FRESH AIR INTAKE KIT **INSTALLATION MANUAL**

(PART NO. 9379477086)

3.2. Installation dimension location

Install the air conditioner in a location which can withstand a load of at least five times the weight of the main unit and which will not amplify sound or vibration. If the

installation location is not strong enough, the indoor unit may fall and cause injuries.

For authorized service personnel only. UTZ-VXAA

1. SAFETY PRECAUTIONS

- · Be sure to read this Manual thoroughly before installation.
- · The warnings and precautions indicated in this Manual contain important information pertaining to your safety. Be sure to observe them.
- · Hand this Manual to the customer. Request the customer to keep them on hand for future use, such as for relocating or repairing the unit.

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	This mark indicates procedures which, if improperly performed, might lead to the death or serious injury of the user.				
Request your dealer or a professional installer to install the indoor unit in accordance with this Installation Manual. An improperly installed unit can cause serious accidents such as water leakage, electric shock, or fire. If the indoor unit is installed in disregard of the instructions in the Installation Manual, it will void the manufacturer's warranty.					
Do not turn ON the power until all work has been completed. Turning ON the power before the work is completed can cause serious accidents such as electric shock or fire.					
Installation work must be performed in accordance with national wiring standards by authorized personnel only.					

This mark indicates procedures which, if improperly performed, might possibly result in personal harm to the user, or damage to property.

2. ABOUT THE UNIT

2.1. Precautions for fresh air intake

- The Fresh Air Intake Kit can be installed onto cassette type air conditioners.
- On installation please also refer to the air conditioner installation manual and decoration panel installation manual
- 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 airconditioning load calculations.
- As outside air is not being processed an increase in outside air load can affect air conditioning
- 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.
- 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°(32°F) into the Fresh Air Intake Kit.

The upper limit of the product's temperature range should respond to the outdoor

- temperature range.
- Please ensure the product is installed a distance of at least 3 times the duct diameter away from exterior wall air inlets, or air exhausts for the prevention of short circuits

2.2. Accessories

For installation purposes, be sure to use the parts supplied by the manufacturer or other prescribed parts. The use of non-prescribed parts can cause serious accidents such as the unit falling, water leakage, electric shock, or fire.

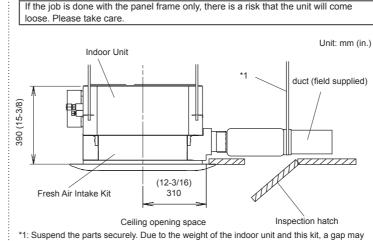
- · The following installation parts are furnished. Use them as required.
- · Keep the Installation Manual in a safe place and do not discard any other accessories until the installation work has been completed.

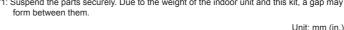
Name and Shape	Q'ty	Application
Chamber	1	Air joint for connecting duct
Wire cover	1	Cover for extension wire
Screw	4	Attaching for chamber Attaching for wire cover
Extension wire for louver white red	2	Extension wire for louver
Extension wire for receiver	1	Extension wire for receiver (For 7 pins receiver wire)
Extension wire for receiver	1	Extension wire for receiver (For 9 pins receiver wire)
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
Wire (External output ③)	1	For connect indoor unit to relay of duct fan
Bolt	4	For attaching the kit to indoor unit
Cable tie	1	For fixing wire

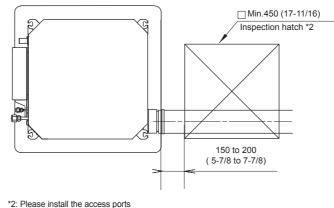
3. INSTALLATION WORK

3.1. Selecting an installation location

- Do not install the unit in the following areas:
- ·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.
- Area filled with mineral oil or containing a large amount of splashed oil or steam. such as a kitchen. It will deteriorate plastic parts, causing the parts to fall or the unit to leak water
- ·Area that generates 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 that can cause combustible gas to leak, contains suspended carbon fibers or flammable dust, or volatile inflammables such as paint thinner or gasoline. If gas leaks and settles around the unit, it can cause a fire.







(more than 450×450 mm (17-11/16 ×17-11/16 in.)).

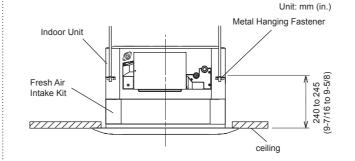
4. MOUNTING THE INDOOR UNIT MAIN BODY

4.1. Pre-installation preparations

· When the number of air outlets is to change, a separately-sold air-outlet sealing material should be fitted to the indoor unit main body prior to installing the Fresh Air Intake Kit.

4.2. 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 240 to 245 mm (9-7/16 to 9-5/8 in.).



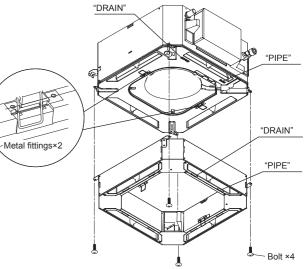
Attach the Fresh Air Intake Kit to the main body using the bolts provided

5. INSTALLATION OF THE FRESH AIR INTAKE KIT

5.1. Provisional attachment

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

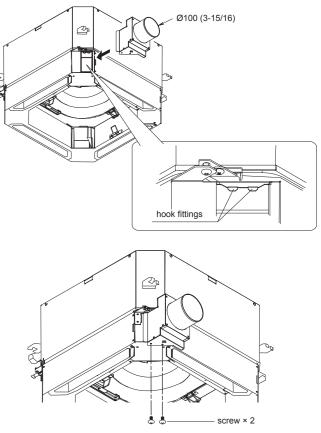
Provisionally attach the "DRAIN". "PIPE" of the Fresh Air Intake Kit to the indoor unit foamsealed "DRAIN", "PIPE", following the direction of the indoor unit, using the metal fittings of the combined diagram.



5.2. Attaching the fresh air intake kit

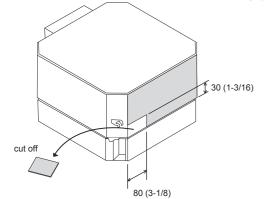
6. CHAMBER INSTALLATION

Fit the four-sided holes of the chamber together with the hook fittings of the Fresh Air Intake Kit (in 2 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. Unit: mm (in.)



7. DUCT INSTALLATION

7.1. Pre-installation preparations

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.

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.

7.2. Duct installation

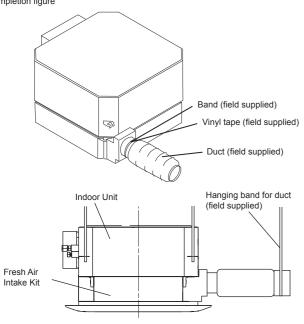
· Please fasten the connecting parts of the ducts with bands, and wrap with vinyl tape to

- ensure no air leaks. (Carry out the work to ensure no air leakage at a pressure of 200 Pa (0.03 psi))
- Please do not construct the duct in the manner of below. Extreme Bends

Highly Repetitive Bends

Making the Connecting Duct Diameters Smaller

Completion figure

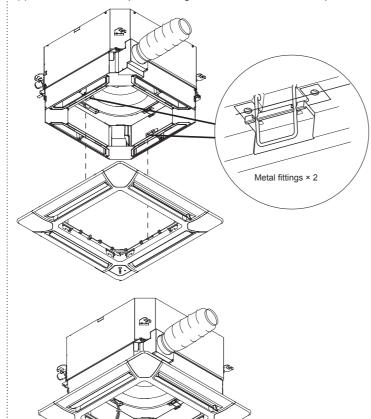


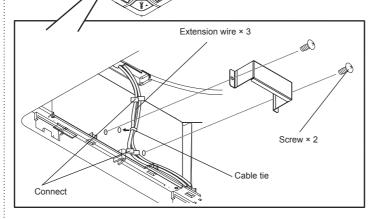
• When wiring of the duct fan is required please refer to "9. WIRING THE DUCT FAN".

8. DECORATION PANEL INSTALLATION

8.1. Installation of decoration panel

- (1) Please connect extension wires for use with louvers, or extension wire for optical receiver after provisional securing of the decoration panels. (2) Tie the wires together with the cable tie 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.





9. WIRING THE DUCT FAN

9.1. Pre-installation preparations

- · Make field supplied arrangements for duct fan and drive relay.
- · Connect the relay with the wire provided for use as an external power output

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Wiring of the external power output varies with equipment model.

(1) TYPE 1 [Single & Multi]

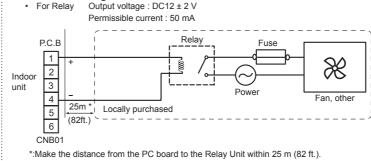
TYPE	MODEL	Connector
TYPE1-1	AU*G/RCG**L*L*	CN6
TYPE1-2	AUXG/RCG**KVLA	CN47

: Max. TYPE1-1 : 10 m (32 ft.) TYPE1-2 : 25 m (82 ft.) Connection diagram For Relay Output voltage : DC12V ± 2 V Permissible current : TYPE1-1 : 15 mA : TYPE1-2 : 50 mA Relay PCB Fuse Indoor 4 X unit 12 TYPE1-1:CN6 Power TYPE1-2:CN47 Locally purchased Ean other TYPE1-1 : 10m (32ft.)* TYPE1-2 : 25m (82ft.)3 *: Make the distance from the PC board to the Relay Unit within TYPE1-1 : 10 m (32 ft.) TYPE1-2 : 25 m (82 ft.) Indoor unit status Indoor unit fan 12 V TYPE1-1:CN6 TYPE1-2:CN47 0 V (output) • Wire (External output 1) -Wire color: RED 1 2 2 - Wire color: WHITE (2) TYPE 2 [VRF(AUXB**LALH)] · 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 : For VRF system Max. 150m (492 ft.) Connection diagram For Relay Output voltage : DC12 - 24 V Permissible current : 30 mA - - - - - -Relay P.C.B DC 12-24 V 20 Indoor 2 unit Powe Fan, other 150m * Locally purchased CN16 (492ft.) *: Make the distance from the PC board to the Relay Unit within 150 m (492 ft.). Indoor unit status operation Indoor unit fan stop 12-24 V CN16 (output) 0 V Wire (External output 2) Wire color: RED Wire color: WHITE (3) TYPE 3 [VRF(AUXB**G*LH)] · You can control duct fan by synchronization with fan operation of indoor unit.

· Extended length of the wire : For Single & Multi split system

• Wire for fresh air control output is supplied with Fresh Air Intake Kit. • Extended length of the wire : For VRF system Max. 25m (82 ft.)

Connection diagram



Indoor unit status

Indoor	operation			
unit fan	stop		 	
	12 V		 	
NB01(1- output)	4) 0 V		 	
/ire (Ex	ternal out	tput ③)		Wire color: RED
3			Wi	re color: WHITE

9.2. Connection methods

Wire modification

• W

Use a tool to cut off the terminal on the end of the wire, and then remove the insulation from the cut end of the wire

Connect the wire with connecting wire with solder.

IMPORTANT: Be sure to insulate the connection between the wires.

