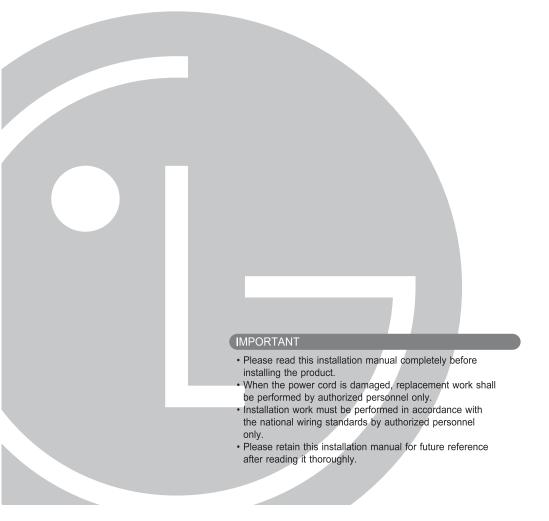


LG Concealed Duct Air Conditioner INSTALLATION MANUAL



Concealded Duct Air Conditioner Installation Manual

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Safety Precautions

To prevent injury to the user or other people and property damage, the following instructions must be followed.

- Be sure to read before installing the air conditioner.
- Be sure to observe the cautions specified here as they include important items related to safety.
- Incorrect operation due to ignoring instruction will cause harm or damage. The seriousness is classified by the following indications.

by the following indication	JIIS.						
	This symbol indicates the possibility of death or serious injury.						
	This symbol indicates the possibility of injury or damage to properties only.						
Meanings of symbols	used in this manual are as shown below.						
\bigcirc	Be sure not to do.						
	Be sure to follow the instruction.						

Installation

Do not use a defective or underrated circuit breaker. Use this appliance on a dedicated circuit.

• There is risk of fire or electric shock.



Install the panel and the cover of control box securely.

• There is risk of fire or electric shock.



For electrical work, contact the dealer, seller, a qualified electrician, or an Authorized Service Center.

• Do not disassemble or repair the product. There is risk of fire or electric shock.



Always install a dedicated circuit and breaker.

 Improper wiring or installation may cause fire or electric shock



Always ground the product.

• There is risk of fire or electric shock.



Use the correctly rated breaker or fuse.

• There is risk of fire or electric shock.



Do not modify or extend the power cable.

• There is risk of fire or electric shock.



For installation, always contact the dealer or an Authorized Service Center.

• There is risk of fire, electric shock, explosion, or injury.



Do not let the air conditioner run for a long time when the humidity is very high and a door or a window is left open.

• Moisture may condense and wet or damage furniture.



Do not plug or unplug the power supply plug during operation.

• There is risk of fire or electric shock.



Do not install, remove, or reinstall the unit by yourself (customer).

• There is risk of fire, electric shock, explosion, or injury.



Do not install the product on a defective installation stand.

• It may cause injury, accident, or damage to the product.



Operation -

Take care to ensure that power cable could not be pulled out or damaged during operation.

• There is risk of fire or electric shock.



Do not touch(operate) the product with wet hands.

• There is risk of fire or electrical shock.



Be cautious when unpacking and installing the product.

• Sharp edges could cause injury. Be especially careful of the case edges and the fins on the condenser and evaporator.



Be sure the installation area does not deteriorate with age.

 If the base collapses, the air conditioner could fall with it, causing property damage, product failure, and personal injury.



Do not place anything on the power cable.

• There is risk of fire or electric shock.



Do not place a heater or other appliances near the power cable.

• There is risk of fire and electric shock.



Do not allow water to run into electric parts.

• It may cause There is risk of fire, failure of the product, or electric shock.



When flammable gas leaks, turn off the gas and open a window for ventilation before turn the product on.

• Do not use the telephone or turn switches on or off. There is risk of explosion or fire



Do not open the inlet grill of the product during operation. (Do not touch the electrostatic filter, if the unit is so equipped.)

• There is risk of physical injury, electric shock, or product failure.



Ventilate the product from time to time when operating it together with a stove, etc.

There is risk of fire or electric shock.



Do not store or use flammable gas or combustibles near the product.

• There is risk of fire or failure of product.



If strange sounds, or small or smoke comes from product. Turn the breaker off or disconnect the power supply cable.

• There is risk of electric shock or fire.



When the product is soaked (flooded or submerged), contact an Authorized Service Center.

• There is risk of fire or electric shock.



Do not use the product in a tightly closed space for a long time.

Oxygen deficiency could occur.



Stop operation and close the window in storm or hurricane. If possible, remove the product from the window before the hurricane arrives.

• There is risk of property damage, failure of product, or electric shock.



Be cautious that water could not enter the product.

• There is risk of fire, electric shock, or product damage.



Turn the main power off when cleaning or maintaining the product.

There is risk of electric shock.



When the product is not be used for a long time, disconnect the power supply plug or turn off the breaker.

DOD

 There is risk of product damage or failure, or unintended operation.



Take care to ensure that nobody could step on or fall onto the outdoor unit.

• This could result in personal injury and product damage.



Installation -

Always check for gas (refrigerant) leakage after installation or repair of product.

• Low refrigerant levels may cause failure of product.



Do not install the product where the noise or hot air from the outdoor unit could damage the neighborhoods.

• It may cause a problem for your neighbors.



Operation -

Do not expose the skin directly to cool air for long periods of time. (Don't sit in the draft.)

This could harm to your health.



Install the drain hose to ensure that water is drained away properly.

• A bad connection may cause water leakage.



Use two or more people to lift and transport the product.

• Avoid personal injury.



Keep level even when installing the product.

 To avoid vibration or water leakage.



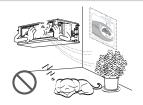
Do not install the product where it will be exposed to sea wind (salt spray) directly.

 It may cause corrosion on the product. Corrosion, particularly on the condenser and evaporator fins, could cause product malfunction or inefficient operation.



Do not use the product for special purposes, such as preserving foods, works of art, etc. It is a consumer air conditioner, not a precision refrigeration system.

 There is risk of damage or loss of property.



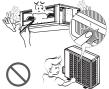
Do not block the inlet or outlet of air flow.

• It may cause product failure.



Do not insert hands or other objects through the air inlet or outlet while the product is operated.

• There are sharp and moving parts that could cause personal injury.



Use a soft cloth to clean. Do not use harsh detergents, solvents, etc.

• There is risk of fire, electric shock, or damage to the plastic parts of the product.



Do not step on or put anyting on the product. (outdoor units)

• There is risk of personal injury and failure of product.



Do not drink the water drained from the product.

• It is not sanitary and could cause serious health issues.



Use a firm stool or ladder when cleaning or maintaining the product.

 Be careful and avoid personal injury.



Introduction

Symbols Used in this Manual



This symbol alerts you to the risk of electric shock.

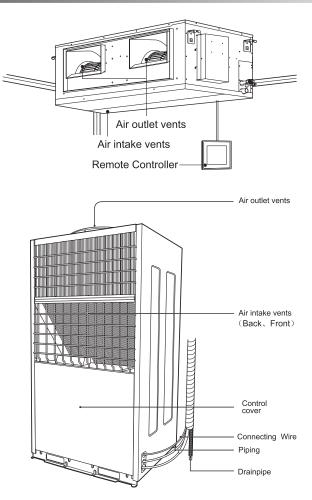


This symbol alerts you to hazards that could cause harm to the air conditioner.



This symbol indicates special notes.

Features



Installation of Indoor, Outdoor Unit

Selection of the best location

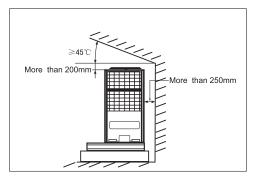
Indoor unit

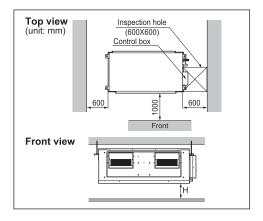
Install the air conditioner in the location that satisfies the following conditions.

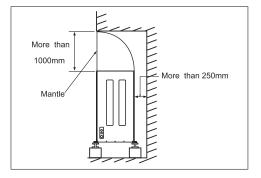
- The place shall easily bear a load exceeding four times the indoor unit's weight.
- The place shall be able to inspect the unit as the figure.
- The place where the unit shall be leveled.
- The place shall allow easy water drainage.(Suitable dimension "H" is necessary to get a slope to drain as figure.)
- The place shall easily connect with the outdoor unit.
- The place where the unit is not affected by an electrical noise.
- The place where air circulation in the room will be good .
- There should not be any heat source or steam near the unit

Outdoor unit

- If an awning is built over the unit to prevent direct sunlight or rain exposure, be careful that heat radiation from the condenser is not restricted.
- There should not be any animals or plants which could be affected by hot air discharged.
- Ensure the spaces indicated by arrows from the wall, ceiling, fence or other obstacles.

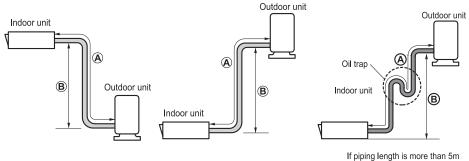






Pipe Size *Additional Length A(m) Elevation B(m) (Diameter: Ø) Capacity refrigerant (g/m)Gas Liquid Standard Max. Standard Max. 3/4" 3/8" 7.5 50 0 30 50 62 kBtu/h Outdoor unit Outdoor unit Indoor unit

Piping length and the elevation





CAUTION:

- The Standard pipe length is 7.5 m and no need to additional charge of the refrigerant to max 15 m. If the pipe length exceeds 15 m, need to additional charge of the refrigerant which according to the table.
 - If 62k Model is installed at a distance of 50m, 1750g of refrigerant should be added (50-15) x 50g = 1750 g
 - Capacity is based on standard length and maximun allowance length is on the basis of reliability.
 - Improper refrigerant charge may result in abnormal cycle.
 - Oil trap should be installed every 5~7 meters.

Indoor unit installation

Installation of Unit

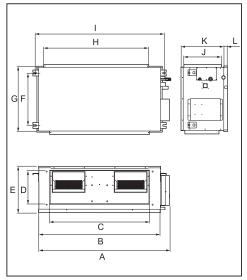
Install the unit above the ceiling correctly.



POSITION OF SUSPENSION BOLT

- Apply a joint-canvas between the unit and duct to absorb unnecessary vibration.
- Apply a filter Accessory at air return hole.

(Unit:mm)												
Dimension												
Capacity	А	В	С	D	Е	F	G	н	Ι	J	К	L
62 kBtu/h	1680	1565	1160	330	460	580	700	1400	1635			

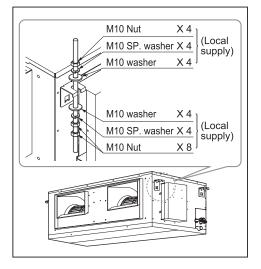


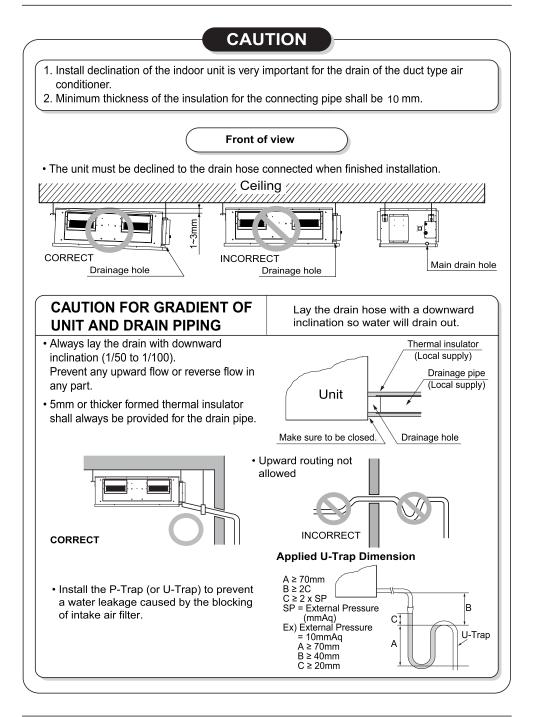
CASE 2

• Install the unit leaning to a drainage hole side as a figure for easy water drainage.

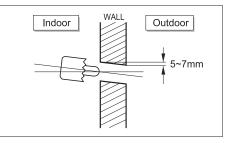
POSITION OF CONSOLE BOLT

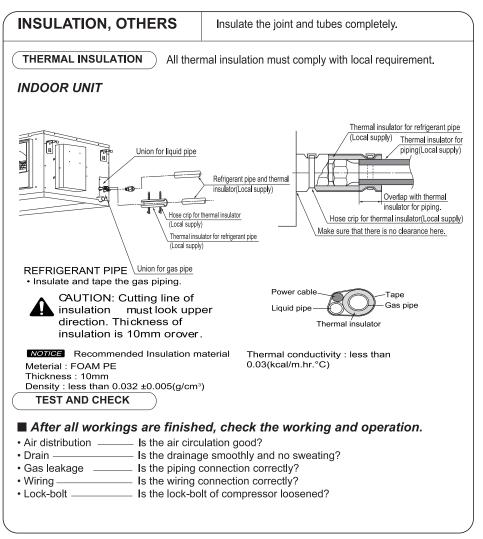
- A place where the unit will be leveled and that can support the weight of the unit.
- A place where the unit can withstand its vibration.
- A place where service can be easily performed.





- Drill the piping hole with 70mm dia, hole core drill.
- Piping hole should be slightly slant to the outdoor side.







Install the remote control box and cord correctly.

POINT OF REMOTE CONTROLLER INSTALLATION

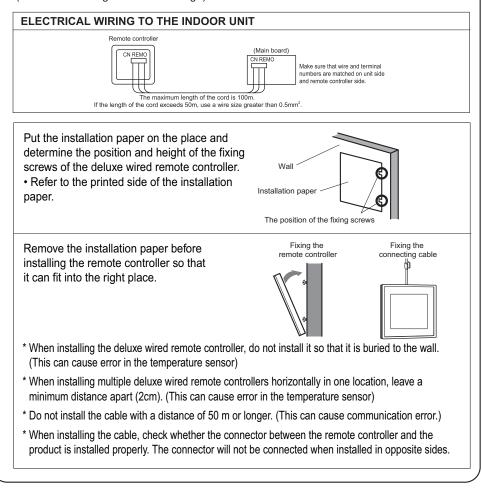
• Although the room temperature sensor is in the indoor unit, the remote control box should be installed in such places away from direct sunlight and high humidity.

INSTALLATION OF THE REMOTE CONTROL BOX

- Select places that is not splashed by water.
- Select control position after receiving customer approval.
- The room temperature sensor of the thermostat for temperature control is built in the indoor unit.
- This remote controller equipped with liquid crystal display. If this position is higher or lower, display is difficult to see.
 (The standard height is 1.2~1.5m high)

ROUTING OF THE REMOTE CONTROL CORD

- Keep the remote control cord away from the refrigerant piping and the drain piping.
- To protect the remote control cord from electrical noise, place the cord at least 5cm away from other power cables. (Audio equipment, Television set, etc)
- If the remote control cord is secured to a wall, provide a trap at the top of the cord to prevent water droplets from running.



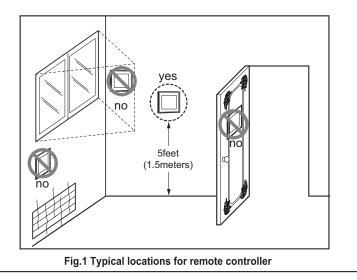
WIRED REMOTE CONTROLLER INSTALLATION

• Since the room temperature sensor is in the remote controller, the remote controller box should be installed in a place away from direct sunlight, high humidity and direct supply of cold air to maintain proper space temperature.

Install the remote controller about 5ft(1.5m) above the floor in an area with good air circulation at an average temperature.

Do not install the remote controller where it can be affected by:

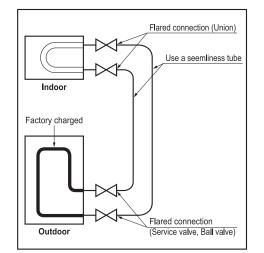
- Drafts, or dead spots behind doors and in corners.
- Hot or cold air from ducts.
- Radiant heat from sun or appliances.
- Concealed pipes and chimneys.
- Uncontrolled areas such as an outside wall behind the remote controller.
- This remote controller is equipped with a seven segment LED. display. For proper display of the remote controller LED's, the remote controller should be installed properly as shown in Fig.1. (The standard height is 1.2~1.5 m from floor level.)



REFRIGERANT PIPING

Perform the work according to the Service Manual or Installation Guide.

- Use two spanners when connecting the refrigerant pipe to the unit.
- Make a bend with a radius as large as possible.
- Perform air purge with R410A or vacuum drying.
- When piping work is finished, check all joints.



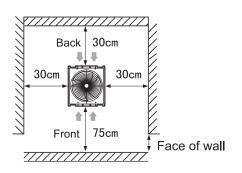
INSTALLATION OF OUT DOOR UNIT

Select a location that satisfies the following conditions. Install the unit firmly in place.

Select the following location

- A place where the air conditioner can get good ventilation.
- A place where it shall not annoy the neighbors.
- A place where the unit shall be leveled and that can support the weight of unit and withstand its vibrations.

Keep a maintenance space



ELECTRICAL WIRING

Perform the electrical wiring work according to the electrical wiring connection.

- All wiring must comply with local requirements.
- · Select a power source that is capable of supplying the current required by the air conditioner.
- Use a recognized circuit breaker between the power source and the unit. A disconnection device to adequately disconnect all supply lines must be fitted.
- Capacity of circuit breaker recommended by authorized personnel only

Capacity	Phase	Circuit Breaker
62 kBtu/h	3	30

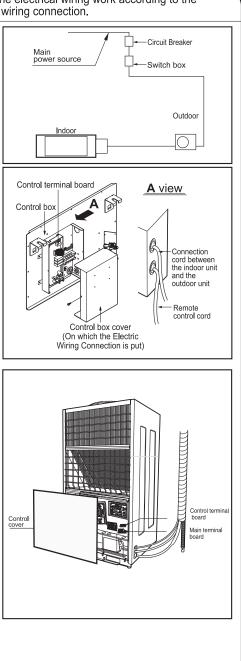
WIRING CONNECTION

Indoor unit

- Remove the control box cover for electrical connection between the indoor and outdoor unit.
- Use the cord clamper to fix the cord.

Outdoor unit

- · Remove the control cover for wiring connection.
- Use the cord clamper to fix the cord.
- · Earthing work
 - Case 1 :Terminal block of Outdoor Unit have 😑 mark.
 - Connect the cable of diameter 1.6mm² or more to the earthing terminal provided in the control box and do earthing.
 - Case 2 : Terminal block of Outdoor Unit don't have 🕀 mark.
 - Connect the cable of diameter 1.6mm² or more, to the panel of control box. marked as \oplus and fasten with earth screw.
- * Please check !!



Connecting Pipes to the Indoor Unit

Preparation of Piping

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

Cut the pipes and the cable.

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

Burrs removal

- Completely remove all burrs from the cut cross section of pipe/tube.
- Put the end of the copper tube/pipe to downward direction as you remove burrs in order to avoid to let burrs drop in the tubing.

Putting nut on

 Remove flare nuts attached to indoor and outdoor units, than put them on pipe/tube having completed burr removal.
 (Not possible to put them on after flaring work)

Flaring work

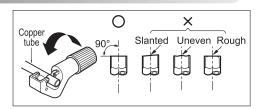
• Carry out flaring work using flaring tool as shown below.

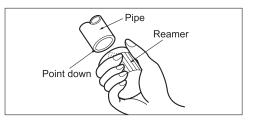
Outside Diameter	"A"
1/4"	1.1~1.3 mm
3/8"	1.5~1.7 mm
1/2"	1.6~1.8 mm
5/8"	1.6~1.8 mm
3/4"	1.9~2.1 mm

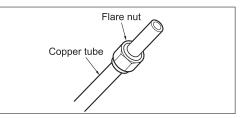
Firmly hold copper tube in a bar(or die) as indicated dimension in the table above.

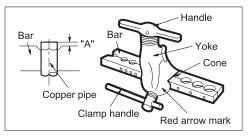
Check

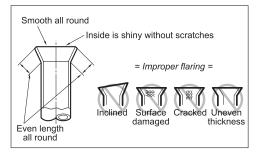
- Compare the flared work with figure.
- If flare is noted to be defective, cut off the flared section and do flaring work again.











Pipe bending

Annealed copper pipe with small diameter (ø6.35 or ø9.52) can be easily bent manually. In this case, secure large R(radius) for the bend section and gradually bend pipe. If annealed copper pipe is large in diameter (ø15.88 or ø19.05), bend pipe with bender. Use bender appropriate for the pipe diameter.

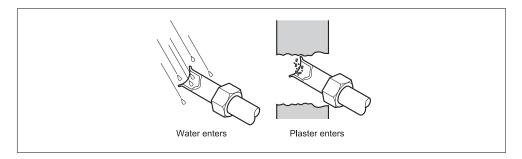
Brazing

In refrigerant piping, bending (in particular, acute bending) must be minimized to reduce piping resistance. Bending is, however, necessary in some places by virtue of the installation position of devices auxiliary to the packaged air conditioner, or of the building structure, piping distance or finishing appearance. If a more acute bend is required than that attainable by pipe bender, perform brazing using ready-made elbow. Aside from this function, brazing also serves to connect straight pipes, generally using ready-made sockets. While brazing, protect piping against heat with wet cloth to avoid damaging valve packing or burning thermal insulator with burner heat. While brazing, blow inert gas (nitrogen gas or carbonic gas) to prevent formation of oxidation film in copper piping; otherwise, the refrigerant circuit will clog. The blowing of nitrogen gas (or carbonic gas) through 3way valves is described in the following:

Refrigerant piping(Flare piping)

When connecting piping, be sure to keep piping dry(keep piping away from water), clean (keep piping away from dust) and airtight (avoid refrigerant leakage).

When connecting piping on rainy days or making a through-hole in wall, take due care to prevent water or plaster from entering piping.





CAUTION:

· This procedure is designed to prevent formation of oxidation film by filling piping with inert gas. Note that excessive gas pressure will generate pinholes at brazed points.

(Nitrogen gas: Supply pressure 0.05~0.1kg/cm²G)

• When supplying inert gas, be sure to open one end of piping.

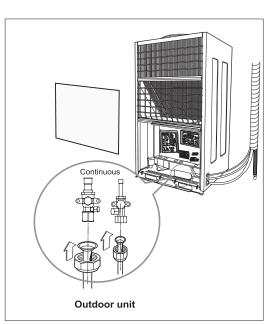
Connecting Pipes to the Outdoor Unit

Connecting the pipes to the Outdoor unit

- Align the center of the pipings and sufficiently tighten the flare nut with fingers.
- 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.

Outside	Torque	
mm	inch	kgf∙m
Ø6.35	1/4	1.8~2.5
Ø9.52	3/8	3.4~4.2
Ø12.7	1/2	5.5~6.6
Ø15.88	5/8	6.3~8.2
Ø19.05	3/4	9.9~12.1

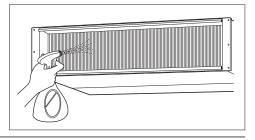
Align the center of the piping and sufficiently tighten the flare nut by hand.



Checking the Drainage

Checking the Drainage

- Check the drainage.
 - Spray one or two glasses of water upon the evaporator.
 - Ensure that water flows drain hose of indoor unit without any leakage.



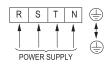
Connecting Cables between Indoor Unit and Outdoor Unit

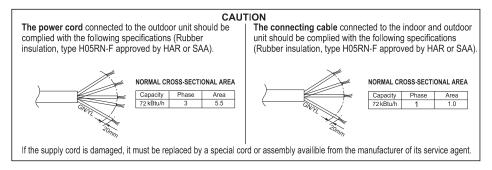
Connecting cables to the Indoor Unit

- Connect the wires to the terminals on the control board individually according to the outdoor unit connection.
 - Ensure that the color of the wires of outdoor unit and the terminal No. are the same as those of indoor unit respectively

Heatpump Model

Terminals on the indoor unit	1	2	3	
	ŧ	ŧ	\$	\$
Terminals on the outdoor unit	1	2	3	





CAUTION: Make sure that the screws of the terminal fixed tightly.

Clamping of cables

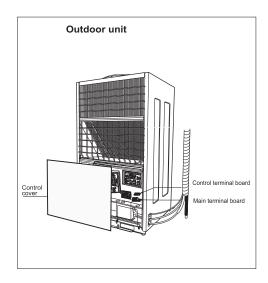
- Arrange 2 power cables on the control panel.
- First, fasten the steel clamp with a screw to the inner boss of control panel.
- For the cooling model, fix the other side of the clamp with a screw strongly. For the heat pump model, put the 1.0 mm² cable(thinner cable) on the clamp and tighten it with a plastic clamp to the other boss of the control panel.
- In Australia, the length of power supply cord measured from the entry of the power supply cord to the middle of live pin on the power plug should be over 1.8m.

Connecting the cable to the Outdoor Unit

• Remove the Cover control from the unit by loosening a screw. Connect the wires to the terminals on the

control board individually as following.

- Secure the cable onto the control board with the holder (clamper).
- Refix the cover control to the original position with the screw.



CAUTION: After the confirmation of the above conditions, prepare the wiring as follows:

- 1) Never fail to have an individual power specialized for the air conditioner. As for the method of wiring, be guided by the circuit diagram pasted on the inside of control box cover.
- 2) Provide a circuit breaker switch between power source and the unit.
- 3) 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 give rise to burn-out of the wires.)
- 4) Specification of power source
- 5) Confirm that electrical capacity is sufficient.
- 6) Be sure that the starting voltage is maintained at more than 90 percent of the rated voltage marked on the name plate.
- 7) Confirm that the cable thickness is as specified in the power sources specification. (Particularly note the relation between cable length and thickness.)
- 8) Never fail to equip a leakage breaker where it is wet or moist.
- 9) The following troubles would be caused by voltage drop-down.
 - Vibration of a magnetic switch, damage on the contact point there of, fuse breaking, disturbance to the normal function of a overload protection device.
 - Proper starting power is not given to the compressor.

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 tape.

• 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 tapped piping along the exterior wall using saddle or equivalent.

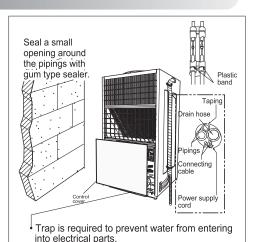
In cases where the Outdoor unit is installed above the Indoor unit perform the following.

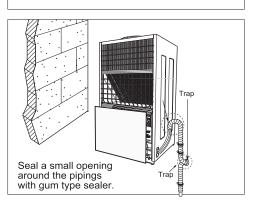
- 1. Tape the piping and connecting cable from down to up.
- 2. Secure the taped piping along the exterior wall. Form a trap to prevent water entering the room.
- 3. Fix the piping onto the wall by saddle or equivalent.

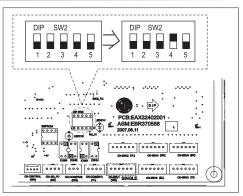
Long Pipe Setting (more than 15 m)

- 1. Open the control cover of outdoor unit
- 2. Select 4th slide of the flve selectable modes as follows.
- 3. Move the Slide switch to upside
- 4. Close the top cover and check whether the product works normally

WARNING: Do not open the control cover or Set the pipe length when operating the product.







Air Purging and Evacuation

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 refrigeration system.

Therefore, the indoor/outdoor unit and connecting tube must be checked for leak tight, and vacuumed to remove incondensible gas and moisture in the system.

Checking method

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. Check that both the liquid and the gas side service valves on the outdoor unit are kept closed at this stage.

Leakage test

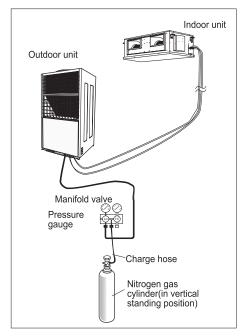
• Connect the manifold valve(with pressure gauges) and dry nitrogen gas cylinder to this service port with charge hoses.

CAUTION: 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 valve must always be kept close.

• Pressurize the system to no more than 427 P.S.I.G. with dry nitrogen gas and close the cylinder valve when the gauge reading reached 427 P.S.I.G. Next, test for leaks with liquid soap.

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.

- Do a leakage 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.
- 2. 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



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 and Hi" knob of the manifold valve 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.

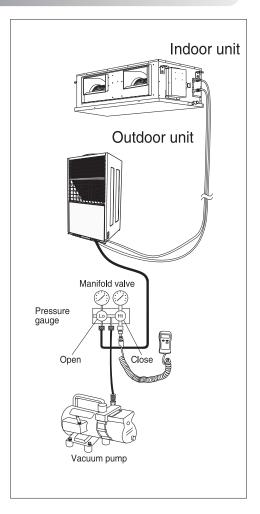
Required time for evacuation when 30 gal/h vacuum pump is used						
If tubing length is less than 10 m(33 ft)	lf tubing length is longer than 10 m(33 ft)					
30 min. or more	1 hour. or more					
0.5 torr or less						

 When the desired vacuum is reached, close the "Lo and Hi" knob of the manifold valve and stop the vacuum pump.

Finishing the job

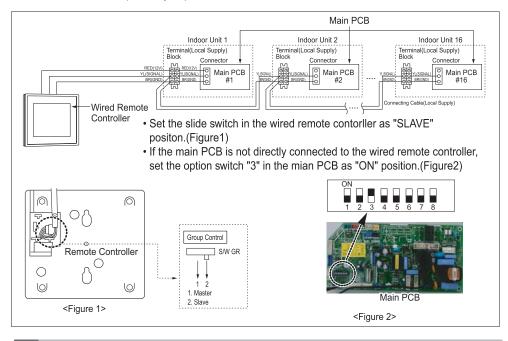
- 1. With a service valve wrench, turn the valve stem of liquid side valve counter-clockwise to fully open the valve.
- 2. Turn the valve stem of gas side valve counterclockwise to fully open the valve.
- 3. Loosen the charge hose connected to the gas side service port slightly to release the pressure, then remove the hose.
- 4. 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.
- 5. Replace the valve caps at both gas and liquid side service valves and fasten them tight.

This completes air purging with a vacuum pump. The air conditioner is now ready to test run.



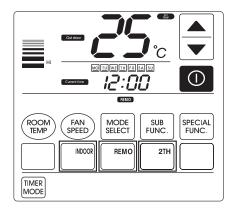
Group Control

It operates maximum 16 units by only one wired remote controller, and each unit starts sequentially to prevent overcurrent.



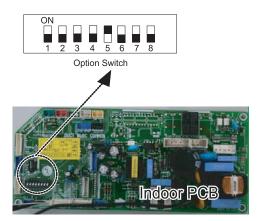
Two Thermistor system

- Open the rear cover of Remote Controller to set up the mode.
- Selectable options are three as follows.
 - Remo: Sensing the room Temperature.
 - Indoor Unit: Sensing the intake air into indoor Unit.
 - 2 TH: Sensing the lower temperature of the two thermistors.
- To set up the mode, adjust the slide switch to desired mode position on installing.



Continuous Fan Operation

When need to set up the continuous fan operation, chage the option switch 5 in the PCB as below guide line.



Option Switch 5	Function
ON	Continuous Fan Operation - ON
OFF	Continuous Fan Operation - OFF

A CAUTION : Continuous fan operation can cause unexpected cold air flow in hot start mode or defrost mode.

It is required to explain to the customer before setting this function.

Static Pressure & Air Flow Rate

Static Pressure(mmAq)		0	2	4	6	8	10	12	14	16	18	20	
MODEL	Step	CMM(CFM)		Setting Value									
UB-W6288TS0	HI	60.91	57	62	68	72	77	82	87	91	94	98	103
	Med	58.32	55	60	66	71	76	81	86	88	93	97	102
	Low	47.47	44	52	58	65	70	74	81	85	88	93	97

Static Pressu	re(mmAq)	Setting Value	0	5	10	15	20			
MODEL	Step	County Value		CMM(CFM)						
UB-W6288TS0	HI	92	103.25	96.89	85.23	60.91	47.37			
	Med	89	101.47	92.86	81.89	58.32	30.91			
	Low	86	97.38	88.53	75.64	47.47	30.72			

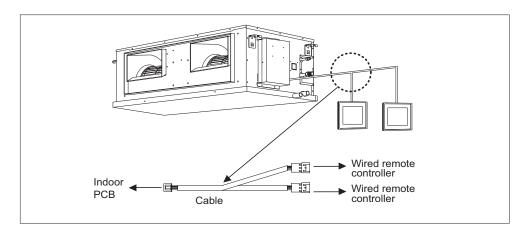
* The above table shows the correlation of External Static Pressure & AIR FLOW.

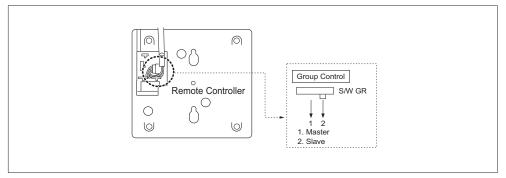
NOTICE Capacities are tested in the following conditions.

Static	Valtaga	Valtaga Air	Air	Temperaure(? DB/? WB)					
Pressure	Voltage (Phase/Volt)	Flow	Piping Length	Coc	oling	Hea	ating		
(Pa)	a) (Friase/Volt) Stap	Lengui	Indoor	Outdoor	Indoor	Outdoor			
130	φ1/230 V	High	7.5 m	27/19	35/24	20/15	7/6		

Two wired remote controller

- All wired remote controlles are displayed on identical information.
- Last used wired romote controller has priority on product's movement.
- Set one wired remote controller as master, the others as slave. < Figure 1>
- The thermistor mode is operated by the wired remote controller set as "master"





< Figure 1 >

CAUTION : Two wired remote controllers should be same model name, otherwise it can cause unexpected problems.

For example) Using PDRCUSA0 with PDRCUSA0 is proper.

Using PDRCUDB0 with PDRCUDB0 is proper.

PDRCUSA0 & PDRCUDB0 are improper.

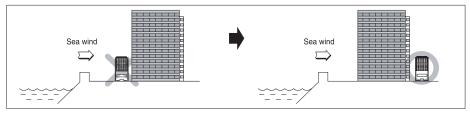
Installation Guide at the Seaside

CAUTION:

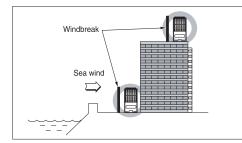
- 1. Air conditioners should not be installed in areas where corrosive gases, such as acid or alkaline gas, are produced.
- Do not install the product where it could be exposed to sea wind (salty wind) directly. It can result corrosion on the product. Corrosion, particularly on the condenser and evaporator 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)

1) 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.



2) In case, to install the outdoor unit on the seaside, set up a windbreak not to be exposed to the sea wind.



- 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.
- It should be keep more than 70 cm of space between outdoor unit and the windbreak for easy air flow.

3) Select a well-drained place.

1. If you cann't meet above guide line in the seaside installation, please contact LG Electronics for the additional anticorrosion treatment. 2. Periodic (more than once/year) cleaning of the dust or salt particles stuck on the heat exchanger by using water



P/No: MFL41755805