

HITACHI INDOOR UNIT INSTALLATION MANUAL

MODEL

- RAK-DJ18PFAE
- RAK-DJ25PFAE
- RAK-DJ35PFAE
- RAK-DJ50PFAE

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.
- CAUTION** Improper methods of installation may cause death or serious injury.
- WARNING** Improper installation may result in serious consequences.

WARNING
This sign in the figures indicates prohibition. Be sure to observe the prohibition. 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.

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. If any signs are observed 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 wiring. Make sure that the electrical wiring is done in accordance with the local regulations. If any signs are observed in the installation manual during the process of installation, improper installation may cause water leakage, electric shock and fire.

Make sure to use the specified cables for connecting the indoor and outdoor units. Please ensure that the connections are tight after the conditions of the wire are inserted into the terminals to prevent the external force being applied to the connection section of the specified wiring set for R32. Otherwise, this may result in broken copper pipes or faults.

When installing or repairing an air conditioner to another location, make sure that all air that has accumulated in the refrigerant piping (R32) which could result in a rupture and injury.

Be sure to ventilate fully in a rupture and injury.

Unauthorized modification of the air conditioner may be dangerous. In a breakdown occurs please call a qualified air conditioner technician or electrician. Improper repairs may result in water leakage, electric shock and fire.

Be sure to connect the earth line from the power supply wire to the outdoor unit and between the indoor and outdoor units. If the gas tube, water pipe, lightning rod or the earth line of the telephone unit, improper earthing 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 vacuum is created. This may cause a fire or explosion.

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.

The electric cables should neither be twisted nor abraded. Isolation failure or over current. Make sure to connect cables to terminal properly and terminal cover should close firmly.

Make sure that the electrical wiring is done in accordance with the local regulations. If any signs are observed in the installation manual during the process of installation, improper installation may cause water leakage, electric shock and fire.

CAUTION
A circuit breaker must be installed in the house distribution box for the direct connected power supply cables to the outdoor unit. Use of other installations shown in below, is liable to trip the main circuit breaker and stop the unit.

CAUTION
Please use pliers to pull out the drain cap. Insufficient insert may result in water leakage.

CAUTION
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 result in water leakage.

CAUTION
The EC approved power cord should be used. Power cord type: NYM.

CAUTION
No nearby heat source and no obstruction near the air outlet is allowed. The location must be convenient for water drainage and pipe connection with the outdoor unit.

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HITACHI OUTDOOR UNIT INSTALLATION MANUAL



SAFETY PRECAUTION

- Read the safety precautions carefully before operating the unit. This appliance is filled with R32.
- The contents of this manual are valid to ensure safety. Please pay special attention to the following sign.
 - ▲ WARNING** Incorrect methods of installation may cause death or serious injury.
 - ▲ CAUTION** Incorrect installation may result in serious consequence.
 - 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.
- Please observe the following precautions for safety:
 - Please use the safety sign as a guide. Do not use the unit until a qualified technician has installed the unit. Water leakage, short circuit or fire may occur if you do the installation work yourself.
 - Please observe the installation data in the installation manual during the process of installation. Improper installation may cause water leakage, electric shock and fire.
 - Please do not install the outdoor unit in locations where it is exposed to direct sunlight, high humidity, or where it is subject to vibration and noise. This may cause the unit to vibrate and generate noise.
 - Please observe the laws 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 if the electrical work is not done properly.
 - 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 wires are inserted into the terminals to prevent the external force is being applied to the connection section of the terminals base. Improper insertion and loose contact may cause over-heating and fire.
 - Please use the specified components for installation work. Otherwise, this may result in broken copper pipes or faults.
 - 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 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. However, recall a R32 unit in case you want to quarantine its lifetime.
 - Never install a R32 unit in contact with life, 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 in contact with fire in the kitchen, heater, space heater, etc., a poisonous gas may occur.
 - Do not use the unit in a location where there is a risk of 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 indoor and outdoor unit. Do not connect the earth line to the gas tube, water pipe, lightning rod or the earth line of the electrical wiring. If you do not connect the earth line to the gas tube, water pipe, lightning rod or the earth line of the electrical wiring, a fire may occur.
 - When installing the refrigerant collection (pumping) stop on the compressor and then remove the coil pan pipe.
 - When removing the refrigerant pipe while the compressor is operating and the service valve is released, air is sucked and the pressure in the freezing cycle system will built up steeply, causing an explosion or injury.
 - When installing the unit, be sure to install the refrigerant pipe before starting the compressor. If the compressor is started and the pressure in the freezing cycle system will built up steeply, causing an explosion or injury.
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 - The electric cables should neither be rewired nor added. Make sure to use an exclusive circuit breaker.
 - Otherwise fire or electric shock might occur by connection failure, insulation failure or over current.
 - Make sure to connect cables to terminals properly and terminal cover should close firmly.
 - Make sure that there is no dust on any connected points of electric cables and fire terminals.
 - Otherwise, fire or electric shock might occur.
 - Please mount the outdoor unit of stable ground to prevent vibration and increase of noise level.
 - Decide the location for piping after sorting out the different types of pipe available.
 - When removing side cover, please pull the handle after undoing the hook by pulling it downward. Reinstall the side cover in the reverse order of the removal.

- Do not touch the suction port, bottom surface or aluminum fin of the outdoor unit. Failure to do so may cause an injury.
- In order to flow condensed water to the drain, the unit is installed on a stand or a block so that the unit is 100mm above the ground as shown figure. Join the drain pipe to one hole.
- After installation, check whether the drain pipe drings to the base firmly.
 - BASE
 - DRAIN PIPE
 - DRAIN HOLE
 - PUSH PIN
 - WASH
 - WASH
- Do not touch the suction port, bottom surface or aluminum fin of the outdoor unit. Failure to do so may cause an injury.
- In order to flow condensed water to the drain, the unit is installed on a stand or a block so that the unit is 100mm above the ground as shown figure. Join the drain pipe to one hole.
- After installation, check whether the drain pipe drings to the base firmly.
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CONDENSED WATER DISPOSAL OF OUTDOOR UNIT

- This is holes on the base of outdoor unit for condensed water to exhaust.
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- A circuit breaker must be installed in the house distribution box for the direct connection of the outdoor unit. The installation of a circuit breaker is mandatory. 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 installation may be your furnace.
 - An NEC approved power cord should be used. Power cord type: NYWL.
- ### THE CHOICE OF MOUNTING SITE
- Please note the following matters and obtain permission from customer before installation.
- The outdoor unit must be mounted at a location which can support heavy weight. Otherwise, noise and vibration will increase.
 - Selecting the installation location: Suitable location that will reduce the impact from rain and direct sun will raise the unit performance.
 - The air blown out of the unit should not land directly on appliances or plants.
 - The clearance of the unit from top left and right and front is specified in figure below. At least three of the above sides must be open air.
 - Do not install at a location where there is flammable gas, steam, oil and smoke.
 - Do not install at a location where there is a risk of electric shock.
 - The location must be convenient for water drainage.
 - The location must be convenient for electrical work. It is best to avoid installing in a location where there is a risk of electric shock and lightning.

Names of Outdoor Components

No.	Item	Qty.
1	Drain Pipe	1
2	Block (RAC-D18PHAE)	2

Figure showing the Installation of Outdoor Unit.

Dimension of Mounting Stand of the Outdoor unit

Names of Outdoor Components

The refrigerating machine, oil, etc., are easily affected by moisture. Use caution to prevent water from entering the unit. The height between the indoor and outdoor unit should be kept below 10m. The distance between the indoor and outdoor unit should be kept below 10m. The distance between the indoor and outdoor unit should be kept below 10m.

- ### Preparation of Pipe
- Use a pipe cutter to cut the copper pipe and remove burr.
-
- ▲ CAUTION
- Remove burr and jagged edge will cause leakage.
 - Point the side to be trimmed downwards during the operation to prevent copper chips from entering the pipe.
- Before flaring, please put on the flare nut.
- ▲ CAUTION
- Be sure to use the correct size of flare nut. Use a torque wrench to tighten the nut. If the flare nut is over-tightened, the nut may be split after a long period has passed, and may cause a refrigerant leak.
 - Please be careful when bending.
 - Screw in manually while adjusting the center. After that, use a torque wrench to tighten the connection.
- Wrench

PIPE CONNECTION

Outer diameter of pipe (Ø) (mm)

Small diameter side 9.52 (3/8") 13.2 (1/2) 15.0 (5/8)

Large diameter side 9.52 (3/8") 13.2 (1/2) 15.0 (5/8)

Flare nut Large diameter side 9.52 (3/8") 13.2 (1/2) 15.0 (5/8)

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Procedures of Wiring

▲ WARNING - THIS APPLIANCE MUST BE EARTHED.

Wiring of the Outdoor Unit

- Leave some space in the connecting cord for maintenance purpose and be sure to secure it with the cord band.
- Secure the connecting cord along the coated part of the wire using the cord band. Do not exert pressure on the wire as this may cause overheating of fire.

Checking for the electric source and the voltage range

- Before installation, the power source must be checked and necessary wiring work must be completed. The safety sign on the label of the outdoor unit and the label of the wiring from house distribution box are to be taken into consideration of the blocked rotor current.

▲ WARNING

- If you cannot attach the side plate due to the connection cord, please press the connecting cord in the direction to the front panel to fix it.
- Be sure that the hooks of the side plate do not fit over it. Otherwise water leakage may occur and this causes short circuit or falls.
- The voltage range of the power source (it becomes high temperature in heating operation).

Detail of Cutting the Connecting Cord

Strip wires 1 2 3 4

Green Yellow

200mm

100mm

100mm

Connecting cord

▲ WARNING

- The naked part of the wire core should be 100mm for LN terminal light. Then try to pull the individual wire to check if the contact is light. Improper insertion may burn the terminal.
- Be sure to use only wire specified for the use of air-conditioner.
- Please refer to the manual for wire connection and the wiring technique should be followed.
- There is an AC voltage drop between the LN terminal if the power is on. Therefore, be sure to remove the plug from its socket.
- When the fuse (F5 or F6) has been blown out by the improper connection of power cable, it can be restored by exchanging the fuse (service part No. NVRAC-02N2 AS2). Please exchange the blown-out fuse after making sure the right connection.

Power Source and Operation Test

What to check

- Make sure that the spindles of both service valves are rotated clockwise for 15 minutes after the operation stop for removal of the protection. For the refrigeration stop, rotate the spindles for 30 minutes (air side).
- Turn off the power supply by pressing the Temporary Switch Button only after waiting for at least 5 minutes or more with a wire or vinyl tie.

▲ CAUTION

- Don't operate for over 5 minutes with the situation that the spindle of the service valve is rotated clockwise for 15 minutes after the operation stop.
- Don't operate by God Mode or by Mode with the door and windows opened (the room humidity is always above 80%) for a long period of time. Water will condense and drip down occasionally.
- Explain to your customer the proper operation procedures as described in the user's manual, check the cable for correct connection, be sure to lock the remote controller and make sure that the remote controller is installed in the room where the indoor unit is installed and check the remote controller for normal operation.

FINAL STEP OF INSTALLATION

Refrigerant

MODEL	Refrigerant	R32 Capacity	W/PV (OZ)
RAC-D18PHAE	R32	16.0	675
RAC-D25PHAE	R32	19.0	830
RAC-D35PHAE	R32	23.0	835
RAC-D50PHAE	R32	25.0	870

Wiring length: Wire cross-section

- up to 6m 1.5mm²
- up to 12m 2.0mm²
- up to 20m 4.0mm²

REMOVAL OF AIR FROM THE PIPE AND GAS LEAKAGE INSPECTION

As shown in right figure, remove the cap of the vacuum pump. Turn the cap clockwise during pumping fully. Tighten the handle.

▲ CAUTION

- Remove burr and jagged edge will cause leakage.
- Point the side to be trimmed downwards during the operation to prevent copper chips from entering the pipe.

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- Explain to your customer the proper operation procedures as described in the user's manual, check the cable for correct connection, be sure to lock the remote controller and make sure that the remote controller is installed in the room where the indoor unit is installed and check the remote controller for normal operation.

REMOVAL OF AIR FROM THE PIPE AND GAS LEAKAGE INSPECTION

As shown in right figure, remove the cap of the vacuum pump. Turn the cap clockwise during pumping fully. Tighten the handle.

▲ CAUTION

- Remove burr and jagged edge will cause leakage.
- Point the side to be trimmed downwards during the operation to prevent copper chips from entering the pipe.

▲ CAUTION

- Don't operate for over 5 minutes with the situation that the spindle of the service valve is rotated clockwise for 15 minutes after the operation stop.
- Don't operate by God Mode or by Mode with the door and windows opened (the room humidity is always above 80%) for a long period of time. Water will condense and drip down occasionally.
- Explain to your customer the proper operation procedures as described in the user's manual, check the cable for correct connection, be sure to lock the remote controller and make sure that the remote controller is installed in the room where the indoor unit is installed and check the remote controller for normal operation.