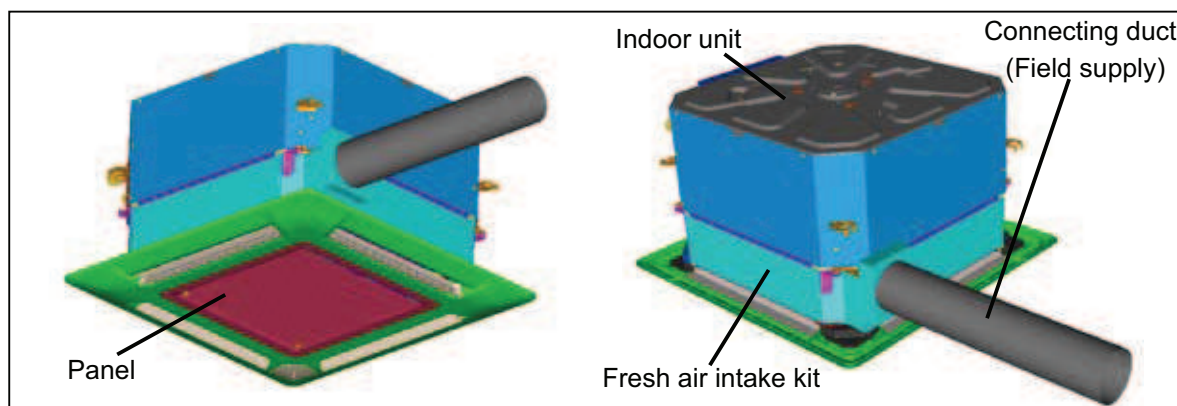


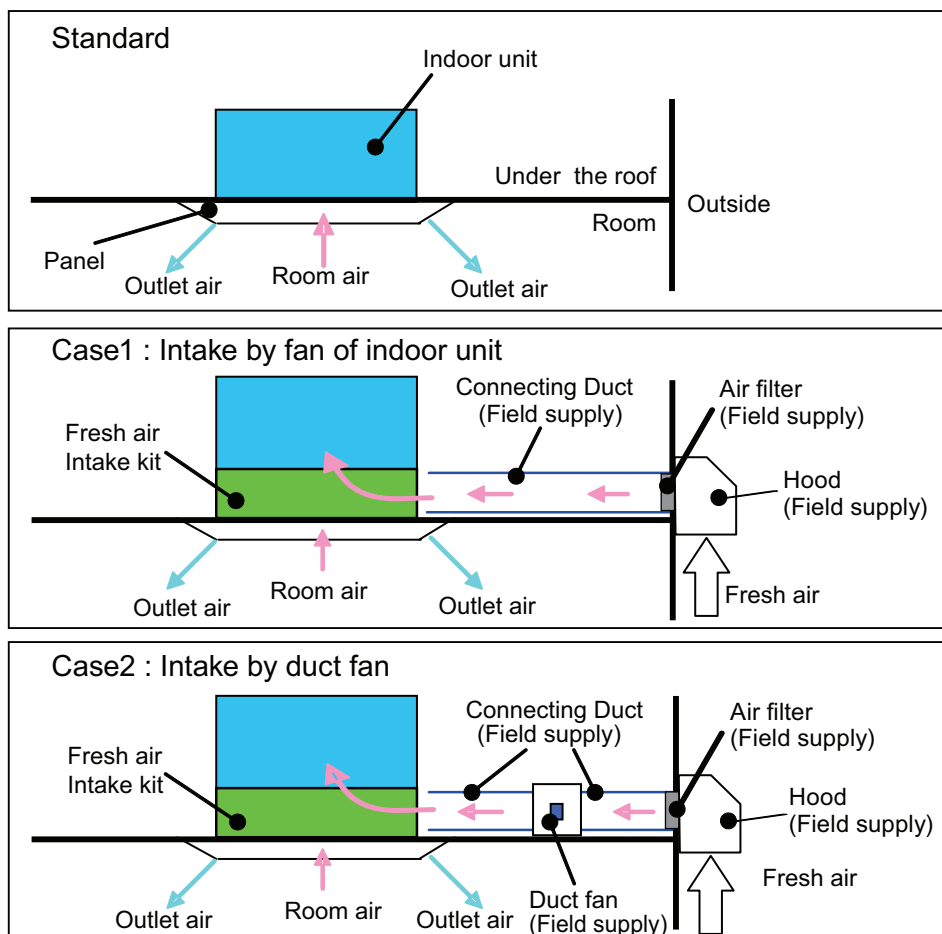
6-2. FRESH AIR INTAKE KIT (MODEL : UTZ-VXAA)

■ FEATURE

- It can be taken in fresh air of up to 10% of “high” air volume of the indoor unit by attaching Fresh Air Intake Kit to cassette type indoor unit.



■ INSTALLATION EXAMPLE



■ SPECIFICATIONS

| | | | |
|----------------------|------------------------------|-------------|---|
| Model name | | | UTZ-VXAA |
| Fresh air intake | Max. fresh air intake volume | %(for High) | 10 |
| Connection duct type | | mm (inch) | ø 100 (3-15/16) |
| | | Pcs | 1 |
| Dimension (HxWxD) | Net | mm (inch) | 120 x 570 x 570 (4-23/32 x 22-7/16 x 22-7/16) |
| | Gross | | 165 x 585 x 585 (6-1/2 x 23-1/32 x 23-1/32) |
| Weight | Net | kg (lb.) | 3.5 (8) |
| | Gross | | 5.5 (12) |

■ PRECAUTION

● About fresh air intake kit

- The Fresh Air Intake Kit can be installed onto cassette type air conditioners.
- The volume of ventilated air provided by the Fresh Air Intake Kit may be unable to fulfill ventilation regulations in all countries.
On such occasions we ask that this kit be used along with Energy recovery ventilators.
- When intaking outside air please ensure correct air-conditioning design as based on air-conditioning load calculations.
As outside air is not being processed an increase in outside air load can affect air conditioning.

● Installation location

- Area that generate substances that adversely affect the equipment, such as sulfuric gas, chlorine gas, acid, or alkali it will cause the copper pipes and brazed joints to corrode, which can cause refrigerant leakage.
- Area with high salt content, such as at the seaside. It will deteriorate metal parts, causing the parts to fall or the unit to leak water.
- Be certain to use electric dampers and shutters to avoid infiltration of cold air, wind and fog during shutdown in areas with cold climates, strong winds, or where fogs are common.
- Please ensure the product is installed a distance of at least three times the duct diameter away from exterior wall air inlets, or air exhausts for the prevention of short circuits.

● Temperature conditions

- Condensation may form on the product when outside air temperature is low, and the temperature and humidity surrounding the product are high. Don't intake the air of below 0°C into the Fresh air intake kit.
- The upper limit of the product's temperature range should respond to the outdoor temperature range.

● About duct fan

- When installing the duct fan, connect the drive relay (field supplied) and operate with the indoor unit.
- Please ensure the intake air volume is below 10% of the product's air volume HI. When the intaken air volume becomes too large there the operating noise may increase and room temperature detection may be affected.

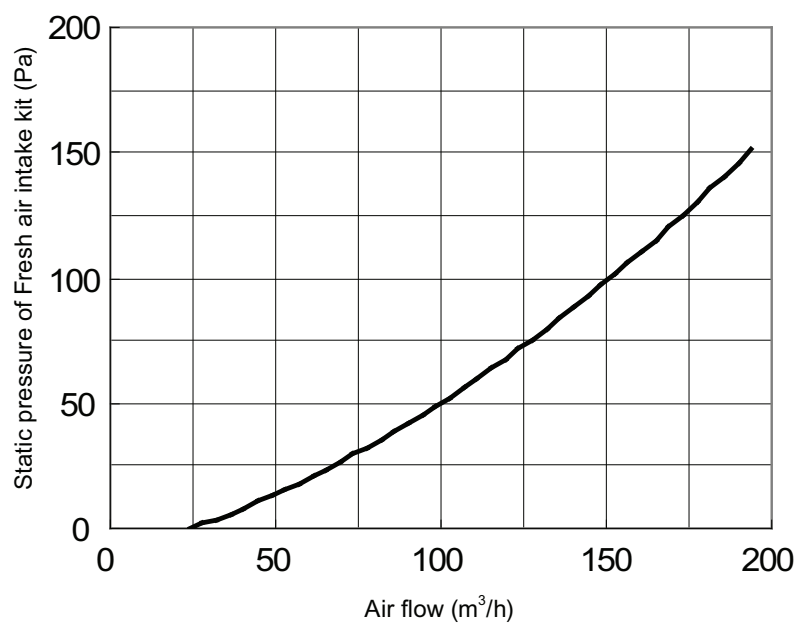
● About the duct connection

- Procure a duct with internal diameter that fits the external diameter of the duct flange.
- Please note that regulations of some countries may require the use of a nonflammable duct.
- If the duct penetrates a fire-retarding division or other fire-proofing measures, the installation of fire dampers, or a construction that does not adversely affect fire control measures is a regulatory requirement of some countries.
- When using metallic ducts please ensure metals (i.e., metal lath, wire lath, stainless sheeting) are electrically insulated. (A short occurring by electrical connection can cause fire)
- Please ensure to thermally insulate connected ducts to prevent condensation.
- Please make certain that netting or other measures are installed in parts exposed to the outside air to prevent infiltration of small animals such as birds and insects.
- Please be certain to install external air filters to parts exposed to the outside air for heat exchanger protection of indoor equipment.
- Please avoid the infiltration of rain water by installing outside ducts with an incline of at least 1/30, and fitting hoods on openings.

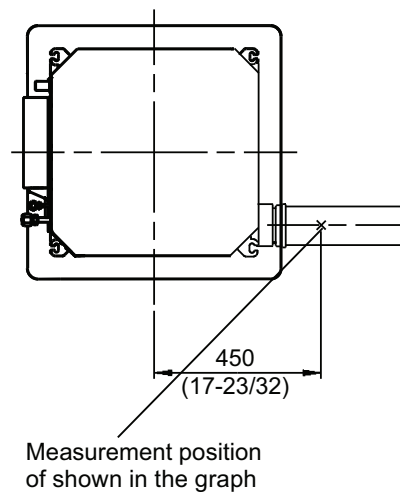
SYSTEM
DESIGNSYSTEM
DESIGN

- SYSTEM
-
- DESIGN

■ AIR FLOW



Unit : mm (inch)

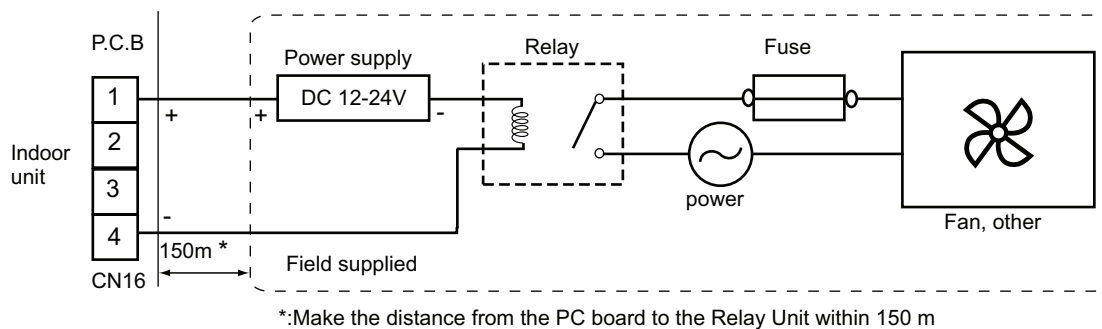


■ FRESH AIR CONTROL OUTPUT

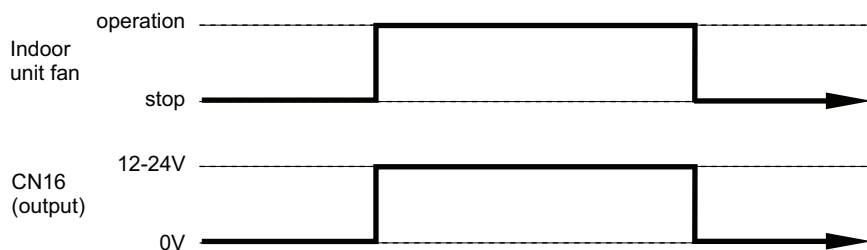
- You can control duct fan by synchronization with fan operation of indoor unit.
- Wire for fresh air control output is supplied with Fresh Air Intake Kit.
- Extended length of the wire : Max. 150m

● Connection diagram

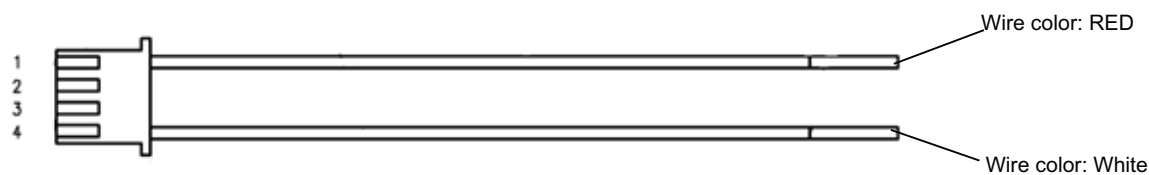
- For Relay Output voltage : DC12 - 24V
Permissible current : 30mA





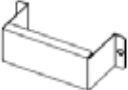


● Indoor unit status








● Wire (External output ②)



■ ACCESSORY PARTS

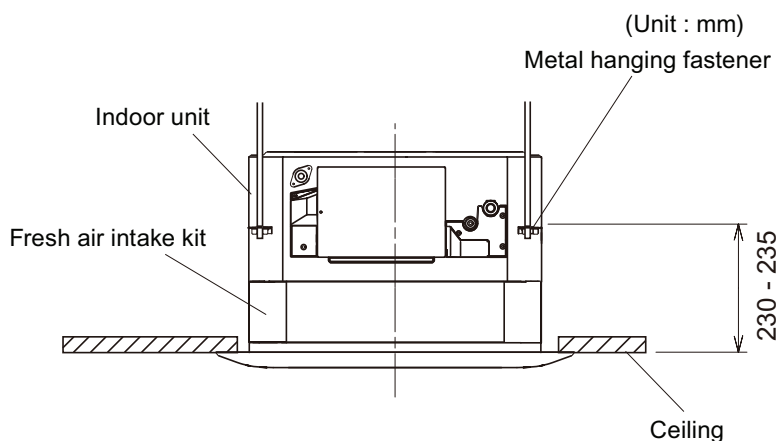
| Name and shape | Q'ty | Application |
|---|------|---|
| Installation manual  | 1 | |
| Chamber  | 1 | Air joint for connection duct |
| Wire cover  | 1 | Cover for extension wire |
| Screw  | 4 | Attaching for chamber Attaching for wire cover |
| Extension wire for louver  white red | 2 | Extension wire for louver |

| Name and shape | Q'ty | Application |
|---|------|---|
| Extension wire for receiver kit  | 1 | Extension wire for receiving kit |
| Wire (External output ①)  | 1 | For connect indoor unit to relay of duct fan (For single or multi) |
| Wire (External output ②)  | 1 | For connect indoor unit to relay of duct fan (For VRF) |
| Bolt  | 4 | For attaching kit to indoor unit |
| Binder  | 1 | For fixing wire |

■ INSTALLATION

● Mounting of indoor unit

- Please refer to the installation manual provided with the indoor unit for mounting.
- Please refer to the diagram below for installation height.
- When installing this product to existing indoor units, please adjust the installation height of the indoor units to height 230-235mm.

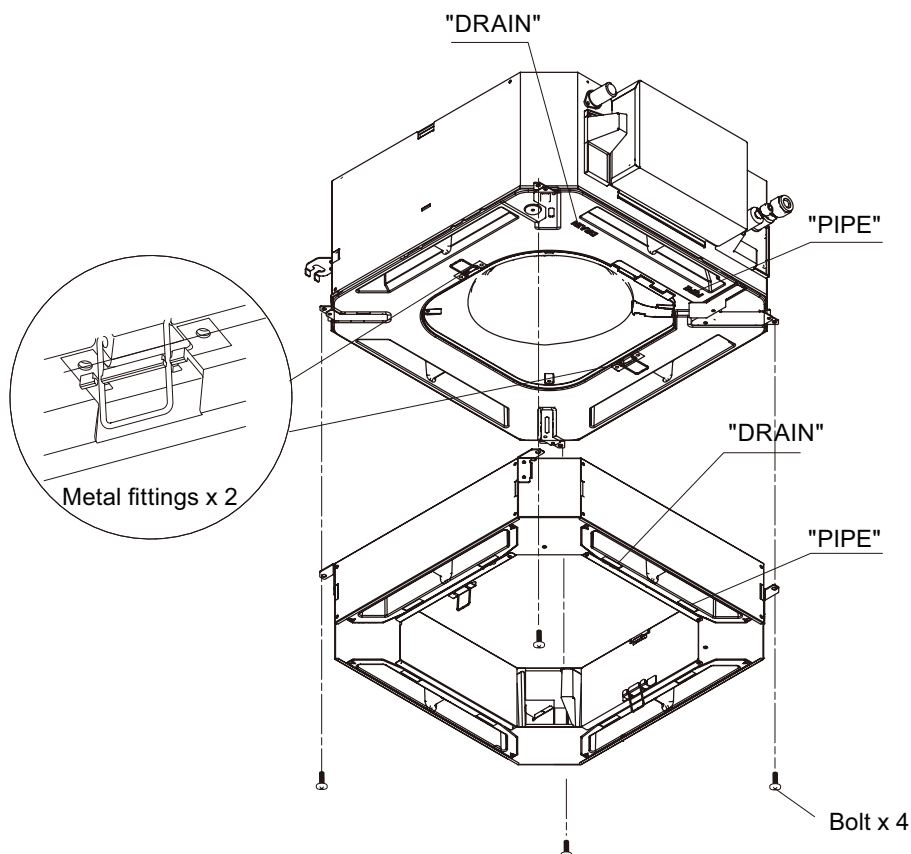


● Installation of the fresh air intake kit

⚠ CAUTION

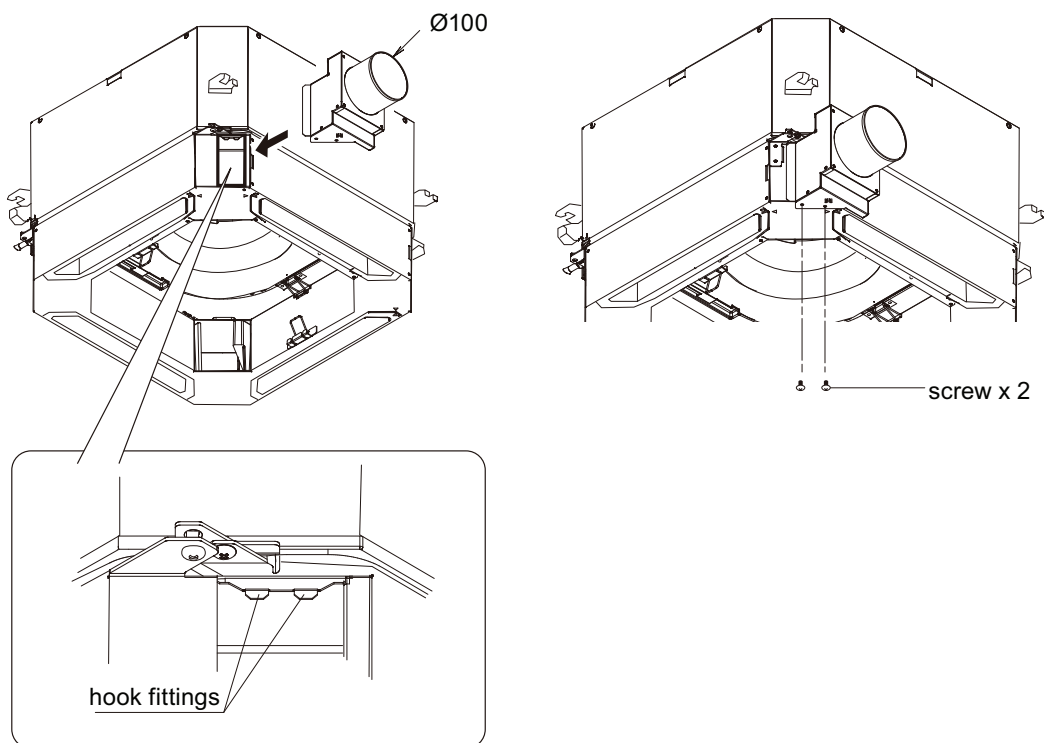
Installing the Fresh Air Intake Kit with the wrong direction is a cause of water leakage.

- Provisionally attach the "DRAIN", "PIPE" of the Fresh Air Intake Kit to the indoor unit foam-sealed "DRAIN", "PIPE", following the direction of the indoor unit, using the metal fittings of the combined diagram.

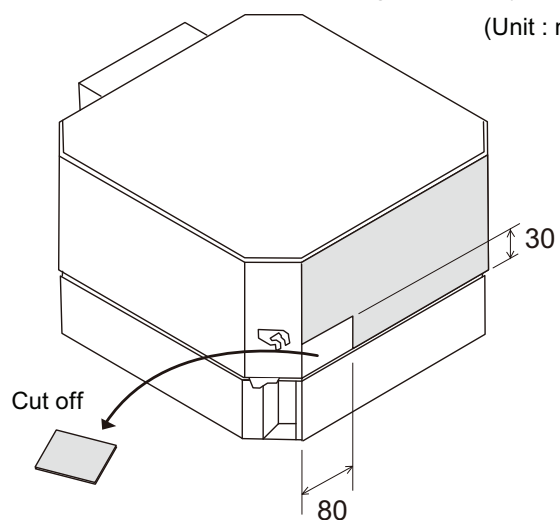


● Chamber installation

Fit the four-sided holes of the chamber together with the hook fittings of the Fresh Air Intake Kit (in two places), and secure the attached chamber in place with screws provided.



- When using the “UTZ-KXGC” kit for high humidity, please first cut off and remove the heat insulation as shown in the figure.
- Please install the kit for high humidity according to the installation instruction sheet provided.



● Duct installation

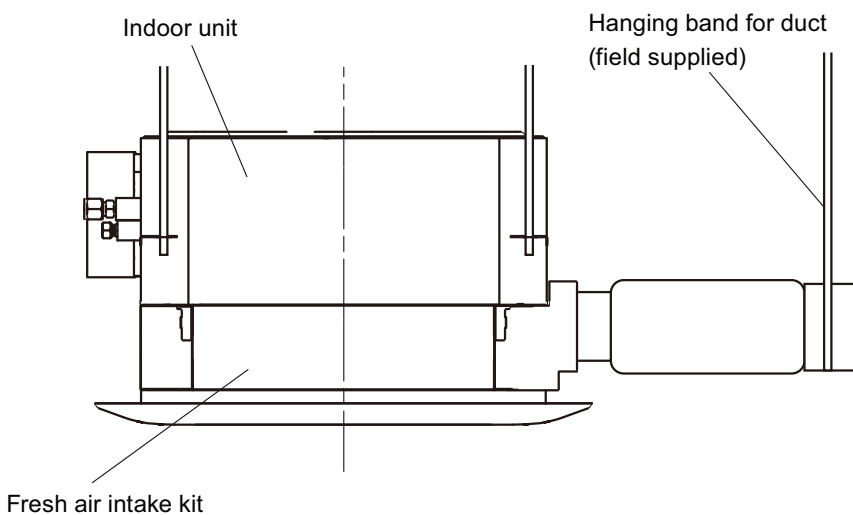
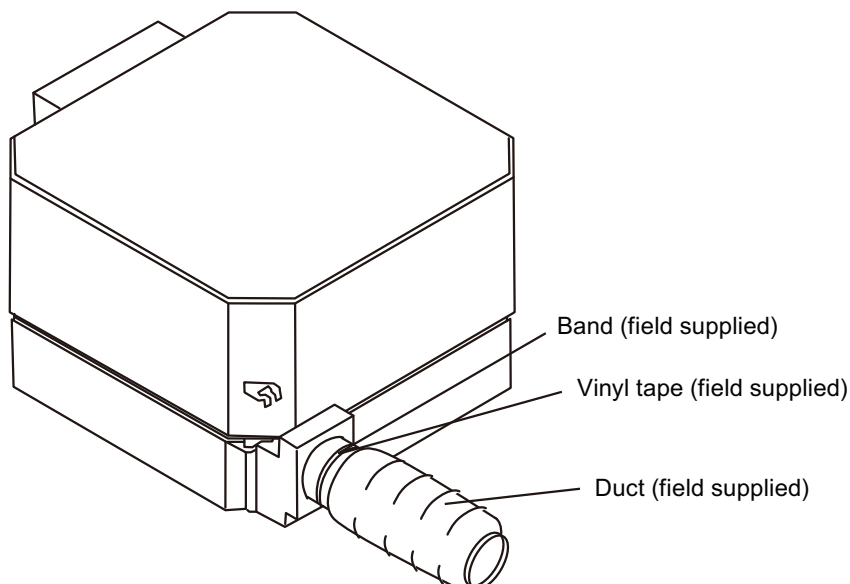
- Please fasten the connecting parts of the ducts with band, and wrap with vinyl tape to ensure no air leaks. (Carry out the work to ensure no air leakage at a pressure of 200 Pa)
- Please do not construct the duct in the manner of below.

○Extreme Bends

○Highly Repetitive Bends

○Making the Connecting Duct Diameters Smaller

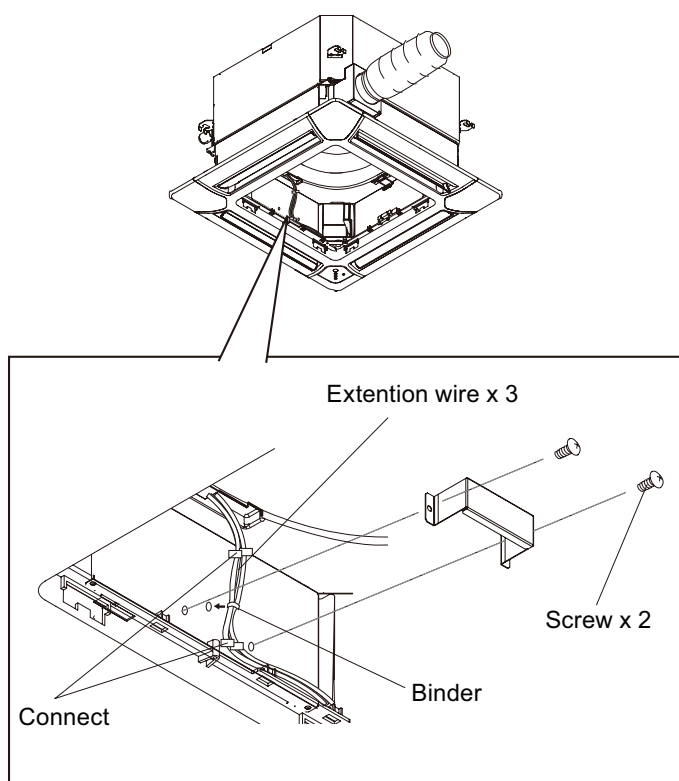
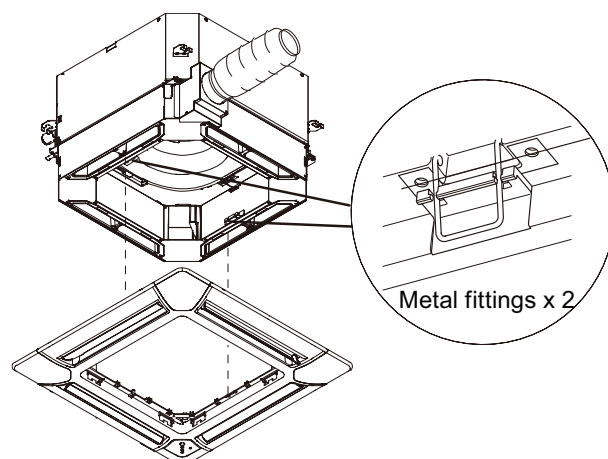
Completion figure



When wiring of the duct fan is required please refer to “■FRESH AIR CONTROL OUTPUT”.

● Installation of decoration panel

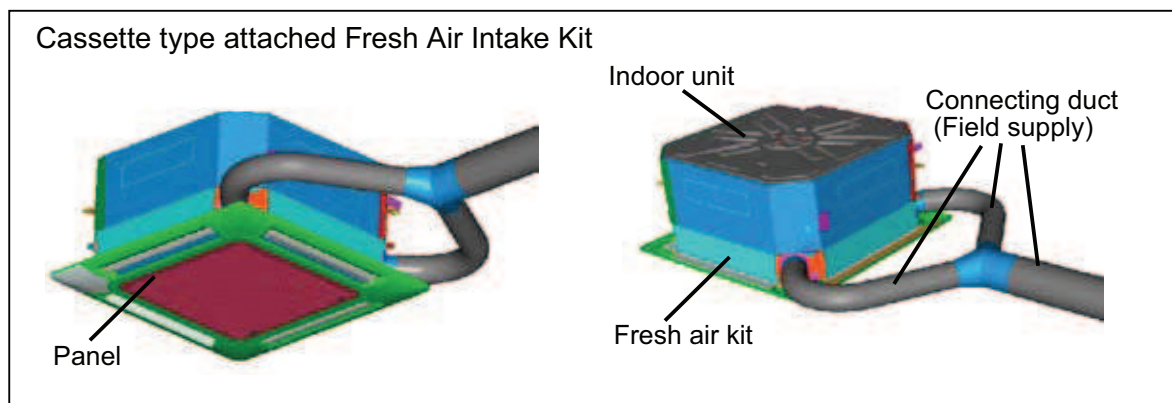
- 1) Please connect extension wires for use with louvers, or extension wire for optical receiver after provisional attaching of the decoration panel.
- 2) Tie the wires together with the fasteners provided and insert into the hole of the Fresh Air Intake Kit.
- 3) Install the wire-cover provided on the Fresh Air Intake Kit.
- 4) Please install decoration panel according to the installation instruction sheet provided.



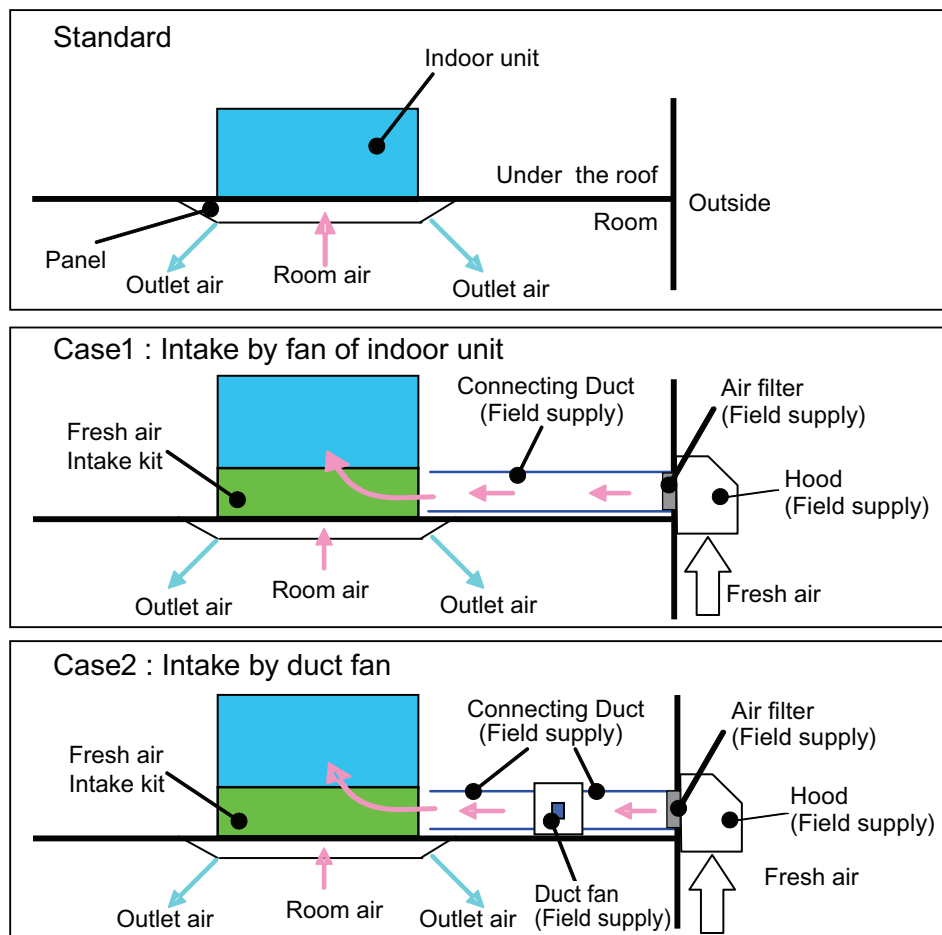
6-3. FRESH AIR INTAKE KIT (MODEL : UTZ-VXGA)

■ FEATURE

- It can be taken in fresh air of up to 10% of “high” air volume of the indoor unit by attaching Fresh Air Intake Kit to cassette type indoor unit.



■ INSTALLATION EXAMPLE



■ SPECIFICATIONS

| | | | | |
|----------------------|------------------------------|--------------|---|----|
| Model name | | | UTZ-VXGA | |
| Fresh air intake | Max. fresh air intake volume | % (for High) | 2- way intake | 10 |
| | | | 1- way intake | 5 |
| Connection duct type | | mm (inch) | ø 100 (3-15/16) | |
| | | Pcs | 2 | |
| Dimension (HxWxD) | Net | mm (inch) | 120 x 840 x 840 (4-23/32 x 33-1/16 x 33-1/16) | |
| | Gross | | 165 x 860 x 860 (6-1/2 x 33-27/32 x 33-27/32) | |
| Weight | Net | kg (lb.) | 5.5 (12) | |
| | Gross | | 9.0 (20) | |

■ PRECAUTION

● About fresh air intake kit

- The Fresh Air Intake Kit can be installed onto cassette type air conditioners.
- The volume of ventilated air provided by the Fresh Air Intake Kit may be unable to fulfill ventilation regulations in all countries.

On such occasions we ask that this kit be used along with Energy recovery ventilators.

- When intaking outside air please ensure correct air-conditioning design as based on air-conditioning load calculations.

As outside air is not being processed an increase in outside air load can affect air conditioning.

● Installation location

- Area that generate substances that adversely affect the equipment, such as sulfuric gas, chlorine gas, acid, or alkali it will cause the copper pipes and brazed joints to corrode, which can cause refrigerant leakage.
- Area with high salt content, such as at the seaside. It will deteriorate metal parts, causing the parts to fall or the unit to leak water.
- Be certain to use electric dampers and shutters to avoid infiltration of cold air, wind and fog during shutdown in areas with cold climates, strong winds, or where fogs are common.
- Please ensure the product is installed a distance of at least three times the duct diameter away from exterior wall air inlets, or air exhausts for the prevention of short circuits.

● Temperature conditions

- Condensation may form on the product when outside air temperature is low, and the temperature and humidity surrounding the product are high. Don't intake the air of below 0°C into the fresh air intake kit.
- The upper limit of the product's temperature range should respond to the outdoor temperature range.

● About duct fan

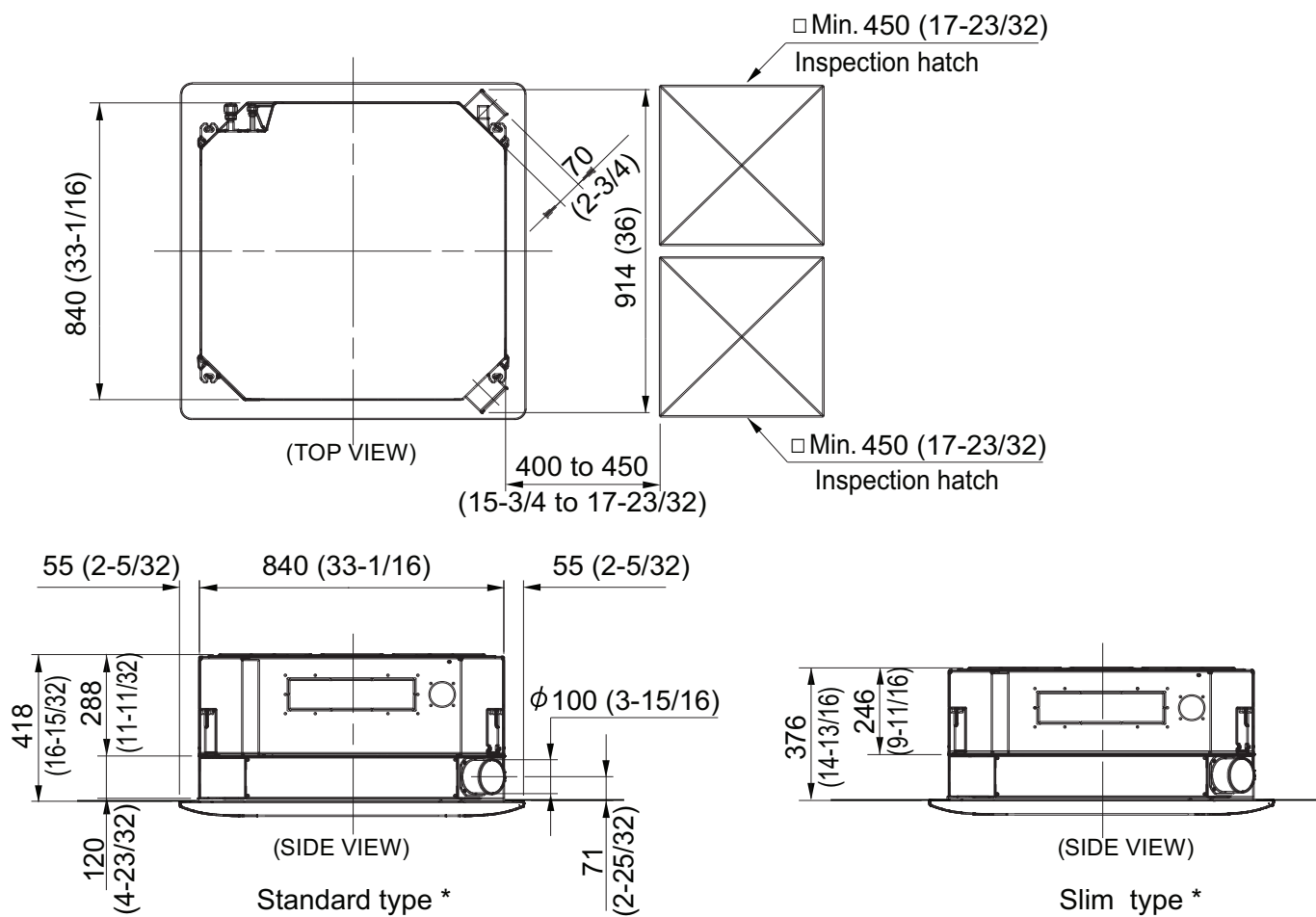
- When installing the duct fan, connect the drive relay (field supplied) and operate with the indoor unit.
- Please ensure the intake air volume is below 10% of the product's air volume HI. When the intaken air volume becomes too large there the operating noise may increase and room temperature detection may be affected.

● About the duct connection

- Procure a duct with internal diameter that fits the external diameter of the duct flange.
- Please note that regulations of some countries may require the use of a nonflammable duct.
- If the duct penetrates a fire-retarding division or other fire-proofing measures, the installation of fire dampers, or a construction that does not adversely affect fire control measures is a regulatory requirement of some countries.
- When using metallic ducts please ensure metals (i.e., metal lath, wire lath, stainless sheeting) are electrically insulated. (A short occurring by electrical connection can cause fire)
- Please ensure to thermally insulate connected ducts to prevent condensation.
- Please make certain that netting or other measures are installed in parts exposed to the outside air to prevent infiltration of small animals such as birds and insects.
- Please be certain to install external air filters to parts exposed to the outside air for heat exchanger protection of indoor equipment.
- Please avoid the infiltration of rain water by installing outside ducts with an incline of at least 1/30, and fitting hoods on openings.

■ DIMENSIONS

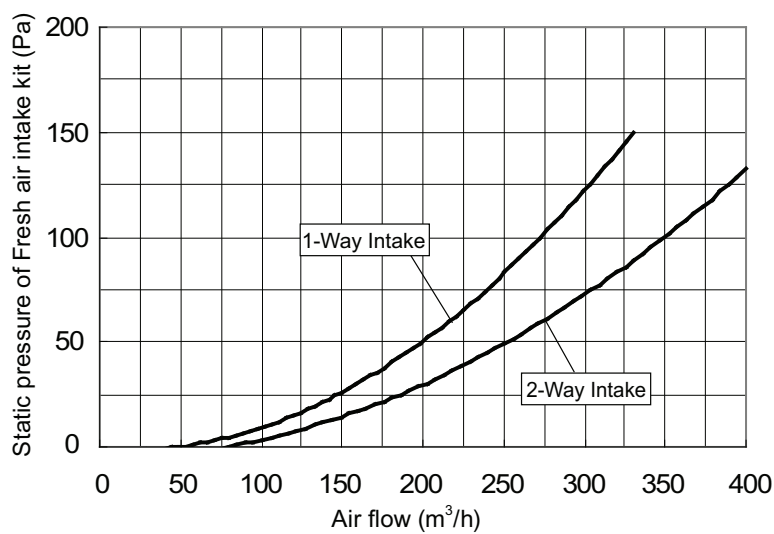
Unit : mm (inch)



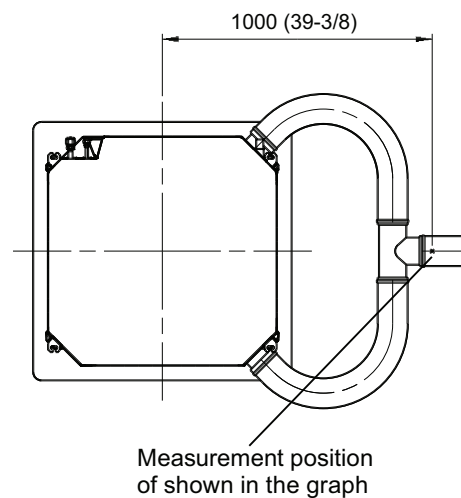
* : The size is different according to indoor unit used.

- When installing this kit, inspection hatch is necessary. (It is necessary when servicing.) Either one of inspection hatches must be installed.

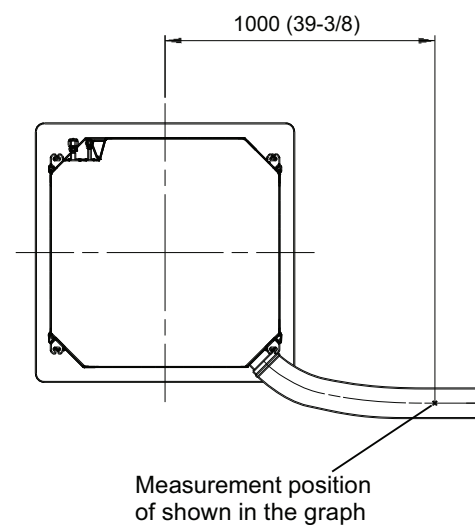
■ AIR FLOW



for 2-Way Intake Unit:mm (inch)



for 1-Way Intake

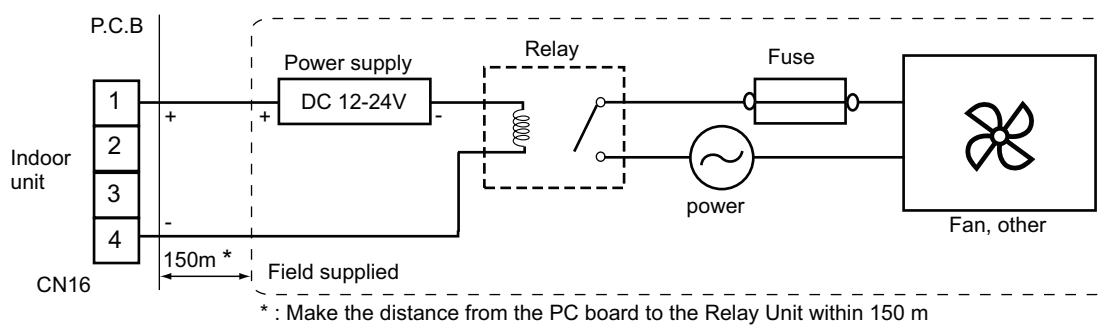


■ FRESH AIR CONTROL OUTPUT

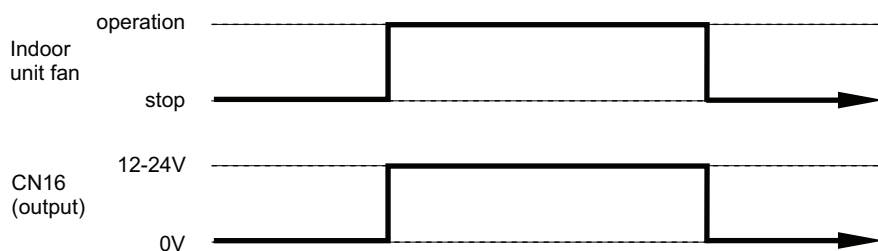
- You can control duct fan by synchronization with fan operation of indoor unit.
- Wire for fresh air control output is supplied with Fresh Air Intake Kit.
- Extended length of the wire : Max. 150m

● Connection diagram

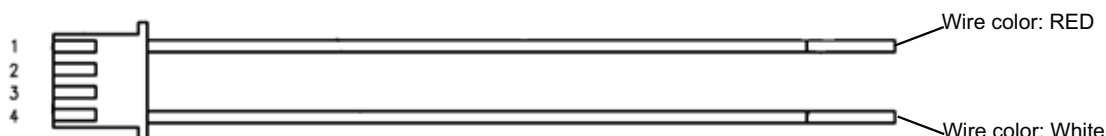
- For Relay Output voltage : DC12 - 24V
Permissible current : 30mA











● Indoor unit status

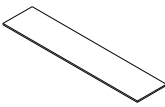









● Wire (External output ②)



■ ACCESSORY PARTS

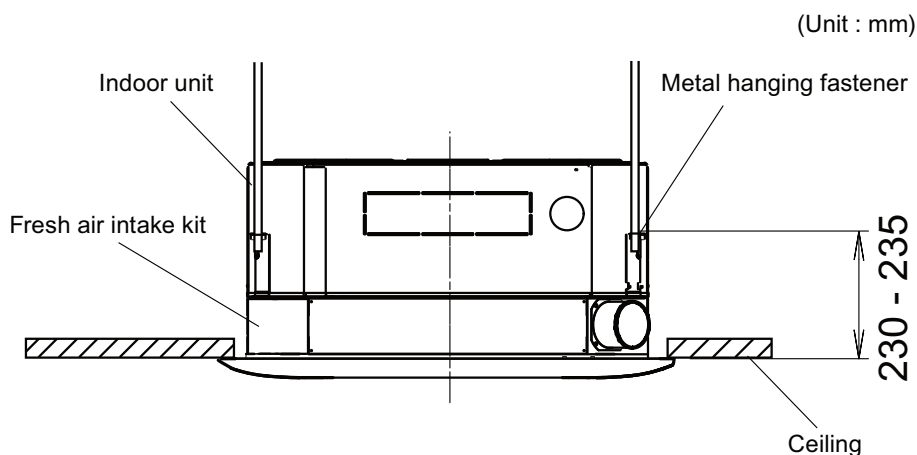
| Name and shape | Q'ty | Application |
|--|------|--|
| Installation manual  | 1 | |
| Duct Flange  | 2 | Air joint for connecting duct |
| Cover  | 2 | Protective cover to prevent surface condensation |
| Screw  | 16 | For Attaching duct flange For Attaching Cover |
| Hook plate  | 4 | Plate for attaching panel |
| Shutter plate  | 1 | Shutter plate for 1-way intake |
| Insulation ①  | 2 | Affixing the insulation outside of the kit |
| Insulation ②  | 1 | Affixing the insulation to tube of drain pump for prevent condensation |

| Name and shape | Q'ty | Application |
|--|------|--|
| Insulation ③  | 3 | Affixing the insulation outside of the kit |
| Insulation ④  | 4 | Affixing the insulation outside of the cover |
| Binder  | 1 | Fixing tube of drain pump |
| Extension wire for louver  | 2 | Extension wire for louver |
| Extension wire for receiver kit  | 1 | Extension wire for receiver kit |
| Wire (External output ①)  | 1 | For connect indoor unit to relay of duct fan |
| Wire (External output ②)  | 1 | For connect indoor unit to relay of duct fan |
| Bolt  | 4 | For attaching the kit to indoor unit |

■ INSTALLATION

● Mounting of indoor unit

- Please refer to the installation manual provided with the indoor unit for mounting.
- Please refer to the diagram below for installation height.
- When installing this product to existing indoor units, please adjust the installation height of the indoor units to height 230-235mm.

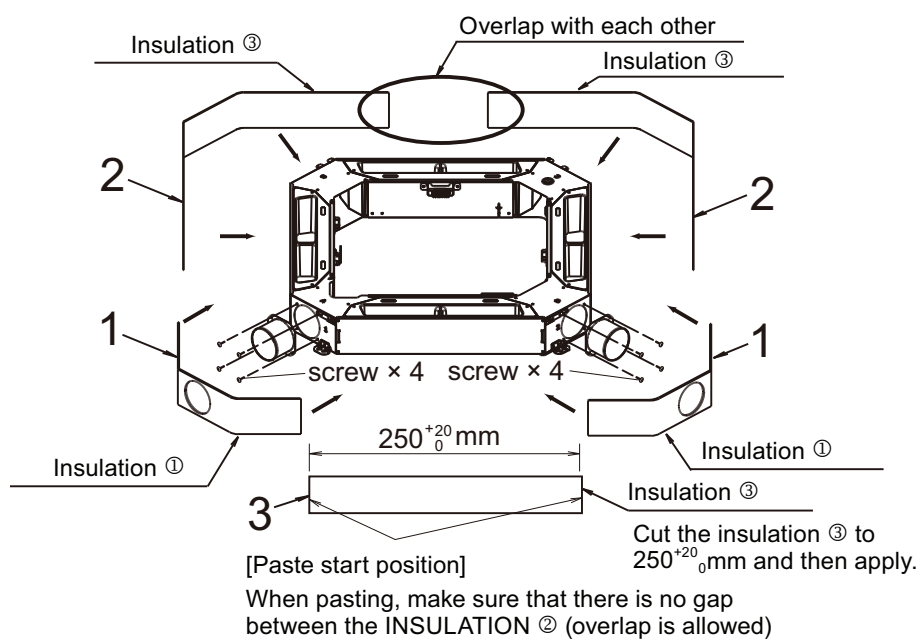


● Pre-installation preparations

- Please attach the duct flange provided with screws.
- The Fresh Air Intake Kit can be used with an external air intake on just one side. Use included sealed plate to apply for different eye holes.
- Please apply Insulation ① to the installed duct flange parts (Do not apply to sealed areas).

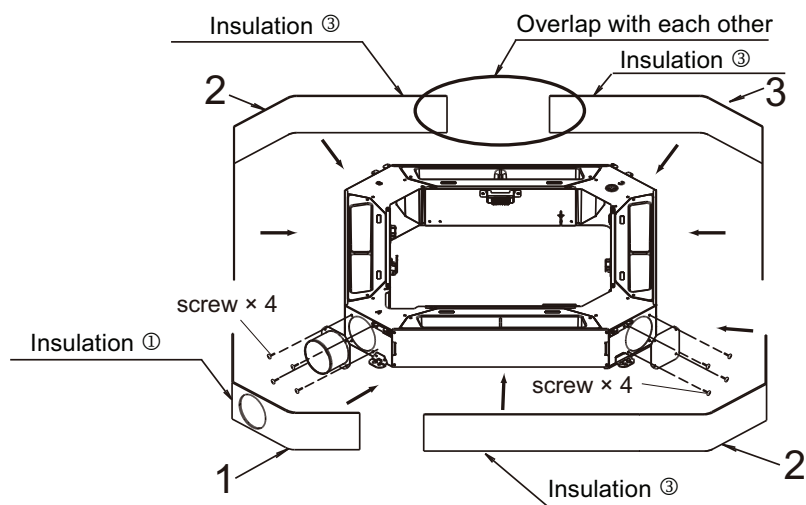
[When taking in the air in two sides]

Please paste the insulation in the order shown in the figure below.



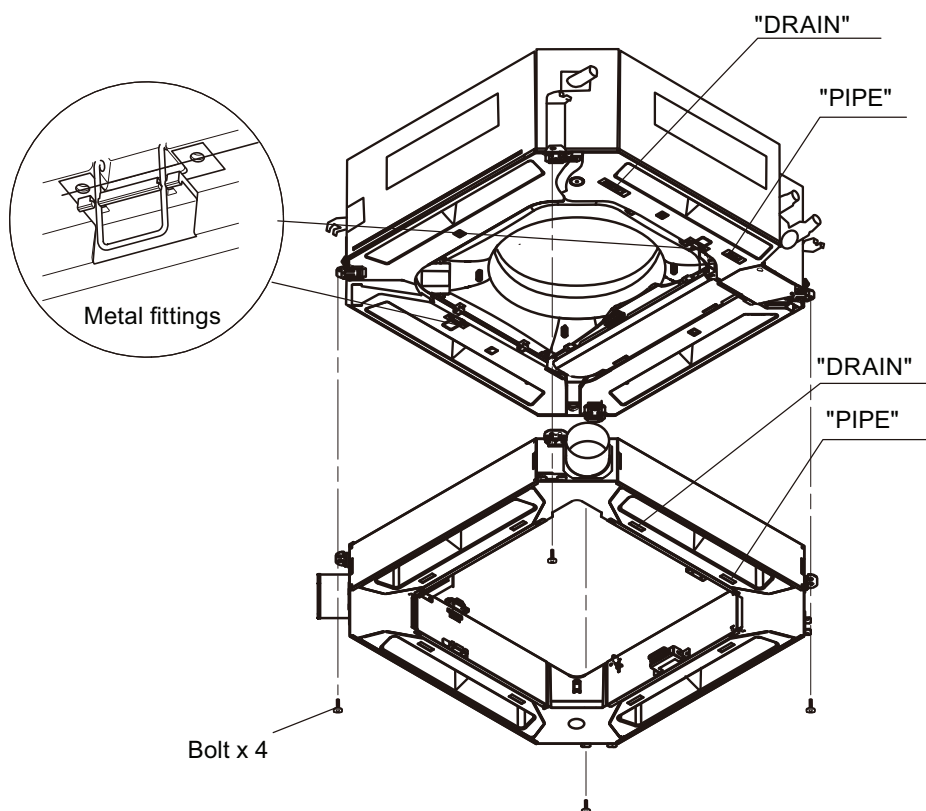
[When taking in the air in one side]

Please paste the insulation in the order shown in the figure below.



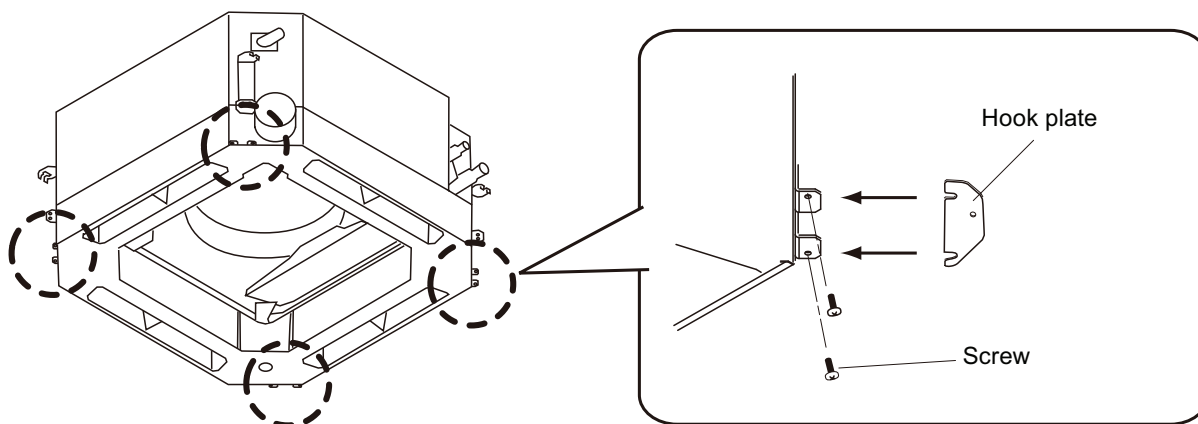
● Attaching the Fresh Air Intake Kit

Attach the Fresh Air Intake Kit to the main body using the bolts provided.



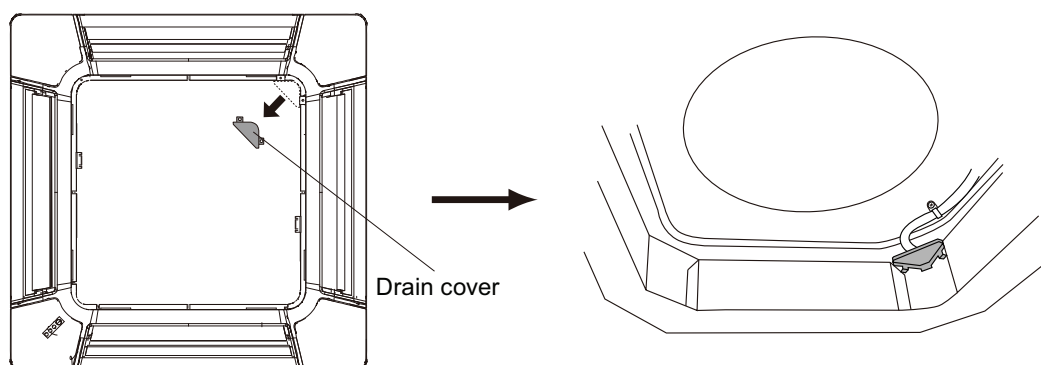
● Attaching the Hook Plate

Attach the Hook Plate by each corner of the Fresh Air Intake Kit.
(The attaching screws are attached to the body of the Fresh Air Intake Kit and must be loosened before installing)

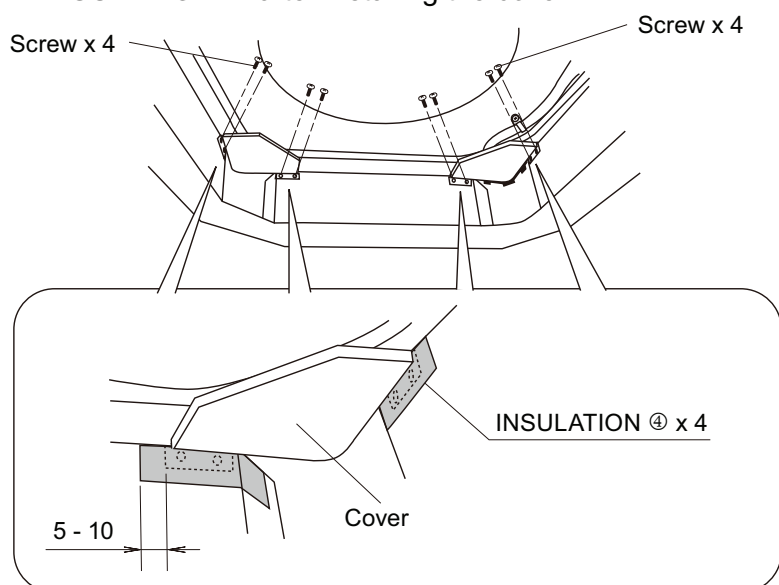


● Cover installation

- 1) Remove the drain cover attached to the decorative panel and install onto the Fresh Air Intake Kit.



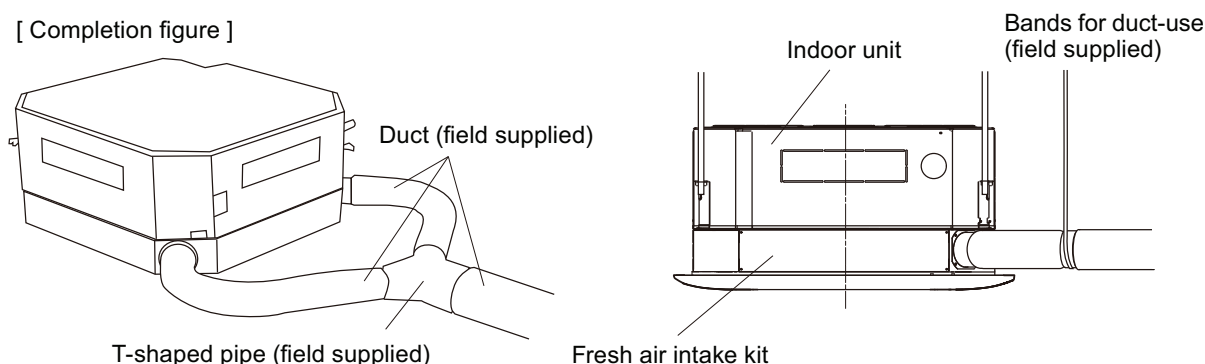
- 2) Set the cover in position with screws(2 places) as shown in the diagram. Apply the INSULATION ④ after installing the cover.



● Duct installation

- 1) Please fasten the connecting parts of the ducts with bands, and wrap with vinyl tape to ensure no air leaks.
(Carry out the work to ensure no air leakage at a pressure of 200 Pa)
- Please do not construct the duct in the manner of below.
 - Extreme Bends
 - Highly Repetitive Bends
 - Making the Connecting Duct Diameters Smaller
- 2) When using T-shaped pipe, suspend the kit with suspension bands for duct-use to avoid unnecessary load bearing.

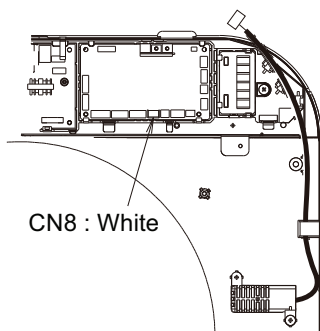
[Completion figure]



When wiring of the duct fan is required please refer to “■FRESH AIR CONTROL OUTPUT”.

● Pre-installation (Decoration panel) preparations

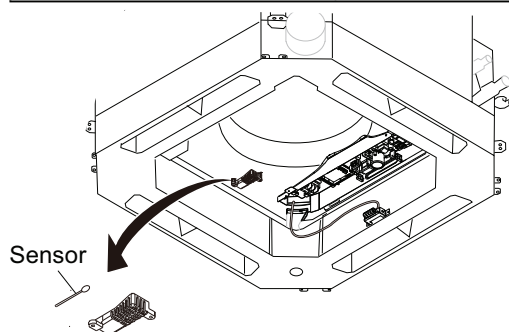
- 1) Please remove the control box cover.
- 2) Remove the connector from the existing temperature sensor, found on the circuit board of the indoor unit.



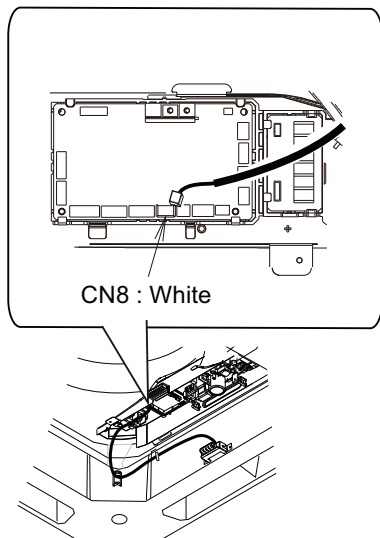
- 3) The existing temperature sensor will not be used so remove it from the sensor holder, and once more install the empty sensor holder (without sensor) in the control box.

⚠ CAUTION

Please make sure to install the sensor holder inside the control box, as it is a fire hazard. Otherwise, it may cause fire.



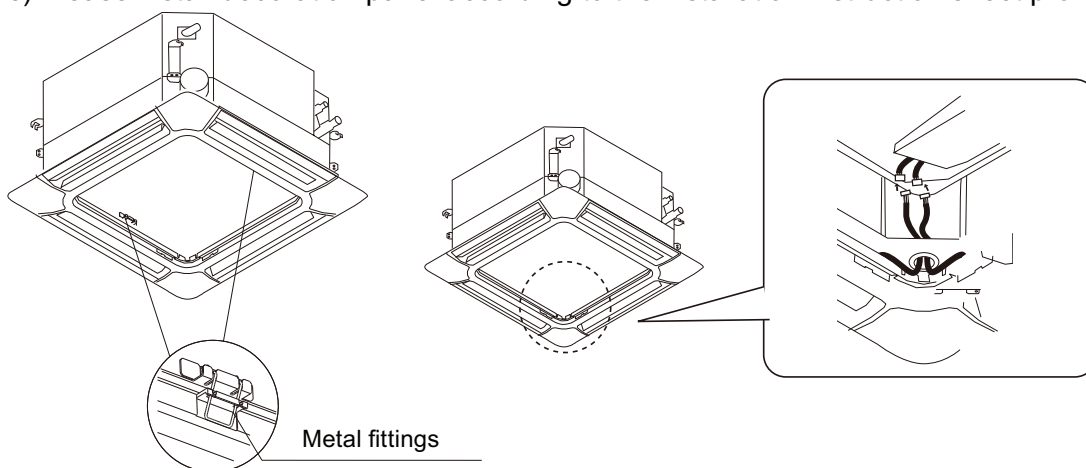
- 4) Insert the connector of the sensor attached to the Fresh Air Intake Kit onto the substrate board of the indoor unit.



- 5) Insert the included extension cable for use with louver to the connector.
6) When using the optical receiver unit (option) please insert the included extension wire to the indoor unit.
7) Close the control box cover when work is complete.

● Installation of decoration panel

- 1) After provisional fixing of a decoration panel, feed the louver extension wire (and optical receiver extension wire) through the penetrating hole.
2) Connect to the connector wires coming out of the decoration panel.
3) Please install decoration panel according to the installation instruction sheet provided.



| Type | Model name | Fresh air intake kit | | IR receiver unit | | Auto louver grille kit | | |
|--|------------|----------------------|----------|------------------|---------|------------------------|----------|----------|
| | | UTZ-VXAA | UTZ-VXGA | UTY-LRH*B1 | UTB-*WC | UTD-G*SA | UTD-G*SB | UTD-G*SC |
| Compact Cassette | AUXB07GALH | ○ | | | | | | |
| | AUXB09GALH | ○ | | | | | | |
| | AUXB12GALH | ○ | | | | | | |
| | AUXB14GALH | ○ | | | | | | |
| | AUXB18GALH | ○ | | | | | | |
| | AUXB24GALH | ○ | | | | | | |
| Cassette | AUXD18GALH | | ○ | ○ | | | | |
| | AUXD24GALH | | ○ | ○ | | | | |
| | AUXA30GALH | | ○ | ○ | | | | |
| | AUXA36GALH | | ○ | ○ | | | | |
| | AUXA45GALH | | ○ | ○ | | | | |
| | AUXA54GALH | | ○ | ○ | | | | |
| Low Static Pressure Duct / Concealed Floor | ARXB07GALH | | | | ○ | | | |
| | ARXB09GALH | | | | ○ | | | |
| | ARXB12GALH | | | | ○ | | | |
| | ARXB14GALH | | | | ○ | | | |
| | ARXB18GALH | | | | ○ | | | |
| Slim Duct / Slim Concealed Floor | ARXD07GALH | | | | ○ | ○ | | |
| | ARXD09GALH | | | | ○ | ○ | | |
| | ARXD12GALH | | | | ○ | ○ | | |
| | ARXD14GALH | | | | ○ | ○ | | |
| | ARXD18GALH | | | | ○ | | ○ | |
| | ARXD24GALH | | | | ○ | | | ○ |
| Medium Static Pressure Duct | ARXA24GBLH | | | | ○ | | | |
| | ARXA30GBLH | | | | ○ | | | |
| | ARXA36GBLH | | | | ○ | | | |
| | ARXA45GBLH | | | | ○ | | | |
| High Static Pressure Duct | ARXC36GATH | | | | ○ | | | |
| | ARXC45GATH | | | | ○ | | | |
| | ARXC60GATH | | | | ○ | | | |
| | ARXC72GATH | | | | ○ | | | |
| | ARXC90GATH | | | | ○ | | | |
| Floor / Ceiling | AB*A12GATH | | | | | | | |
| | AB*A14GATH | | | | | | | |
| | AB*A18GATH | | | | | | | |
| | AB*A24GATH | | | | | | | |
| Ceiling | AB*A30GATH | | | | | | | |
| | AB*A36GATH | | | | | | | |
| | AB*A45GATH | | | | | | | |
| | AB*A54GATH | | | | | | | |
| Wall Mounted | AS*A07GACH | | | | | | | |
| | AS*A09GACH | | | | | | | |
| | AS*A12GACH | | | | | | | |
| | AS*A14GACH | | | | | | | |
| Wall Mounted (EEV external) | AS*E07GACH | | | | | | | |
| | AS*E09GACH | | | | | | | |
| | AS*E12GACH | | | | | | | |
| | AS*E14GACH | | | | | | | |
| Wall Mounted | AS*A18GACH | | | | | | | |
| | AS*A24GACH | | | | | | | |
| | AS*A30GACH | | | | | | | |