HITACHI

HITACHI SPLIT-UNIT AIR CONDITIONER INSTALLATION MANUAL

HEC Indoor Unit **Outdoor Unit** RAS-X18HAK + RAC-X18HAK

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. ○ This sign indicates prohibition. CAUTION...... Improper installation may result in serious consequence.

Carefully read through the procedures of proper

The sales agent should inform customers regarding

Tools Needed For Installation Work

(\odot mark is tool exclusive use for R410A) $\cdot \oplus \bigcirc$ Screwdriver

•Measuring Tape • Knife • Saw • Pipe Cutter · Hexagonal Wrench Key (岔Ω 4mm) • Power Drill (ø65~ø80mm) • Vacuum Pump • Pliers or Wrench • Torque Wrench

● Vacuum Pump Adaptor ● Flare Tool ● Gas Leakage

installation before starting installation work

the correct operation of installation

Detector
Manifold Valve
Charge Hose

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 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 yourself.
- Please observe the installation 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 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 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 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. 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 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 conditione 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. Improvement and ing may cause electric shocks. When finishing the refrigerant collection (pumping down), stop the compressor and then remove the coolant pipe If you remove the refrigerant pipe while 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 explosion or injury. When installing 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 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

- 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 catch fire
- 1. ET if flammable gas leaks around it. Please ensure smooth flow of water when installing the drain hose. Improper installing may wet your funiture.
- An IEC approved power cord should be used.







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part of the wall so as to

prevent the possibility of

damaged by mouse.





Hang the indoor unit onto the mounting plate. Use the temporary

<E4340B:(A)>

to avoid dripping of rain

water into the room.





- outdoor units. Then fix their position with holders.
- To enchance the heat insulation and to prevent water condensation, please cover the outdoor part of the drain hose and pipe with insulation pipe.
- Completely seal any gap with putty.

INSTALLATION

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STAGE

FINAL



2 Earth Line And Circuit Breaker

A CAUITON

- The earth line terminal of the outdoor unit is below the service valve.
- To avoid short circuit, it is necessary to install circuit breaker depending on the mounting location of the unit.
- Do not place earth line near the following objects: (1) Water pipe
- (2) Gas pipe There is danger of catching fire.
- (3) The earth line of lightning conductor and telephone short circuit may occur during lightning.

Do not alter the plug of power cord.
Do not make extension to the power cord.

- Please use a new socket. Accident may occur due to the use of old socket because of poor contact.
- Please plug in and then remove the plug for 2 3 times. This is to ensure that the plug is completely plugged into the socket.
- Keep additional length for the power cord and do not render the plug under external force as this may cause poor contact.
- Do not fix the power cord with U-shape nail.

Operation Test

- Please ensure that the air conditioner is in normal operating condition during the operation test.
- Explain to your customer the proper operation procedures as described in the user's manual.

CONNECTION OF POWER CORD