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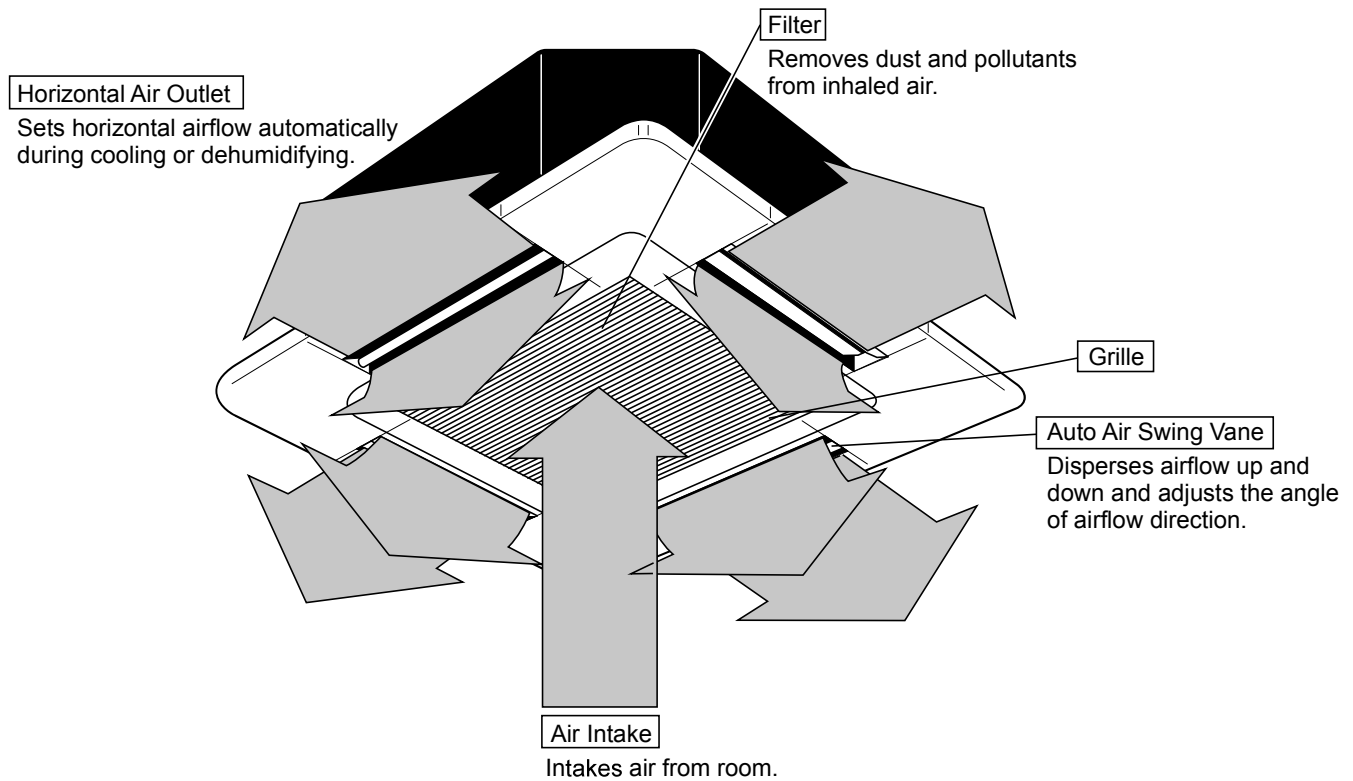
PART NAMES AND FUNCTIONS

Indoor Unit

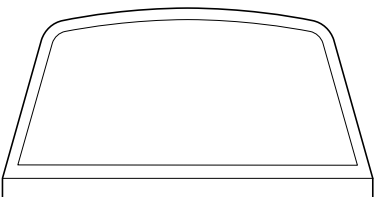
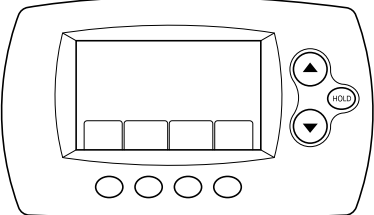
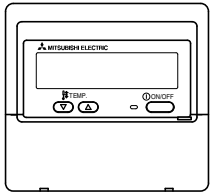
SLZ-KA09NA.TH

SLZ-KA12NA.TH

SLZ-KA15NA.TH



■ Remote controller (Optional parts)

| Radio frequency interface | RF thermostat | Wired remote controller |
|---|---|---|
|  |  |  |

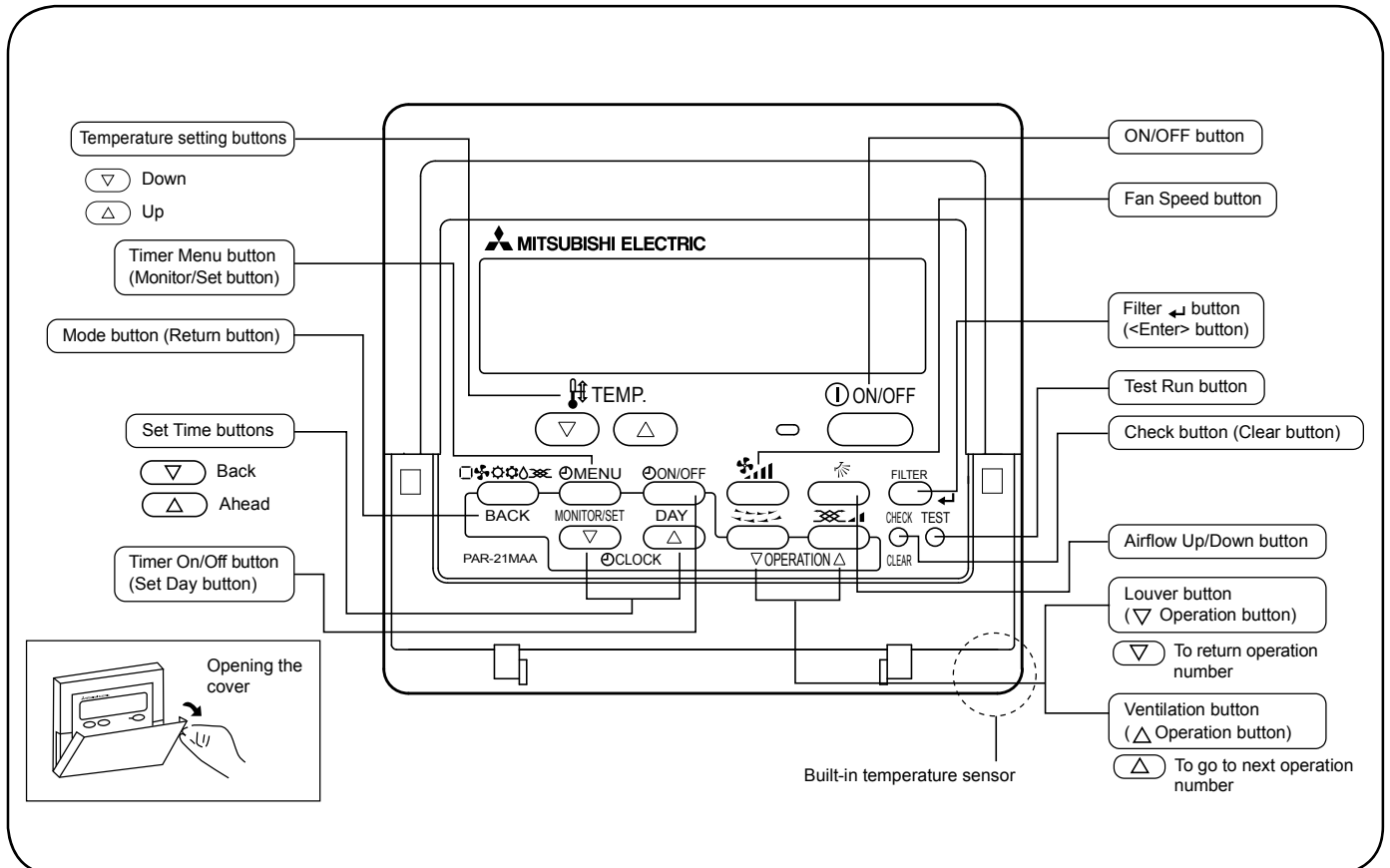
Wired remote controller (Option)

Once the controllers are set, the same operation mode can be repeated by simply pressing the ON/OFF button.

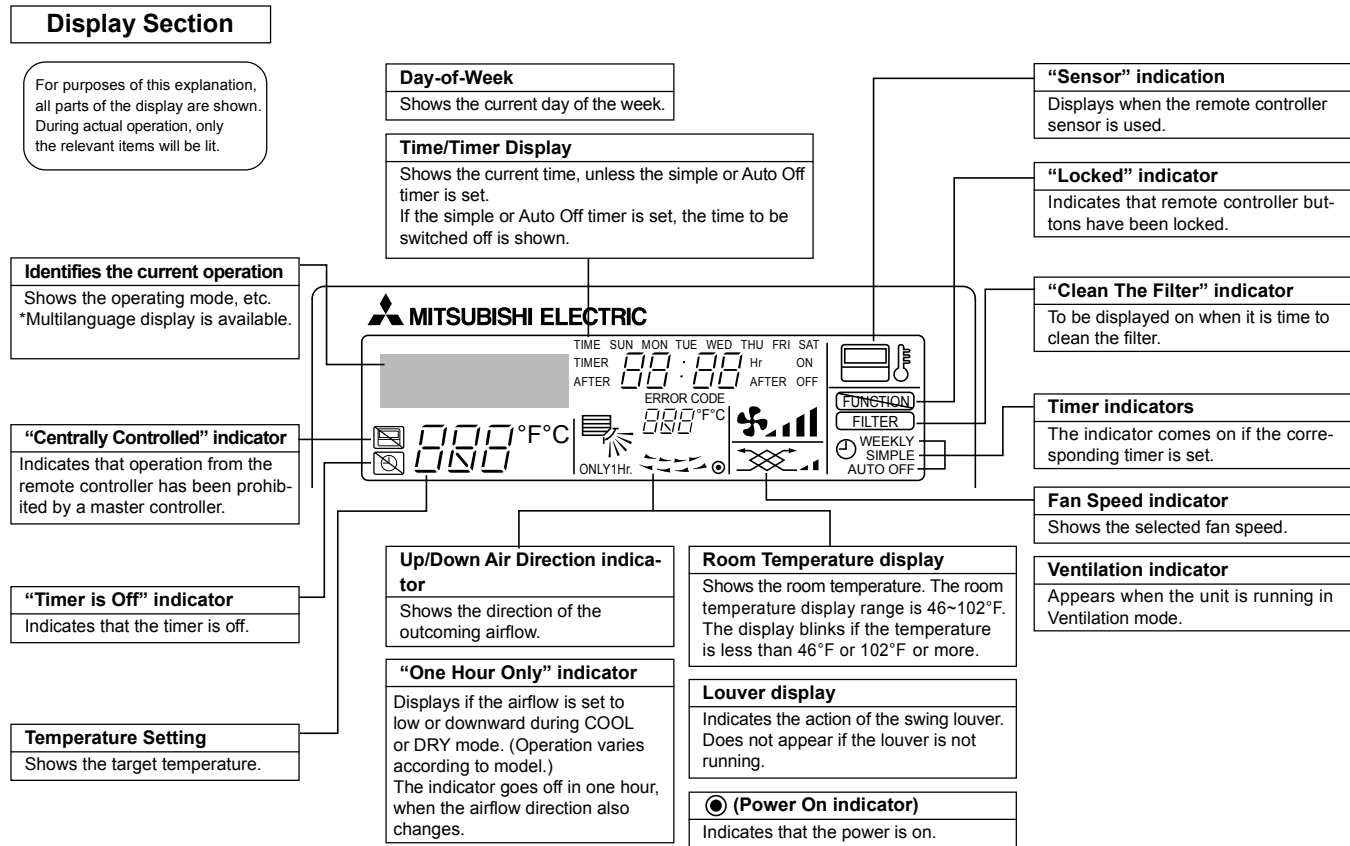
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Wired remote controller (Option)



Note:

- "PLEASE WAIT" message
This message is displayed for approximately 3 minutes when power is supplied to the indoor unit or when the unit is recovering from a power failure.
- "NOT AVAILABLE" message
This message is displayed if an invalid button is pressed (to operate a function that the indoor unit does not have). If a single remote controller is used to operate multiple indoor units simultaneously that are different types, this message will not be displayed as far as any of the indoor units is equipped with the function.

2

SPECIFICATIONS

| Indoor model | | | SLZ-KA09NA | SLZ-KA12NA | SLZ-KA15NA |
|---|-----|--------------|---|-------------|-------------|
| Power supply | | V, phase, Hz | 208/230, 1, 60 | | |
| Max. fuse size (time delay)/Disconnect switch | | A | 15 | | |
| Min. circuit ampacity | | A | 1.0 | | |
| Fan motor | | F.L.A | 0.23 | 0.28 | 0.28 |
| Airflow (Low - Med. - High) | Dry | CFM | 280-320-350 | 280-320-390 | 280-320-390 |
| | Wet | CFM | 250-290-320 | 250-290-350 | 250-290-350 |
| Moisture removal | | pt/h | 1.2 | 2.3 | 4.5 |
| Sound pressure level (Low - Med. - High) | | dB(A) | 29-32-38 | 30-34-39 | 31-35-40 |
| External finish color | | | Unit: Galvanized sheets with gray heat insulation Grille: ABS resin Munsell 6.4Y 8.9/0.4 | | |
| Dimensions unit <Grille> | W | in. | 22-7/16 <25-19/32> | | |
| | D | in. | 22-7/16 <25-19/32> | | |
| | H | in. | 8-3/16 <25/32> | | |
| Weight unit <Grille> | | lb. | 36 <7> | | |
| Field drainpipe O.D. | | in. | 1-1/4 | | |
| Control voltage (by buit-in transformer) | | | 12 - 24 VDC | | |

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

2-1. Operating range

(1) Power supply

| | Rated voltage | Guaranteed voltage (V) |
|-------------|-------------------------------|--|
| Indoor unit | 208/230 V 1 phase 60 Hz | <div> Min. 187 208 230 Max. 253 </div> |

(2) Operation

| Mode | Condition | Intake air temperature (°F) | | | |
|---------|----------------------|-----------------------------|----|---------|----|
| | | Indoor | | Outdoor | |
| | | DB | WB | DB | WB |
| Cooling | Standard temperature | 80 | 67 | 95 | — |
| | Maximum temperature | 95 | 71 | 115 | — |
| | Minimum temperature | 67 | 57 | 14 | — |
| | Maximum humidity | 78% | | — | |
| Heating | Standard temperature | 70 | 60 | 47 | 43 |
| | Maximum temperature | 80 | 67 | 75 | 65 |
| | Minimum temperature | 70 | 60 | -4 | -5 |

2-2. Outlet air speed and coverage

| Model | Function | Airflow (CFM) | Air speed (ft./s.) | Coverage (ft.) |
|------------|----------|---------------|--------------------|----------------|
| SLZ-KA09NA | Dry | 350 | 11.2 | 12.1 |
| | Wet | 320 | 10.2 | 11.1 |
| SLZ-KA12NA | Dry | 390 | 12.1 | 13.5 |
| | Wet | 350 | 10.9 | 12.1 |
| SLZ-KA15NA | Dry | 390 | 12.1 | 13.5 |
| | Wet | 350 | 10.9 | 12.1 |

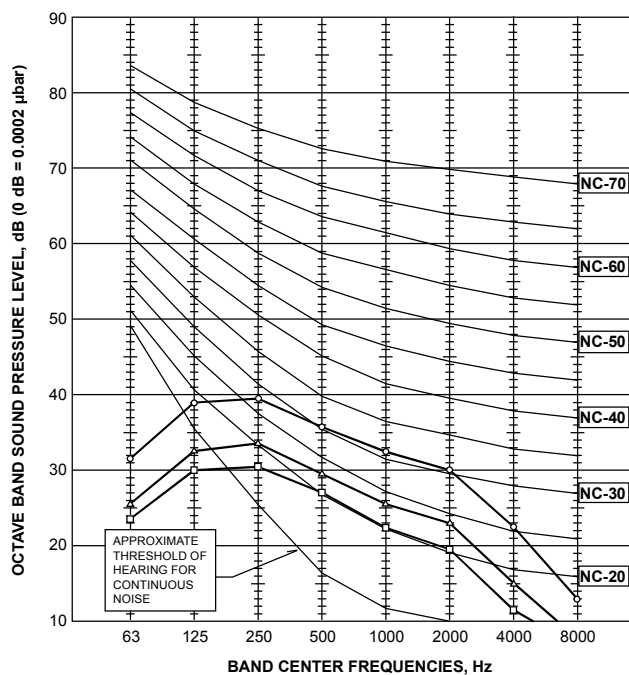
- The air coverage is the figure up to the position where the air speed is 1 ft./s., when air is blown out horizontally from the unit properly at the High speed position.
The coverage should be used only as a general guideline since it varies according to the size of the room and furniture arranged inside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

NOISE CRITERION CURVES

SLZ-KA09NA.TH

<60Hz>

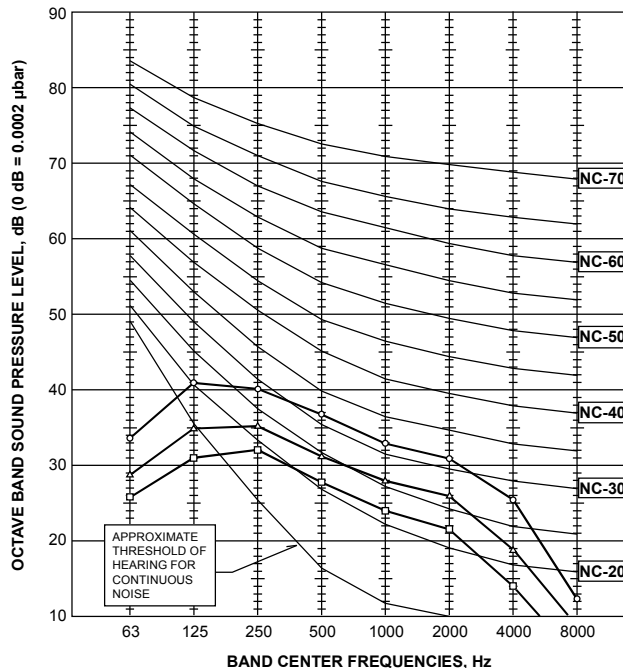
| NOTCH | SPL(dB) | LINE |
|--------|---------|------|
| High | 38 | ○—○ |
| Medium | 22 | △—△ |
| Low | 29 | □—□ |



SLZ-KA12NA.TH

<60Hz>

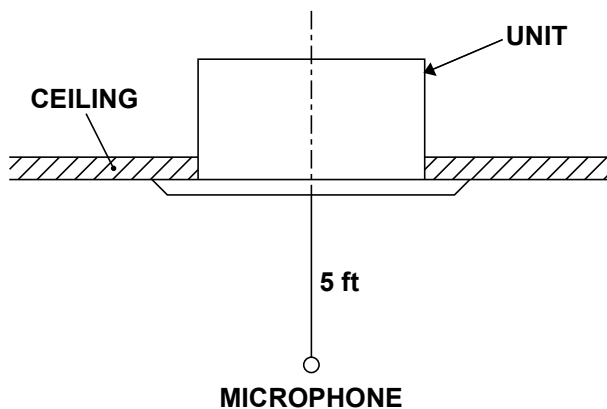
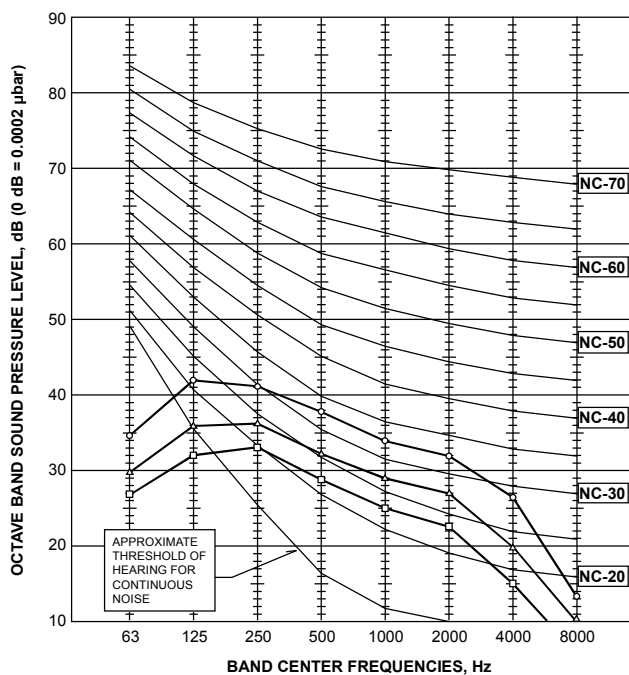
| NOTCH | SPL(dB) | LINE |
|--------|---------|------|
| High | 39 | ○—○ |
| Medium | 40 | △—△ |
| Low | 30 | □—□ |



SLZ-KA15NA.TH

<60Hz>

| NOTCH | SPL(dB) | LINE |
|--------|---------|------|
| High | 40 | ○—○ |
| Medium | 35 | △—△ |
| Low | 31 | □—□ |



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.

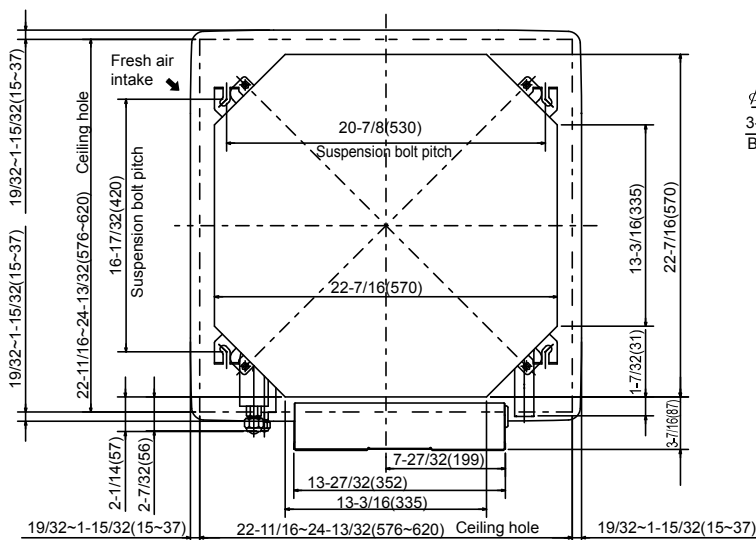
OUTLINES AND DIMENSIONS

SLZ-KA09NA.TH

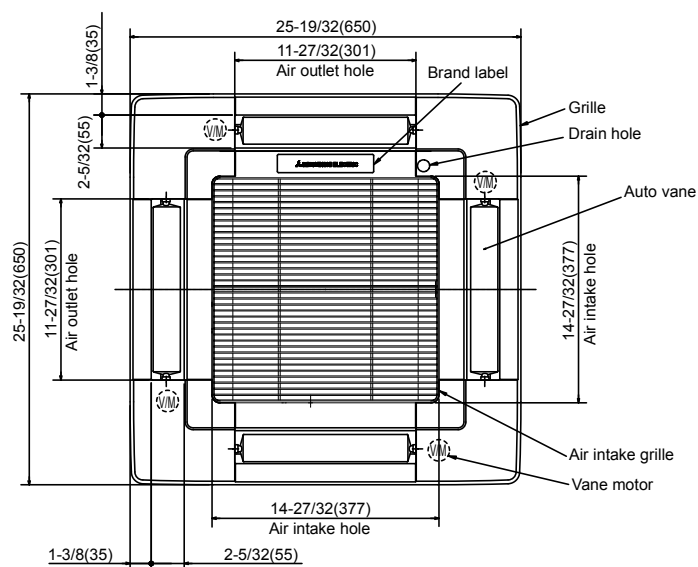
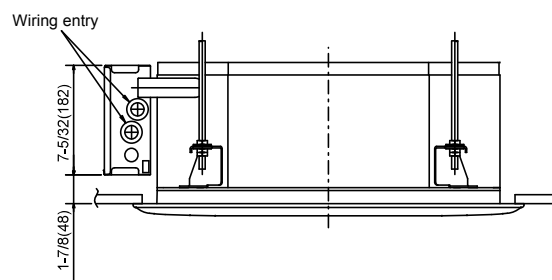
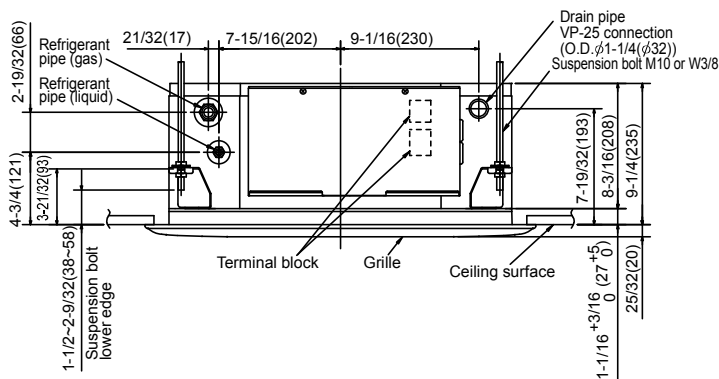
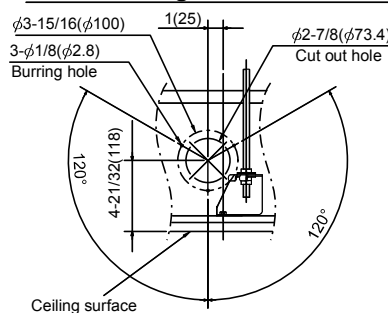
SLZ-KA12NA.TH

SLZ-KA15NA.TH

Unit : inch (mm)



Detail drawing of fresh air intake



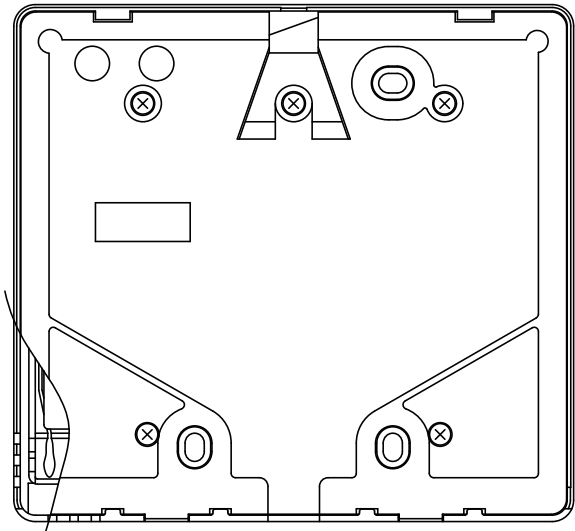
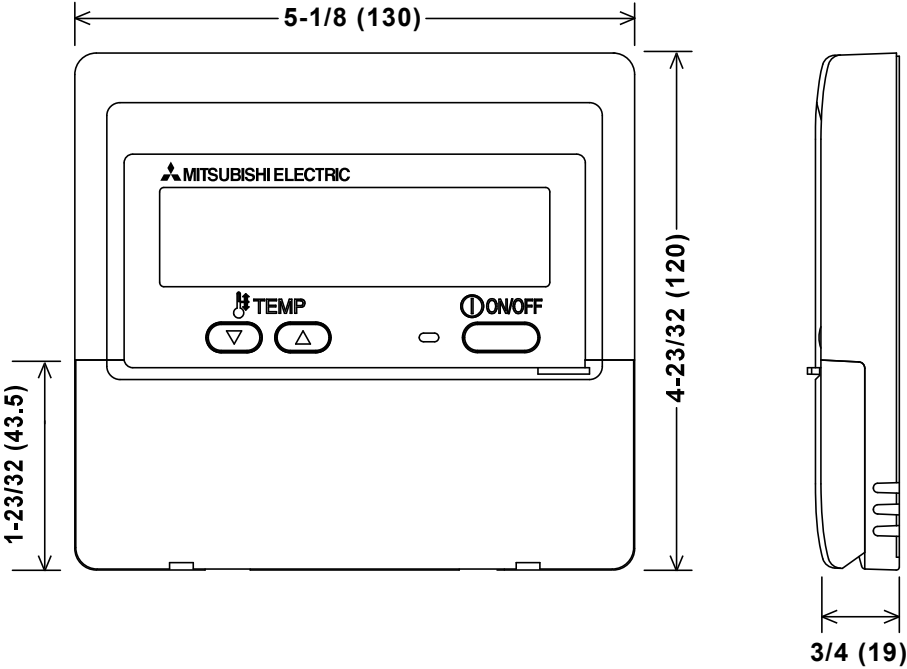
| Models | Refrigerent pipe (liquid) | Refrigerent pipe (gas) |
|------------|---|---|
| SLZ-KA09NA | 1/4 inch (ϕ 6.35mm) flared connection | 3/8 inch (ϕ 9.52mm) flared connection |
| SLZ-KA12NA | 1/4 inch (ϕ 6.35mm) flared connection | 3/8 inch (ϕ 9.52mm) flared connection |
| SLZ-KA15NA | 1/4 inch (ϕ 6.35mm) flared connection | 1/2 inch (ϕ 12.7mm) flared connection |



WIRED REMOTE CONTROLLER

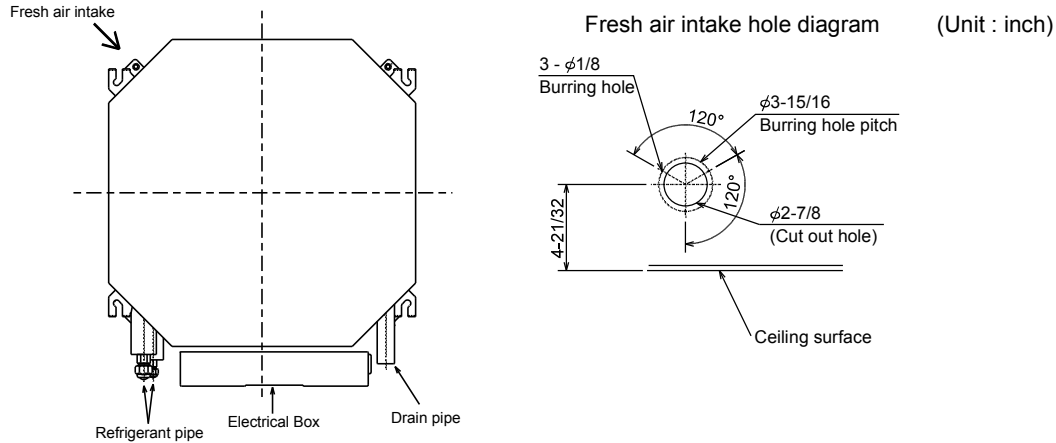
(Option)

Unit : inch (mm)



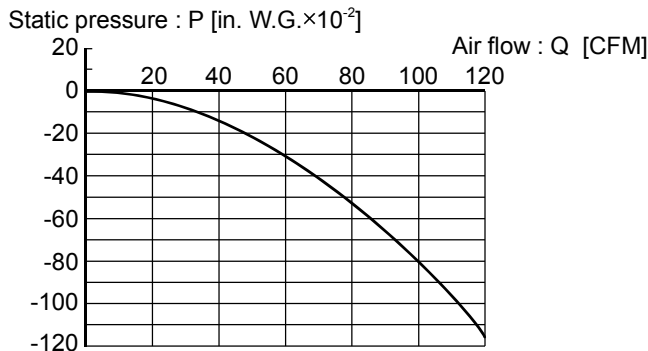
8-1. FRESH AIR INTAKE (LOCATION FOR INSTALLATION)

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



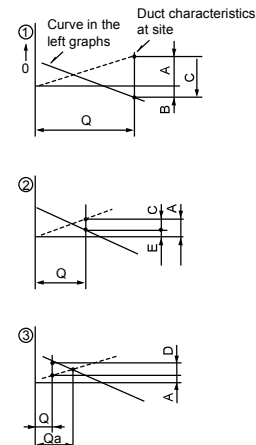
8-2. FRESH AIR INTAKE AMOUNT & STATIC PRESSURE CHARACTERISTICS SLZ-KA09NA.TH SLZ-KA12NA.TH SLZ-KA15NA.TH

Taking air into the unit



NOTE: Fresh air intake amount should be 20% or less of whole air amount to prevent dew dripping.

How to read curves



- Q...Designed amount of fresh air intake <CFM>
- A...Static pressure loss of fresh air intake duct system with air flow amount Q <in. W.G. $\times 10^{-2}$ >
- B...Forced static pressure at air conditioner inlet with air flow amount Q <in. W.G. $\times 10^{-2}$ >
- C...Static pressure of booster fan with air flow amount Q <in. W.G. $\times 10^{-2}$ >
- D...Static pressure loss increase amount of fresh air intake duct system for air flow amount Q <in. W.G. $\times 10^{-2}$ >
- E...Static pressure of indoor unit with air flow amount Q <in. W.G. $\times 10^{-2}$ >
- Qa...Estimated amount of fresh air intake without D <CFM>

8-3. OPERATION IN CONJUNCTION WITH DUCT FAN (BOOSTER FAN)

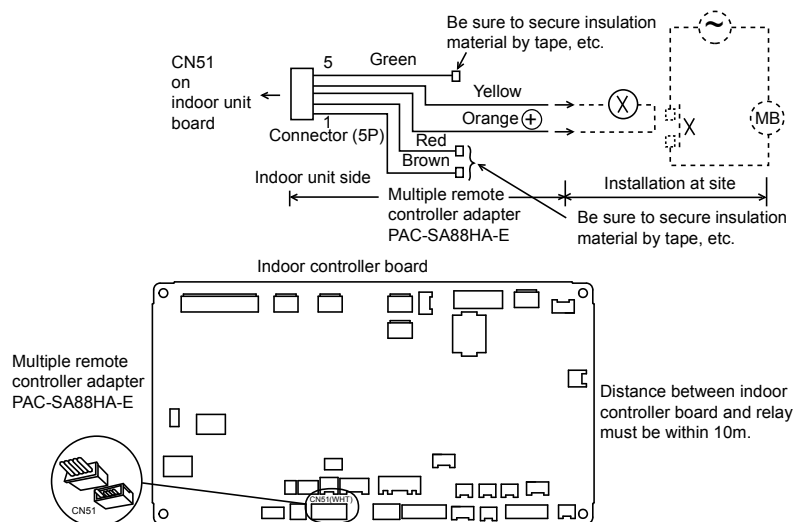
- Whenever the indoor unit operates, the duct fan operates.

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

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

Use a nonpolar relay of 1W or smaller.
MB: Electromagnetic switch power relay for duct fan.

X: Auxiliary relay (12V DC LY-1F)

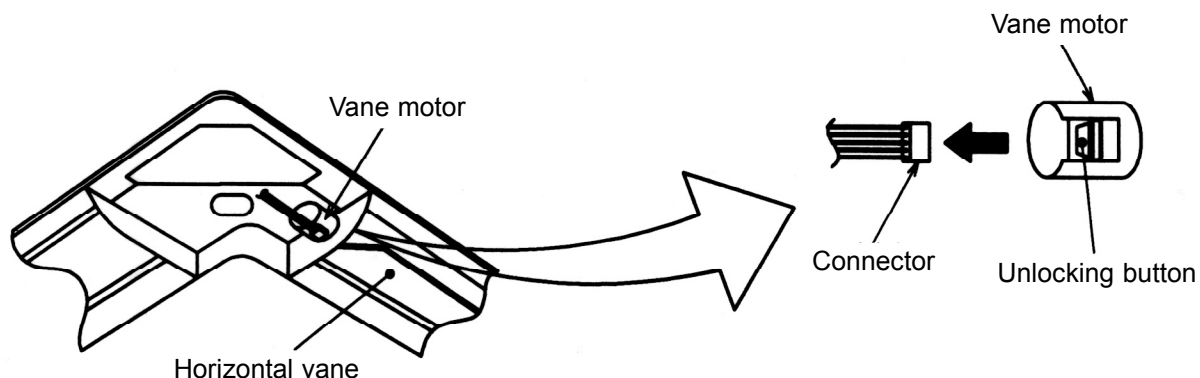


8-4. FIXING HORIZONTAL VANE

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

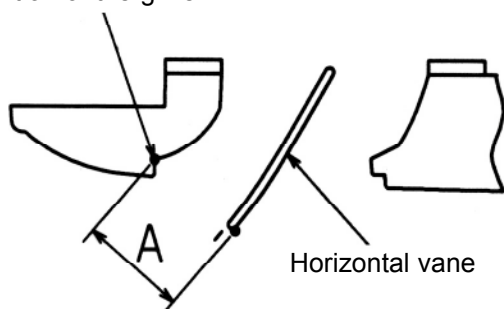
Setting procedure

- 1) Turn off a main power supply (Turn off a 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.

Measured standard position of the grille



< Specified range >

| Up/down airflow direction | Horizontal 30° | Downward 45° | Downward 55° | Downward 70° |
|---------------------------|---------------------|---------------------|----------------------|----------------------|
| A | 21 mm 13/16 inch | 25 mm 31/32 inch | 28 mm 1-3/32 inch | 30 mm 1-3/16 inch |

· The vanes can be set between 21mm, 13/16 inch and 30 mm, 1-3/16 inch.



Caution:

Do not set the up/down vanes passed the specified range. Condensation could form and drop from the ceiling, or the unit could malfunction.