

This manual is produced for a group of products and may contain images or content different from the model you purchased.

This manual is subject to revision by the manufacturer.

IMPORTANT SAFETY INSTRUCTIONS

The following symbols are displayed on indoor and outdoor units.

[]i	Read the precautions in this manual carefully before operating the unit.		This appliance is filled with flammable refrigerant (R32)
	This symbol indicates that the Operation Manual should be read carefully.	Æ)	This symbol indicates that a service personnel should be handling this equipment with reference to the Installation Manual.

READ ALL INSTRUCTIONS BEFORE USING THE APPLIANCE. Always comply with the following precautions to avoid dangerous situations and ensure peak performance of your product

A 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

M WARNING

- Installation or repairs made by unqualified persons can result in hazards to you and others.
- Installation MUST conform with local building codes or, in the absence of local codes, with the Nation Electrical Code NFPA 70/ANSI C1-1003 or current edition and Canadian Electrical Code Part1 CSA C.22.1.
- The information contained in the manual is intended for use by a qualified service technician familiar with safety procedures and equipped with the proper tools and test instruments.
- Failure to carefully read and follow all instructions in this manual can result in equipment malfunction, property damage, personal injury and/or death.
- Compliance with national gas regulations shall be observed.

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 a 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
- Otherwise, it may cause a fire or the failure of product.
- 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.
- 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 there is concern of falling down.
- Otherwise, it may result in personal injury.
- Use caution when unpacking and installing. Sharp edges may cause
- The appliance shall be stored in a room without continuously operating ignition sources
- (for example: open flames, an operating gas appliance or an operating
- Two or more people must lift and transport the product. Avoid personal injury.
- Do not use means to accelerate the defrosting process or to clean, other than those recommended by the manufacturer.
- Do not pierce or burn refrigerant cycle part.
- Be aware that refrigerants may not contain an odour.
- Keep any required ventilation openings clear of obstruction.
- The appliance shall be stored in a well-ventilated area where the room
- size corresponds to the room area as specified for operation. • Refrigerant tubing shall be protected or enclosed to avoid damage.
- Flexible refrigerant connectors (such as connecting lines between the indoor and outdoor unit) that may be displaced during normal operations shall be protected against mechanical damage.
- A brazed, welded, or mechanical connection shall be made before opening the valves to permit refrigerant to flow between the refrigerating system parts.
- Mechanical connections shall be accessible for maintenance purposes.

Operation

- Do not share the outlet with other appliances. It will cause an electric shock or a 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 cord randomly. - Otherwise, it may cause a fire or electrical shock.

- 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 electrical shock or a fire.
- · Keep the flames away.

ENGLISH

LG

- 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 and 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.
- 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.
- When the product is submerged into water, always contact the
- service center. - Otherwise, it may cause a fire or electrical shock.
- Take care so that children may not step on the outdoor unit.
- Otherwise, children may be seriously injured due to falling down. · Use a vacuum pump or inert (nitrogen) gas when doing leakage test or air purge. Do not compress air or oxygen, and do not use flammable
- Otherwise, it may cause fire or explosion. There is the risk of death. injury, fire or explosion.
- 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.
- Turn off all devices that cause fire when the refrigerant leaks., ventilate the room (example : opening window or using ventilation unit), and contact with dealer who you purchased the unit.
- The installation of pipe-work shall be kept to a minimum.
- When mechanical connectors are reused indoors, sealing parts shall be renewed.(for R32)
- When flared joints are reused indoors, the flare part shall be refabricated.(for R32)

/!\ 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 das 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. Any person who is involved with working on or breaking into a refrigerant circuit should hold a current valid certificate from an
- industry-accredited assessment authority, which authorises their competence to handle refrigerants safely in accordance with an industry recognised assessment specification. (for R32)
- Wear adequate personal protection equipment (PPE) when installing, maintaining or servicing the product.

Operation

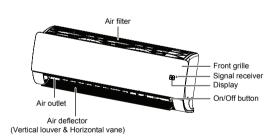
- Avoid excessive cooling and perform ventilation sometimes. - Otherwise, it may do harm to your health.
- Use a soft cloth to clean. Do not use wax, thinner, or a strong detergent. - The appearance of the air conditioner may deteriorate, change color, or develop surface flaws.
- Do not use an appliance 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.
- The appliance shall be stored so as to prevent mechanical damage from occurring.
- Servicing shall only be performed as recommended by the equipment manufacturer. Maintenance and repair requiring the assistance of other skilled personnel shall be carried out under the supervision of the person competent in the use of flammable refrigerants. (for R32)
- Dismantling the unit, treatment of the refrigerant oil and eventual parts should be done in accordance with local and national standards.
- Periodic (more than once/year) cleaning of the dust or salt particles stuck on the heat exchanger by using water.
- Means for disconnection must be incorporated in the fixed wiring in accordance with the wiring rules

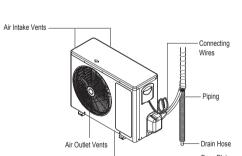
INTRODUCTION

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.

 $\emptyset 9.52 (3/8) \rightarrow \emptyset 12.7 (1/2)$

 $\emptyset 9.52 (3/8) \rightarrow \emptyset 12.7 (1/2)$

 $\emptyset15.88 (5/8) \rightarrow \emptyset12.7 (1/2)$

Figure

Gas-leak detector

Flaring tool set

11111

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

INSTALLATION PARTS Quantity

5 EA

2 EA

2 EA

1 EA

1 EA

1 EA (SK)

INSTALLATION TOOLS

Electric drill

Hole core drill

Torque wrench

Screws for fixing panels are attached to decoration panel.

When Indoor unit (18 kBtu/h /24 kBtu/h) is connected to the Multi Outdoor unit, use the connector.

Type "A" screw

Type "B" screw

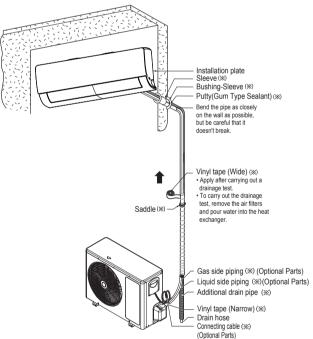
Remote contro

Cloth tape

Figure

OF TE

INSTALLATION MAP



* 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

Select the best Location

There should not be any heat or steam near Select a place where there are no obstacles - Make sure that condensation drainage can be conveniently routed away. - Do not install near a doorway

- Ensure that the interval between a wall and that 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 pre-

The feature can be changed according to - NOTE -

The gap between the indoor unit and ceil-

Outdoor unit

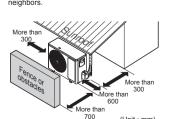
vibration are minimum.

- If an awning is built over the unit to prevent direct sunlight or rain exposure, make sure that heat radiation from the condenser is not - Ensure that the space around the back and

sides is more than 300 mm. The space in front of the unit should be more than 700 mm of space. - Do not place animals and plants in the path of - Take the weight of the air conditioner into account and select a place where noise and

- Select a place where the warm air and noise

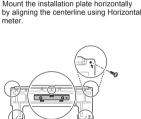
from the air conditioner do not disturb



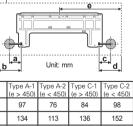
* The feature can be changed according to

Fixing Installation Plate

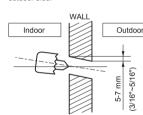
The wall you select should be strong and solid 1 Mount the installation plate on the wal with type "A" screws. If mounting the unit on a concrete wall, use anchor bolts Mount the installation plate horizontally



2 Measure the wall and mark the centerline. ing the location of the installation plate Routing of the wiring to power outlets is through the walls typically. Drilling the hole through the wall for piping connections must be done safely.

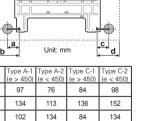


Drill a Hole in the Wall - Drill the piping hole with a ø65 mm hole core



Flaring Work Main cause for gas leakage is due to defect of flaring work. Carry out correct flaring work in

Cut the pipes and the cable 1 Use the piping kit accessory or the pipes Measure the distance between the indoor



and the outdoor unit 4 Cut the cable 1.5 m longer than the pipe 0 **T**

134 NOTE: 178 To protect the chassis cover bended.

Burrs removal

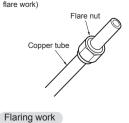
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Completely remove all burrs from the cut cross section of pipe/tube.

 While removing burrs put the end of the copper tube/pipe in a downward direction while removing burrs location is also changed in order to avoid dropping burrs



Putting nut on - Remove flare nuts attached to indoor and outdoor unit, then put them on pipe/tube not possible to put them on after finishing



1 Firmly hold copper pipe in a bar with the

2 Carry out flaring work with the flaring tool

Outside diameter A Thickness Ø6.35 1/4 1.1~1.3 0.7 Ø9.52 3/8 1.5~1.7 0.8 Ø12.7 1/2 1.6~1.8 0.8 Ø15.88 5/8 1.6~1.8 1.0

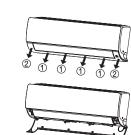
Check 1 Compare the flared work with the figure

2 If a flared section is defective, cut it off and do flaring work again



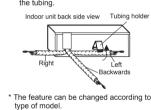
Connecting the Piping 1 Pull the cover at the bottom of the indoor unit. Pull the cover $1 \rightarrow 2$.

2 Remove the cover from the indoor unit



3 Pull back the tubing holder 4 Remove pipe port cover and positioning

2



Assembly of chassis cover 1 Insert 4 hooks of the chassis cover into



2 Push the 6 point hook to assemble chassis



Press on the tubing cover and unfold the

* The feature can be changed according to

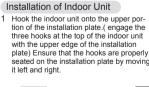
Following bending case from right to left

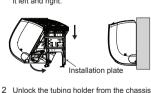
to the left side slowly

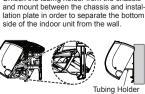
type of model

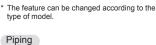
Bad case

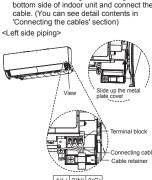
The feature can be changed according to







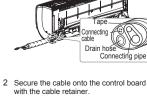




<Right side piping



<Right side piping 1 Insert the connecting cable through the



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

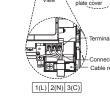


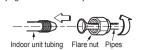






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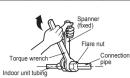




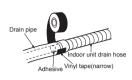
* When Indoor unit(18/24 kBtu/h) is connected to the Multi Outdoor unit, use the connector.

•	2 righten	the flare hui	with a wrer	icn
	Outside D	Diameter	Tord	que
	mm	inch	kgf.cm	N⋅m

Outside Diameter		Torque	
mm	inch	kgf ⋅cm	N⋅m
Ø6.35	1/4	180~250	17.6~24.5
Ø9.52	3/8	340~420	33.3~41.2
Ø12.7	1/2	550~660	53.9~64.7
Ø15.88	5/8	630~820	61.7~80.4



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



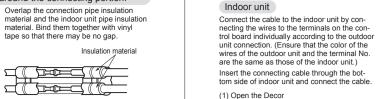
Please check the outdoor unit installation manual for

outdoor unit piping connection

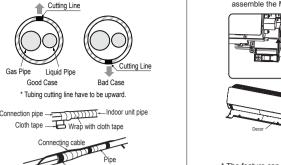
* When Indoor unit(5.0/6.6 kW) is connected

to the Multi Outdoor unit, use the connector

Wrap the insulation material around the connecting portion. Overlap the connection pipe insulation material and the indoor unit pipe insulation



(2) Unscrew the screw of C/Box 2 Set the tubing cutting line upward. (3) Slide up the Metal Plate Cover Wrap the area which accommodates the (4) Connect the connecting cable rear piping housing section with vinyl tape (5) After complete connect the cables, should assemble the Metal Plate Cover by screw.



3 For left rear piping, bundle the piping and drain hose together by wrapping them cloth tape over the range within which they fit



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

Use round pressure terminals for connections

* The feature can be changed according a

The circuit diagram is a subject to

When installing, refer to the circuit

may not be pulled out easily.

diagram on the chassis cover. Connect the wires firmly so that they

Please check the outdoor unit installation manual for outdoor unit cable connection.

change without notice.

The earth wire should be longer than the common wires.

type of model

(CAUTION -



-_(!\CAUTION According to the confirmation of the above

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

 The screw which fasten the wiring in the casing of electrical fittings are liable to come loose from vibrations to which the unit is subjected during the course of 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 suffi-

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 as

specified in the power source specifica-tion. (Particularly note the relation between cable length and thickness.) 7 Always install an earth leakage circuit breaker in a wet or moist area.

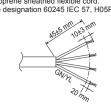
8 The following would be caused by voltage drop.

- 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 Open the terminal cover block before connecting the indoor side wire

Connecting the Cables The power connecting cable with indoor and outdoor unit should be selected according to

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 poly-chloroprene sheathed flexible cord. (code designation 60245 IEC 57, H05RN-F)



Grade CROSS 7/9/12/18/24 kBtu/h SECTIONAL AREA

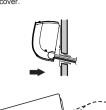
- Connect the wires to the terminals on the control board individually. - Secure the cable onto the control board with

Finishing the indoor unit

- 1 Mount the tubing holder in the original
- 2 Ensure that the hooks are properly seated on the installation plate by moving it left and right. 3 Press the lower left and right sides of the

unit against the installation plate until the hooks engage into their slots (clicking sound).

4 Finish the assembly by screwing the unit to the installation plate by using two pieces of type "C" screws. And assemble a chas-



* The feature can be changed according to

-____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 Do not make drain piping like the

* The feature can be changed according to

Installing drain piping of the

Depending on installation site, it may be

required to install drain plug for drainage (Supplied with the unit). In cold areas, do not use a drain hose with the outdoor unit. Otherwise, drain water may freeze, impairing the heating performance.

1 See the figure below for installation of the

2 Connect a field supplied vinyl hose to the drain nipple (A). If the hose is too long and hangs down, fix it carefully to prevent kinks.

* The feature can be changed according to

outdoor unit

drain plug.

A Drain nipple
B Drain cap
C Drain washer

Checking the Drainage

To check 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 leak

* The feature can be changed according to

1 The drain hose should point downward for

Drain piping

Forming the Piping

hose appropriately

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

Vinyl tape(narrow)

vinyl tape(wide)

Drain hose Pipe
Vinyl

H

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.

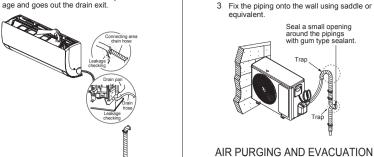
2 Secure the tapped piping along the exteri-

Frap is required to prevent water

from entering into electrical parts.

* The feature can be changed according to

Seal a small opening



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

- 1 Pressure in the system rises
- 2 Operating current rises.
- 3 Cooling(or heating) efficiency drops. 4 Moisture in the refrigerant circuit may

freeze and block capillary tubing. 5 Water may lead to corrosion of parts in the

Checking method Preparation

- Check that each tube(both liquid and gas - Check that each tube(both injudin and gas-side tubes) between the indoor and out-door 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 the outdoor unit are kept closed at this

Leak test

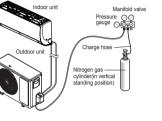
- Connect the manifold valve(with pressure gauges) and dry nitrogen gas cylinder to this service port with charge hoses.

Be sure to use a manifold valve for leakage test. If it is not available, use a stop valve for this purpose. The "Hi" knob of the manifold - Pressurize the system to no more than 551 P.S.I.G. with dry nitrogen gas and close the cylinder valve when the gauge reading reached 551 P.S.I.G. Next, test for leaks with liquid soap.

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 posi-

or repairs of pipes etc. If you are using combustible gases including oxygen, product may have the risk of fires and





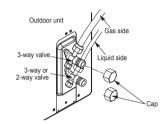
Soap water method

- Remove the caps from the 2-way and 3-way - Remove the service-port cap from the 3-way

- Apply a soap water or a liquid neutral detergent on the indoor unit connection or out-door unit connections by a soft brush to check for leakage of the connecting points of the piping.

- If bubbles come out, the pipes have leakage Evacuation

- 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 evacua-



* The feature can be changed according a type of model

vacuum pump is used If tubing length is less than 10 m longer than 10 m (33 ft) (33 ft) 15 min. or more

Finishing the Job

the valve

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

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

- Replace the pipe cover to the outdoor unit by one screw. Now the air conditioner is ready

Test Running

- Check that the gas and liquid side service

valves are fully open



- 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.



- Check that all tubing and wiring are properly

- Prepare remote controller 1 Remove the battery cover by pulling it
- 2 Insert new batteries making sure that the (+) and (-) of battery are installed correctly 3 Reattach the cover by pushing it back into



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.

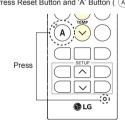
Heating Only Mode

- Heating Only Mode switching function setup
- Supply the power to the unit with no functions active. 2 Enter the Installer Code and set the code
- 3 Press 🕁 to select the code No.47 then, check if buzzer beeps. 4 Cut the power to the unit. 5 Turn back on the power to the unit after 30

Heating Only Mode switching function disable setup

- 1 Supply the power to the unit with no func-
- 2 Enter the Installer Code and set the code 3 Press to select the code No.48 then,
- check if buzzer beens 4 Cut the power to the unit. 5 Turn back on the power to the unit after 30

* How to enter the installer mode Press Reset Button and 'A' Button ((A))



* How to set the code

Set the code you want by pressing TEMP button (🚊) and press 🕒.

— 10 digits ___ 1 digit

- NOTE -- Once the function is set up, Cooling, Dehumidification Auto Change over can-

not be used. - Once the function is disable it will return to its normal state. Code cannot be entered when it is in operation mode. It must be OFF state to enter code.

- Even if able to enter code in ON state, it won't function if the code is not entered in OFF state. - At Heating Only Mode, if the product gets turned off while the wire gets turned off while the wireless remote control is set at other than heating / blowing, the product will not get turned back on. Turn off the product after the wireless remote control is set at heating / blowing and then turn back

When connected to the Multi Outdoor

unit, function may not be supported

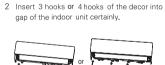
Manual the decor ,air filter Assembly & Disassembly Disassemble the air filter

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

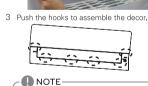


3 Remove the decor from the indoor unit

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







1 Turn off the power and unplug the power cord. 2 Hold the knob of air filter, Lift it up slightly

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2 Insert the hooks of the air filter into the front



NOTE-

If the air filter is not assembled correctly

Dust and other substance come into the

ndoor unit. If look at the indoor unit fron

The air filter can be broken when it is

electricity Block sunlight with blinds or curtains while you are operating the air conditione

Select a well-drained place. - If you can't meet above guide line in the



TIPS FOR SAVING ENERGY

air flow or weaken the cooling / dehumidifying functions.

Here are some tips that will help you 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 excessively indoors. This may be harmful for your health and may consume more 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, in a short period of time.

Clean the air filter once every 2 weeks. Dust and impurities collected in the air filter may block the

For your records

Staple your receipt to this page in case you need it to prove the date of purchase or for warranty

Serial number

You can find them on a label on the side of each unit. Dealer's name

Date of purchase

Settlement of outdoor unit

Outdoor unit

* The feature can be changed according

a type of model.

- 1 Fix the outdoor unit with a bolt and nut (ø10 mm) tightly and horizontally on a concrete or rigid mount.
- When installing on the wall, roof or rooftop, anchor the mounting base secure-ly with a nail or wire assuming the influ-ence of wind and earthquake. 3 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: 1 Measure the pressure of the gas side service valve.
- 2 Measure the air temperature from inlet and outlet of air conditioner 3 Ensure the difference between the inlet and outlet temperature is more than 8 °C.



* The feature can be changed according

a type of model.					
Refrigerant	Outside ambient TEMP.	The pressure of the gas side service valve.			
R32	35 °C (95 °F)	8.5~9.5 kg/cm ² G (120~135 P.S.I.G.)			

NOTE-

If the actual pressure is higher than shown, the system is most likely overcharged, and charge should be removed. If the actual pressure are lower than shown, the system is most likely under charged, and charge should be added.

This is performed when the unit is relocated or the refrigerant circuit is serviced.

Pump Down

Pump Down means collecting all refrigerant into the outdoor unit without the loss of refrig-NOTE-Be sure to perform Pump Down procedure

in the cooling mode. - MARNING

or injury.

It may cause explosion or injury. After pump down, the power must be turned off before removing the pipe. When operating this product without connecting the pipe, there will be high pressure inside the compressor due to the entry of air, possibly causing explosion

Pump Down Procedure - Connect a low-pressure gauge manifold hose to the charge port on the gas side service Open the gas side service valve halfway and purge the air in the manifold hose using the

- Close the liquid side service valve(all the 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 P.S.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.

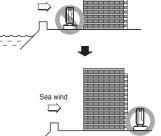
Installation guide at the seaside -∠!\CAUTION -

- 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)

Sea wind

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



In case of installing the outdoor unit on the sea side, setup a windbreak to prevent sea



- Keep more than 70 cm of space between

outdoor unit and the windbreak for easy air

seaside installation, please contact LG Electronics for the additional anticorrosion treatment. Periodic (more than once/year) cleaning of the dust or salt particles stuck on the * Do not use seawater when you clean up

- It should be strong enough like concrete to prevent the sea wind from the sea. The height and width should be more than 150% of the outdoor unit.

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In cases where the Outdoor unit is installed above the Indoor unit perform the following.

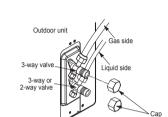
1 Tape the piping and connecting cable from 2 Secure the taped piping along the exterio

wall. Form a trap to prevent water entering the room.

There is a risk of fire and explosion. Inert gas (nitrogen) should be used when you check plumbing leaks, cleaning

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

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



Required time for evacuation when 30 gal/h If tubing length is 10 min. or more

the knob of the 3-way valve and stop the vacuum pump.

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

























higher than it, can assemble the air filter

er is used for many hours.

-/!\ CAUTION-

valve must always be kept close

-<u>___</u>CAUTION -

- WARNING -



- When the desired vacuum is reached, close

- 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



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