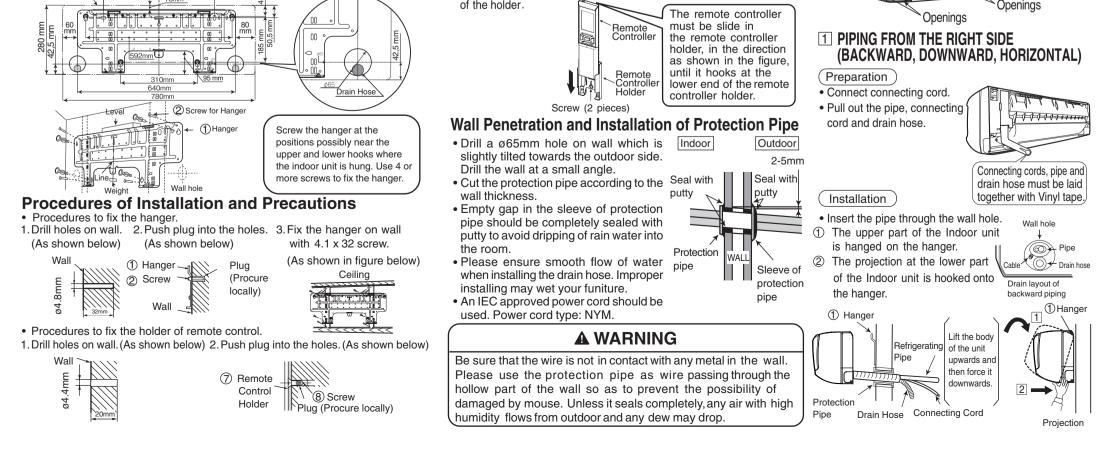
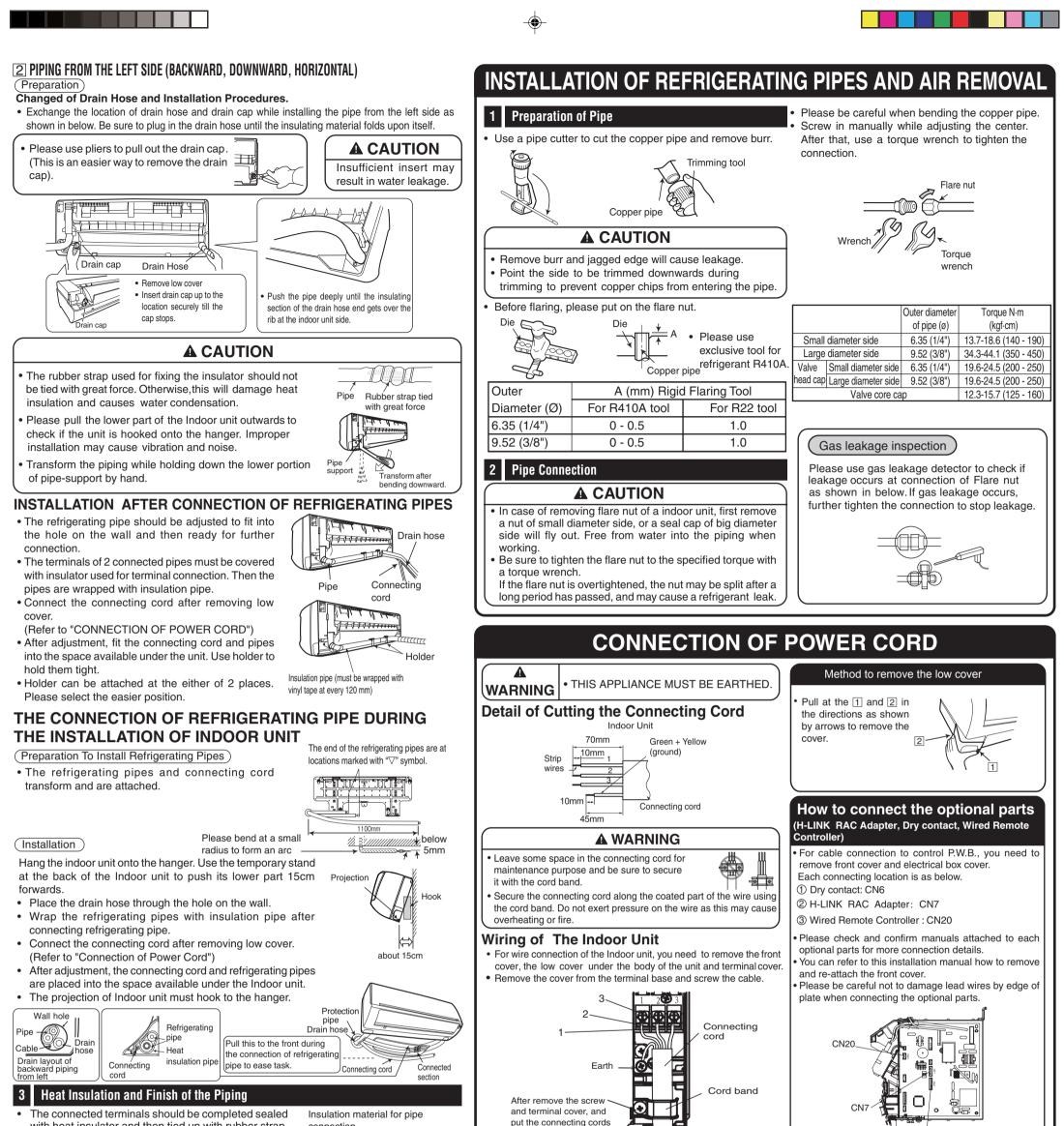
DEN FOR SERVICE PEF	RSONNEL ONLY	
HITACHI INDOOR UNIT INSTALLATION MANUAL	Carefully read through the procedures of proper installation before starting installation work. The sales agent should inform customers regarding the correct operation of installation. Tools Needed For Installation Work Mark is exclusive use tool for R410A) $\oplus \ominus$	 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 if flammable gas leaks around it. Please ensure smooth flow of water when installing the drain hose. Improper installing may wet your funiture.
MODEL RAK-15QPB RAK-18RPB RAK-25RPB	crewdriver • Measuring Tape • Knife•Saw ø65mm PowerDrill •Hexagonal Wrench Key ∑4mm) • Wrench(14,17,19,22mm) ● Gas leakage etector • PipeCutter • Putty • Vinyl Tape • Pliers • lare Tool ● Vacuum Pump Adapter ●Manifold Valve o Charge Hose ● Vacuum Pump	THE CHOICE OF MOUNTING SITE (Please note the following matters and obtain permission from customer before installation.) WARNING • The unit should be mounted at stable, non-vibratory location which can provide
SAFETY PRECAUTION Read the safety precautions carefully before operating the unit.		full support to the unit.
 The contents of this section are vital to ensure safety. Please p WARNING Incorrect methods of installation CAUTION Improper installation may resu Make sure to connect earth line. This sign in the figures indicates prohibition. Be sure that the unit operates in proper condition after installation. Exp the unit as described in the user's guide. Ask a customer to keep this 	ay special attention to the following sign. on may cause death or serious injury. It in serious consequence. plain to customer the proper operation and maintenance of	 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. 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.
 Please request your sales agent or qualified technician to install your un installation work yourself. Please observe the installation stated in the installation manual during water leakage, electric shock and fire. 		Figure showing the Installation of Indoor Unit.
 Make sure that the units are mounted at locations which are able to provide collapse and impose danger. Observe the rules and regulations of the electrical installation and the with the electrical work. Use cables which are approved official in your of fire may occur due to the use of low quality wire or improper work. 	e methods described in the installation manual when dealing country. Be sure to use the specified circuit. A short circuit and	seal any 50mm comments of the seal and the s
 Be sure to use the specified cables for connecting the indoor and outdoor conductors of the wire are inserted into the terminals to prevent the exterminal base. Improper insertion and loose contact may cause over-h Please use the specified components for installation work. Otherwise, for the specified components for installation work. 	ternal force is being applied to the connection section of the eating and fire.	Screw for Hanger
 stronger vibration may occur. Be sure to use the specified piping set for R410A. Otherwise, this may When installing or transferring an air conditioner to another location, m does not enter the refrigeration cycle. If other air should enter, the pres which could result in a rupture and injury. 	ake sure that air other than the specified refrigerant(R410A) sure level of the refrigeration cycle may increase abnormally	Insulation pipe. (if the insulator is insufficient, please use commercial products.) 3 3 2
 Be sure to ventilate fully if a refrigerant gas leak while at work. If the refriorccur. After completion of installation work, check to make sure that there is not support to the sure that there is not support to the sure that there is not support to the support to the supervision of the su		
 room, coming into contact with fire in the fan-driven heater, space heater Unauthorized modifications to the air conditioner may be dangerous. I technician or electrician. Improper repairs may result in water leakage, Be sure to connect the earth line from the power supply wire to the out the outdoor and indoor unit. Do not connect the earth line to the gas tu telephone unit. Improper earthing may cause electric shocks. 	If a breakdown occurs please call a qualified air conditioner , electric shock and fire, etc. tdoor unit and between	Image: Application of Piping Image: Application of Piping Image: Application of Piping Image: Application of Piping
 When finishing the refrigerant collection (pumping down), stop the com If you remove the refrigerant pipe while the compressor is operating an pressure in the freezing cycle system will build up steeply, causing an 	nd the service valve is released, air is sucked and a explosion or injury.	3 Backward piping from left 6 C-case 2 Bemote Controller Holder Bemote Controller Holder
 When installing the unit, be sure to install the refrigerant pipe before st If the refrigerant pipe is not installed and the compressor is operated w pressure level of the refrigeration cycle may increase abnormally which 	vith the service valve released, air is sucked and the	Connection 7 1
 The electric cables should neither be reworked nor added. Make sure to use an exclusive circuit breaker. Otherwise fire or electric shock might occur by connection failure, isola Make sure to connect cables to terminal properly and terminal cover s 	hould close firmly.	There are 6 directions allowed,namely,backward piping, backward piping from left,horizontally piping
Otherwise, over heating at terminal contact, fire or electric shock migh Make sure that there is no dust on any connected points of electric car Otherwise, fire or electric shock might occur.	ht occur.	from right, horizontally piping from left, vertically down from right, vertically down from left.
1 Installation of Hanger , Wall Penetration and Installation of Pro		2 Installation Of The Indoor Unit
CAUTION The draining of the water container inside the Indoor unit can be done for Therefore the hanger must be fixed horizontally or slightly tilted towards drain hose. Otherwise, condensed water may overflow the water contained the beams in the wall to hold the hanger. Visible outline of the data terms of terms	s the side of • To operate the remote controller at its holder	 • 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. • 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

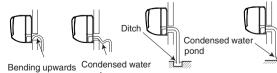


- with heat insulator and then tied up with rubber strap. Do not tie the terminals with the tape too tight.
- If any clearance or over-tightening may cause

connection

- condensation.
- Please tie the pipe and power line together with vinyl tape as shown in the figure showing the installation of Indoor and Outdoor units.
- To enhance 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 of Drain Hose 4

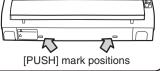


Bending upwards Condensed water pond

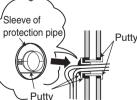
A CAUTION You are free to choose the side (left or right) for the installation of drain hose. Please ensure the smooth flow of condensed water of the Indoor unit during installation. (Careless may result in water leakage.)

HOW TO REMOVE INDOOR UNIT

· 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 in the right figure)



A CAUTION

Be sure that the drain hose is

not loosely connected bend or

proper condition like left figure.

FINAL STAGE OF INSTALLATION

How to remove the front cover

0

1 Remove the front panel

and fix the terminal cover

with screw

 Please remove and attach the front panel by both hands



- · After opening the front panel by both hands. 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. 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 cover.

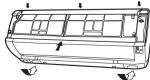


How to Attach the Front Cover

- 1 Check that the drain pan is securely attached.
- 2 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.

CNG

3 Tighten the two screws.



4 Install the filter.

5 Slide the shafts of the right and left arms on the front 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

