# HITACHI

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 yourself.
Please observe the instructions stated in the installation manual during the process of installation. Improper installation may cause water leakage, electric shock and fire.
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 danger.
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 officially approved in your country. Be sure to use the specified circuit. A short circuit and fire may occur due to the use of low quality wire or work.

occur due to the use of low quality 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 units may collapse or water leakage, electric shock, fire or stronger vibration may occur.
Be sure to use the specified piping set for R32. Otherwise, this may result in broken copper pipes or faults.

When installing or transferring an air conditioner to another location, make sure that air

When installing or transferring an air conditioner to another location, make sure that air other than the specified refrigerant(R32) 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. 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 contact with fire in the fandivan heater space heater etc. a poisonous gas may occur.

driven heater, space heater, etc., a poisonous gas may occur. Unauthorized modifications to the air conditioner may be dangerous. If a breakdown occurs

Unauthorized modifications to the air conditioner may be dangerous. If a breakdown occurs please call a qualified air conditioner technician or electrician. 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 shocks.
When finishing the refrigerant tollection (pumping down), stop the compressor and then remove the colant pipe. If your emove the refrigerant pipe while the compressor and then remove the string may cause electric shocks.
When finishing the unit, be sure to install the refrigerant pipe before starting the compressor. If the refrigerant pipe is not installed and the compressor is operated with the service valve relaxed, the refrigerant pipe before the refrigerant pipe before starting the compressor. If the refrigerant pipe is sucked and the pressure level of the refrigerant pipe and the service about the service about the terwise fire or electric shock. Make sure to use an exclusive circuit breaker. Otherwise fire or electric shock might occur by connection failure, isolation

circuit breaker. Otherwise fire or electric shock might occur by connection failure, isolation

Make sure to connect cables to terminal properly and terminal cover should close firmly. Otherwise, over heating at terminal contact, fire or electric shock might occur. Make sure that there is no dust on any connected points of electric cables and fix firmly. Otherwise, fire or electric shock might occur.

occur due to the use of low quality wire or improper work.

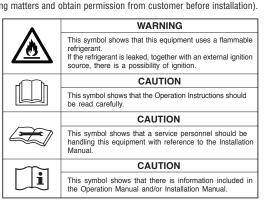
#### The Choice of Mounting Site (Please note the following matters and obtain permission from customer before installation)

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- 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 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.
- Do not install the unit near a location where there is flammable gas. The outdoor unit may Ð catch fire if flammable gas leaks around it.
- Please ensure smooth flow of water when installing the drain hose. Improper installing may wet your furniture.

An IEC approved power cord should be used. Power cord

type: NYM



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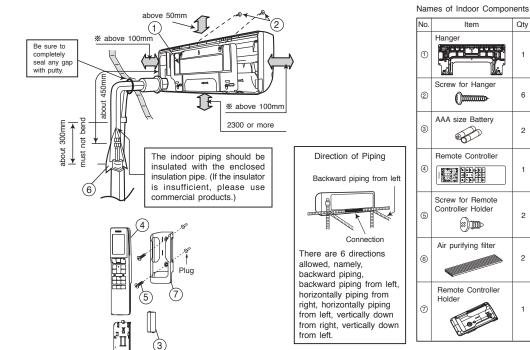
• The unit should be mounted at stable, non-vibratory location which can provide full support to the unit

#### 

- 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.
  No nearby leakage risk of flammable gas, and no nearby source of vapor or oil smoke.
  To avoid interference from noise, please place the unit and its remote controller at least 1m from the radio and television.
- To avoid any error in signal transmission from the remote controller, please put the controller far away from high-frequency machines and high-power wireless systems. The installation height should be at least 2300 mm or more from the floor.
- The distance from the air outlet to the fire alarm must be at least 1500mm and there must be no fire alarm in the front direction of the indoor unit.

Figure showing the Installation of Indoor Unit.



# 2 Installation of the Indoor Unit

#### **Cutting Low Cover bush**

• While installing the pipe from the right, left or bottom side, use a knife to cut openings as shown in figure. Then smoothen the edges of openings with a file.

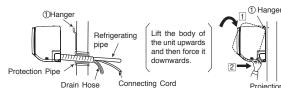
## 1 PIPING FROM THE RIGHT SIDE (BACKWARD, DOWNWARD, HORIZONTAL)

#### Preparation

- Connect connecting cord. • Pull out the pipe, connecting cord and drain hose.

### Installation

- Insert the pipe through the wall hole.
- 1) The upper part of the Indoor unit is hanged on the hanger.
- 2 The projection at the lower part of the Indoor unit is hooked



#### Preparation

# INSTALLATION MANUAL

# **air** Home

## SPLIT UNIT AIR CONDITIONER



**EN** INSTRUCTION MANUAL

#### FOR SERVICE PERSONNEL ONLY

- Carefully read through the procedures of proper installation before starting installation work. The sales agent should inform customer regarding the correct operation of insta
- Tools Needed For Installation Work (Mark () is exclusive use tool for R32)

 ⊕ ⊖ Screwdriver
 Measuring Tape
 Knife
 Saw ● ø 5mm Power Drill
 Hexagonal Wrench Key ( 10 4mm) Wrench (14,17,19,22mm) Gas Leakage Detector
 Pipe Cutter
 Puty
 Vinyl Tape
 Pliers
 Flare Tool
 Vacuum Pump Adaptor

- Manifold Valve
   Charge Hose
   Vacuum During
- Vacuum Pump

# SAFETY PRECAUTION

Read the safety precautions carefully before operating the unit.
The contents of this section are vital to ensure safety. Please pay special attention to the following sign. A WARNING ...... Incorrect methods of installation may cause death or serious injury.

pipes or faults.

- CAUTION ...... Improper installation may result in serious consequence.
  - Make sure to connect earth wire.
- N 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 as described in the user's guide. Ask a customer to keep this installation manual together with the instruction manual.

failure or over current.



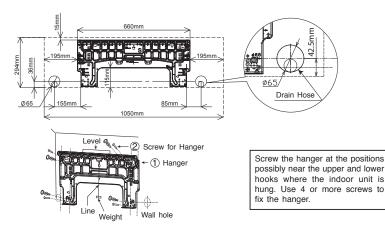
## 1 Installation of Hanger, Wall Penetration and Installation of Protection Pipe

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• The draining of the water container inside the indoor unit can be done from the left. Therefore the hanger must be fixed horizontally or slightly tilted towards the side of drain hose. Otherwise, condensed water may overflow the water container

#### **Direct Mounting On The Wall**

• Please use hidden beams in the wall to hold the hanger



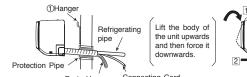
- Procedures to fix the hanger.

① Hange

② Screw

Wall

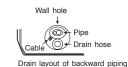
- onto the hanger



Openings Openings

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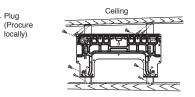
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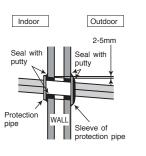
1. Drill holes on wall. (As shown below)

2. Push plug into the holes. 3. Fix the hanger on wall (As shown below) with 4.1 x 32 screw (As shown in figure below)



### Wall Penetration and Installation of Protection Pipe

- Drill a ø 65mm hole on wall which is slightly tilted towards the outdoor side. Drill the wall at a small angle.
- · Cut the protection pipe according to the wall thickness
- Empty gap in the sleeve of protection pipe should be completely sealed with putty to avoid dripping of rain water into the room.
- Please ensure smooth flow of water when installing the drain hose. Improper installing may wet your furniture.
- An IEC approved power cord should be used. Power cord type: NYM.

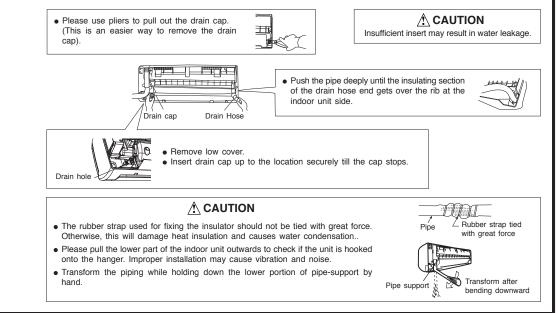


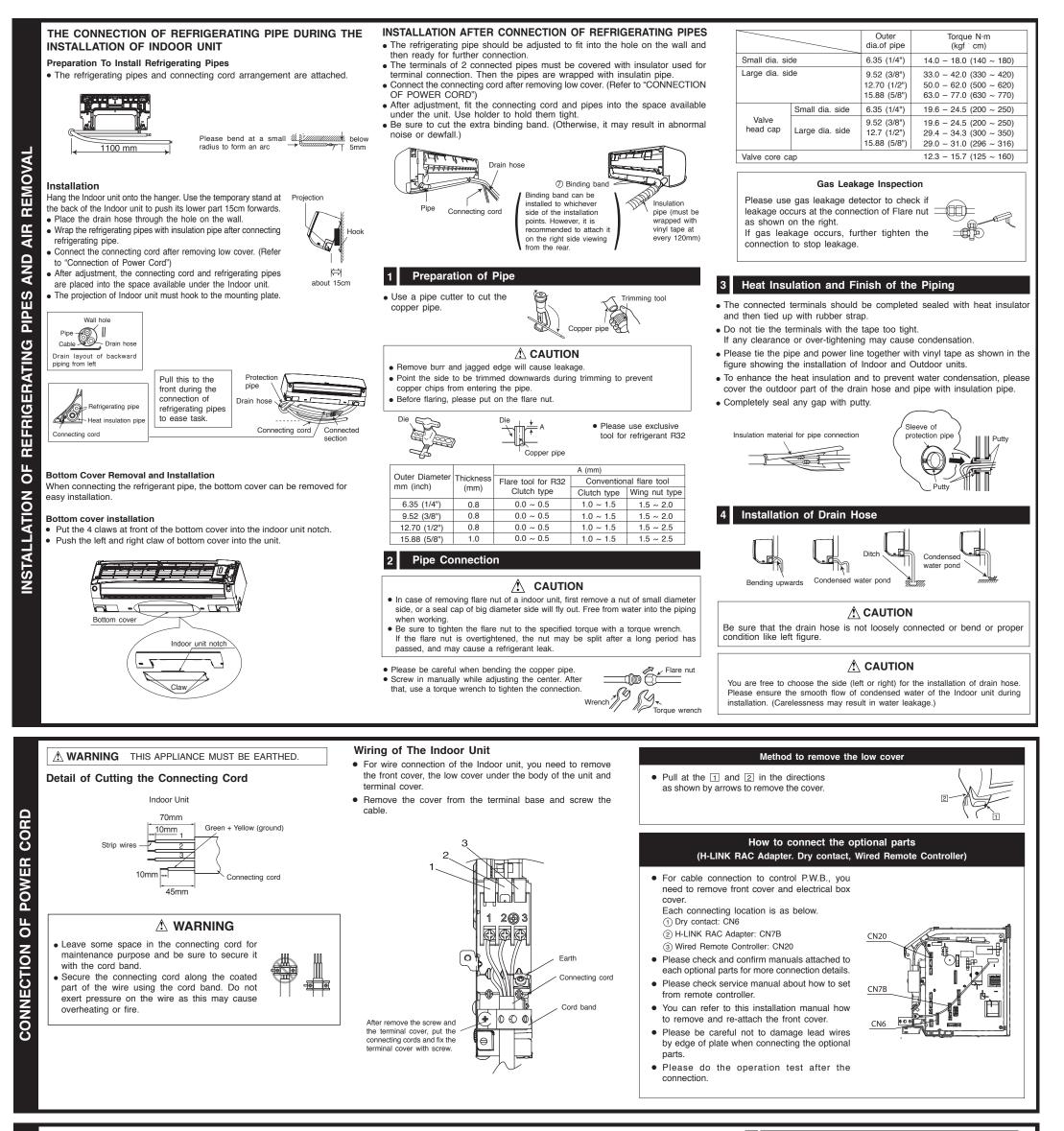
#### Be sure that the wire is not in contact with any metal in the wall. Please use the protection pipe as wire passing through the hollow part of the wall so as to prevent the possibility of damaged by mouse. Unless it seals completely, any air with high humidity flows from outdoor and dew

may drop.

#### Changed of Drain Hose and Installation Procedures

• Exchange the location of drain hose and drain cap while installing the pipe from the left side as shown in below. Be sure to plug in the drain hose until the insulating material folds upon itself.

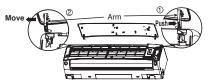




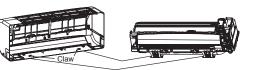
#### TIOW TO REMOVE OR ATTACH THE FRONT COVER

#### How to Remove the Front Cover

#### 1 Remove the front pane

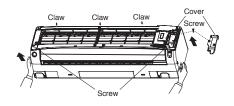


- ) Push the end of the right-side arm outward to release the tab.
- O Move the left-side arm outward to release the left tab, and then pull the panel towards you.
- 2 Remove the filters.
- 3 After removing 3 screws, remove the cover of electric box, pull the center of the front cover towards you and release the claws.
- 4 Pull the side faces (lower sections) of the front cover towards you as shown in the figure and remove the cover.

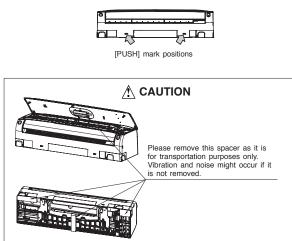


#### How to Attach the Front Cover

- 1 After installing the front cover onto the unit, hook three claws at upper side of the cover securely. Then, push the center of the front cover to lock the claws.
- 2 Assemble the cover of electric box.
- 3 Tighten the 3 screws.
- 4 Install the filter.
- 5 Attaching the Front Panel
  - Insert the shaft of the left arm along the step on the unit into the hole.
  - Securely insert the shaft of the right arm along the step on the unit into the hole.
  - Make sure that the front panel is securely attached, and then close the front panel.



- Push up the (PUSH) sections at the bottom of the indoor unit and pull the bottom plate towards you. Then the claws are released from the stationary plate.
- (The (PUSH) sections are indicated by 2 arrows as below figure)



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