

INSTALLATION MANUAL AIR CONDITIONER



TYPE : WALL MOUNTED
Original instruction
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* M F L 7 0 5 0 2 3 0 1 *

Rev. : 06(10720)

TIPS FOR SAVING ENERGY

Here are some tips that will help you to minimize the power consumption when you use the air conditioner. You can use your air conditioner more efficiently by referring to the instructions below :

- Do not cool the indoor excessively. This may be harmful for your health and may consume more electricity.
- Block sunlight with blinds or curtains while you are operating the air conditioner.
- Keep doors or windows closed tightly while you are operating the air conditioner.
- Adjust the direction of the air flow vertically or horizontally to circulate indoor air.
- Speed up the fan to cool or warm indoor air quickly.
- Open windows regularly for ventilation as the indoor air quality may deteriorate if the air conditioner is used for many hours.
- Clean the air filter once every 2 weeks. Dust and impurities collected in the Air filter may block the air flow or weaken the cooling / dehumidifying functions.

- Do not disassemble or repair the product randomly.
- It will cause a fire or electrical shock.
- Do not install the product at a place that is concern of falling down.
- Otherwise, it may result in personal injury.
- Use caution when unpacking and installing.
- Sharp edges may cause injury.
- For R410A model, use piping, flare nut and tools which is specified for R410A refrigerant.
- Using of (R22) piping, flare nut and tools may cause abnormally high pressure in the refrigerant cycle(piping), and possibly result in explosion and injury.
- It is desirable that the amount of residual oil less than 40 mg/10 m.
- Do not turn on the breaker or power under condition that front panel, cabinet, top cover, control box cover are removed or opened.
- Otherwise, it may cause fire, electric shock, explosion or death.

OPERATION

- Do not share the outlet with other appliances.
- It will cause an electrical shock or fire due to heat generation.
- Do not use the damaged power cord.
- Otherwise, it may cause a fire or electrical shock.
- Do not modify or extend the power cable.
- Scratches or peeling insulation on the power cables may result in fire or electric shock, and should be replaced.
- Take care so that the power cord may not be pulled during operation.
- Otherwise, it may cause a fire or electrical shock.
- Unplug the unit if strange sounds, smell, or smoke comes from it.
- Otherwise, it may cause a fire or electrical shock.
- Keep the flames away.
- Otherwise, it may cause a fire.
- Take the power plug out if necessary, holding the head of the plug and do not touch it with wet hands.
- Otherwise, it may cause a fire or electrical shock.
- Do not use the power cord near the heating tools.
- Otherwise, it may cause a fire or electrical shock.
- Do not open the suction inlet of the indoor/outdoor unit during operation.
- Otherwise, it may electrical shock and failure.
- Do not allow water to run into electrical parts.
- Otherwise, it may cause the failure of machine or electrical shock.
- Hold the plug by the head when taking it out.
- It may cause electric shock and damage.

For your records

Staple your receipt to this page in case you need it to prove the date of purchase or for warranty purposes. Write the model number and the serial number here:

Model number: _____
 Serial number: _____
 You can find them on a label on the side of each unit.
 Dealer's name: _____
 Date of purchase: _____

IMPORTANT SAFETY INSTRUCTIONS

READ ALL INSTRUCTIONS BEFORE USING THE APPLIANCE.

Always comply with the following precautions to avoid dangerous situation and ensure peak performance of your product.

WARNING

It can result in serious injury or death when the directions are ignored.

CAUTION

It can result in minor injury or product damage when the directions are ignored.

WARNING

- Installation or repairs made by unqualified persons can result in hazards to you and others.
- The appliance shall be installed in accordance with national wiring regulations.
- The information contained in the manual is intended for use qualified service technician familiar with safety procedures and equipped with the proper tools and test instruments.
- Means for disconnection must be incorporated in the fixed wiring in accordance with the wiring rules.
- Failure to carefully read and follow all instructions in this manual can result in equipment malfunction, property damage, personal injury and/or death.
- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
- Children should be supervised to ensure that they do not play with the appliance.
- If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified person in order to avoid a hazard.
- This appliance must be grounded. In the event of malfunction or breakdown, grounding will reduce the risk of electric shock by providing a path of least resistance for electric current.
- This appliance incorporates an earth connection for functional purposes only.

INSTALLATION

- Always perform grounding.
- Otherwise, it may cause electrical shock.
- Don't use a power cord, a plug or a loose socket which is damaged.
- Otherwise, it may cause a fire or electrical shock.
- For installation of the product, always contact the service center or a professional installation agency.
- Otherwise, it may cause a fire, electrical shock, explosion or injury.
- Securely attach the electrical part cover to the indoor unit and the service panel to the outdoor unit.
- If the electrical part cover of the indoor unit and the service panel of the outdoor unit are not attached securely, it could result in fire or electric shock due to dust, water, etc.
- Always install an air leakage breaker and a dedicated switching board.
- No installation may cause a fire and electrical shock.
- Do not keep or use flammable gases or combustibles near the air conditioner.
- Otherwise, it may cause a fire and electrical shock.
- Ensure that an installation frame of the outdoor unit is not damaged due to use for a long time.
- It may cause injury or an accident.

- Never touch the metal parts of the unit when removing the filter.
- They are sharp and may cause injury.
- Do not step on the indoor/outdoor unit and do not put anything on it.
- It may cause an injury through dropping of the unit or falling down.
- Do not place a heavy object on the power cord.
- Otherwise, it may cause a fire or electrical shock.

CAUTION

INSTALLATION

- Install the drain hose to ensure that drain can be securely done.
- Otherwise, it may cause water leakage.
- Install the product so that the noise or hot wind from the outdoor unit may not cause any damage to the neighbors.
- Otherwise, it may cause dispute with the neighbors.
- Always inspect gas leakage after the installation and repair of product.
- Otherwise, it may cause the failure of product.
- Keep level parallel in installing the product.
- Otherwise, it may cause vibration or water leakage.
- Do not install the unit in potentially explosive atmospheres.

OPERATION

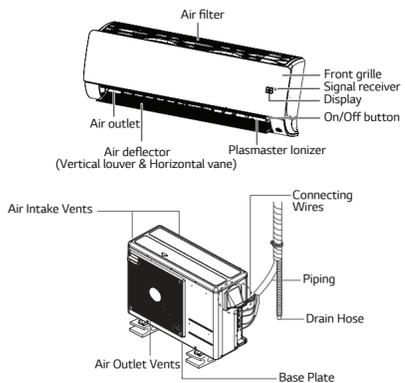
- Avoid excessive cooling and perform ventilation sometimes.
- Otherwise, it may do harm to your health.
- Use a soft cloth to clean. Do not use wax, thinner, or a strong detergent.
- The appearance of the air conditioner may deteriorate, change color, or develop surface flaws.
- Do not use an appliance for special purposes such as preserving animals, vegetables, precision machine, or art articles.
- Otherwise, it may damage your properties.
- Do not place obstacles around the flow inlet or outlet.
- Otherwise, it may cause the failure of appliance or an accident.

INTRODUCTION

Symbols used in this Manual

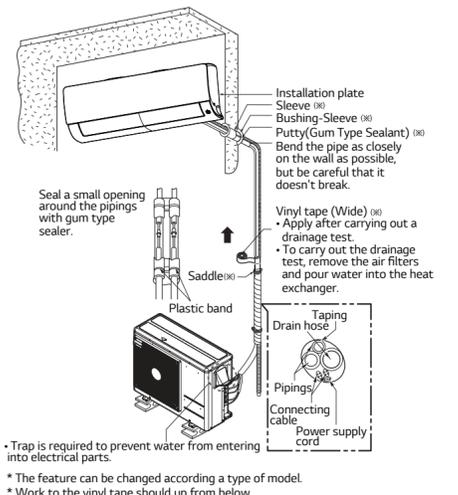
- ⚠ This symbol alerts you to the risk of electric shock.
- ⚠ This symbol alerts you to hazards that may cause harm to the air conditioner.
- 📌 This symbol indicates special notes.

Features



* The feature can be changed according to type of model.

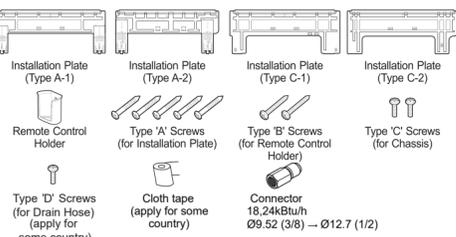
INSTALLATION MAP



- Trap is required to prevent water from entering into electrical parts.
- * The feature can be changed according a type of model.
- * Work to the vinyl tape should up from below.

NOTE: You should purchase the installation parts. (It can be changed according to market)

INSTALLATION PARTS



Screws for fixing panels are attached to decoration panel. When Indoor unit (18,24kbtu/h) is connected to the Multi Outdoor unit, use the connector.

INSTALLATION TOOLS



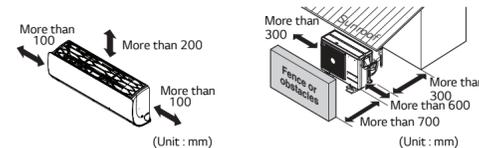
INSTALLATION

Select the best Location

- There should not be any heat or steam near the unit.
- Select a place where there are no obstacles around the unit.
- Make sure that condensation drainage can be conveniently routed away.
- Do not install near a doorway.
- Ensure that the gap between a wall and the left (or right) of the unit is more than 100 mm. The unit should be installed as high as possible on the wall, allowing a minimum of 200 mm from ceiling.
- Use a metal detector to locate studs to prevent unnecessary damage to the wall.

Outdoor unit

- Fan awning is built over the unit to prevent direct sunlight or rain exposure, make sure that heat radiation from the condenser is not restricted.
- Ensure that the space around the back side and other sides is more than 300 mm. The space in front of the unit should be more than 700 mm.
- Do not place animals and plants in the path of the warm air.
- Take the weight of the air conditioner into account and select a place where noise and vibration are minimum.
- Select a place where the warm air and noise from the air conditioner do not disturb neighbors.



* The feature can be changed according to type of model.

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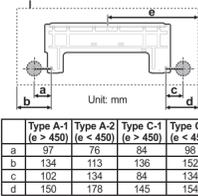
NOTE: The gap between the indoor unit and ceiling is needed more than 200 mm for disassemble the air filter.

Fixing Installation Plate

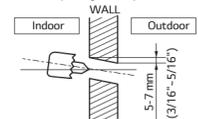
To securely fasten the indoor unit, fix the installation plate onto a wall that can withstand the weight of the indoor unit.

- 1 Separate the installation plate equipped on the back of the indoor unit.
- 2 Confirm the location where you will place the installation plate.
 - Choose a strong and hard wall that can withstand the weight of the indoor unit.
- 3 Securely fix the installation plate onto the wall with type 'A' screw.
 - Tighten a screw into the center hole (O) of the installation plate.
 - Ensure the installation plate is horizontal using a spirit level.
 - Tighten the remaining screws into the holes indicated by the arrow on the installation plate.

Framework of Indoor Unit



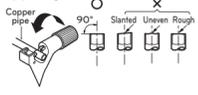
- 2 Make a hole in the wall by Ø 65 mm hole core drill.
 - To facilitate drainage flow, drill the hole at an oblique angle from the inside going outside. (The inclination of the hole could be different depending on the specific conditions.)



Flaring Work

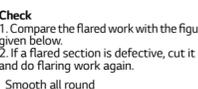
Main cause for gas leakage is due to defect of flaring work. Carry out correct flaring work in the following procedure.

- 1 Use the piping kit accessory or the pipes purchased locally.
- 2 Measure the distance between the indoor and the outdoor unit.
- 3 Cut the pipes a little longer than measured distance.
- 4 Cut the cable 1.5 m longer than the pipe length.



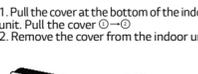
Cut the pipes and the cable

- 1 Completely remove all burrs from the cut cross section of pipe/tube.
- 2 While removing the burrs, hold the end of the pipe in downward direction in order to avoid dropping burrs into the tubing.



Putting nut on

Remove flare nuts attached to indoor and outdoor units, then put them on the pipe/tube which have completed its burr removal. (Not possible to put them on after finish flare work)



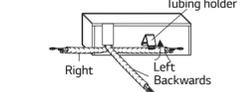
Flaring work

- 1 Firmly hold copper pipe in a bar with the dimension shown in table below.
- 2 Carry out flaring work with the flaring tool.

Pipe diameter (inch (mm))	A Inch (mm)	Clutch type	Thickness (inch (mm))
Ø 1/4 (Ø 6.35)	0.04-0.05 (1.1-1.3)		0.03 (0.7)
Ø 3/8 (Ø 9.52)	0.06-0.07 (1.5-1.7)	0-0.02	0.03 (0.8)
Ø 1/2 (Ø 12.7)	0.06-0.07 (1.6-1.8)	0-0.05	0.03 (0.8)
Ø 5/8 (Ø 15.88)	0.06-0.07 (1.6-1.8)		0.04 (1.0)
Ø 3/4 (Ø 19.05)	0.07-0.08 (1.9-2.1)		0.04 (1.0)

- * The feature can be changed according to the type of model.
- 1. Pull the cover at the bottom of the indoor unit. Pull the cover (O) (O).
- 2. Remove the cover from the indoor unit.
- 3. Pull back the tubing holder.
- 4. Remove the pipe port cover and position the piping.

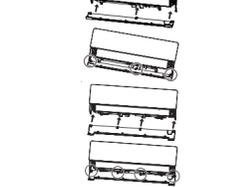
Indoor unit back side view



* The feature can be changed according to the type of model.

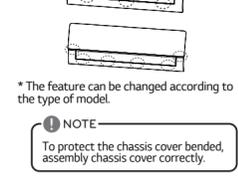
Assembly of chassis cover

1. Insert 3 or 4 hooks of the chassis cover into gap of the chassis certainly.



* The feature can be changed according to the type of model.

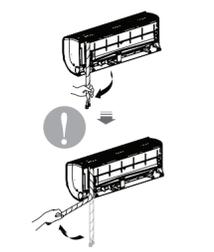
2. Push the 5 or 6 point hook to assemble chassis cover. Push the chassis cover



NOTE: To protect the chassis cover bended, assembly chassis cover correctly.

Good case

1. Press on the tubing cover and unfold the tubing to downward slowly. And then bend to the left side slowly.



* The feature can be changed according to the type of model.

Bad case

1. Following bending case from right to left directly may cause damage to the tubing.



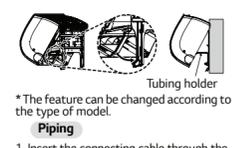
NOTE: Installation Information. For right piping. Follow the instruction above.

Installation of Indoor Unit

1. Hook the indoor unit onto the upper portion of the installation plate (engage the three hooks at the top of the indoor unit with the upper edge of the installation plate) Ensure that the hooks are properly seated on the installation plate by moving it left and right.



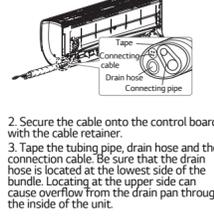
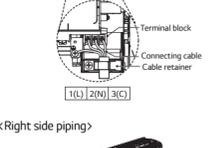
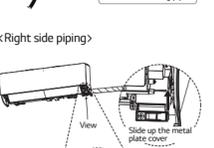
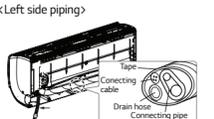
2. Unlock the tubing holder from the chassis and mount between the chassis and installation plate in order to separate the bottom side of the indoor unit from the wall.



* The feature can be changed according to the type of model.

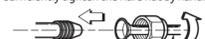
Piping

1. Insert the connecting cable through the bottom side of indoor unit and connect the cable (You can see detail contents in 'Connecting the cables' section)
2. Secure the cable onto the control board with the cable retainer.
3. Tape the tubing pipe, drain hose and the connection cable. Be sure that the drain hose is located at the lowest side of the bundle. Locating at the upper side can cause overflow from the drain pan through the inside of the unit.



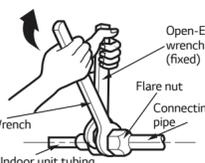
Connecting the installation pipe and drain hose to the indoor unit.

1. Align the center of the pipes and sufficiently tighten the flare nut by hand.



2. Tighten the flare nut with a wrench.

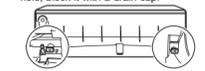
Outside diameter	Torque	
	mm	inch
Ø6.35	1/4	180-250
Ø9.52	3/8	340-420
Ø12.7	1/2	550-660
Ø15.88	5/8	630-820



Connecting the Drain Hose

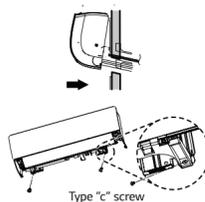
1. Remove the drain cap where you are going to connect the drain hose.

• If you do not use the other drain hose hole, block it with a drain cap.



Finishing the indoor unit installation

- Mount the tubing holder in the original position.
- Ensure that the hooks are properly seated on the installation plate by moving it left and right.
- Press the lower left and right sides of the unit against the installation plate until the hooks engage into their slots (clicking sound).
- Finish the assembly by screwing the unit to the installation plate by using two pieces of type "C" screws. And assemble a chassis cover.
- Reconnect the chassis cover in Original place.

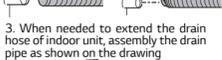


*The feature can be changed according to a type of model.

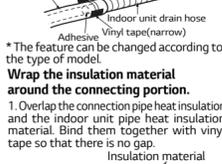
CAUTION
The indoor unit can be dropped from the wall, the indoor unit is not screwed correct position on the install plate. To avoid the gap between the indoor unit and wall, screw the indoor unit to the install plate correctly.

2. Insert the drain hose.

Type 1 Type 2



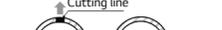
3. When needed to extend the drain hose of indoor unit, assembly the drain pipe as shown on the drawing



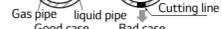
*The feature can be changed according to the type of model.

Wrap the insulation material around the connecting portion.

1. Overlap the connection pipe heat insulation and the indoor unit pipe heat insulation material. Bind them together with vinyl tape so that there is no gap.

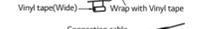


2. Set the tubing cutting line upward. Wrap the area which accommodates the rear piping housing section with vinyl tape.



*Tubing cutting line have to be upward

3. Wrap the area which accommodates the rear piping housing section with vinyl tape.

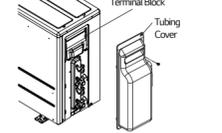


*The feature can be changed according to the type of model.

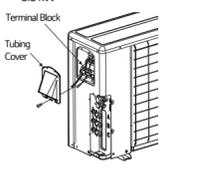
Connecting the pipes outdoor

1. Remove the tubing cover from the unit by loosening the screw.

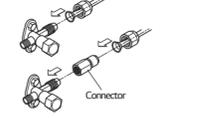
•5.3/7.0kW



•8.8kW



2. Align the center of the piping and sufficiently tighten the flare nut by hand.



4. Bundle the piping and drain hose together by wrapping them with vinyl tape sufficient enough to cover where they fit into the rear piping housing section.

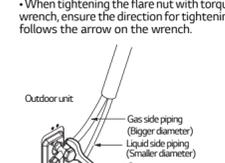


*Wrap the piping of the indoor unit that is visible from the outside with vinyl tape

*When indoor unit is connected to the Multi Outdoor unit, use the connector shown above.

3. Finally, tighten the flare nut with torque wrench until the wrench clicks.

*When tightening the flare nut with torque wrench, ensure the direction for tightening follows the arrow on the wrench.

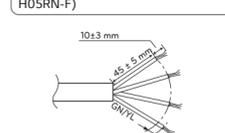


*The feature can be changed according to the type of model.

Outside diameter	Torque	
	mm	inch
Ø6.35	1/4	180-250
Ø9.52	3/8	340-420
Ø12.7	1/2	550-660
Ø15.88	5/8	630-820

NOTE

The power cord connected to unit should be selected according to the following national wiring regulations. The supply cords of parts of appliances for outdoor use shall not be lighter than polychloroprene sheathed flexible cord. (code designation 60245 IEC 57, H05RN-F)



(mm²)

NOMINAL CROSS SECTIONAL AREA

Grade 7,9,12,18,24kBTu/h

0.75

The power connecting cable with indoor and outdoor unit should be selected according to the following national wiring regulations.

The supply cords of parts of appliances for outdoor use shall not be lighter than polychloroprene sheathed flexible cord. (code designation 60245 IEC 57, H05RN-F)

- Connect the wires to the terminals on the control board individually.

- Secure the cable onto the control board with the cord clamp.

*Pipes and wires should be purchased separately for installation of the product.

Connecting the Cables Indoor unit

Connect the cable to the indoor unit by connecting the wires to the terminals on the control board individually according to the outdoor unit connection. (Ensure that the color of the wires of the outdoor unit and the terminal No. are the same as those of the indoor unit.)

Insert the connecting cable through the bottom side of indoor unit and connect the cable.

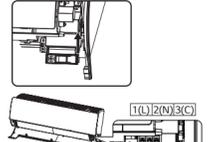
(1) Open the Decor

(2) Unscrew the screw of C/Box

(3) Slide up the Metal Plate Cover

(4) Connect the connecting cable

(5) After complete connect the cables, should assemble the Metal Plate Cover by screw.



*The feature can be changed according to a type of model.

CAUTION

The circuit diagram is a subject to change without notice.

- The earth wire should be longer than the common wires.

- When installing, refer to the circuit diagram on the chassis cover.

- Connect the wires firmly so that they may not be pulled out easily.

- Connect the wires according to color codes, referring to the wiring diagram.

Use round pressure terminals for connections to the power terminal block.



CAUTION

According to the confirmation of the above conditions, prepare the wiring as follows.

1. Never fail to have an individual power circuit specifically for the air conditioner. As for the method of wiring, be guided by the circuit diagram posted on the inside of control cover.

2. The screw which fastens the wiring in the casing of electrical fittings are liable to become loose from vibrations to which the unit is subjected during the transportation. Check them and make sure that they are all tightly fastened. (If they are loose, it could cause burn-out of the wires.)

3. Specification of power source.

4. Confirm that electrical capacity is sufficient.

5. See that the starting voltage is maintained at more than 90 percent of the rated voltage marked on the name plate.

6. Confirm that the cable thickness is a specified in the power source specification. (Particularly note the relation between cable length and thickness.)

7. Always install an earth leakage circuit breaker in a wet or moist area.

8. The following would be caused by voltage drop.

- Vibration of a magnetic switch, which will damage the contact point, fuse breaking, disturbance of the normal function of the overload.

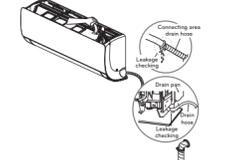
9. The means for disconnection from a power supply shall be incorporated in the fixed wiring and have an air gap contact separation of at least 3 mm in each active(phase) conductors.

10. Remember that when installing the connection wires. (For Inverter model only)

Checking the Drainage

1. Pour a glass of water on the evaporator.

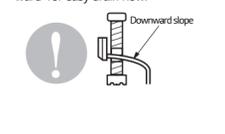
2. Ensure the water flows through the drain hose of the indoor unit without any leakage and goes out the drain exit.



*The feature can be changed according to a type of model.

Drain piping

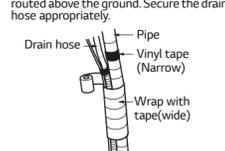
1. The drain hose should point downward for easy drain flow.



Forming the Piping

Form the piping by wrapping the connecting portion of the indoor unit with insulation material and secure it with two kinds of vinyl tapes.

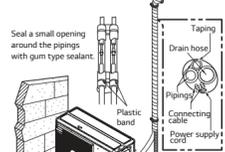
- If you want to connect an additional drain hose, the end of the drain outlet should be routed above the ground. Secure the drain hose appropriately.



In cases, where the outdoor unit is installed below the indoor unit, perform the following.

1. Tape the piping, drain hose and connecting cable from down to up.

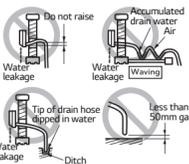
2. Secure the taped piping along the exterior wall using saddle or equivalent.



*Trap is required to prevent water from entering into electrical parts.

*The feature can be changed according to a type of model.

2. Do not make drain piping like the following.



*The feature can be changed according to a type of model.

NOTE

Be sure to use a manifold valve for air purging. If it is not available, use a stop valve for this purpose. The knob of the 3-way valve must always be kept close.

- Pressurize the system to maximum 17.6 kg/cm²G (R22 model) or 28.1 kg/cm²G (R410A model) with dry nitrogen gas and close the cylinder valve when the gauge reading reaches 17.6 kg/cm²G (R22 model) or 28.1 kg/cm²G (R410A model). Next step is leak test with liquid soap.

- After the system is found to be free of leaks, relieve the nitrogen pressure by loosening the charge hose connector at the nitrogen cylinder. When the system pressure is reduced to normal, disconnect the hose from the cylinder.

CAUTION

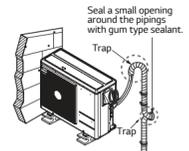
To avoid nitrogen entering the refrigerant system in a liquid state, the top of the cylinder must be higher than its bottom when you pressurize the system. Usually, the cylinder is used in a vertical standing position.

In case, where the outdoor unit is installed above the indoor unit, perform the following.

1. Tape the piping and connecting cable from down to up.

2. Secure the taped piping along the exterior wall. Form a trap to prevent water entering the room.

3. Fix the piping onto the wall using saddle or equivalent.



The air and moisture remaining in the refrigerant system have undesirable effects as indicated below.

- Pressure in the system rises.

- Operating current rises.

- Cooling (or heating) efficiency drops.

- Moisture in the refrigerant circuit may freeze and block capillary tubing.

- Water may lead to corrosion of parts in the refrigeration system.

Therefore, after evacuating the system, take a leak test for the piping and tubing between the indoor and outdoor unit.

Air purging with vacuum pump

- Preparation

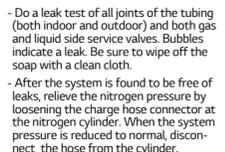
Check that each tube (both liquid and gas side tubes) between the indoor and outdoor units have been properly connected and all wiring for the test run has been completed. Remove the service valve caps from both the gas and the liquid side on the outdoor unit. Note that both the liquid and the gas side service valves on the outdoor unit are kept closed at this stage.

WARNING

There is a risk of fire and explosion. Inert gas (nitrogen) should be used when you check plumbing leaks, cleaning or repairs of pipes etc. If you are using combustible gases including oxygen, product may have the risk of fires and explosions.

- Do a leak test of all joints of the tubing (both indoor and outdoor) and both gas and liquid side service valves. Bubbles indicate a leak. Be sure to wipe off the soap with a clean cloth.

- After the system is found to be free of leaks, relieve the nitrogen pressure by loosening the charge hose connector at the nitrogen cylinder. When the system pressure is reduced to normal, disconnect the hose from the cylinder.



- Connect the charge hose end described in the preceding steps to the vacuum pump to evacuate the tubing and indoor unit. Confirm the "Lo" knob of the pressure Gauge is open. Then, run the vacuum pump. The operation time for evacuation varies with tubing length and capacity of the pump. The following table shows the time required for evacuation.

Required time for Evacuation when 30 gal/h vacuum pump is used	
If tubing length is less than 10 m (33 ft)	If tubing length is longer than 10 m (33 ft)
10 min. or more	15 min. or more

- When the desired vacuum is reached, close the knob of the 3-way valve and stop the vacuum pump.

Finishing the Job

- With a service valve wrench, turn the valve of liquid side counter-clockwise to fully open the valve

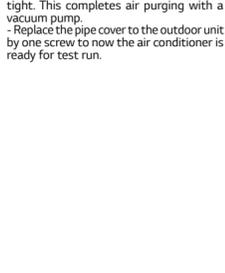
- Turn the valve of gas side counter clockwise to fully open the valve

- Loosen the charge hose connected to the gas side service port slightly to release the pressure, and then remove the hose.

- Replace the flare nut and its bonnet on the gas side service port and fasten the flare nut securely with an adjustable wrench. This process is very important to prevent leakage from the system.

- Replace the valve caps at both gas and liquid side service valves and fasten them tight. This completes air purging with a vacuum pump.

- Replace the pipe cover to the outdoor unit by one screw to now the air conditioner is ready for test run.



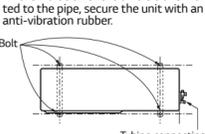
*The feature can be changed according to a type of model.

Settlement of outdoor unit

- Fix the outdoor unit with a bolt and nut (Ø10mm) tightly and horizontally on a concrete or rigid mount.

- When installing on the wall, roof or rooftop, anchor the mounting base securely with a nail or wire assuming the influence of wind and earthquake.

- If the vibration of the unit is transmitted to the pipe, secure the unit with an anti-vibration rubber.



Evaluation of the performance

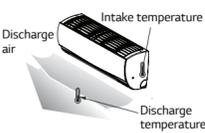
Operate the unit for 15-20 minutes, then check the system refrigerant charge.

- Measure the pressure of the gas side service valve.

- Measure the air temperature from inlet and outlet of air conditioner.

- Ensure the difference between the inlet and outlet temperature is more than 8 °C.

- For reference; the gas side pressure at optimum condition is shown on table (cooling)



*The feature can be changed according to a type of model.

Pump Down Procedure

- Connect a low-pressure gauge manifold hose to the charge port on the gas side service valve.

- Open the gas side service valve halfway and purge the air in the manifold hose using the refrigerant.

- Close the liquid side service valve (all the way).

- Turn on the unit's operating switch and start the cooling operation.

- When the low-pressure gauge reading becomes 1 to 0.5 kg/cm² G (14.2 to 7.1 PS.I.G.), Fully close the gas side valve and then quickly turn off the unit. Now pump down procedure is completed, and all refrigerant is collected into the outdoor unit.

Test running

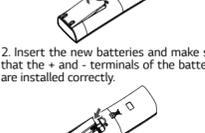
- Check that all tubing and wiring are properly connected.

- Check that the gas and liquid side service valves are fully open.

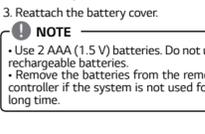
PREPARE REMOTE CONTROLLER

Insert batteries before using the remote control. The battery type used is AAA (1.5 V).

1. Remove the battery cover.



2. Insert the new batteries and make sure that the + and - terminals of the batteries are installed correctly.



3. Reattach the battery cover.

NOTE

- Use 2 AAA (1.5 V) batteries. Do not use rechargeable batteries.

- Remove the batteries from the remote controller if the system is not used for a long time.

Test operation



- If you press and hold the On/Off button for 3-5 seconds instead of 6 seconds, the unit will switch to the test operation.

- In the test operation, the unit blows out strong air for cooling for 18 minutes and then returns to the factory default settings.

Manual the Decor, Air Filter Assembly & Disassembly

Disassemble the decor

1. Turn off the power and unplug the power cord.

2. Pull the decor at the bottom of the indoor unit.



Assemble the decor

1. Turn off the power and unplug the power cord.

2. Insert 3 or 4 hooks of the decor into gap of the indoor unit certainly.



3. Push the nooks to assemble the decor.



CAUTION

The air filter can be broken when it is bended.

Disassemble the air filter

1. Turn off the power and unplug the power cord.

2. Hold the knob of the air filter. Lift it up slightly.



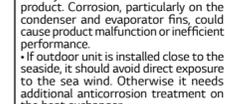
Installation guide at the seaside

CAUTION

- Air conditioners should not be installed in areas where corrosive gases, such as acid or alkaline gas, are produced.

- Do not install the product where it could be exposed to sea wind (salty wind) directly. It can result corrosion on the product. Corrosion, particularly on the condenser and evaporator fins, could cause product malfunction or inefficient performance.

- If outdoor unit is installed close to the seaside, it should avoid direct exposure to the sea wind. Otherwise it needs additional anticorrosion treatment on the heat exchanger.



SELECTING THE LOCATION (OUTDOOR UNIT)

If the outdoor unit is to be installed close to the seaside, direct exposure to the sea wind should be avoided. Install the outdoor unit on the opposite side of the sea wind direction.

