

Network convertor (UTR-YGCA) INSTALLATION MANUAL

(PART NO. 9375401016-04)

For safe installation and trouble-free operation, you must:

- Carefully read this installation manual before beginning.
- Pay close attention to all warning, and caution notices given in this manual.

WARNING! This mark indicates procedures which, if improperly performed, might lead to the death or serious injury of the user.

① Install it as outlined in this installation sheet.

② Installation and maintenance work must be performed by authorized company or service personnel only.

③ When moving, consult authorized service personnel for disconnection and installation of the unit.

④ Connect the unit with cords available from our standard parts.
This installation manual describes the correct connections using the installation set available from our standard parts.

⑤ Installation work must be performed in accordance with national wiring standards by authorized personnel only.

⑥ Do not supply power to the unit until all wiring are completed or reconnected and checked.

⑦ Highly dangerous electrical voltages are used in this system. Carefully refer to the wiring diagram and these instructions when wiring.
Improper connections and inadequate grounding can cause accidental injury or death.

⑧ In the event of a malfunction (burning smell, etc.), immediately stop operation, turn off the electric breaker, and consult authorized service personnel.

⑨ Do not use inflammable gases near the unit.

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

① Be careful not to scratch the unit when handling it.

② Touching sharp edges may cause injury.

③ Let the customer keep this installation manual because it is used when the air conditioner is serviced or moved.

WIRING

WARNING

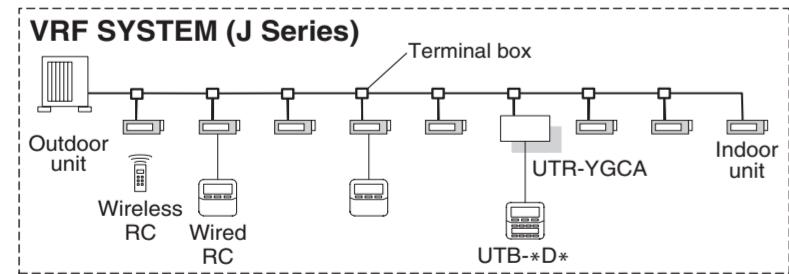
- Before starting work, check that power is not being supplied to all units.
- Connect the connection cord firmly to the terminal board. Imperfect installation may cause a fire.
- Match the terminal board numbers.
Erroneous wiring may cause burning of the electric parts.
- Always provide a trap and take other such measures when wiring the power supply cord and transmission cord so that water does not travel along them and into the unit.
- Always fasten the outside covering of the connection cord with the binder (push mount).
If the insulator is chafed, electric leakage may occur.
- Ground the unit following local electrical codes.

CAUTION

- Touch metal part of the units for more than 10 seconds to discharge static electricity charged in the body.
- Do not touch terminals of parts and patterns implemented on board.
- Never connect the power supply cord to remote controller terminal board as this cause a unit failure.
- The remote control wires must be connected in the order 3. Black → 1. Red → 2. White.
- Never bundle the power supply cord, transmission cord and remote controller cord together.
Bundling these cords together will cause misoperation.

UTR-YGCA system configuration

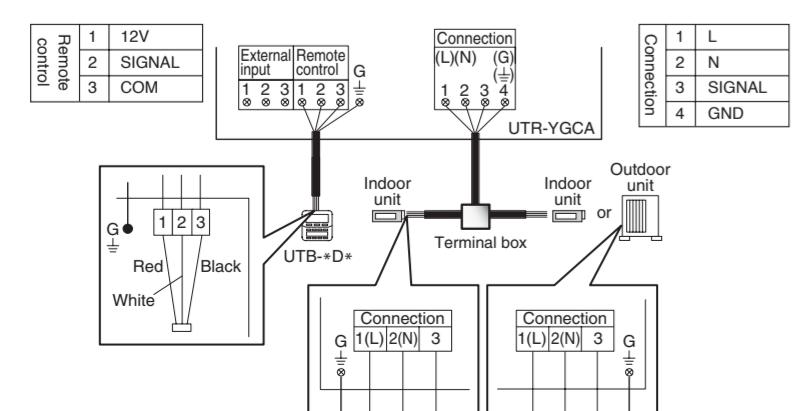
Fig. 6-1



- Maximum number of UTB-+D* units that can be connected: 1 unit
- Maximum number of UTR-YGCA units that can be connected: 1 unit
- UTR-YGCA can be connected at any location between the indoor and outdoor units or at the last terminal in the network.

UTR-YGCA wiring

Fig. 6-2

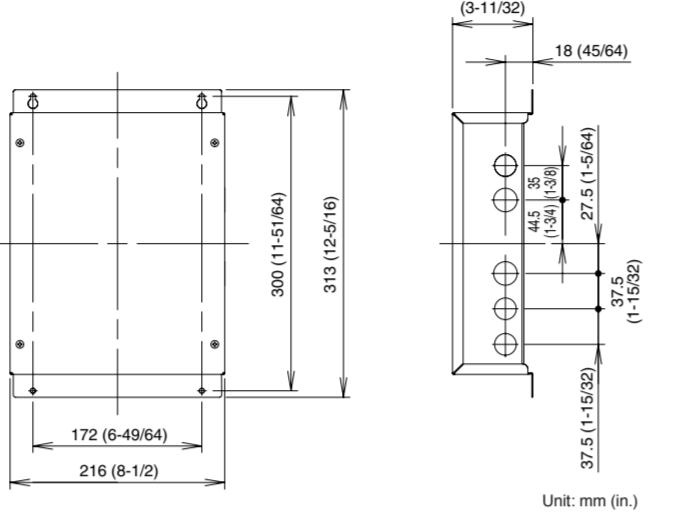


PARTS INCLUDE							
The following installation parts are supplied. Use them as required.							
Name and Shape	Q'ty	Name and Shape	Q'ty	Name and Shape	Q'ty	Name and Shape	Q'ty
Main unit	1	Tapping screw (M4 × 20 mm)	4	Binder (Push mount)	3	Cord bushing	2

SPECIFICATIONS

2-1. EXTERNAL VIEW

Fig. 2-1



Unit: mm (in.)

2-2. ENVIRONMENT SPECIFICATIONS

Dimensions (H × W × D)	85 × 216 × 313 mm (3-11/32 × 8-1/2 × 12-5/16 in.)						
Weight (Net)	1.8 kg (4.0 lbs.)						
Power source	AC 208V - 240V 50/60Hz						
Power consumption	2.0 W						
Environment	<table border="1"> <tr> <td>Operating</td><td>Temperature</td> </tr> <tr> <td>Packaged</td><td>Temperature</td> </tr> <tr> <td></td><td>Humidity</td> </tr> </table>	Operating	Temperature	Packaged	Temperature		Humidity
Operating	Temperature						
Packaged	Temperature						
	Humidity						
	0 - 40 °C (32 - 115 °F) -10 - 60 °C (14 - 140 °F) 10 - 90 %RH (no condensation)						

2-3. Connected unit

Item	Description
Air conditioner	VRF J-series
Remote controller	Group remote controller

ELECTRICAL REQUIREMENT							
WARNING							
① Install a leakage circuit breaker to power supply line in accordance with the related laws and regulations and electric company standards.							

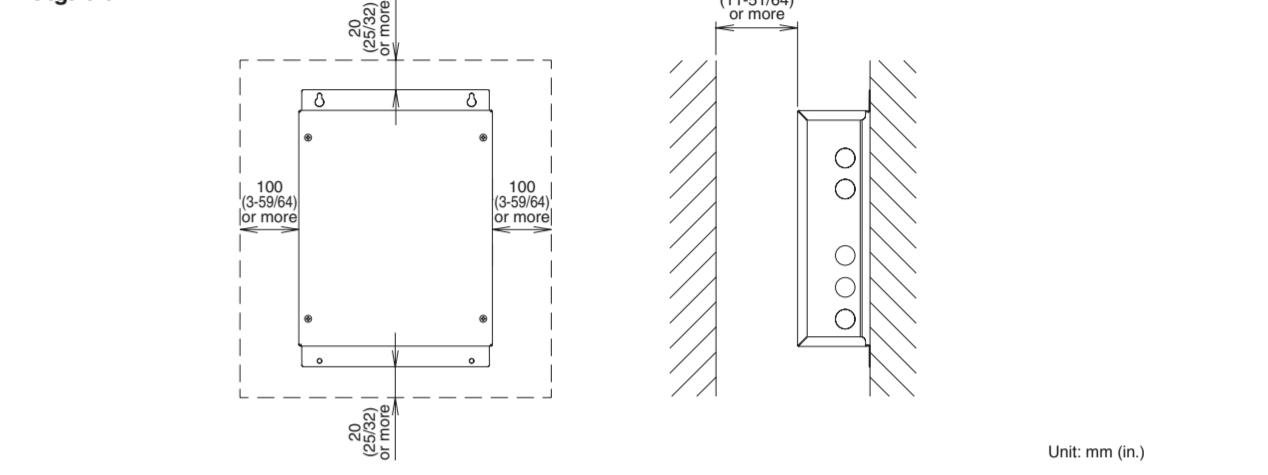
- The circuit breaker is installed in the permanent wiring.
Always use a circuit that can trip all poles of the wiring and has an isolation distance of at least 3 mm between the contacts of each pole.

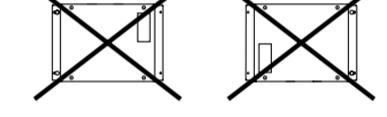
CAUTION							
① Do not use an extension cord.							
② When installing the bus wire near a source of electromagnetic waves, use shielded wire.							

Item	Size	Wire type	Remarks
Power supply cord	Maximum 2.5 mm ² (AWG14) Minimum 1.5 mm ² (AWG15)	Type245 IEC57 or equivalent	Power source and signals: 3 Ground: 1
Remote controller cord	0.33 mm ² (AWG22)	Shield cord	Polar 3-core

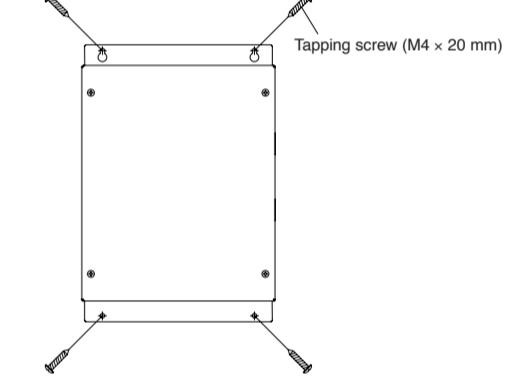
SELECTING THE MOUNTING POSITION							
WARNING							
Install at a place that can withstand the weight of the unit and install positively so that the unit will not topple or fall.							
CAUTION							
① Do not install the unit in a location with any of the following conditions. • There is the danger of combustible gas leakage. • There is oily smoke, machine oil (i.e. factory), salty environment with direct sea breeze. • There is too much of dust. • Corrosive gas such as sulphurous acid gas is generated. • Not well-ventilated place not avoiding rains and direct sunlight.							
② If children under 10 years old may approach the unit, take preventive measures so that they cannot reach the unit.							
③ Install the indoor and outdoor units, power wiring, signal wiring and remote control wiring 1 m away from television and radio to avoid distorted images and noise. (However, distorted noise may not be avoidable even if units and wiring mentioned above are installed 1 m away from television and radio depending on conditions of electrical waves).							

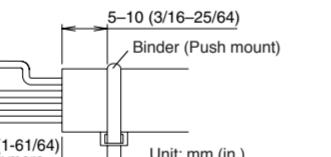
Decide the mounting position with the customer as follows:
(1) Install the unit where the connection wire can be easily installed.
(2) Take servicing, etc. into consideration and leave the spaces shown in Fig. 4-1.



INSTALLATION PROCEDURE							
CAUTION							
Be sure to install the unit in the correct direction. 							

- Use the four tapping screws provided to mount the network convertor to the behind ceiling, wall, floor or other suitable location.



CONFIRMING OPERATION							
① Check the unit wiring. ② Check the wiring and switch settings for VRF system. For the wiring and switch settings method, refer to the installation manual of each unit.							
③ Turn on the power for the VRF system. ④ Turn on the power for network convertor.							
⑤ Confirm that there are no errors displayed on the network convertor, and then install the cover. • The unit is initialized after turned on the power. • During the initialization, D110 will flash. • If initialization is completed successfully, D110 will come on. • If initialization is not completed successfully, an error code will be displayed. (Table 7-1)							
⑥ Make sure that the ground wire is longer than the other wires. 							

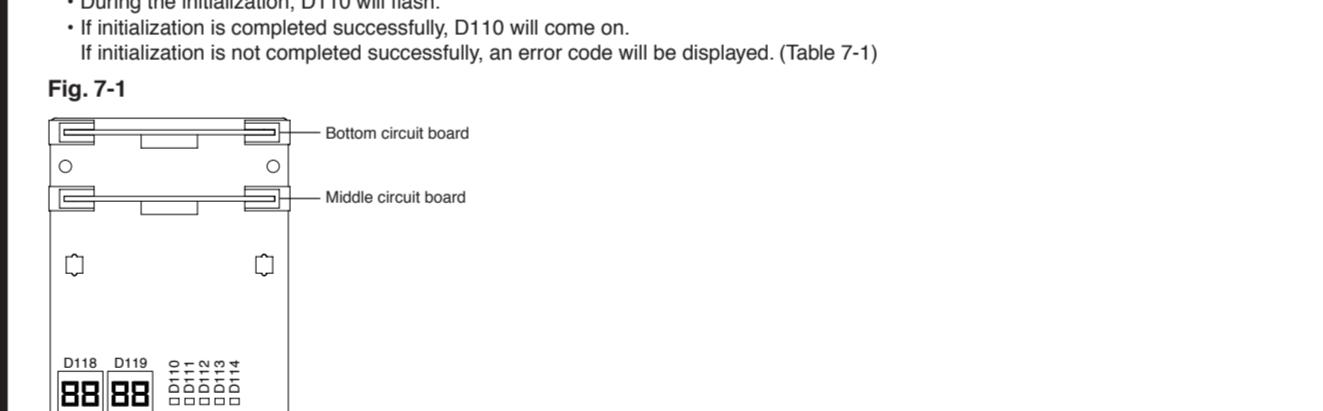


Table 7-1

Error code	Error contents
Normal	
E0 09	System malfunction
E2 09	Bottom circuit board connected incorrectly
E3 09	Middle circuit board connected incorrectly
E0 0b	Main circuit board maintenance error
E2 0b	Middle circuit board maintenance error
E3 0b	Bottom circuit board maintenance error