## ENGLISH

🕒 LG

# INSTALLATION MANUAL AIR CONDITIONER

TYPE : WALL MOUNTED

## TIPS FOR SAVING ENERGY

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

• 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, in a short period of time.

• 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.

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

ses. 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 situations and ensure peak performance of your product.

## **WARNING**

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

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

### 

 Installation or repairs made by ungualified persons can result in hazards to you and others. • Air conditioner Shall be installed in accordance with national wiring regulations.

If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similary qualified persons in order to avoid a hazard.

 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 malfunc-tion, property damage, personal injury and/or death.

## 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.

- Security attach the electrical part cover to the indoor land 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 conditioner. 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 ther is concern of falling down. Otherwise, it may result in personal injury.
- Use caution when unpacking and installing.
- Sharp edges may cause injury.
- Thickness of copper pipes used are as shown "Flaring work" Table.
   Never use copper pipes thinner than that in the table even when it is available on the market • Do not use copper pipes having a collapsed.

 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/10m

- Otherwise, the expansion valve or capillary tube may become blocked with contaminants.

P/No : MFL67502112

## 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. - 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. vise, 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 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.

### 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.





Screws for fixing panels are attached to decoration panel.

## **INSTALLATION TOOLS**

Figure	Name	Figure	Name
	Screw driver	03	Multi-meter
	Electric drill		Hexagonal wrench
	Measuring tape, Knife		Ammeter
	Hole core drill	s de la companya de l	Gas-leak detector
Contraction of the second	Spanner		Thermometer, Level
and the	Torque wrench		Flaring tool set

## INSTALLATION MAP



Gas side piping (※) (Optional Parts) Liquid side piping (%) (Optional Parts)

### NOTE -

1

You should purchase the installation parts.

2

Chassis Hook

must be done safely.

## INSTALLATION

## Select the best Location

## Indoor unit

ceiling.

- There should not be any heat or steam near the unit. - Select a place where there are no obstacles

around of 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 4in. The unit should be installed as high as possible on the wall, allowing a minimum of 8in from

 Select a place where the warm air and noise from the air conditioner do not disturb neigh-

- Use a metal detector to locate studs to prevent unnecessary damage to the wall





Place a level on raised tab A Type : 442 B Type : 434 A Type : 442 B Type : 439

llation Plate

A Type : 133 A Type : 95 B Type : 123 B Type : 170

drill. Drill the piping hole at either the right or the left with the hole slightly slanted to the

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

Cut the pipes and the cable

and the outdoor unit.

distance

e C

length

1 Use the piping kit accessory or the pipes purchased locally.

2 Measure the distance between the indoor

3 Cut the pipes a little longer than measured

4 Cut the cable 1.5m longer than the pipe

0

Slanted Uneven Rough ×

3

Unit : mm

Outdoor

Type B Type

Drill a Hole in the Wall - Drill the piping hole with a ø65mm hole core

Outline

outdoor side.

Indoor

**Flaring Work** 

Outdoor unit

tricted

of the warm air.

- 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 side

- Do not place animals and plants in the path

Take the weight of the air conditioner into ac-count and select a place where noise and vi-bration are minimum.

and other sides is more than 12in. The space in front of the unit should be more than 28in.

\* Recommended height 6.5ft from the floor \* The feature can be changed according to the type of model

## CAUTION-

Remove obstructions to prevent blockage of airflow path.

Before installation, confirm the position of

a screw between chassis and Installation

2 Mount the installation plate on the wall with type "A" screws. If mounting the unit on a concrete wall, use anchor bolts.

3 Measure the wall and mark the centerline.

Measure the wall and mark the centerline. It is also important to use caution concern-ing the location of the installation plate. Routing of the wiring to power outlets is through the walls typically. Drilling the hole through the walls for piping connections must be does activity.

Installation Plate

Mount the installation plate horizontally by aligning the centerline using Horizonta

0 A-Type

B-Type

- No

Type "A" Screws



plate



4

Connection pipe — Indoor unit pipe Vinyl tape (wide) — Wrap with vinyl tape Connecting cable Vinyl tape(narrow)	• Before finishing installation of the indoor unit, seal the hole of a wall except the pipe's ways to prevent condensate from inflow of outdoor air.	CAUTION The power cord connected to the outdoor unit should be complied with the follow- ing specifications(UL recognized or CAS certified)	<ul> <li>Connect the wires to the terminals on the control board individually.</li> <li>Secure the cable onto the control board with the cord clamp.</li> <li>Use a recognized circuit breaker between the power source and the unit.</li> <li>A disconnecting device to adequately discon nect all supply lines must be fitted.</li> </ul>
3 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.	Outdoor unit Connecting the Piping	AWG_"A" D23mm	Provide a circuit breaker between power source and the outdoor unit as shown below Circuit     Capacity(Btu/h) Breaker     9k~12k
Pipe	<ul> <li>Remove the tubing cover from the unit by loosening the screw.</li> </ul>	SWSL STRING	
Drain hose Finishing the indoor unit	Tubing cover	Capacity(Btu/h)           9k/12k           *A*           14	Over Smm (0.2")
<ul> <li>installation</li> <li>Mount the tubing holder in the original positon.</li> <li>Ensure that the hooks are properly seated on the installation plate by moving it left and right.</li> </ul>		The power connecting cable connected to the indoor and outdoor unit should be compiled with the following specifications (UL recognized or CAS certified).	cord colle
<ol> <li>Press the lower left and right sides of the unit against the installation plate until the hooks engage into their slots (clicking sound).</li> <li>Finish the assembly by screwing the unit to the installation plate by using the poinces</li> </ol>		AWG_D Gunz	Conduit panel Tubing cover
of type C' screws. And assemble a chas- sis cover.	<ul> <li>Align the center of the pipings and sufficiently tighten the flare nut by hand.</li> </ul>	Power Capacity(Btu/h) 9k/12k	Vhen using the separate wire as the power cord, please fix the separate wire into the control box panel by using tie wrap as the fixture. 'A' & 'B' are minimum
		<ul> <li>B 18</li> <li>Field wiring shall be done such that the cur- rentcarrying conductors become taut before the earthing conductor if the cord slips out of the cord anchorage.</li> </ul>	Main power source
Type 'C' screw			Air Conditioner Use a circuit breaker Use a circuit breake or time delay fuse.
<ul> <li>Finally, tighten the flare nut with torque wrench until the wrench clicks.</li> </ul>	Connecting the Cables	CAUTION	Checking the Drainage
When tightening the flare nut with torque wrench, ensure the direction for tightening follows the arrow on the wrench.	Connect the cable to the indoor unit by con- necting the wires to the terminals on the con- trol 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.)	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 condi-	<ul> <li>To check the drainage.</li> <li>Pour a glass of water on the evaporator.</li> <li>Ensure the water flows through the drain hose of the indoor unit without any leakage and goes out the drain exit.</li> </ul>
Outdoor unit		tioner. As for the method of wiring, be guided by the circuit diagram posted on the inside of control cover.	
Liquid side piping (Smaller diameter)	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	2 The screw which fasten the wiring in the casing of electrical fittings are li- able 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.)	Consecting area drain hoar Leading - Consecting area drain hoar drain hoar checking Drain par Drain par
	<ul> <li>Connect the wires firmly so that they may not be pulled out easily.</li> <li>Connect the wires according to color codes, referring to the wiring diagram.</li> </ul>	<ol> <li>Specification of power source.</li> <li>Confirm that electrical capacity is sufficient.</li> <li>See that the starting voltage is maintained at more than 90 percent of the</li> </ol>	Lasing becken
Gas side piping (Bigger diameter)		6 Confirm that the cable thickness is as specified in the power source specifi- cation. (Particularly note the relation between	
Outside Diameter Torque		<ul> <li>cable length and thickness.</li> <li>7 Always install an earth leakage circuit breaker in a wet or moist area.</li> <li>8 The following would be caused by voltage drop.</li> </ul>	
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		<ul> <li>Vibration of a magnetic switch, which will damage the contact point, fuse breaking, disturbance of the normal function of the overload.</li> <li>9 The means for disconnection from a</li> </ul>	Drain piping 1 The drain hose should point downward for easy drain flow.
Ø12.7 1/2 550~660 53.9~64.7		power supply shall be incorporated in	Downward slope

6

7

the fixed wiring and have an air gap contact separation of at least 3mm ir each active(phase) conductors.

5

### 2 Do not make drain piping like the following. Forming the Piping

ot raise





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

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. 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 equivalen

Seal a small opening



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

## Air Purging

The air and moisture remaining in the refriger-ant 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.

Air purging with vacuum pump Preparation

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

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 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

250 P.S.I.G. (17.6kgf/cm<sup>2</sup>G) (R-22 model) or 400 P.S.I.G. (28.1kgf/cm<sup>2</sup>G) (R-410A model)

400 P.S.I.G. (28. Kg)/cm<sup>-</sup>G (H-410A model) with dry nitrogen gas and close the cylinder valve when the gauge reading reaches 250 P.S.I.G. (17.6kg//cm<sup>2</sup>G) (R-22 model) or 400 P.S.I.G. (28. Kgf/cm<sup>2</sup>G) (R-410A model). Next step is leak test with liquid soap.

8

-AUTION-

- AUTION-

around the pipings with gum type sealant



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 accident position.

- 🔔 WARNING -There is a risk of fire and explo-

There is a risk of file and expre-sion. - Inert gas (nitrogen) should be Therefore, after evacuating the system, take a leak test for the piping and tubing between the indoor and outdoor unit. used when you check plumbing leaks, cleaning or repairs of pipes etc. If you are using combustible gases includ-ing oxygen, product may have the risk of fires and explosions.



Saddle

of mode

2 Secure the tapped piping along the exterior wall using saddle or equivalent

# Seal small openings around pipings with a gum type sealant.

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

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 deter-

gent on the indoor unit connection or out-door unit connections by a soft brush to

check for leakage of the connecting points of

- If bubbles come out, the pipes have leakage

Soap water method

valves

valve

the piping.

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

- 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 re-

duced to normal, disconnect the hose from

Pressure ØØ <sup>gauge</sup> Øf<u>Ør</u>g

narge hose

the soap with a clean cloth.

the cylinder

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 evacuation.

. -way valve

(Close)

Required time for evacuation when 30 gal/h

vacuum pump is used

If tubing length is less than 10m (33 ft) If tubing length is longer than 10m (33

10 min. or more 15 min. or more

When the desired vacuum is reached, close

Replace the valve caps at both gas and liquid

This completes air purging with a vacuum pump.

Replace the pipe cover to the outdoor unit by

Now the air conditioner is ready for test run.

Installation of WLAN Module

1 Turn off the power and unplug the power

\* The feature can be changed according to a type

side service valves and fasten them tight.

the knob of the 3-way valve and stop the

vacuum pump.

Gas side

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

\*The feature can be changed according a type

Finishing the Job

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

Outdoor uni

Manifold valv

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QQ



one screw

of model.

cord.

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

3 Remove the WLAN Port Cap.



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



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

5 Close the front panel. - Lift down both sides of the panel sloghtly



NOTE -

- When Dry Contact Mode is operated, WI AN Function can not be used. - In Wi-Fi mode when you want to change to a dry contact mode, normal operation after 3 minutes.

## 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

1 Remove the battery cover by pulling it ac-cording to the arrow direction. 2 Insert new batteries making sure that the (+) and (-) of battery are installed correctly.

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

 For reference; the gas side pressure at opti-mum condition is shown on table (cooling) The air conditioner is now ready to use.





The pressure of Refrigerant Outside ambi-ent TEMP. the gas side 8.5~9.5kg/cm<sup>2</sup>G(1

R-410A 35°C 20~135 P.S.I.G.) \*The feature can be changed according to a type

of model. NOTE -

If the actual pressure is higher than If the actual pressure is higher than shown, the system is most likely over-charged, 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.

## Pump down

9

This is performed when the unit is relocated or the refrigerant circuit is serviced. Pump Down means collecting all refrigerant into the outdoor unit without the loss of refrig-

3 Reattach the cover by pushing it back into position



- Use 2 AAA(1.5volt) batteries. Do not use rechargeable batteries. Remove the batteries from the remote controller if the system is not used for a long time

### Settlement of outdoor unit

Fix the outdoor unit with a bolt and nut(ø10mm) tightly and horizontally on a con-crete or rigid mount. When installing on the wall, roof or rooftop, anchor the mounting base securely with a nail or wire as suming the influence of wind and earthquake.

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



Be sure to perform Pump Down proce-dure in the cooling mode.

## Pump Down Procedure

- AUTION -

 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 0.5kg/cm<sup>2</sup> 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.

## C/O(Cooling Only) Mode C/O switching function set up

Supply power at Power-OFF state 2 Enter the Installer Code and set the code to 45 3 Press Power-ON button to select the code No. 45 then, check if buzzer beeps

4 Turn off Power 5 Turn the power back on after 30 sec.

C/O switching function disable set up

1 Supply power at Power-OFF state Enter the Installer Code and set the code to 46 Press Power-ON button to select the code No. 46 and check if buzzer beeps. 3 Turn off Power

4 Turn the power back on after 30 sec. \* How to enter the installer mode Press Reset Button and JET MODE Button

## CAUTION-

- Once the function is set up, heating and automatic operation cannot 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 - Considering the communication time of the



Sea wind

Select a well-drained place.

NOTE -

~<u>~</u>\_\_\_\_

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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.

⊡

In case, to install the outdoor unit on the sea-side, set up a windbreak not to be exposed to the sea wind. accessory built on the Air-conditioning, operate the accessory approximately after 1 min. - Entire lock or mode lock cannot be set if heating and automatic operation is set through central controller



## 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 prod-uct. Corrosion, particularly on the condens-er and evaporator fins, could cause prod-uct malfunction or inefficient performance. If outdoor unit is installed close to the sea-side, it should avoid direct exposure to the sea wind. Otherwise it needs additional anti-corrosion 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 seaside installation, please con-tact LG Electronics for the additional anticorrosion. - Periodic ( more than once/vear ) cleaning of the dust or salt particles stuck on the heat exchanger by using \* Do not use seawater you clean up the heat exchanger

Outdoor temperature

-10°C~48°C(14°F~118.4°F)

-25°C~24°C(-13°F~75.2°F)

11

- If you can't meet above guide line in







## -AUTION-

Capacity is based on standard length and maximum allowable length is on the basis of reliability. Additional refrigerant must be charged after 12.5 m (there is no need to charge till 12.5 m based on reliability

## **Operation ranges**

Mode

Cooling

Heating

10

The table below indicates the temperature ranges the air conditioner can be Operated within

Indoor temperature

18°C~30°C (64.4°F~86°F)

16°C~30°C(60.8°F~86°F)

