FOR SERVICE PERSONNEL ONLY

HITACHI Inspire the Next **INVERTER SYSTEM MULTI TYPE INSTALLATION MANUAL**



INDOOR UNIT RAF-25NXA1 RAF-35NXA1

Carefully read through the procedures of proper installation before starting installation work. The sales agent should inform customers regarding the correct Explanation for outdoor unit is in the "How To Use" (Instruction

Manual) that packed with outdoor unit.

Tools Needed For Installation Work (Mark ● is exclusive use tool for R410A) • ⊕ ⊖ Screwdriver • Measuring Tape • Knife • Saw • ø65mm Power Drill • Hexagonal Wrench Key (∑\(\sum\) • Wrench (14, 17 19, 22, 26, 27mm) Gas leakage Detector • Pipe Cutter

Putty • Vinyl Tape • Pliers • Flare Tool ● Vacuum Pump RAF-50NXA1 Adapter

Manifold Valve

Charge Hose

Vacuum Pump - SAFETY PRECAUTION Read the safety precautions carefully before operating the unit.

A CAUTIONImproper installation may result in serious consequence.

Make sure to connect earth line.

as described in the user's guide. Ask customers to keep this installation manual together with the instruction manual.

A WARNING

Please request your sales agent or qualified technician to install your unit. Water leakage, short circuit or fire may occur if you do the installation work Please observe the installation stated in the installation manual during the process of installation. Improper installation may cause water leakage, electric

· Make sure that the units are mounted at locations which are able to provide full support to the weight of the units. If not, the units may collapse and impose

wire or improper work. · Be sure to use the specified cables for connecting the indoor and outdoor units. Please ensure that the connections are tight after the conductors of the wire are inserted into the terminals to prevent the external force is being applied to the connection section of the terminal base. Improper insertion and

loose contact may cause over-heating and fire. Please use the specified components for installation work. Otherwise, the unit may collapse or water leakage, electric shock, fire or stronger vibration may occur.

Be sure to use the specified piping set for R410A. Otherwise, this may result in broken copper pipes or faults

Be sure to ventilate fully if a refrigerant gas leak while at work. If the refrigerant gas comes into contact with fire, a poisonous gas may occur. After completion of installation work, check to make sure that there is no refrigeration gas leakage. If the refrigerant gas leaks into the room, coming into

Improper repairs may result in water leakage, electric shock and fire, etc.

Be sure to connect the earth line from the power supply wire to the outdoor unit and between the outdoor and indoor unit. Do not connect the earth line to the gas tube, water pipe, lighting rod or the earth line of the telephone unit. Improper earthing may cause electric

the compressor is operating and the service valve is released, air is sucked and a pressure in the freezing cycle system will build up steeply, causing an

If the refrigerant pipe is not installed and the compressor is operated with the service valve released, air is sucked and the pressure level of the refrigeration cycle may increase abnormally which could result in a rupture and injury.

A CAUTION

installations a main switch with a contact gap or more than 3mm has to be installed. Without a circuit breaker, the danger of electric shock exists

— 1 —

Do not install the unit near a location where there is flammable gas. The outdoor unit may catch fire if flammable gas leaks around it.

An IEC approved power cord should be used. Power cord type: NYM.

The contents of this section are vital to ensure safety. Please pay special attention to the following sign. MARNINGIncorrect methods of installation may cause death or serious injury.

This sign in the figures indicates prohibition.

Be sure that the unit operates in proper condition after installation. Explain to customer the proper operation and maintenance of the unit

shock and fire.

Observe the rules and regulations of the electrical installation and the methods described in the installation manual when dealing with the electrical work.

Use cables which are approved official in your country. Be sure to use the specified circuit. A short circuit and fire may occur due to the use of low quality

When installing or transferring an air conditioner to another location, make sure that air other than the specified refrigerant (R410A) does not enter the refrigeration cycle. If other air should enter, the pressure level of the refrigeration cycle may increase abnormally which could result in a rupture and injury.

contact with fire in the fan-driven heater, space heater, etc., a poisonous gas may occur. Unauthorized modifications to the air conditioner may be dangerous. If a breakdown occurs please call a qualified air conditioner technician or electrician

When finishing the refrigerant collection (pumping down), stop the compressor and then remove the coolant pipe. If you remove the refrigerant pipe while

When installing the unit, be sure to install the refrigerant pipe before starting the compressor.

A circuit breaker must be installed in the house distribution box for the direct connected power supply cables to the outdoor unit. In case of other

Please ensure smooth flow of water when installing the drain hose. Improper installing may wet your furniture.

(Please note the following matters and obtain permission from customer before installation.)

THE CHOICE OF MOUNTING SITE

A WARNING The unit should be mounted at stable, non-vibratory location which can provide full support to the unit.

A CAUTION No nearby heat source and no obstruction near the air outlet is allowed. The clearance distances from top, right and left are specified in figure below. The location must be convenient for water drainage and pipe

connection with the outdoor unit.

Screw for Overturn Prevention (4.1×63) Holder for Remote To avoid interference from noise, please place the unit and its remote controller at least 1m from the radio and Controller To avoid any error in signal transmission from the remote controller, please put the controller far away from high-Screw for holder of frequency machines and high-power wireless systems. Remote Controller

Names of Indoor Components

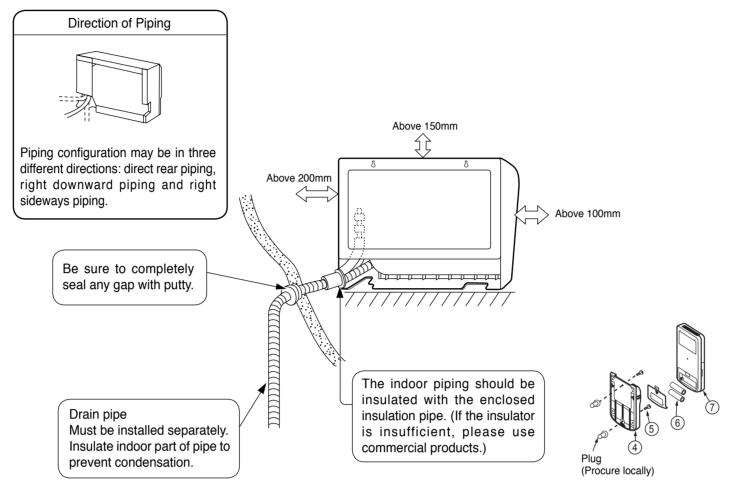
Flare Insulator

Binder

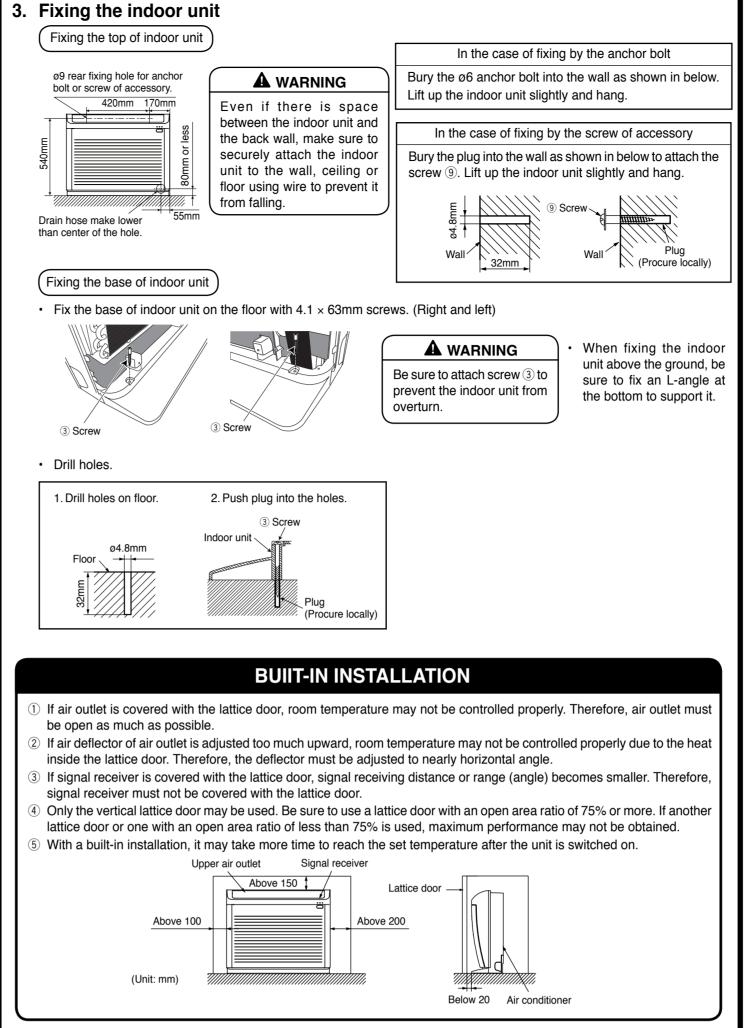
Item

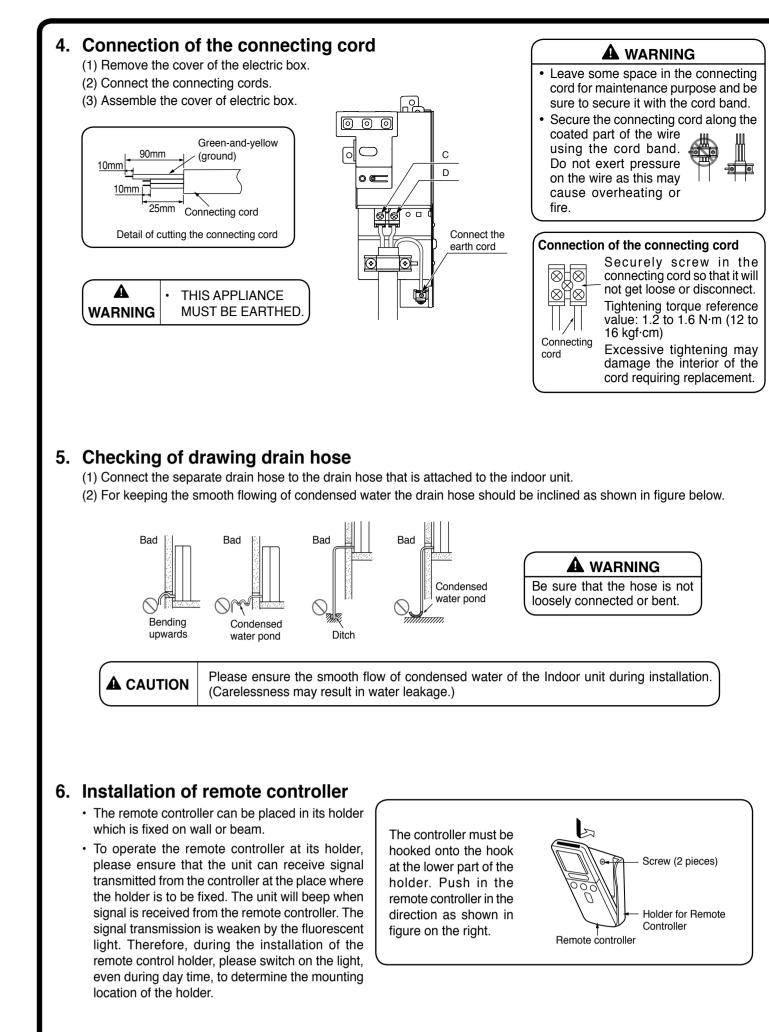
Battery Remote Controller Insulator Screw for Overturn Prevention (4.0×34) Insulator $(20 \times 30 \times 300)$ (3.1×16) Air cleansing filters

[Indoor unit installation]



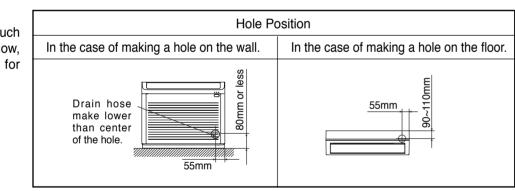
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 Make a hole on the wall such the position as shown below, in order to keep the flow for condensed water smooth.



Outdoor

WALL protection pipe

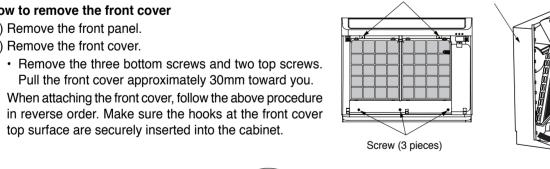
1.2 Wall penetration and installation of Drill a ø65mm hole on wall which is slightly

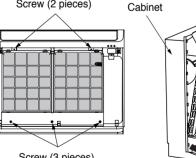
- tilted towards the outdoor side. Drill the wall putty at a small angle. Cut the protection pipe according to the wall
- Empty gap in the sleeve of protection pipe
- should be completely sealed with putty to avoid dripping of rain water into the room.

2. Installation of the indoor unit

- 2.1 How to remove the front cover
- (1) Remove the front panel. (2) Remove the front cover.
- Remove the three bottom screws and two top screws. Pull the front cover approximately 30mm toward you. When attaching the front cover, follow the above procedure

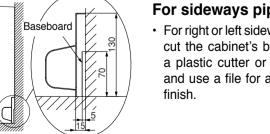
top surface are securely inserted into the cabinet.



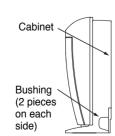


For sideways piping

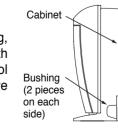
If the baseboard is 5~15mm in thickness and 70~130mm in height, cut the pipe bushing to conform to the baseboard.



 For right or left sideways piping, cut the cabinet's bushing with a plastic cutter or similar tool



and use a file for an attractive (2 pieces)



A CAUTION

Be sure that the wire is not in

contact with any metal in the

wall. Please use the protection

pipe as wire passing through

the hollow part of the wall so

as to prevent the possibility of

damaged by mouse.

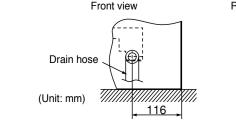
Front cove

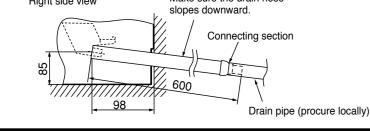
2.2 Drain pipe

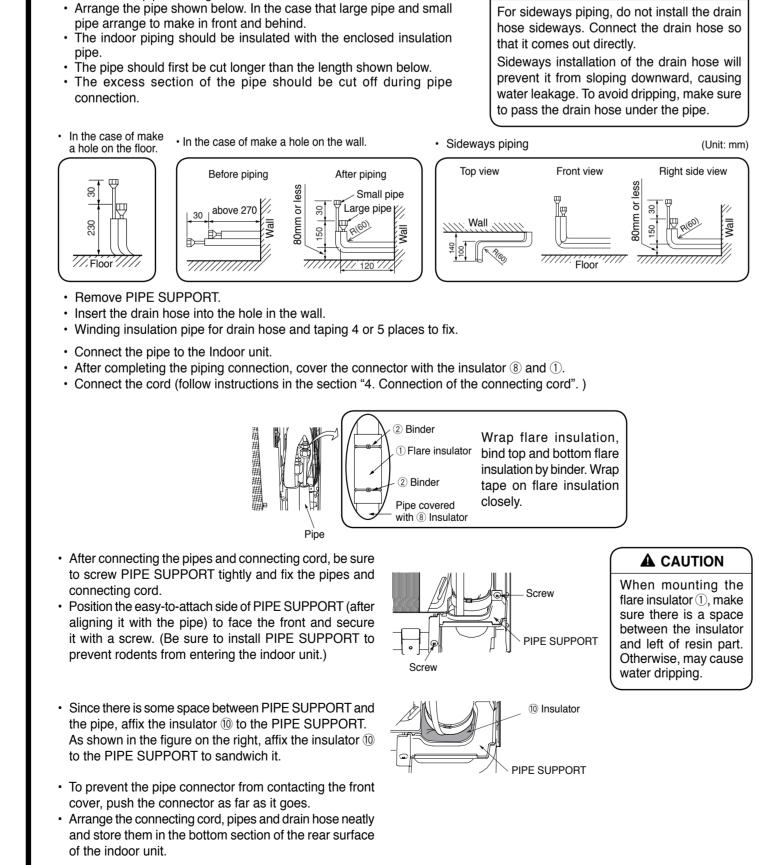
If there is a baseboard

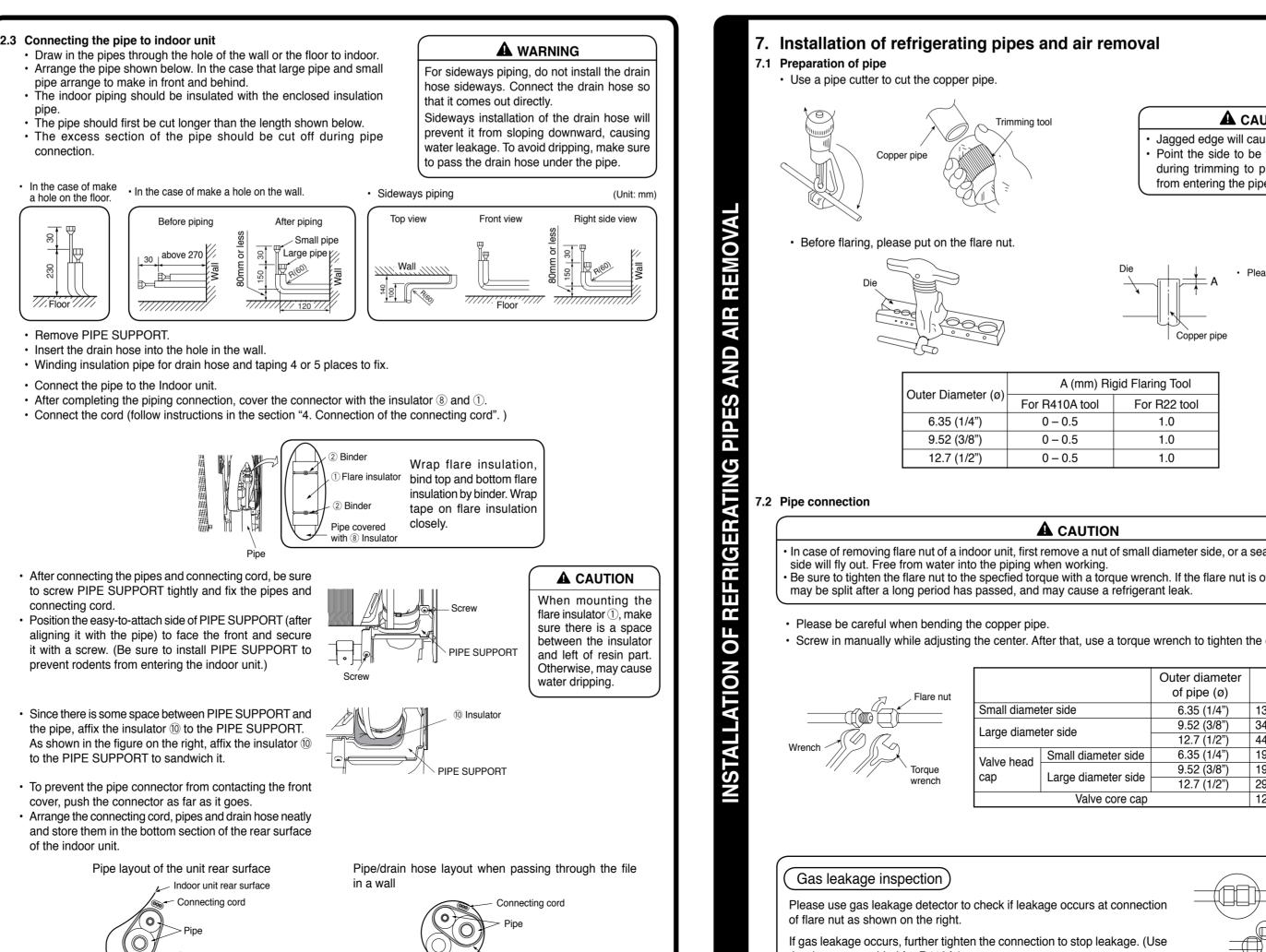
Make sure drain pipe slopes downward so that drain flows smoothly without being trapped in the middle.

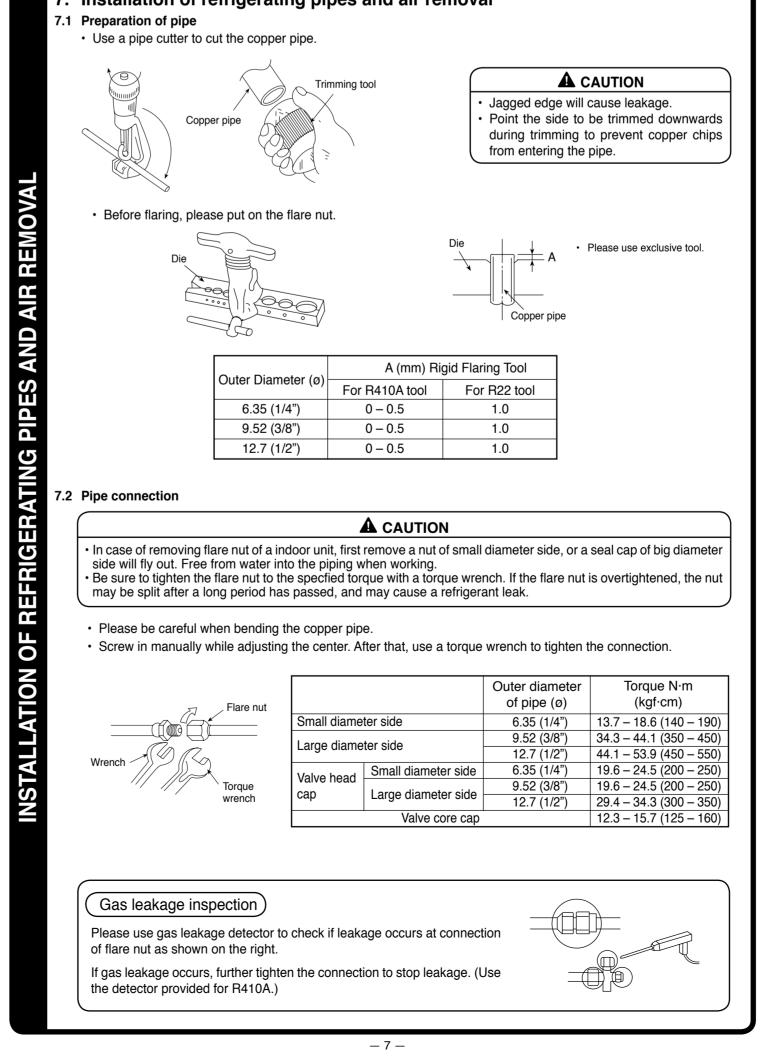
- The drain hose (connecting port outer diameter: 16mm or 20mm, length: 600mm) is included in the indoor unit. Prepare a drain pipe as shown in the following figure. To prevent condensation, the indoor drain pipe should be covered with heat insulation material with a thickness of more
- After piping is completed, check to make sure that drain discharges smoothly. Seal the drain pipe tightly with tape to keep dirt out.

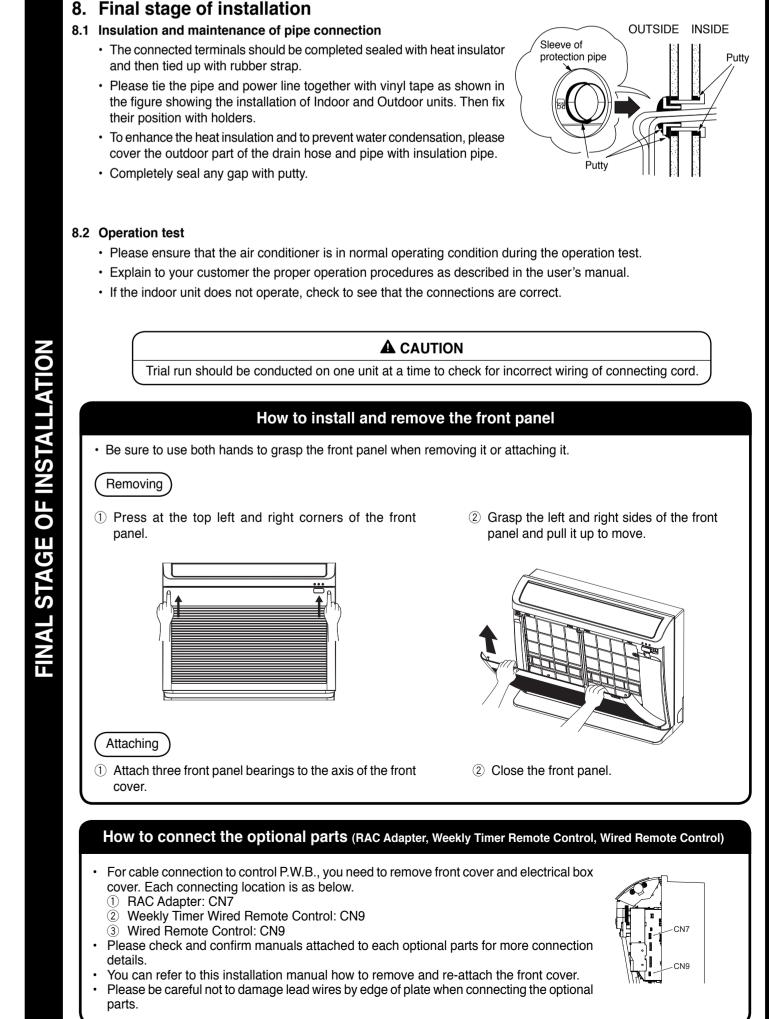












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