 | 1.23 | 18,075 | 18,002 | 1.00 | 1.34 | 16,730 | 16,663 | 1.00 | 1.44 | 15,386 | 15,324 | 1.00 | 1.51 | 14,041 | 13,985 | 1.00 | 1.58 |
| 32 | 90 | 20 | 68 | 21,510 | 18,843 | 0.88 | 1.16 | 20,614 | 18,058 | 0.88 | 1.26 | 19,419 | 17,011 | 0.88 | 1.38 | 18,000 | 15,768 | 0.88 | 1.50 | 16,581 | 14,525 | 0.88 | 1.58 | 15,386 | 13,478 | 0.88 | 1.64 |
| 32 | 90 | 22 | 72 | 22,705 | 17,165 | 0.76 | 1.21 | 21,959 | 16,601 | 0.76 | 1.34 | 20,614 | 15,584 | 0.76 | 1.45 | 19,270 | 14,568 | 0.76 | 1.56 | 17,925 | 13,552 | 0.76 | 1.64 | 16,432 | 12,422 | 0.76 | 1.68 |

T3-1-2. HEATING CAPACITY

OUTDOOR:SUZ-AA09-18NL

| Model Name | Capacity Btu/h | Input kW | Indoor intake air D.B.(°C) | Indoor intake air D.B.(°F) | Outdoor intake air °C/°F W.B. | | | | | | | | | | | |
|------------|-------------------|-------------|----------------------------------|----------------------------------|-------------------------------|------|--------|------|--------|------|--------|------|--------|------|--------|------|
| | | | | | -10/14 | | -5/23 | | 0/32 | | 5/41 | | 10/50 | | 15/59 | |
| | | | | | CA | P.C. | CA | P.C. | CA | P.C. | CA | P.C. | CA | P.C. | CA | P.C. |
| SLZ-AF09NL | 12,000 | 0.91 | 15 | 59 | 7,737 | 0.60 | 9,422 | 0.72 | 10,270 | 0.77 | 11,975 | 0.86 | 13,690 | 0.93 | 15,413 | 0.98 |
| | | | 20 | 68 | 7,317 | 0.65 | 9,019 | 0.76 | 9,876 | 0.81 | 11,587 | 0.89 | 13,279 | 0.96 | 14,934 | 1.00 |
| | | | 25 | 77 | 6,603 | 0.70 | 8,379 | 0.81 | 9,263 | 0.86 | 11,006 | 0.94 | 12,701 | 1.00 | 14,324 | 1.04 |
| SLZ-AF12NL | 15,000 | 1.35 | 15 | 59 | 9,671 | 0.89 | 11,778 | 1.06 | 12,838 | 1.14 | 14,969 | 1.27 | 17,112 | 1.38 | 19,266 | 1.45 |
| | | | 20 | 68 | 9,146 | 0.97 | 11,274 | 1.13 | 12,345 | 1.20 | 14,483 | 1.33 | 16,599 | 1.42 | 18,667 | 1.49 |
| | | | 25 | 77 | 8,253 | 1.03 | 10,474 | 1.20 | 11,578 | 1.27 | 13,758 | 1.39 | 15,876 | 1.48 | 17,905 | 1.54 |
| SLZ-AF15NL | 18,000 | 1.58 | 15 | 59 | 11,605 | 1.05 | 14,134 | 1.24 | 15,405 | 1.33 | 17,962 | 1.49 | 20,535 | 1.61 | 23,119 | 1.69 |
| | | | 20 | 68 | 10,975 | 1.13 | 13,529 | 1.33 | 14,814 | 1.41 | 17,380 | 1.55 | 19,918 | 1.66 | 22,401 | 1.74 |
| | | | 25 | 77 | 9,904 | 1.21 | 12,569 | 1.40 | 13,894 | 1.49 | 16,509 | 1.63 | 19,051 | 1.73 | 21,486 | 1.80 |
| SLZ-AF18NL | 20,000 | 1.88 | 15 | 59 | 12,895 | 1.24 | 15,704 | 1.48 | 17,117 | 1.59 | 19,958 | 1.77 | 22,816 | 1.92 | 25,688 | 2.01 |
| | | | 20 | 68 | 12,194 | 1.35 | 15,032 | 1.58 | 16,460 | 1.68 | 19,311 | 1.85 | 22,132 | 1.98 | 24,890 | 2.07 |
| | | | 25 | 77 | 11,004 | 1.44 | 13,966 | 1.67 | 15,438 | 1.77 | 18,344 | 1.93 | 21,168 | 2.06 | 23,873 | 2.14 |

Note: CA : Capacity (Btu/h) P.C. : Power consumption (kW)
D.B. : Dry-bulb temperature W.B. : Wet-bulb temperature

T3-2. HYPER HEATING INVERTER
T3-2-1. COOLING CAPACITY
SLZ-AF09NL/SUZ-AA09NLHZ

CAPACITY (Btu/h): 9,000 INPUT (kW): 0.72 SHF: 0.88

| Indoor intake air D.B.(°C) | Indoor intake air D.B.(°F) | Indoor intake air W.B.(°C) | Indoor intake air W.B.(°F) | Outdoor intake air °C/°F D.B. | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|----------------------------------|----------------------------------|----------------------------------|-------------------------------|--------|------|------|--------|--------|------|------|--------|-------|------|------|-------|-------|------|------|--------|-------|------|------|--------|-------|------|------|
| | | | | 20/68 | | | | 25/77 | | | | 30/86 | | | | 35/95 | | | | 40/104 | | | | 46/115 | | | |
| | | | | CA | SHC | SHF | P.C. | CA | SHC | SHF | P.C. | CA | SHC | SHF | P.C. | CA | SHC | SHF | P.C. | CA | SHC | SHF | P.C. | CA | SHC | SHF | P.C. |
| 19 | 68 | 16 | 61 | 9,430 | 7,317 | 0.78 | 0.48 | 8,870 | 6,883 | 0.78 | 0.54 | 8,160 | 6,332 | 0.78 | 0.59 | 7,488 | 5,811 | 0.78 | 0.64 | 6,816 | 5,289 | 0.78 | 0.67 | 6,143 | 4,767 | 0.78 | 0.71 |
| 19 | 68 | 18 | 64 | 10,307 | 6,761 | 0.66 | 0.53 | 9,747 | 6,394 | 0.66 | 0.59 | 9,037 | 5,928 | 0.66 | 0.64 | 8,365 | 5,488 | 0.66 | 0.69 | 7,693 | 5,047 | 0.66 | 0.72 | 7,021 | 4,606 | 0.66 | 0.76 |
| 20 | 68 | 16 | 61 | 9,430 | 7,695 | 0.82 | 0.48 | 8,870 | 7,238 | 0.82 | 0.54 | 8,160 | 6,659 | 0.82 | 0.59 | 7,488 | 6,110 | 0.82 | 0.64 | 6,816 | 5,562 | 0.82 | 0.67 | 6,143 | 5,013 | 0.82 | 0.71 |
| 20 | 68 | 18 | 64 | 10,307 | 7,174 | 0.70 | 0.53 | 9,747 | 6,784 | 0.70 | 0.59 | 9,037 | 6,290 | 0.70 | 0.64 | 8,365 | 5,822 | 0.70 | 0.69 | 7,693 | 5,354 | 0.70 | 0.72 | 7,021 | 4,886 | 0.70 | 0.76 |
| 20 | 68 | 20 | 68 | 10,755 | 6,195 | 0.58 | 0.56 | 10,307 | 5,937 | 0.58 | 0.60 | 9,710 | 5,593 | 0.58 | 0.66 | 9,000 | 5,184 | 0.58 | 0.72 | 8,290 | 4,775 | 0.58 | 0.76 | 7,693 | 4,431 | 0.58 | 0.79 |
| 22 | 72 | 16 | 61 | 9,430 | 8,449 | 0.90 | 0.48 | 8,870 | 7,947 | 0.90 | 0.54 | 8,160 | 7,311 | 0.90 | 0.59 | 7,488 | 6,709 | 0.90 | 0.64 | 6,816 | 6,107 | 0.90 | 0.67 | 6,143 | 5,504 | 0.90 | 0.71 |
| 22 | 72 | 18 | 64 | 10,307 | 7,998 | 0.78 | 0.53 | 9,747 | 7,564 | 0.78 | 0.59 | 9,037 | 7,013 | 0.78 | 0.64 | 8,365 | 6,491 | 0.78 | 0.69 | 7,693 | 5,970 | 0.78 | 0.72 | 7,021 | 5,448 | 0.78 | 0.76 |
| 22 | 72 | 20 | 68 | 10,755 | 7,055 | 0.66 | 0.56 | 10,307 | 6,761 | 0.66 | 0.60 | 9,710 | 6,369 | 0.66 | 0.66 | 9,000 | 5,904 | 0.66 | 0.72 | 8,290 | 5,439 | 0.66 | 0.76 | 7,693 | 5,047 | 0.66 | 0.79 |
| 24 | 75 | 16 | 61 | 9,430 | 9,203 | 0.98 | 0.48 | 8,870 | 8,657 | 0.98 | 0.54 | 8,160 | 7,964 | 0.98 | 0.59 | 7,488 | 7,308 | 0.98 | 0.64 | 6,816 | 6,652 | 0.98 | 0.67 | 6,143 | 5,996 | 0.98 | 0.71 |
| 24 | 75 | 18 | 64 | 10,307 | 8,823 | 0.86 | 0.53 | 9,747 | 8,343 | 0.86 | 0.59 | 9,037 | 7,736 | 0.86 | 0.64 | 8,365 | 7,161 | 0.86 | 0.69 | 7,693 | 6,585 | 0.86 | 0.72 | 7,021 | 6,010 | 0.86 | 0.76 |
| 24 | 75 | 20 | 68 | 10,755 | 7,916 | 0.74 | 0.56 | 10,307 | 7,586 | 0.74 | 0.60 | 9,710 | 7,146 | 0.74 | 0.66 | 9,000 | 6,624 | 0.74 | 0.72 | 8,290 | 6,102 | 0.74 | 0.76 | 7,693 | 5,662 | 0.74 | 0.79 |
| 24 | 75 | 22 | 72 | 11,353 | 6,993 | 0.62 | 0.58 | 10,979 | 6,763 | 0.62 | 0.64 | 10,307 | 6,349 | 0.62 | 0.70 | 9,635 | 5,935 | 0.62 | 0.75 | 8,963 | 5,521 | 0.62 | 0.79 | 8,216 | 5,061 | 0.62 | 0.81 |
| 26 | 79 | 16 | 61 | 9,430 | 9,430 | 1.00 | 0.48 | 8,870 | 8,870 | 1.00 | 0.54 | 8,160 | 8,160 | 1.00 | 0.59 | 7,488 | 7,488 | 1.00 | 0.64 | 6,816 | 6,816 | 1.00 | 0.67 | 6,143 | 6,143 | 1.00 | 0.71 |
| 26 | 79 | 18 | 64 | 10,307 | 9,647 | 0.94 | 0.53 | 9,747 | 9,123 | 0.94 | 0.59 | 9,037 | 8,459 | 0.94 | 0.64 | 8,365 | 7,830 | 0.94 | 0.69 | 7,693 | 7,201 | 0.94 | 0.72 | 7,021 | 6,571 | 0.94 | 0.76 |
| 26 | 79 | 20 | 68 | 10,755 | 8,776 | 0.82 | 0.56 | 10,307 | 8,411 | 0.82 | 0.60 | 9,710 | 7,923 | 0.82 | 0.66 | 9,000 | 7,344 | 0.82 | 0.72 | 8,290 | 6,765 | 0.82 | 0.76 | 7,693 | 6,277 | 0.82 | 0.79 |
| 26 | 79 | 22 | 72 | 11,353 | 7,901 | 0.70 | 0.58 | 10,979 | 7,642 | 0.70 | 0.64 | 10,307 | 7,174 | 0.70 | 0.70 | 9,635 | 6,706 | 0.70 | 0.75 | 8,963 | 6,238 | 0.70 | 0.79 | 8,216 | 5,718 | 0.70 | 0.81 |
| 27 | 81 | 16 | 61 | 9,430 | 9,430 | 1.00 | 0.48 | 8,870 | 8,870 | 1.00 | 0.54 | 8,160 | 8,160 | 1.00 | 0.59 | 7,488 | 7,488 | 1.00 | 0.64 | 6,816 | 6,816 | 1.00 | 0.67 | 6,143 | 6,143 | 1.00 | 0.71 |
| 27 | 81 | 18 | 64 | 10,307 | 10,060 | 0.98 | 0.53 | 9,747 | 9,513 | 0.98 | 0.59 | 9,037 | 8,820 | 0.98 | 0.64 | 8,365 | 8,164 | 0.98 | 0.69 | 7,693 | 7,508 | 0.98 | 0.72 | 7,021 | 6,852 | 0.98 | 0.76 |
| 27 | 81 | 20 | 68 | 10,755 | 9,206 | 0.86 | 0.56 | 10,307 | 8,823 | 0.86 | 0.60 | 9,710 | 8,311 | 0.86 | 0.66 | 9,000 | 7,704 | 0.86 | 0.72 | 8,290 | 7,097 | 0.86 | 0.76 | 7,693 | 6,585 | 0.86 | 0.79 |
| 27 | 81 | 22 | 72 | 11,353 | 8,356 | 0.74 | 0.58 | 10,979 | 8,081 | 0.74 | 0.64 | 10,307 | 7,586 | 0.74 | 0.70 | 9,635 | 7,091 | 0.74 | 0.75 | 8,963 | 6,597 | 0.74 | 0.79 | 8,216 | 6,047 | 0.74 | 0.81 |
| 28 | 82 | 16 | 61 | 9,430 | 9,430 | 1.00 | 0.48 | 8,870 | 8,870 | 1.00 | 0.54 | 8,160 | 8,160 | 1.00 | 0.59 | 7,488 | 7,488 | 1.00 | 0.64 | 6,816 | 6,816 | 1.00 | 0.67 | 6,143 | 6,143 | 1.00 | 0.71 |
| 28 | 82 | 18 | 64 | 10,307 | 10,307 | 1.00 | 0.53 | 9,747 | 9,747 | 1.00 | 0.59 | 9,037 | 9,037 | 1.00 | 0.64 | 8,365 | 8,365 | 1.00 | 0.69 | 7,693 | 7,693 | 1.00 | 0.72 | 7,021 | 7,021 | 1.00 | 0.76 |
| 28 | 82 | 20 | 68 | 10,755 | 9,637 | 0.90 | 0.56 | 10,307 | 9,235 | 0.90 | 0.60 | 9,710 | 8,700 | 0.90 | 0.66 | 9,000 | 8,064 | 0.90 | 0.72 | 8,290 | 7,428 | 0.90 | 0.76 | 7,693 | 6,893 | 0.90 | 0.79 |
| 28 | 82 | 22 | 72 | 11,353 | 8,810 | 0.78 | 0.58 | 10,979 | 8,520 | 0.78 | 0.64 | 10,307 | 7,998 | 0.78 | 0.70 | 9,635 | 7,477 | 0.78 | 0.75 | 8,963 | 6,955 | 0.78 | 0.79 | 8,216 | 6,375 | 0.78 | 0.81 |
| 30 | 86 | 16 | 61 | 9,430 | 9,430 | 1.00 | 0.48 | 8,870 | 8,870 | 1.00 | 0.54 | 8,160 | 8,160 | 1.00 | 0.59 | 7,488 | 7,488 | 1.00 | 0.64 | 6,816 | 6,816 | 1.00 | 0.67 | 6,143 | 6,143 | 1.00 | 0.71 |
| 30 | 86 | 18 | 64 | 10,307 | 10,307 | 1.00 | 0.53 | 9,747 | 9,747 | 1.00 | 0.59 | 9,037 | 9,037 | 1.00 | 0.64 | 8,365 | 8,365 | 1.00 | 0.69 | 7,693 | 7,693 | 1.00 | 0.72 | 7,021 | 7,021 | 1.00 | 0.76 |
| 30 | 86 | 20 | 68 | 10,755 | 10,497 | 0.98 | 0.56 | 10,307 | 10,060 | 0.98 | 0.60 | 9,710 | 9,477 | 0.98 | 0.66 | 9,000 | 8,784 | 0.98 | 0.72 | 8,290 | 8,091 | 0.98 | 0.76 | 7,693 | 7,508 | 0.98 | 0.79 |
| 30 | 86 | 22 | 72 | 11,353 | 9,718 | 0.86 | 0.58 | 10,979 | 9,398 | 0.86 | 0.64 | 10,307 | 8,823 | 0.86 | 0.70 | 9,635 | 8,247 | 0.86 | 0.75 | 8,963 | 7,672 | 0.86 | 0.79 | 8,216 | 7,033 | 0.86 | 0.81 |
| 32 | 90 | 16 | 61 | 9,430 | 9,430 | 1.00 | 0.48 | 8,870 | 8,870 | 1.00 | 0.54 | 8,160 | 8,160 | 1.00 | 0.59 | 7,488 | 7,488 | 1.00 | 0.64 | 6,816 | 6,816 | 1.00 | 0.67 | 6,143 | 6,143 | 1.00 | 0.71 |
| 32 | 90 | 18 | 64 | 10,307 | 10,307 | 1.00 | 0.53 | 9,747 | 9,747 | 1.00 | 0.59 | 9,037 | 9,037 | 1.00 | 0.64 | 8,365 | 8,365 | 1.00 | 0.69 | 7,693 | 7,693 | 1.00 | 0.72 | 7,021 | 7,021 | 1.00 | 0.76 |
| 32 | 90 | 20 | 68 | 10,755 | 10,755 | 1.00 | 0.56 | 10,307 | 10,307 | 1.00 | 0.60 | 9,710 | 9,710 | 1.00 | 0.66 | 9,000 | 9,000 | 1.00 | 0.72 | 8,290 | 8,290 | 1.00 | 0.76 | 7,693 | 7,693 | 1.00 | 0.79 |
| 32 | 90 | 22 | 72 | 11,353 | 10,626 | 0.94 | 0.58 | 10,979 | 10,277 | 0.94 | 0.64 | 10,307 | 9,647 | 0.94 | 0.70 | 9,635 | 9,018 | 0.94 | 0.75 | 8,963 | 8,389 | 0.94 | 0.79 | 8,216 | 7,690 | 0.94 | 0.81 |

SLZ-AF12NL/SUZ-AA12NLHZ

CAPACITY (Btu/h): 12,000 INPUT (kW): 0.86 SHF: 0.8

| Indoor intake air D.B.(°C) | Indoor intake air D.B.(°F) | Indoor intake air W.B.(°C) | Indoor intake air W.B.(°F) | Outdoor intake air °C/°F D.B. | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|----------------------------------|----------------------------------|----------------------------------|-------------------------------|--------|------|------|--------|--------|------|------|--------|--------|------|------|--------|--------|------|------|--------|--------|------|------|--------|--------|------|------|
| | | | | 20/68 | | | | 25/77 | | | | 30/86 | | | | 35/95 | | | | 40/104 | | | | 46/115 | | | |
| | | | | CA | SHC | SHF | P.C. | CA | SHC | SHF | P.C. | CA | SHC | SHF | P.C. | CA | SHC | SHF | P.C. | CA | SHC | SHF | P.C. | CA | SHC | SHF | P.C. |
| 19 | 66 | 16 | 61 | 12,573 | 8,751 | 0.70 | 0.57 | 11,826 | 8,231 | 0.70 | 0.65 | 10,880 | 7,572 | 0.70 | 0.71 | 9,984 | 6,949 | 0.70 | 0.77 | 9,087 | 6,325 | 0.70 | 0.81 | 8,191 | 5,701 | 0.70 | 0.84 |
| 19 | 66 | 18 | 64 | 13,743 | 7,916 | 0.58 | 0.63 | 12,996 | 7,486 | 0.58 | 0.71 | 12,050 | 6,941 | 0.58 | 0.77 | 11,154 | 6,424 | 0.58 | 0.82 | 10,257 | 5,908 | 0.58 | 0.86 | 9,361 | 5,392 | 0.58 | 0.90 |
| 20 | 68 | 16 | 61 | 12,573 | 9,254 | 0.74 | 0.57 | 11,826 | 8,704 | 0.74 | 0.65 | 10,880 | 8,008 | 0.74 | 0.71 | 9,984 | 7,348 | 0.74 | 0.77 | 9,087 | 6,688 | 0.74 | 0.81 | 8,191 | 6,029 | 0.74 | 0.84 |
| 20 | 68 | 18 | 64 | 13,743 | 8,466 | 0.62 | 0.63 | 12,996 | 8,005 | 0.62 | 0.71 | 12,050 | 7,423 | 0.62 | 0.77 | 11,154 | 6,871 | 0.62 | 0.82 | 10,257 | 6,318 | 0.62 | 0.86 | 9,361 | 5,766 | 0.62 | 0.90 |
| 20 | 68 | 20 | 68 | 14,340 | 7,113 | 0.50 | 0.66 | 13,743 | 6,816 | 0.50 | 0.72 | 12,946 | 6,421 | 0.50 | 0.79 | 12,000 | 5,952 | 0.50 | 0.86 | 11,054 | 5,483 | 0.50 | 0.90 | 10,257 | 5,088 | 0.50 | 0.94 |
| 22 | 72 | 16 | 61 | 12,573 | 10,260 | 0.82 | 0.57 | 11,826 | 9,650 | 0.82 | 0.65 | 10,880 | 8,878 | 0.82 | 0.71 | 9,984 | 8,147 | 0.82 | 0.77 | 9,087 | 7,415 | 0.82 | 0.81 | 8,191 | 6,684 | 0.82 | 0.84 |
| 22 | 72 | 18 | 64 | 13,743 | 9,565 | 0.70 | 0.63 | 12,996 | 9,045 | 0.70 | 0.71 | 12,050 | 8,387 | 0.70 | 0.77 | 11,154 | 7,763 | 0.70 | 0.82 | 10,257 | 7,139 | 0.70 | 0.86 | 9,361 | 6,515 | 0.70 | 0.90 |
| 22 | 72 | 20 | 68 | 14,340 | 8,260 | 0.58 | 0.66 | 13,743 | 7,916 | 0.58 | 0.72 | 12,946 | 7,457 | 0.58 | 0.79 | 12,000 | 6,912 | 0.58 | 0.86 | 11,054 | 6,367 | 0.58 | 0.90 | 10,257 | 5,908 | 0.58 | 0.94 |
| 24 | 75 | 16 | 61 | 12,573 | 11,265 | 0.90 | 0.57 | 11,826 | 10,596 | 0.90 | 0.65 | 10,880 | 9,748 | 0.90 | 0.71 | 9,984 | 8,945 | 0.90 | 0.77 | 9,087 | 8,142 | 0.90 | 0.81 | 8,191 | 7,339 | 0.90 | 0.84 |
| 24 | 75 | 18 | 64 | 13,743 | 10,664 | 0.78 | 0.63 | 12,996 | 10,085 | 0.78 | 0.71 | 12,050 | 9,351 | 0.78 | 0.77 | 11,154 | 8,655 | 0.78 | 0.82 | 10,257 | 7,960 | 0.78 | 0.86 | 9,361 | 7,264 | 0.78 | 0.90 |
| 24 | 75 | 20 | 68 | 14,340 | 9,407 | 0.66 | 0.66 | 13,743 | 9,015 | 0.66 | 0.72 | 12,946 | 8,493 | 0.66 | 0.79 | 12,000 | 7,872 | 0.66 | 0.86 | 11,054 | 7,251 | 0.66 | 0.90 | 10,257 | 6,729 | 0.66 | 0.94 |
| 26 | 79 | 16 | 61 | 15,137 | 8,113 | 0.54 | 0.69 | 14,639 | 7,847 | 0.54 | 0.77 | 13,743 | 7,366 | 0.54 | 0.83 | 12,846 | 6,886 | 0.54 | 0.90 | 11,950 | 6,405 | 0.54 | 0.94 | 10,954 | 5,872 | 0.54 | 0.97 |
| 26 | 79 | 18 | 64 | 12,573 | 12,271 | 0.98 | 0.57 | 11,826 | 11,542 | 0.98 | 0.65 | 10,880 | 10,119 | 0.98 | 0.71 | 9,984 | 9,744 | 0.98 | 0.77 | 9,087 | 8,669 | 0.98 | 0.81 | 8,191 | 7,995 | 0.98 | 0.84 |
| 26 | 79 | 18 | 64 | 13,743 | 11,764 | 0.86 | 0.63 | 12,996 | 11,124 | 0.86 | 0.71 | 12,050 | 10,315 | 0.86 | 0.77 | 11,154 | 9,547 | 0.86 | 0.82 | 10,257 | 8,780 | 0.86 | 0.86 | 9,361 | 8,013 | 0.86 | 0.90 |
| 26 | 79 | 20 | 68 | 14,340 | 10,554 | 0.74 | 0.66 | 13,743 | 10,115 | 0.74 | 0.72 | 12,946 | 9,528 | 0.74 | 0.79 | 12,000 | 8,832 | 0.74 | 0.86 | 11,054 | 8,136 | 0.74 | 0.90 | 10,257 | 7,549 | 0.74 | 0.94 |
| 26 | 79 | 22 | 72 | 15,137 | 9,324 | 0.62 | 0.69 | 14,639 | 9,018 | 0.62 | 0.77 | 13,743 | 8,466 | 0.62 | 0.83 | 12,846 | 7,913 | 0.62 | 0.90 | 11,950 | 7,361 | 0.62 | 0.94 | 10,954 | 6,748 | 0.62 | 0.97 |
| 27 | 81 | 16 | 61 | 12,573 | 12,573 | 1.00 | 0.57 | 11,826 | 11,826 | 1.00 | 0.65 | 10,880 | 10,880 | 1.00 | 0.71 | 9,984 | 9,984 | 1.00 | 0.77 | 9,087 | 9,087 | 1.00 | 0.81 | 8,191 | 8,191 | 1.00 | 0.84 |
| 27 | 81 | 18 | 64 | 13,743 | 12,313 | 0.90 | 0.63 | 12,996 | 11,644 | 0.90 | 0.71 | 12,050 | 10,797 | 0.90 | 0.77 | 11,154 | 9,994 | 0.90 | 0.82 | 10,257 | 9,191 | 0.90 | 0.86 | 9,361 | 8,387 | 0.90 | 0.90 |
| 27 | 81 | 20 | 68 | 14,340 | 11,128 | 0.78 | 0.66 | 13,743 | 10,664 | 0.78 | 0.72 | 12,946 | 10,046 | 0.78 | 0.79 | 12,000 | 9,312 | 0.78 | 0.86 | 11,054 | 8,578 | 0.78 | 0.90 | 10,257 | 7,960 | 0.78 | 0.94 |
| 27 | 81 | 22 | 72 | 15,137 | 9,930 | 0.66 | 0.69 | 14,639 | 9,603 | 0.66 | 0.77 | 13,743 | 9,015 | 0.66 | 0.83 | 12,846 | 8,427 | 0.66 | 0.90 | 11,950 | 7,839 | 0.66 | 0.94 | 10,954 | 7,186 | 0.66 | 0.97 |
| 28 | 82 | 16 | 61 | 12,573 | 12,573 | 1.00 | 0.57 | 11,826 | 11,826 | 1.00 | 0.65 | 10,880 | 10,880 | 1.00 | 0.71 | 9,984 | 9,984 | 1.00 | 0.77 | 9,087 | 9,087 | 1.00 | 0.81 | 8,191 | 8,191 | 1.00 | 0.84 |
| 28 | 82 | 18 | 64 | 13,743 | 12,863 | 0.94 | 0.63 | 12,996 | 12,164 | 0.94 | 0.71 | 12,050 | 11,279 | 0.94 | 0.77 | 11,154 | 10,440 | 0.94 | 0.82 | 10,257 | 9,601 | 0.94 | 0.86 | 9,361 | 8,762 | 0.94 | 0.90 |
| 28 | 82 | 20 | 68 | 14,340 | 11,702 | 0.82 | 0.66 | 13,743 | 11,214 | 0.82 | 0.72 | 12,946 | 10,564 | 0.82 | 0.79 | 12,000 | 9,792 | 0.82 | 0.86 | 11,054 | 9,020 | 0.82 | 0.90 | 10,257 | 8,370 | 0.82 | 0.94 |
| 28 | 82 | 22 | 72 | 15,137 | 10,535 | 0.70 | 0.69 | 14,639 | 10,189 | 0.70 | 0.77 | 13,743 | 9,565 | 0.70 | 0.83 | 12,846 | 8,941 | 0.70 | 0.90 | 11,950 | 8,317 | 0.70 | 0.94 | 10,954 | 7,624 | 0.70 | 0.97 |
| 30 | 86 | 16 | 61 | 12,573 | 12,573 | 1.00 | 0.57 | 11,826 | 11,826 | 1.00 | 0.65 | 10,880 | 10,880 | 1.00 | 0.71 | 9,984 | 9,984 | 1.00 | 0.77 | 9,087 | 9,087 | 1.00 | 0.81 | 8,191 | 8,191 | 1.00 | 0.84 |
| 30 | 86 | 18 | 64 | 13,743 | 13,743 | 1.00 | 0.63 | 12,996 | 12,996 | 1.00 | 0.71 | 12,050 | 12,050 | 1.00 | 0.77 | 11,154 | 11,154 | 1.00 | 0.82 | 10,257 | 10,257 | 1.00 | 0.86 | 9,361 | 9,361 | 1.00 | 0.90 |
| 30 | 86 | 20 | 68 | 14,340 | 12,849 | 0.90 | 0.66 | 13,743 | 12,313 | 0.90 | 0.72 | 12,946 | 11,600 | 0.90 | 0.79 | 12,000 | 10,752 | 0.90 | 0.86 | 11,054 | 9,904 | 0.90 | 0.90 | 10,257 | 9,191 | 0.90 | 0.94 |
| 30 | 86 | 22 | 72 | 15,137 | 11,746 | 0.78 | 0.69 | 14,639 | 11,360 | 0.78 | 0.77 | 13,743 | 10,664 | 0.78 | 0.83 | 12,846 | 9,969 | 0.78 | 0.90 | 11,950 | 9,273 | 0.78 | 0.94 | 10,954 | 8,501 | 0.78 | 0.97 |
| 32 | 90 | 16 | 61 | 12,573 | 12,573 | 1.00 | 0.57 | 11,826 | 11,826 | 1.00 | 0.65 | 10,880 | 10,880 | 1.00 | 0.71 | 9,984 | 9,984 | 1.00 | 0.77 | 9,087 | 9,087 | 1.00 | 0.81 | 8,191 | 8,191 | 1.00 | 0.84 |
| 32 | 90 | 18 | 64 | 13,743 | 13,743 | 1.00 | 0.63 | 12,996 | 12,996 | 1.00 | 0.71 | 12,050 | 12,050 | 1.00 | 0.77 | 11,154 | 11,154 | 1.00 | 0.82 | 10,257 | 10,257 | 1.00 | 0.86 | 9,361 | 9,361 | 1.00 | 0.90 |
| 32 | 90 | 20 | 68 | 14,340 | 13,996 | 0.98 | 0.66 | 13,743 | 13,413 | 0.98 | 0.72 | 12,946 | 12,635 | 0.98 | 0.79 | 12,000 | 11,712 | 0.98 | 0.86 | 11,054 | 10,789 | 0.98 | 0.90 | 10,257 | 10,011 | 0.98 | 0.94 |
| 32 | 90 | 22 | 72 | 15,137 | 12,957 | 0.86 | 0.69 | 14,639 | 12,531 | 0.86 | 0.77 | 13,743 | 11,764 | 0.86 | 0.83 | 12,846 | 10,997 | 0.86 | 0.90 | 11,950 | 10,229 | 0.86 | 0.94 | 10,954 | 9,377 | 0.86 | 0.97 |

SLZ-AF15NL/SUZ-AA15NLHZ

CAPACITY (Btu/h): 15,000 INPUT (kW): 1.18 SHF: 0.75

| Indoor intake air D.B.(°C) | Indoor intake air D.B.(°F) | Indoor intake air W.B.(°C) | Indoor intake air W.B.(°F) | Outdoor intake air °C/°F D.B. | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|----------------------------------|----------------------------------|----------------------------------|-------------------------------|--------|------|------|--------|--------|------|------|--------|--------|------|------|--------|--------|------|------|--------|--------|------|------|--------|--------|------|------|
| | | | | 20/68 | | | | 25/77 | | | | 30/86 | | | | 35/95 | | | | 40/104 | | | | 46/115 | | | |
| | | | | CA | SHC | SHF | P.C. | CA | SHC | SHF | P.C. | CA | SHC | SHF | P.C. | CA | SHC | SHF | P.C. | CA | SHC | SHF | P.C. | CA | SHC | SHF | P.C. |
| 19 | 66 | 16 | 61 | 15,716 | 10,153 | 0.65 | 0.78 | 14,783 | 9,550 | 0.65 | 0.89 | 13,600 | 8,786 | 0.65 | 0.97 | 12,480 | 8,062 | 0.65 | 1.05 | 11,359 | 7,338 | 0.65 | 1.11 | 10,239 | 6,614 | 0.65 | 1.16 |
| 19 | 66 | 18 | 64 | 17,178 | 9,036 | 0.53 | 0.86 | 16,245 | 8,545 | 0.53 | 0.97 | 15,062 | 7,923 | 0.53 | 1.05 | 13,942 | 7,333 | 0.53 | 1.13 | 12,822 | 6,744 | 0.53 | 1.19 | 11,701 | 6,155 | 0.53 | 1.24 |
| 20 | 68 | 16 | 61 | 15,716 | 10,781 | 0.69 | 0.78 | 14,783 | 10,141 | 0.69 | 0.89 | 13,600 | 9,330 | 0.69 | 0.97 | 12,480 | 8,561 | 0.69 | 1.05 | 11,359 | 7,793 | 0.69 | 1.11 | 10,239 | 7,024 | 0.69 | 1.16 |
| 20 | 68 | 18 | 64 | 17,178 | 9,723 | 0.57 | 0.86 | 16,245 | 9,195 | 0.57 | 0.97 | 15,062 | 8,525 | 0.57 | 1.05 | 13,942 | 7,891 | 0.57 | 1.13 | 12,822 | 7,257 | 0.57 | 1.19 | 11,701 | 6,623 | 0.57 | 1.24 |
| 20 | 68 | 20 | 68 | 17,925 | 7,995 | 0.45 | 0.91 | 17,178 | 7,662 | 0.45 | 0.99 | 16,183 | 7,217 | 0.45 | 1.09 | 15,000 | 6,690 | 0.45 | 1.18 | 13,817 | 6,163 | 0.45 | 1.24 | 12,822 | 5,718 | 0.45 | 1.29 |
| 22 | 72 | 16 | 61 | 15,716 | 12,039 | 0.77 | 0.78 | 14,783 | 11,323 | 0.77 | 0.89 | 13,600 | 10,418 | 0.77 | 0.97 | 12,480 | 9,559 | 0.77 | 1.05 | 11,359 | 8,701 | 0.77 | 1.11 | 10,239 | 7,843 | 0.77 | 1.16 |
| 22 | 72 | 18 | 64 | 17,178 | 11,097 | 0.65 | 0.86 | 16,245 | 10,494 | 0.65 | 0.97 | 15,062 | 9,730 | 0.65 | 1.05 | 13,942 | 9,006 | 0.65 | 1.13 | 12,822 | 8,283 | 0.65 | 1.19 | 11,701 | 7,559 | 0.65 | 1.24 |
| 22 | 72 | 20 | 68 | 17,925 | 9,429 | 0.53 | 0.91 | 17,178 | 9,036 | 0.53 | 0.99 | 16,183 | 8,512 | 0.53 | 1.09 | 15,000 | 7,890 | 0.53 | 1.18 | 13,817 | 7,268 | 0.53 | 1.24 | 12,822 | 6,744 | 0.53 | 1.29 |
| 24 | 75 | 16 | 61 | 15,716 | 13,296 | 0.85 | 0.78 | 14,783 | 12,506 | 0.85 | 0.89 | 13,600 | 11,506 | 0.85 | 0.97 | 12,480 | 10,558 | 0.85 | 1.05 | 11,359 | 9,610 | 0.85 | 1.11 | 10,239 | 8,662 | 0.85 | 1.16 |
| 24 | 75 | 18 | 64 | 17,178 | 12,472 | 0.73 | 0.86 | 16,245 | 11,794 | 0.73 | 0.97 | 15,062 | 10,935 | 0.73 | 1.05 | 13,942 | 10,122 | 0.73 | 1.13 | 12,822 | 9,308 | 0.73 | 1.19 | 11,701 | 8,495 | 0.73 | 1.24 |
| 24 | 75 | 20 | 68 | 17,925 | 10,863 | 0.61 | 0.91 | 17,178 | 10,410 | 0.61 | 0.99 | 16,183 | 9,807 | 0.61 | 1.09 | 15,000 | 9,090 | 0.61 | 1.18 | 13,817 | 8,373 | 0.61 | 1.24 | 12,822 | 7,770 | 0.61 | 1.29 |
| 24 | 75 | 22 | 72 | 18,921 | 9,196 | 0.49 | 0.95 | 18,299 | 8,893 | 0.49 | 1.05 | 17,178 | 8,349 | 0.49 | 1.14 | 16,058 | 7,804 | 0.49 | 1.23 | 14,938 | 7,260 | 0.49 | 1.29 | 13,693 | 6,655 | 0.49 | 1.33 |
| 26 | 79 | 16 | 61 | 15,716 | 14,553 | 0.93 | 0.78 | 14,783 | 13,689 | 0.93 | 0.89 | 13,600 | 12,594 | 0.93 | 0.97 | 12,480 | 11,556 | 0.93 | 1.05 | 11,359 | 10,519 | 0.93 | 1.11 | 10,239 | 9,481 | 0.93 | 1.16 |
| 26 | 79 | 18 | 64 | 17,178 | 13,846 | 0.81 | 0.86 | 16,245 | 13,093 | 0.81 | 0.97 | 15,062 | 12,140 | 0.81 | 1.05 | 13,942 | 11,237 | 0.81 | 1.13 | 12,822 | 10,334 | 0.81 | 1.19 | 11,701 | 9,431 | 0.81 | 1.24 |
| 26 | 79 | 20 | 68 | 17,925 | 12,297 | 0.69 | 0.91 | 17,178 | 11,784 | 0.69 | 0.99 | 16,183 | 11,101 | 0.69 | 1.09 | 15,000 | 10,290 | 0.69 | 1.18 | 13,817 | 9,479 | 0.69 | 1.24 | 12,822 | 8,796 | 0.69 | 1.29 |
| 26 | 79 | 22 | 72 | 18,921 | 10,709 | 0.57 | 0.95 | 18,299 | 10,357 | 0.57 | 1.05 | 17,178 | 9,723 | 0.57 | 1.14 | 16,058 | 9,089 | 0.57 | 1.23 | 14,938 | 8,455 | 0.57 | 1.29 | 13,693 | 7,750 | 0.57 | 1.33 |
| 27 | 81 | 16 | 61 | 15,716 | 15,182 | 0.97 | 0.78 | 14,783 | 14,280 | 0.97 | 0.89 | 13,600 | 13,138 | 0.97 | 0.97 | 12,480 | 12,055 | 0.97 | 1.05 | 11,359 | 10,973 | 0.97 | 1.11 | 10,239 | 9,891 | 0.97 | 1.16 |
| 27 | 81 | 18 | 64 | 17,178 | 14,533 | 0.85 | 0.86 | 16,245 | 13,743 | 0.85 | 0.97 | 15,062 | 12,743 | 0.85 | 1.05 | 13,942 | 11,795 | 0.85 | 1.13 | 12,822 | 10,847 | 0.85 | 1.19 | 11,701 | 9,899 | 0.85 | 1.24 |
| 27 | 81 | 20 | 68 | 17,925 | 13,014 | 0.73 | 0.91 | 17,178 | 12,472 | 0.73 | 0.99 | 16,183 | 11,749 | 0.73 | 1.09 | 15,000 | 10,890 | 0.73 | 1.18 | 13,817 | 10,031 | 0.73 | 1.24 | 12,822 | 9,308 | 0.73 | 1.29 |
| 27 | 81 | 22 | 72 | 18,921 | 11,466 | 0.61 | 0.95 | 18,299 | 11,089 | 0.61 | 1.05 | 17,178 | 10,410 | 0.61 | 1.14 | 16,058 | 9,731 | 0.61 | 1.23 | 14,938 | 9,052 | 0.61 | 1.29 | 13,693 | 8,298 | 0.61 | 1.33 |
| 28 | 82 | 16 | 61 | 15,716 | 15,716 | 1.00 | 0.78 | 14,783 | 14,783 | 1.00 | 0.89 | 13,600 | 13,600 | 1.00 | 0.97 | 12,480 | 12,480 | 1.00 | 1.05 | 11,359 | 11,359 | 1.00 | 1.11 | 10,239 | 10,239 | 1.00 | 1.16 |
| 28 | 82 | 18 | 64 | 17,178 | 15,220 | 0.89 | 0.86 | 16,245 | 14,393 | 0.89 | 0.97 | 15,062 | 13,345 | 0.89 | 1.05 | 13,942 | 12,353 | 0.89 | 1.13 | 12,822 | 11,360 | 0.89 | 1.19 | 11,701 | 10,367 | 0.89 | 1.24 |
| 28 | 82 | 20 | 68 | 17,925 | 13,731 | 0.77 | 0.91 | 17,178 | 13,159 | 0.77 | 0.99 | 16,183 | 12,396 | 0.77 | 1.09 | 15,000 | 11,490 | 0.77 | 1.18 | 13,817 | 10,584 | 0.77 | 1.24 | 12,822 | 9,821 | 0.77 | 1.29 |
| 28 | 82 | 22 | 72 | 18,921 | 12,223 | 0.65 | 0.95 | 18,299 | 11,821 | 0.65 | 1.05 | 17,178 | 11,097 | 0.65 | 1.14 | 16,058 | 10,374 | 0.65 | 1.23 | 14,938 | 9,650 | 0.65 | 1.29 | 13,693 | 8,846 | 0.65 | 1.33 |
| 30 | 86 | 16 | 61 | 15,716 | 15,716 | 1.00 | 0.78 | 14,783 | 14,783 | 1.00 | 0.89 | 13,600 | 13,600 | 1.00 | 0.97 | 12,480 | 12,480 | 1.00 | 1.05 | 11,359 | 11,359 | 1.00 | 1.11 | 10,239 | 10,239 | 1.00 | 1.16 |
| 30 | 86 | 18 | 64 | 17,178 | 16,594 | 0.97 | 0.86 | 16,245 | 15,692 | 0.97 | 0.97 | 15,062 | 14,550 | 0.97 | 1.05 | 13,942 | 13,468 | 0.97 | 1.13 | 12,822 | 12,386 | 0.97 | 1.19 | 11,701 | 11,303 | 0.97 | 1.24 |
| 30 | 86 | 20 | 68 | 17,925 | 15,165 | 0.85 | 0.91 | 17,178 | 14,533 | 0.85 | 0.99 | 16,183 | 13,690 | 0.85 | 1.09 | 15,000 | 12,690 | 0.85 | 1.18 | 13,817 | 11,690 | 0.85 | 1.24 | 12,822 | 10,847 | 0.85 | 1.29 |
| 30 | 86 | 22 | 72 | 18,921 | 13,737 | 0.73 | 0.95 | 18,299 | 13,285 | 0.73 | 1.05 | 17,178 | 12,472 | 0.73 | 1.14 | 16,058 | 11,658 | 0.73 | 1.23 | 14,938 | 10,845 | 0.73 | 1.29 | 13,693 | 9,941 | 0.73 | 1.33 |
| 32 | 90 | 16 | 61 | 15,716 | 15,716 | 1.00 | 0.78 | 14,783 | 14,783 | 1.00 | 0.89 | 13,600 | 13,600 | 1.00 | 0.97 | 12,480 | 12,480 | 1.00 | 1.05 | 11,359 | 11,359 | 1.00 | 1.11 | 10,239 | 10,239 | 1.00 | 1.16 |
| 32 | 90 | 18 | 64 | 17,178 | 17,178 | 1.00 | 0.86 | 16,245 | 16,245 | 1.00 | 0.97 | 15,062 | 15,062 | 1.00 | 1.05 | 13,942 | 13,942 | 1.00 | 1.13 | 12,822 | 12,822 | 1.00 | 1.19 | 11,701 | 11,701 | 1.00 | 1.24 |
| 32 | 90 | 20 | 68 | 17,925 | 16,599 | 0.93 | 0.91 | 17,178 | 15,907 | 0.93 | 0.99 | 16,183 | 14,985 | 0.93 | 1.09 | 15,000 | 13,890 | 0.93 | 1.18 | 13,817 | 12,795 | 0.93 | 1.24 | 12,822 | 11,873 | 0.93 | 1.29 |
| 32 | 90 | 22 | 72 | 18,921 | 15,250 | 0.81 | 0.95 | 18,299 | 14,749 | 0.81 | 1.05 | 17,178 | 13,846 | 0.81 | 1.14 | 16,058 | 12,943 | 0.81 | 1.23 | 14,938 | 12,040 | 0.81 | 1.29 | 13,693 | 11,037 | 0.81 | 1.33 |

SLZ-AF18NL/SUZ-AA18NLHZ

CAPACITY (Btu/h): 18,000 INPUT (kW): 1.5 SHF: 0.7

| Indoor intake air D.B.(°C) | Indoor intake air D.B.(°F) | Indoor intake air W.B.(°C) | Indoor intake air W.B.(°F) | Outdoor intake air °C/°F D.B. | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|----------------------------------|----------------------------------|----------------------------------|-------------------------------|--------|------|------|--------|--------|------|------|--------|--------|------|------|--------|--------|------|------|--------|--------|------|------|--------|--------|------|------|
| | | | | 20/68 | | | | 25/77 | | | | 30/86 | | | | 35/95 | | | | 40/104 | | | | 46/115 | | | |
| | | | | CA | SHC | SHF | P.C. | CA | SHC | SHF | P.C. | CA | SHC | SHF | P.C. | CA | SHC | SHF | P.C. | CA | SHC | SHF | P.C. | CA | SHC | SHF | P.C. |
| 19 | 66 | 16 | 61 | 18,859 | 11,240 | 0.60 | 0.99 | 17,739 | 10,572 | 0.60 | 1.13 | 16,320 | 9,727 | 0.60 | 1.23 | 14,976 | 8,925 | 0.60 | 1.34 | 13,631 | 8,124 | 0.60 | 1.40 | 12,287 | 7,323 | 0.60 | 1.47 |
| 19 | 66 | 18 | 64 | 20,614 | 9,812 | 0.48 | 1.10 | 19,494 | 9,279 | 0.48 | 1.23 | 18,075 | 8,604 | 0.48 | 1.34 | 16,730 | 7,964 | 0.48 | 1.44 | 15,386 | 7,324 | 0.48 | 1.51 | 14,041 | 6,684 | 0.48 | 1.58 |
| 20 | 68 | 16 | 61 | 18,859 | 11,995 | 0.64 | 0.99 | 17,739 | 11,282 | 0.64 | 1.13 | 16,320 | 10,380 | 0.64 | 1.23 | 14,976 | 9,524 | 0.64 | 1.34 | 13,631 | 8,669 | 0.64 | 1.40 | 12,287 | 7,814 | 0.64 | 1.47 |
| 20 | 68 | 18 | 64 | 20,614 | 10,637 | 0.52 | 1.10 | 19,494 | 10,059 | 0.52 | 1.23 | 18,075 | 9,327 | 0.52 | 1.34 | 16,730 | 8,633 | 0.52 | 1.44 | 15,386 | 7,939 | 0.52 | 1.51 | 14,041 | 7,245 | 0.52 | 1.58 |
| 20 | 68 | 20 | 68 | 21,510 | 8,518 | 0.40 | 1.16 | 20,614 | 8,163 | 0.40 | 1.26 | 19,419 | 7,690 | 0.40 | 1.38 | 18,000 | 7,128 | 0.40 | 1.50 | 16,581 | 6,566 | 0.40 | 1.58 | 15,386 | 6,093 | 0.40 | 1.64 |
| 22 | 72 | 16 | 61 | 18,859 | 13,503 | 0.72 | 0.99 | 17,739 | 12,701 | 0.72 | 1.13 | 16,320 | 11,685 | 0.72 | 1.23 | 14,976 | 10,723 | 0.72 | 1.34 | 13,631 | 9,760 | 0.72 | 1.40 | 12,287 | 8,797 | 0.72 | 1.47 |
| 22 | 72 | 18 | 64 | 20,614 | 12,286 | 0.60 | 1.10 | 19,494 | 11,618 | 0.60 | 1.23 | 18,075 | 10,773 | 0.60 | 1.34 | 16,730 | 9,971 | 0.60 | 1.44 | 15,386 | 9,170 | 0.60 | 1.51 | 14,041 | 8,369 | 0.60 | 1.58 |
| 22 | 72 | 20 | 68 | 21,510 | 10,239 | 0.48 | 1.16 | 20,614 | 9,812 | 0.48 | 1.26 | 19,419 | 9,243 | 0.48 | 1.38 | 18,000 | 8,568 | 0.48 | 1.50 | 16,581 | 7,893 | 0.48 | 1.58 | 15,386 | 7,324 | 0.48 | 1.64 |
| 24 | 75 | 16 | 61 | 18,859 | 15,012 | 0.80 | 0.99 | 17,739 | 14,120 | 0.80 | 1.13 | 16,320 | 12,991 | 0.80 | 1.23 | 14,976 | 11,921 | 0.80 | 1.34 | 13,631 | 10,850 | 0.80 | 1.40 | 12,287 | 9,780 | 0.80 | 1.47 |
| 24 | 75 | 18 | 64 | 20,614 | 13,935 | 0.68 | 1.10 | 19,494 | 13,178 | 0.68 | 1.23 | 18,075 | 12,218 | 0.68 | 1.34 | 16,730 | 11,310 | 0.68 | 1.44 | 15,386 | 10,401 | 0.68 | 1.51 | 14,041 | 9,492 | 0.68 | 1.58 |
| 24 | 75 | 20 | 68 | 21,510 | 11,960 | 0.56 | 1.16 | 20,614 | 11,461 | 0.56 | 1.26 | 19,419 | 10,797 | 0.56 | 1.38 | 18,000 | 10,008 | 0.56 | 1.50 | 16,581 | 9,219 | 0.56 | 1.58 | 15,386 | 8,555 | 0.56 | 1.64 |
| 24 | 75 | 22 | 72 | 22,705 | 9,900 | 0.44 | 1.21 | 21,959 | 9,574 | 0.44 | 1.34 | 20,614 | 8,988 | 0.44 | 1.45 | 19,270 | 8,402 | 0.44 | 1.56 | 17,925 | 7,815 | 0.44 | 1.64 | 16,432 | 7,164 | 0.44 | 1.68 |
| 26 | 79 | 16 | 61 | 18,859 | 16,521 | 0.88 | 0.99 | 17,739 | 15,539 | 0.88 | 1.13 | 16,320 | 14,296 | 0.88 | 1.23 | 14,976 | 13,119 | 0.88 | 1.34 | 13,631 | 11,941 | 0.88 | 1.40 | 12,287 | 10,763 | 0.88 | 1.47 |
| 26 | 79 | 18 | 64 | 20,614 | 15,584 | 0.76 | 1.10 | 19,494 | 14,737 | 0.76 | 1.23 | 18,075 | 13,664 | 0.76 | 1.34 | 16,730 | 12,648 | 0.76 | 1.44 | 15,386 | 11,632 | 0.76 | 1.51 | 14,041 | 10,615 | 0.76 | 1.58 |
| 26 | 79 | 20 | 68 | 21,510 | 13,681 | 0.64 | 1.16 | 20,614 | 13,111 | 0.64 | 1.26 | 19,419 | 12,351 | 0.64 | 1.38 | 18,000 | 11,448 | 0.64 | 1.50 | 16,581 | 10,545 | 0.64 | 1.58 | 15,386 | 9,785 | 0.64 | 1.64 |
| 26 | 79 | 22 | 72 | 22,705 | 11,716 | 0.52 | 1.21 | 21,959 | 11,331 | 0.52 | 1.34 | 20,614 | 10,637 | 0.52 | 1.45 | 19,270 | 9,943 | 0.52 | 1.56 | 17,925 | 9,249 | 0.52 | 1.64 | 16,432 | 8,479 | 0.52 | 1.68 |
| 27 | 81 | 16 | 61 | 18,859 | 17,275 | 0.92 | 0.99 | 17,739 | 16,249 | 0.92 | 1.13 | 16,320 | 14,949 | 0.92 | 1.23 | 14,976 | 13,718 | 0.92 | 1.34 | 13,631 | 12,486 | 0.92 | 1.40 | 12,287 | 11,255 | 0.92 | 1.47 |
| 27 | 81 | 18 | 64 | 20,614 | 16,409 | 0.80 | 1.10 | 19,494 | 15,517 | 0.80 | 1.23 | 18,075 | 14,387 | 0.80 | 1.34 | 16,730 | 13,317 | 0.80 | 1.44 | 15,386 | 12,247 | 0.80 | 1.51 | 14,041 | 11,177 | 0.80 | 1.58 |
| 27 | 81 | 20 | 68 | 21,510 | 14,541 | 0.68 | 1.16 | 20,614 | 13,935 | 0.68 | 1.26 | 19,419 | 13,127 | 0.68 | 1.38 | 18,000 | 12,168 | 0.68 | 1.50 | 16,581 | 11,209 | 0.68 | 1.58 | 15,386 | 10,401 | 0.68 | 1.64 |
| 27 | 81 | 22 | 72 | 22,705 | 12,624 | 0.56 | 1.21 | 21,959 | 12,209 | 0.56 | 1.34 | 20,614 | 11,461 | 0.56 | 1.45 | 19,270 | 10,714 | 0.56 | 1.56 | 17,925 | 9,966 | 0.56 | 1.64 | 16,432 | 9,136 | 0.56 | 1.68 |
| 28 | 82 | 16 | 61 | 18,859 | 18,030 | 0.96 | 0.99 | 17,739 | 16,959 | 0.96 | 1.13 | 16,320 | 15,602 | 0.96 | 1.23 | 14,976 | 14,317 | 0.96 | 1.34 | 13,631 | 13,031 | 0.96 | 1.40 | 12,287 | 11,746 | 0.96 | 1.47 |
| 28 | 82 | 18 | 64 | 20,614 | 17,233 | 0.84 | 1.10 | 19,494 | 16,297 | 0.84 | 1.23 | 18,075 | 15,110 | 0.84 | 1.34 | 16,730 | 13,987 | 0.84 | 1.44 | 15,386 | 12,863 | 0.84 | 1.51 | 14,041 | 11,739 | 0.84 | 1.58 |
| 28 | 82 | 20 | 68 | 21,510 | 15,401 | 0.72 | 1.16 | 20,614 | 14,760 | 0.72 | 1.26 | 19,419 | 13,904 | 0.72 | 1.38 | 18,000 | 12,888 | 0.72 | 1.50 | 16,581 | 11,872 | 0.72 | 1.58 | 15,386 | 11,016 | 0.72 | 1.64 |
| 28 | 82 | 22 | 72 | 22,705 | 13,532 | 0.60 | 1.21 | 21,959 | 13,087 | 0.60 | 1.34 | 20,614 | 12,286 | 0.60 | 1.45 | 19,270 | 11,485 | 0.60 | 1.56 | 17,925 | 10,683 | 0.60 | 1.64 | 16,432 | 9,793 | 0.60 | 1.68 |
| 30 | 86 | 16 | 61 | 18,859 | 18,859 | 1.00 | 0.99 | 17,739 | 17,739 | 1.00 | 1.13 | 16,320 | 16,320 | 1.00 | 1.23 | 14,976 | 14,976 | 1.00 | 1.34 | 13,631 | 13,631 | 1.00 | 1.40 | 12,287 | 12,287 | 1.00 | 1.47 |
| 30 | 86 | 18 | 64 | 20,614 | 18,883 | 0.92 | 1.10 | 19,494 | 17,856 | 0.92 | 1.23 | 18,075 | 16,556 | 0.92 | 1.34 | 16,730 | 15,325 | 0.92 | 1.44 | 15,386 | 14,093 | 0.92 | 1.51 | 14,041 | 12,862 | 0.92 | 1.58 |
| 30 | 86 | 20 | 68 | 21,510 | 17,122 | 0.80 | 1.16 | 20,614 | 16,409 | 0.80 | 1.26 | 19,419 | 15,458 | 0.80 | 1.38 | 18,000 | 14,328 | 0.80 | 1.50 | 16,581 | 13,198 | 0.80 | 1.58 | 15,386 | 12,247 | 0.80 | 1.64 |
| 30 | 86 | 22 | 72 | 22,705 | 15,439 | 0.68 | 1.21 | 21,959 | 14,844 | 0.68 | 1.34 | 20,614 | 13,935 | 0.68 | 1.45 | 19,270 | 12,926 | 0.68 | 1.56 | 17,925 | 12,118 | 0.68 | 1.64 | 16,432 | 11,108 | 0.68 | 1.68 |
| 32 | 90 | 16 | 61 | 18,859 | 18,859 | 1.00 | 0.99 | 17,739 | 17,739 | 1.00 | 1.13 | 16,320 | 16,320 | 1.00 | 1.23 | 14,976 | 14,976 | 1.00 | 1.34 | 13,631 | 13,631 | 1.00 | 1.40 | 12,287 | 12,287 | 1.00 | 1.47 |
| 32 | 90 | 18 | 64 | 20,614 | 20,532 | 1.00 | 1.10 | 19,494 | 19,416 | 1.00 | 1.23 | 18,075 | 18,002 | 1.00 | 1.34 | 16,730 | 16,663 | 1.00 | 1.44 | 15,386 | 15,324 | 1.00 | 1.51 | 14,041 | 13,985 | 1.00 | 1.58 |
| 32 | 90 | 20 | 68 | 21,510 | 18,843 | 0.88 | 1.16 | 20,614 | 18,058 | 0.88 | 1.26 | 19,419 | 17,011 | 0.88 | 1.38 | 18,000 | 15,768 | 0.88 | 1.50 | 16,581 | 14,525 | 0.88 | 1.58 | 15,386 | 13,478 | 0.88 | 1.64 |
| 32 | 90 | 22 | 72 | 22,705 | 17,165 | 0.76 | 1.21 | 21,959 | 16,601 | 0.76 | 1.34 | 20,614 | 15,584 | 0.76 | 1.45 | 19,270 | 14,568 | 0.76 | 1.56 | 17,925 | 13,562 | 0.76 | 1.64 | 16,432 | 12,422 | 0.76 | 1.68 |

T3-2-2. HEATING CAPACITY

OUTDOOR:SUZ-AA09-18NLHZ

| Model Name | Capacity Btu/h | Input kW | Indoor intake air D.B.(°C) | Indoor intake air D.B.(°F) | Outdoor intake air °C/°F W.B. | | | | | | | | | | | |
|------------|-------------------|-------------|----------------------------------|----------------------------------|-------------------------------|------|---------|------|--------|------|--------|------|---------|------|---------|------|
| | | | | | -10/14 | | -5 / 23 | | 0 / 32 | | 5 / 41 | | 10 / 50 | | 15 / 59 | |
| | | | | | CA | P.C. | CA | P.C. | CA | P.C. | CA | P.C. | CA | P.C. | CA | P.C. |
| SLZ-AF09NL | 12,000 | 1.02 | 15 | 59 | 8,280 | 0.80 | 10,080 | 0.94 | 10,980 | 1.00 | 12,540 | 0.99 | 13,620 | 1.04 | 14,880 | 1.09 |
| | | | 20 | 68 | 7,860 | 0.83 | 9,660 | 0.96 | 10,500 | 1.02 | 12,060 | 1.01 | 13,140 | 1.06 | 14,400 | 1.11 |
| | | | 25 | 77 | 7,560 | 0.85 | 9,360 | 0.99 | 10,200 | 1.05 | 11,640 | 1.04 | 12,720 | 1.09 | 13,920 | 1.14 |
| SLZ-AF12NL | 15,000 | 1.29 | 15 | 59 | 10,350 | 1.01 | 12,600 | 1.19 | 13,725 | 1.26 | 15,675 | 1.25 | 17,025 | 1.31 | 18,600 | 1.38 |
| | | | 20 | 68 | 9,825 | 1.04 | 12,075 | 1.22 | 13,125 | 1.29 | 15,075 | 1.28 | 16,425 | 1.34 | 18,000 | 1.41 |
| | | | 25 | 77 | 9,450 | 1.08 | 11,700 | 1.25 | 12,750 | 1.33 | 14,550 | 1.31 | 15,900 | 1.38 | 17,400 | 1.44 |
| SLZ-AF15NL | 17,000 | 1.50 | 15 | 59 | 11,730 | 1.18 | 14,280 | 1.38 | 15,555 | 1.47 | 17,765 | 1.45 | 19,295 | 1.53 | 21,080 | 1.60 |
| | | | 20 | 68 | 11,135 | 1.21 | 13,685 | 1.41 | 14,875 | 1.51 | 17,085 | 1.49 | 18,615 | 1.56 | 20,400 | 1.64 |
| | | | 25 | 77 | 10,710 | 1.25 | 13,260 | 1.45 | 14,450 | 1.54 | 16,490 | 1.53 | 18,020 | 1.60 | 19,720 | 1.67 |
| SLZ-AF18NL | 20,000 | 1.88 | 15 | 59 | 13,800 | 1.48 | 16,800 | 1.73 | 18,300 | 1.84 | 20,900 | 1.82 | 22,700 | 1.91 | 24,800 | 2.01 |
| | | | 20 | 68 | 13,100 | 1.52 | 16,100 | 1.77 | 17,500 | 1.89 | 20,100 | 1.87 | 21,900 | 1.96 | 24,000 | 2.05 |
| | | | 25 | 77 | 12,600 | 1.57 | 15,600 | 1.82 | 17,000 | 1.93 | 19,400 | 1.91 | 21,200 | 2.00 | 23,200 | 2.10 |

Note: CA : Capacity (Btu/h)
D.B. : Dry-bulb temperature

P.C. : Power consumption (kW)
W.B. : Wet-bulb temperature

T4-1. OUTLET AIR SPEED AND COVERAGE RANGE

| | Unit | SLZ-AF09NL | SLZ-AF12NL | SLZ-AF15NL | SLZ-AF18NL |
|-----------------|---------------------|-----------------|-----------------|------------------|-------------------|
| Air flow H-M-L | m ³ /min | 8.5 - 7.5 - 6.5 | 9.5 - 8.0 - 6.5 | 11.5 - 9.0 - 7.0 | 13.5 - 12.0 - 8.5 |
| | CFM | 300-265-230 | 335-280-230 | 405-315-245 | 475-420-300 |
| Air speed at Hi | m/s | 6.0 | 6.7 | 8.1 | 9.6 |
| Coverage range | m | 4.6 | 5.1 | 6.2 | 7.2 |

T4-2 TEMPERATURE AND AIR FLOW DISTRIBUTIONS

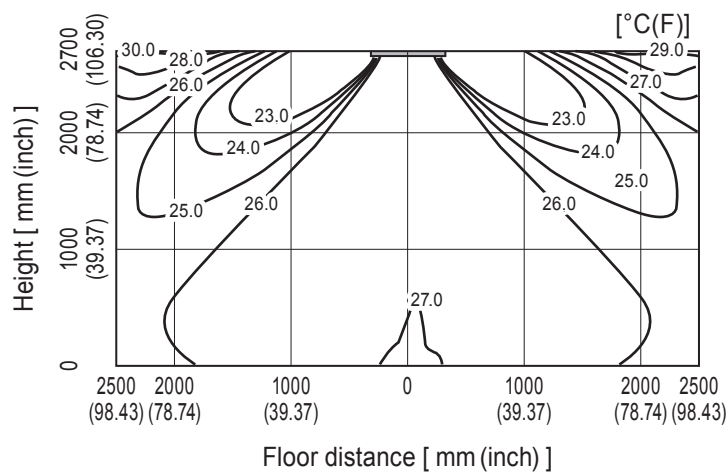
SLZ-AF09NL

Temperature distribution

<Cooling mode> Standard

Flow angle: 45° 4-way flow

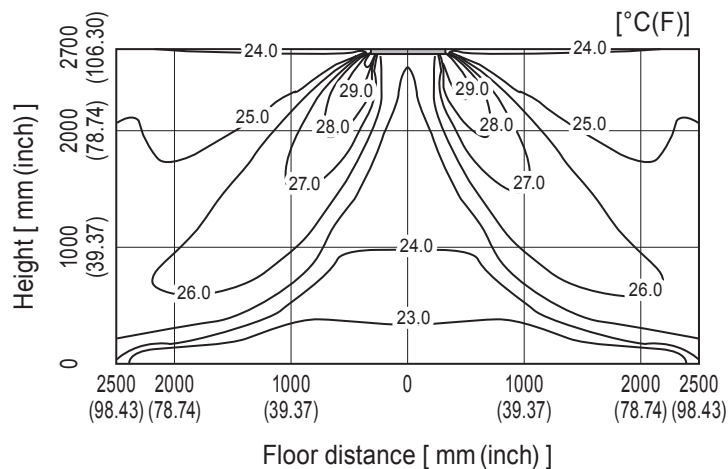
Ceiling height : 2.7m



<Heating mode> Standard

Flow angle: 60° 4-way flow

Ceiling height : 2.7m



Note : These figures show typical airflow distributions in the conditions above. In the actual installation, they may differ from these figures under the influence of air temperature conditions, ceiling height, cooling/heating load, obstacles, etc.

SLZ-AF09NL

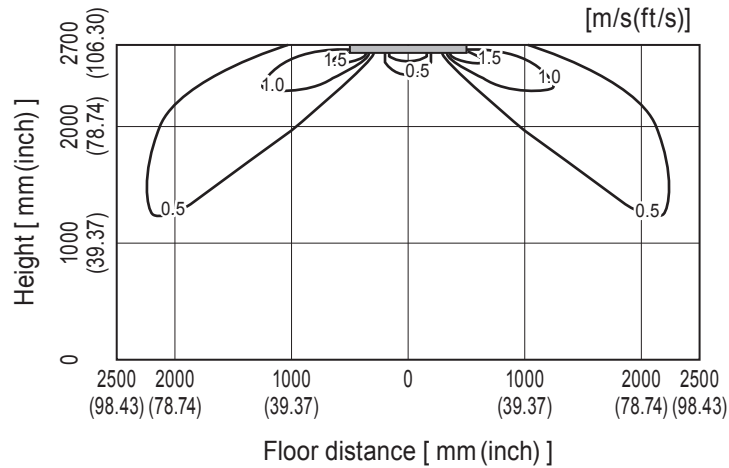
Airflow distribution

<Cooling mode>

Standard

Flow angle: 45° 4-way flow

Ceiling height : 2.7m

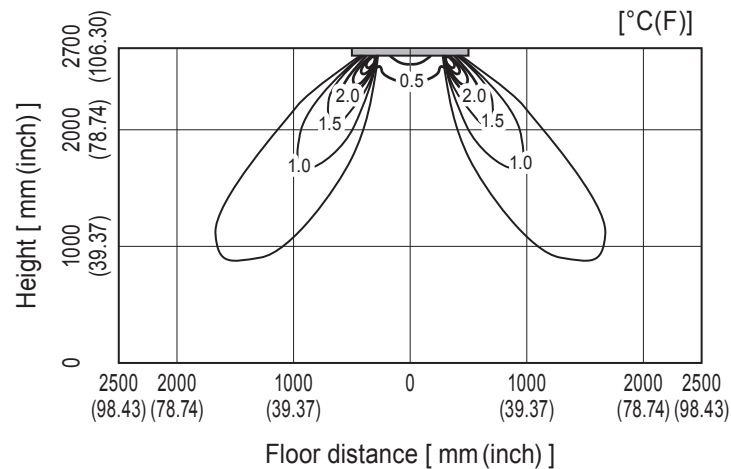


<Heating mode>

Standard

Flow angle: 60° 4-way flow

Ceiling height : 2.7m



Note : These figures show typical airflow distributions in the conditions above. In the actual installation, they may differ from these figures under the influence of air temperature conditions, ceiling height, cooling/heating load, obstacles, etc.

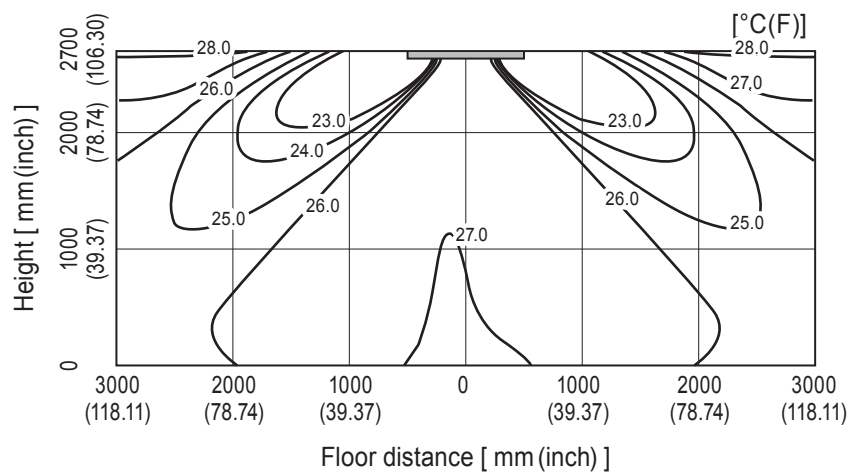
SLZ-AF12NL

Temperature distribution

<Cooling mode> Standard

Flow angle: 45° 4-way flow

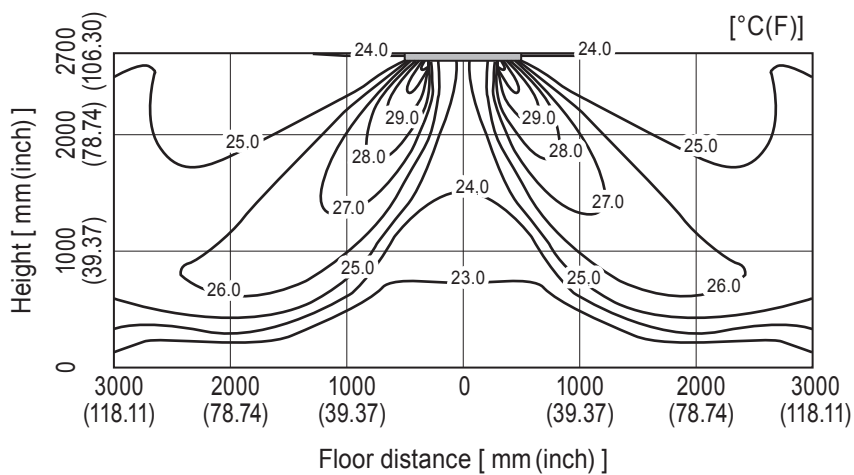
Ceiling height : 2.7m



<Heating mode> Standard

Flow angle: 60° 4-way flow

Ceiling height : 2.7m



Note : These figures show typical airflow distributions in the conditions above. In the actual installation, they may differ from these figures under the influence of air temperature conditions, ceiling height, cooling/heating load, obstacles, etc.

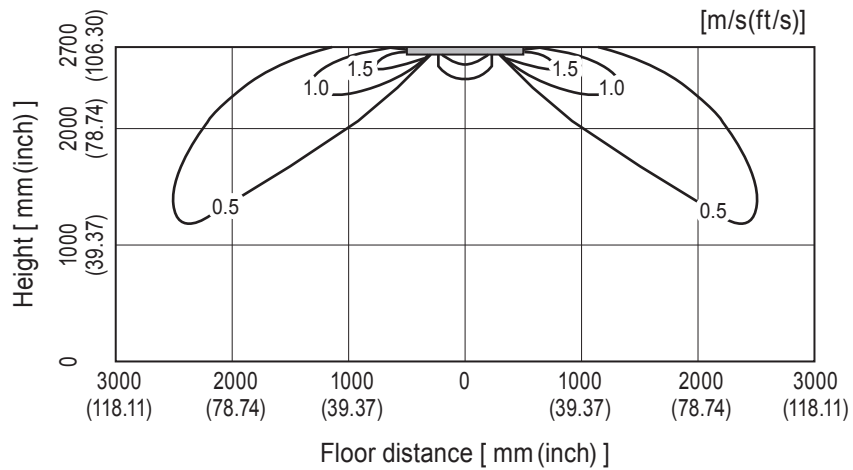
SLZ-AF12NL

Airflow distribution

<Cooling mode> **Standard**

Flow angle: 45° 4-way flow

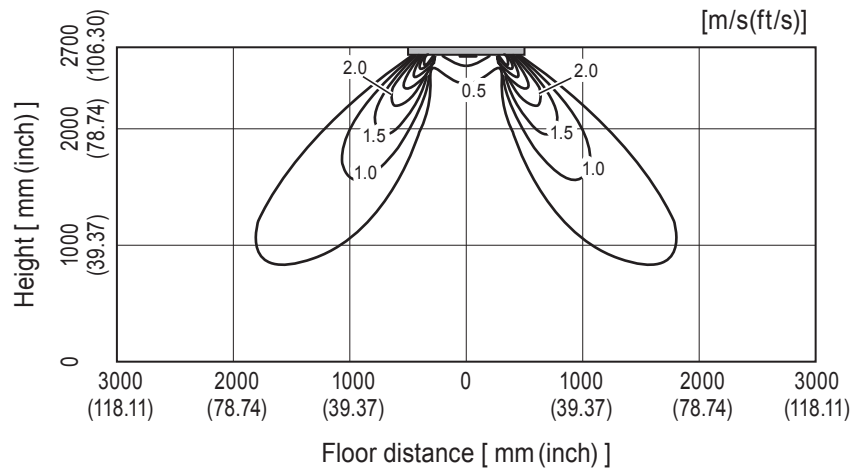
Ceiling height : 2.7m



<Heating mode> **Standard**

Flow angle: 60° 4-way flow

Ceiling height : 2.7m



Note : These figures show typical airflow distributions in the conditions above. In the actual installation, they may differ from these figures under the influence of air temperature conditions, ceiling height, cooling/heating load, obstacles, etc.

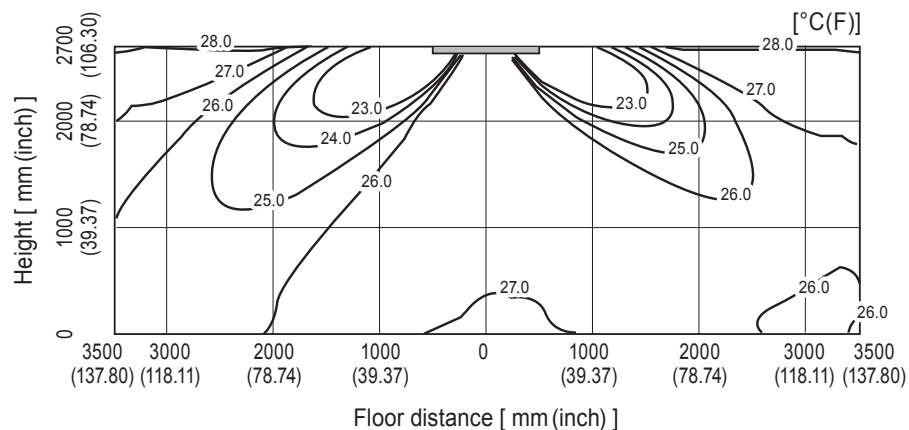
SLZ-AF15NL

Temperature distribution

<Cooling mode> Standard

Flow angle: 45° 4-way flow

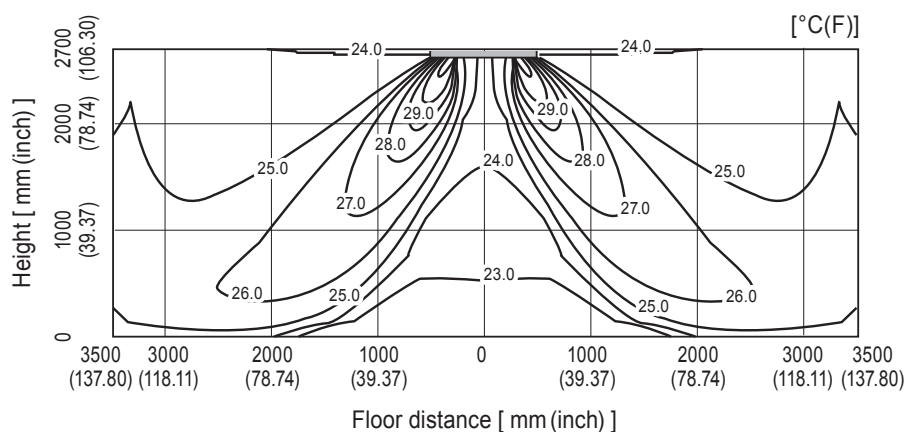
Ceiling height : 2.7m



<Heating mode> Standard

Flow angle: 60° 4-way flow

Ceiling height : 2.7m



Note : These figures show typical airflow distributions in the conditions above. In the actual installation, they may differ from these figures under the influence of air temperature conditions, ceiling height, cooling/heating load, obstacles, etc.

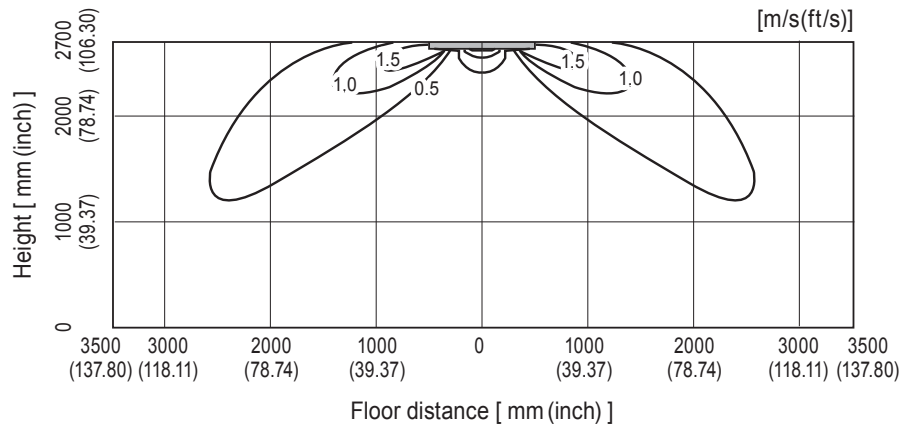
SLZ-AF15NL

Airflow distribution

<Cooling mode> Standard

Flow angle: 45° 4-way flow

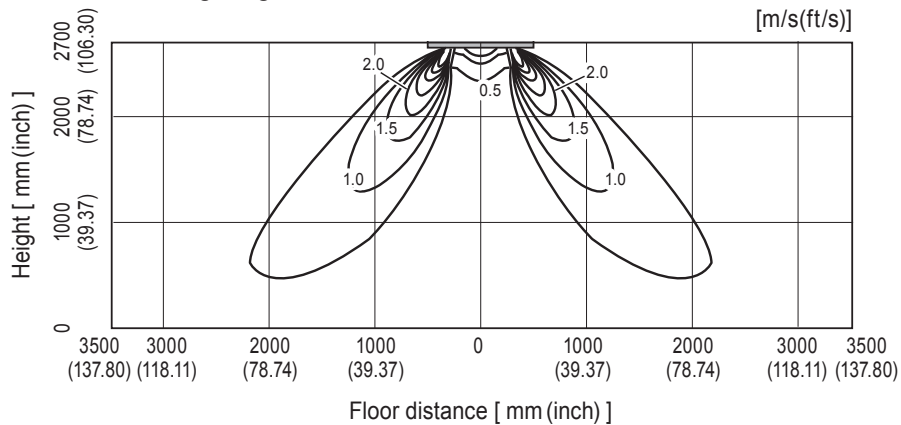
Ceiling height : 2.7m



<Heating mode> Standard

Flow angle: 60° 4-way flow

Ceiling height : 2.7m

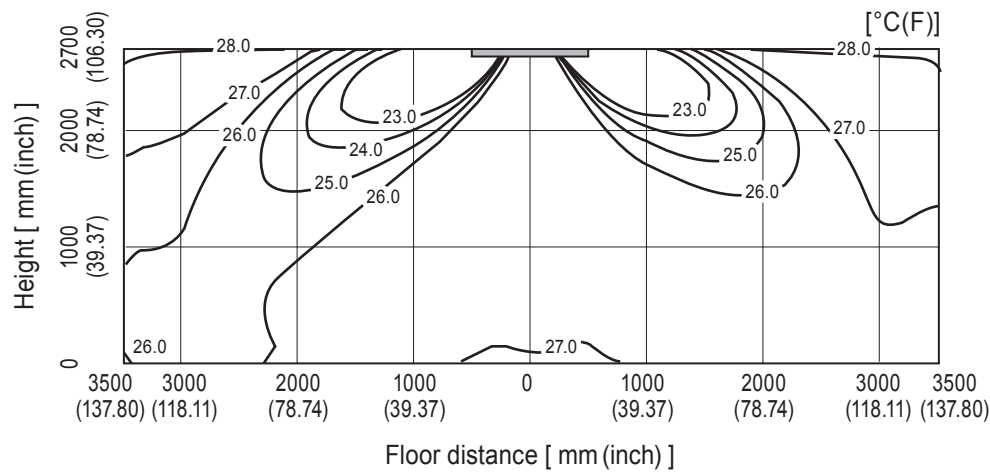


Note : These figures show typical airflow distributions in the conditions above. In the actual installation, they may differ from these figures under the influence of air temperature conditions, ceiling height, cooling/heating load, obstacles, etc.

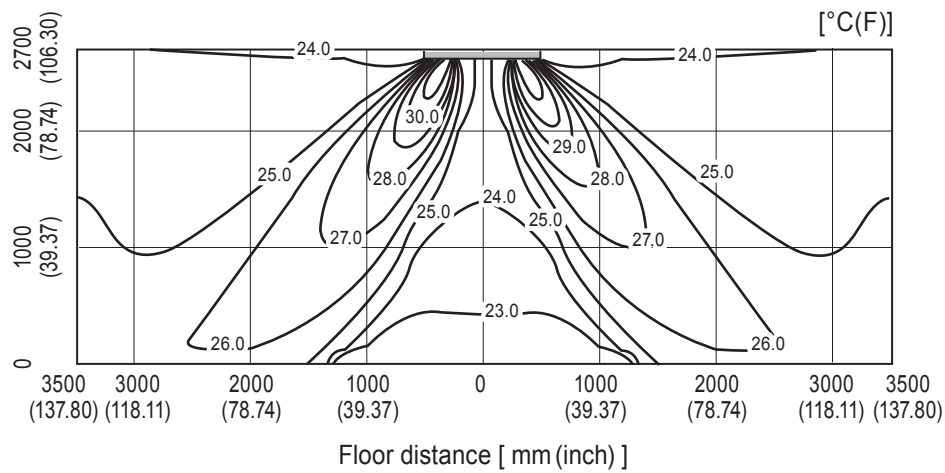
SLZ-AF18NL

Temperature distribution

<Cooling mode> **Standard**
Flow angle: 45° 4-way flow
Ceiling height : 2.7m



<Heating mode> **Standard**
Flow angle: 60° 4-way flow
Ceiling height : 2.7m

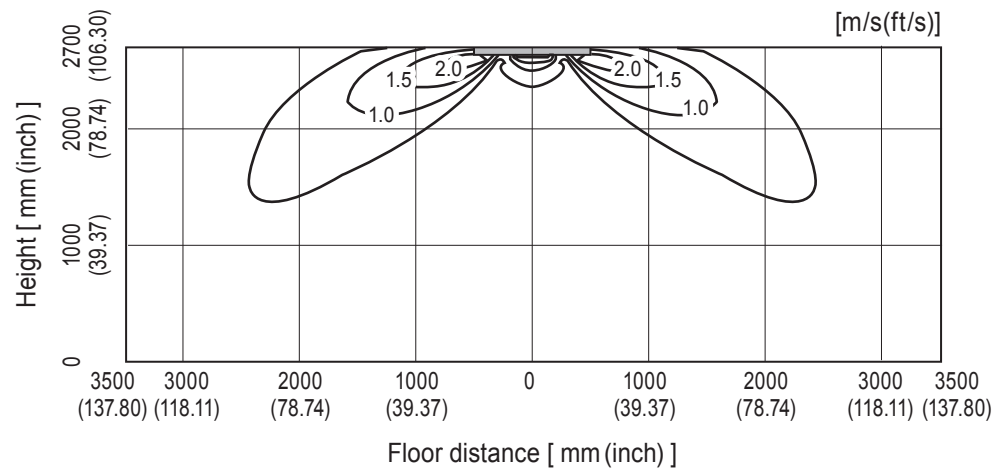


SLZ-AF18NL

Airflow distribution

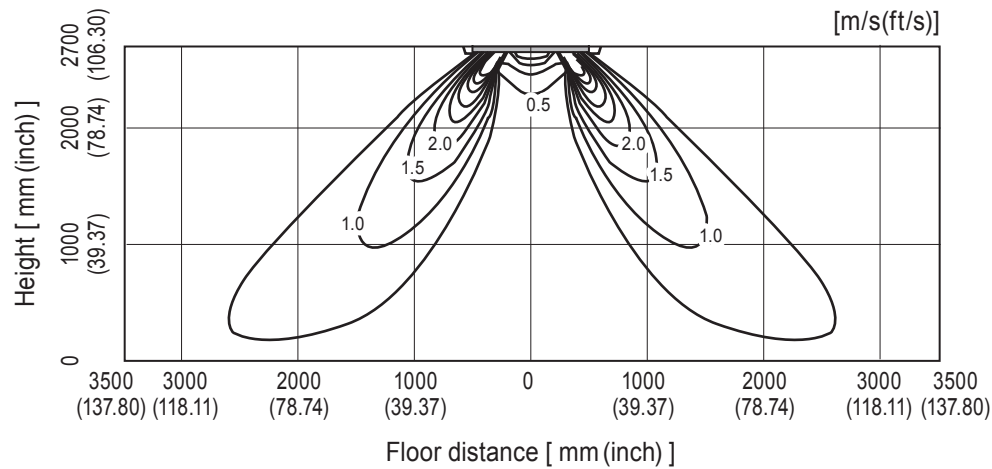
<Cooling mode> **Standard**

Flow angle: 45° 4-way flow
Ceiling height : 2.7m



<Heating mode> **Standard**

Flow angle: 60° 4-way flow
Ceiling height : 2.7m



mitsubishi electric corporation

HEAD OFFICE: TOKYO BUILDING, 2-7-3, MARUNOUCHI, CHIYODA-KU, TOKYO 100-8,310, JAPAN
