FOR SERVICE PERSONNEL ONLY

HITACHI

• Carefully read through the procedures of proper installation before starting installation work.

SPLIT UNIT AIR CONDITIONER **INSTALLATION MANUAL**

The sales agent should inform customers regarding the correct operation of installation. **Tools Needed For Installation Work** • $\oplus \ominus$ Screwdriver • Measuring Tape • Knife Saw • ø 65mm Power Drill • Hexagonal Wrench

Key (10 4mm) • Wrench (14, 17, 22, 26, 27mm)

Gas Leakage Detector
 Pipe Cutter
 Putty

Vinyl Tape
 Pliers
 Flare Tool

Indoor Unit **RAS-50WX8(W) BAS-50WX8(B)**

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.

Outdoor Unit

RAC-50WX8

- - A CAUTION Improper installation may result in serious consequence.

Be sure that the unit operates in proper condition after installation. Explain to customer the proper way of operating the unit as described in the user's guide.

- 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 power cables approved by the authorities of your country.
- Be sure to use the specified wire 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. 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 and fire may occur
- Be sure to use the specified piping set for R-410A. Otherwise, this may result in broken copper pipes or faults
- When installing or removing an air conditioner, only specified refrigerant (R410A) shall be allowed, do not allow air or moisture to remain in the refrigeration cycle. Otherwise, pressure in the refrigeration cycle may become abnormally high so that a rupture may be caused.
- · 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 conditioner technician or electrician. Improper repairs may result in water leakage, electric shock and fire, etc.

- A circuit breaker or fuse (16A time delay) must be installed. Without a circuit breaker or fuse the danger of electric shock exists
- A main switch with a contact gap of more than 3mm has to be installed in the power supply line to the outdoor unit. Ŀ, Res Cas
- 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.
- Please ensure smooth flow of water when installing the drain hose.

Direct Mounting On The Wall

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Screw for Hanger

Please use more

Procedures of Installation and Precautions

than 4 screws

Please use hidden beams in the wall to hold the hanger

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2. Push plug into the holes.

(As shown below)

• Piping shall be suitable supported with a maximum spacing of 1m between the supports.

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

• 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.

THE CHOICE OF MOUNTING SITE (Please note the following matters and obtain permission from customer before installation)



- HOW TO REMOVE INDOOR UNIT Preparation To Install Refrigerating Pipes **▲** CAUTION Push up the (PUSH) sections at the bottom of the indoor unit and pull the bottom plate towards you. Then the \bullet The refrigerating pipes and connecting cord Please fix in the plastic core transform and are attached. after flaring to avoid plastic claws are released from the stationary ЪЦ • The end of the refrigerating pipes are at locations chips entering the pipes. marked with 5 T symbol. (The (PUSH) sections are indicated by 2 arrows in the right figure) [Push] mark positions belov •....f HORIZONTAL PIPING Preparation 0.85m Installation
- Change of Drain Hose and Installation Procedures.

of the unit

ge the location of drain hose and drain cap during horizontal piping as shown in

JOR



Procedures to fix the hanger.

1. Drill holes on wall.

(As shown below)

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Hole for pipe

3. Fix the hanger on wall

with 4.1 x 32 screw (As shown in figure below)

above 50mm //////

 Procedures to fix the holder of remote control. 1. Drill holes on wall. 2. Push plug into the holes. (As shown below) (As shown below)

Hanger



Wall Penetration and Installation of Protection Pipe



figure below. Be sure to plug in the drain hose until the insulating material folds upon

• Please use pliers to pull out the drain cap. (This is an easier way to remove the drain cap)

Preparation

Installation

Hange

itself.

Connect connecting cord.

Drain Hos

Cor



Drain hose



- Place the drain hose through the hole on the wall.
- Wrap the refrigerating pipes with insulation pipe after connecting refrigerating pipe.
- Connect the connecting cord after removing electrical cover (Refer to "Connection of Power Cord")
- After adjustment, the connecting cord and refrigerating pipes are placed into the space available under the Indoor unit
- The projection of Indoor unit must hook to the hanger



Projection

 $\langle \exists \rangle$

about 15cm



Insulation And Maintenance Of Pipe Connection

- The connected terminals should be completely sealed with heat insulator and then tied up with rubber strap.
- 2 Installation Of Remote Controller
- The remote controller can be placed in its holder which is fixed on wall or beam.
- To operate the remote controller at its holder, please ensure

How to Remove The Front Cover 1 Remove the front panel.

Please remove and attach the front panel by both hands.

- Please tie the pipe and power line together with vinyl tape as shown in the figure showing the installation of Indoor and 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.

Insulation material for pipe connection



3 Power Source And Operation Test

Power Source

FINAL STAGE OF INSTALLATION

▲ CAUTION

- 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.

that the unit can receive signal transmitted from the controller at the place where the holder is to be fixed. The unit will beep when signal is received from the remote controller. The signal transmission is weaken by the fluorescent light. Therefore, during the installation of the remote control holder, please switch on the light, even during day time, to determine the mounting location of the holder

The controller must be hooked onto the hook at the lower - Screw (2 pieces) part of the holder. Push in the remote controller in the direction as shown Holder for in figure below. Remote Controlle Remote Controlle

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



- (1) Undo the right arm while pushing it inside.
- 2 Slide the front panel to right as shown in figure. Then remove while pulling it to front.
- 3 Open the electrical cover. Disconnect the wire connector.
- 2 Remove the filters.
- 3 After removing two screws, 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 Disconnect the wire connector cover



- 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.
- 3 Tighten the two screws.

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Push to lock the cla

How to Attach the Front Cover

Check that the drain pan is securely attached.

- 4 Connect the wire connector. Close the electrical cover
- 5 Install the filter.
- 6 Slide the shafts of the right and left arms on the washable panel along the steps to insert the shafts into the holes till they stop. After checking that the shafts are securely inserted, close the panel



- · Firmly insert the front panel arms by sliding along the steps located at the main body
- Slide the front panel locking mechanisms (left and right) into the slots located at the main body, until you hear a clicking sound

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