Owner's Manual

AUX

Split type wall mounted
air-conditioner

※ Please read this owner's manual carefully and thoroughly before operating the unit!

※ Take care of this manual for future reference.

AUX AIR CONDITIONER CO.,LTD.

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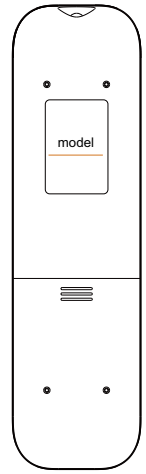
Note: All the illustrations in this manual are for explanation purpose only. Your air conditioner may be slightly different. The actual shape shall prevail.They are subject to change without notice for future improvement.

★Remote controller instructions

Users can scan the following QR code to obtain instructions

YKR-H/009E	YKR-H/501E	YKR-K/241E	YKR-T/031E	YK-T/031E	YKR-Q/001E YKR-Q/101E YKR-Q/051E		
YK-S/002E	YKR-S/001E	YKR-L/103E	YKR-L/201E YKR-L/202E	YKR-L/101E YKR-L/102E	YKR-H/133E YKR-H/103E		
YKR-M/101E YKR-C/101E YKR-C/111E YKR-C/111E-1	YKR-H/101E YKR-H/102E YKR-H/132E	YKR-H/531E YR-H/531E YK-M/003E	YKR-P/001E YKR-P/002E YKR-P/010E YKR-P/020E YKR-P/101E YKR-P/102E	YKR-T/011E YKR-T/012E YKR-T/021E YKR-T/121E YKR-T/111E YKR-T/051E YKR-T/061E YKR-C/001 YKR-T/131E YKR-T/131E-1	YK-C/121E YKR-C/121E YKR-C/121E-1 YKR-C/131E YKR-C/131E-1 YKR-C/141E YKR-C/141E-1	NOTE: The model of the remote control is showed on the back.	
YKR-T/301E	YKR-K/001E YKR-K/002E	YKR-C/011E	YKR-M/111E YKR-M/121E	YKR-C/161E YKR-C/171E	YKR-T/171E YKR-T/022E	YKR-K/231E	YKR-T/233E
YKR-C/201E YKR-C/211E							

★WIFI instructions

Users can scan the following QR code to obtain Wifi operation instructions.

	1.This QR code is the instruction for using WIFI	**Note: Some models do not have this function, please subject to the actual purchase.**
For Android For IOS	2.Download the WIFI app through this QR code	

8.Don't fill the tank to its full capacity (the liquid injection volume does not exceed 80% of the tank volume).
9.Even the duration is short, it must not exceed the maximum working pressure of the tank.
10.After the completion of the tank filling and the end of the operation process, you should make sure that the tanks and equipment should be removed quickly and all closing valves in the equipment are closed.
11.The recovered refrigerants are not allowed to be injected into another system before being purified and tested.

Note: The identification should be made after the appliance is scrapped and refrigerants are evacuated. The identification should contain the date and endorsement. Make sure the identification on the appliance can reflect the flammable refrigerants contained in this appliance.

Recovery:

1.The clearance of refrigerants in the system is required when repairing or scrapping the appliance. It is recommended to completely remove the refrigerant.
2.Only a special refrigerant tank can be used when loading the refrigerant into the storage tank. Make sure the capacity of the tank is appropriate to the refrigerant injection quantity in the entire system. All tanks intended to be used for the recovery of refrigerants should have a refrigerant identification (i.e. refrigerant recovery tank). Storage tanks should be equipped with pressure relief valves and globe valves and they should be in a good condition. If possible, empty tanks should be evacuated and maintained at room temperature before use.
3.The recovery equipment should be kept in a good working condition and equipped with equipment operating instructions for easy access. The equipment should be suitable for the recovery of R32 refrigerants. Besides, there should be a qualified weighting apparatus which can be normally used. The hose should be linked with detachable connection joint of zero leakage rate and be kept in a good condition.
Before using the recovery equipment, check if it is in a good condition and if it gets perfect maintenance. Check if ll electrical components are sealed to prevent the leakage of the refrigerant and the fire caused by it. If you have any question, please consult the manufacturer.
4.The recovered refrigerant shall be loaded in the appropriate storage tanks, attached with a transporting instruction, and returned to the refrigerant manufacturer. Don't mix refrigerant in recovery equipment, especially a storage tank.
5.The space loading R32 refrigeration can't be enclosed in the process of transportation. Take anti electrostatic measures if necessary in transportation. In the process of transport, loading and unloading, necessary protective measures must be taken to protect the air conditioner to ensure that the air conditioner is not damaged.
6.When removing the compressor or clearing the compressor oil, make sure the compressor is pumped to an appropriate level to ensure that there is no residual R32 refrigerants in the lubricating oil. The vacuum pumping should be carried out before the compressor is returned to the supplier. Ensure the safety when discharging oil from the system.

NOTE: FCC and IC related content only applies to models with WiFi function.

※ FCC WARNING

WARNING: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

※ FCC STATEMENT

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.
NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

※ IC STATEMENT

This device complies with Industry Canada licenceexempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.
Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage,
et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

※ IC STATEMENT

This equipment complies with FCC's and IC's RF radiation exposure limits set forth for an uncontrolled environment. The antenna(s) used for this transmitter must be installed and operated to provide a separation distance of at least 20cm from all persons and must not be collocated or operating in conjunction with any other antenna or transmitter. Installers must ensure that 20cm separation distance will be maintained between the device (excluding its handset) and users. Cet appareil est conforme aux limites d'exposition au rayonnement RF stipulées par la FCC et l'IC pour une utilisation dans un environnement non contrôlé. Les antennes utilisées pour cet émetteur doivent être installées et doivent fonctionner à au moins 20 cm de distance des utilisateurs et ne doivent pas être placées près d'autres antennes ou émetteurs ou fonctionner avec ceux-ci. Les installateurs doivent s'assurer qu'une distance de 20 cm sépare l'appareil (à l'exception du combiné) des utilisateurs.

WARNING: This air conditioner uses R32 flammable refrigerant.

Notes: Air conditioner with R32 refrigerant, if roughly treated, may cause serious harm to the human body or surrounding things.

∗The room space and refrigerant maximum charge requirements are shown below:

Refrigerant Type	Allowable Refrigerant Charge Amount(kg)	Min.Floor Area For Installation(m^2)
R32	＜1.84	7
	1.84~2.34	9
	2.341~2.84	10.5
	2.841~3.34	12.5
	3.341~3.84	14
	3.841~4.34	18

∗ Do not use means to accelerate the defrosting process or to clean, other than thoserecommended by the manufacturer.
∗ Not pierce or burn air conditioner, and check the refrigerant pipeline wether be damaged.
∗ The appliance shall be stored in a room without continuously operating ignition sources (for example: open flames, an operating gas appliance or an operating electric heater.
∗ Notice that the refrigerant may be tasteless.
∗ The storage of air conditioner should be able to prevent mechanical damage caused by accident.
∗ Maintenance or repair of air conditioners using R32 refrigerant must be carried out after security check to minimize risk of incidents.
∗ Air conditioner must be installed with stop valve cover.
∗ Please read the instruction carefully before installing, using and maintaining.

4.Through blowing process, the system is charged into the anaerobic nitrogen to reach the working pressure under the vacuum state, then the oxygen free nitrogen is emitted to the atmosphere, and in the end, vacuumize the system. Repeat this process until all refrigerants in the system is cleared. After the final charging of the anaerobic nitrogen, discharge the gas into the atmosphere pressure, and then the system can be welded.
This operation is necessary for welding the pipeline.

Procedures of Charging Refrigerants

As a supplement to the general procedure, the following requirements need to be added:
- Make sure that there is no contamination among different refrigerants when using a refrigerant charging device. The pipeline for charging refrigerants should be as short as possible to reduce the residual of refrigerants in it.
- Storage tanks should remain vertically up.
- Make sure the grounding solutions are already taken before the refrigeration system is charged with refrigerants.
- After finishing the charging (or when it is not yet finished), label the mark on the system.
- Be careful not to overcharge refrigerants.

Scrap and Recovery

Scrap:
Before this procedure, the technical personnel shall be thoroughly familiar with the equipment and all its features, and make a recommended practice for refrigerant safe recovery. For recycling the refrigerant, shall analyze the refrigerant and oil samples before operation. Ensure the required power before the test.
1.Be familiar with the equipment and operation.
2.Disconnect power supply.
3.Before carrying out this process, you have to make sure:
●If necessary, mechanical equipment operation should facilitate the operation of the refrigerant tank.
●All personal protective equipment is effective and can be used correctly.
●The whole recovery process should be carried out under the guidance of qualified personnel.
●The recovering of equipment and storage tank should comply with the relevant national standards.
4.If possible, the refrigerating system should be vacuumized.
5.If the vacuum state can't be reached, you should extract the refrigerant in each part of the system from many places.
6.Before the start of the recovery, you should ensure that the capacity of the storage tank is sufficient.
7.Start and operate the recovery equipment according to the manufacturer's instructions.

Maintenance Notice

Inspection of Cable

Check the cable for wear, corrosion, overvoltage, vibration and check if there are sharp edges and other adverse effects in the surrounding environment. During the inspection, the impact of aging or the continuous vibration of the compressor and the fan on it should be taken into consideration.

Leakage check of R32 refrigerant

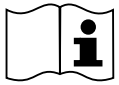
Note: Check the leakage of the refrigerant in an environment where there is no potential ignition source. No halogen probe (or any other detector that uses an open flame) should be used.
Leak detection method:
For systems with refrigerant R32, electronic leak detection instrument is available to detect and leak detection should not be conducted in environment with refrigerant. Make sure the leak detector will not become a potential source of ignition, and is applicable to the measured refrigerant. Leak detector shall be set for the minimum ignitable fuel concentration (percentage) of the refrigerant. Calibrate and adjust to proper gas concentration (no more than 25%) with the used refrigerant.
The fluid used in leak detection is applicable to most refrigerants. But do not use chloride solvents to prevent the reaction between chlorine and refrigerants and the corrosion of copper pipeline.
If you suspect a leak, then remove all the fire from the scene or put out the fire.
If the location of the leak needs to be welded, then all refrigerants need to be recovered, or, isolate all refrigerants away from the leak site (using cut-off valve). Before and during the welding, use OFN to purify the entire system.

Removal and Vacuum Pumping

1.Make sure there is no ignited fire source near the outlet of the vacuum pump and the ventilation is well.
2.Allow the maintenance and other operations of the refrigeration circuit should be carried out according to the general procedure, but the following best operations that the flammability is already taken into consideration are the key. You should follow the following procedures:
- Remove the refrigerant.
- Decontaminate the pipeline by inert gases.
- Evacuation.
- Decontaminate the pipeline by inert gases again.
- Cut or weld the pipeline.

3.The refrigerant should be returned to the appropriate storage tank. The system should be blown with oxygen free nitrogen to ensure safety. This process may need to be repeated for several times. This operation shall not be carried out using compressed air or oxygen.

WARNING

Symbol	Note	Explanation
	WARNING	This symbol shows that this appliance uses a flammable refrigerant. If the refrigerant is leaked and exposed to an external ignition source, there is a risk of fire. (Only for the AC with UL or ETL-MARKING,UL60335-2-40) .
	WARNING	This symbol shows that this appliance uses a flammable refrigerant. If the refrigerant is leaked and exposed to an external ignition source, there is a risk of fire. (For the AC with CE-MARKING & CB-MARKING, IEC 60335-2-40+A1:2016)
		This symbol shows that this appliance uses a low burning velocity material. (Only for the AC with CB-MARKING,IEC60335-2-40:2018)
		This symbol shows that this appliance uses a low burning velocity material.(For the AC with CB-MARKING & CE-MARKING, IEC 60335-2-40:2022 & EN IEC 60335-2-40:2024 and the latest version)
	CAUTION	This symbol shows that the operation manual should be read carefully.
	CAUTION	This symbol shows that a service personnel should be handling this equipment with reference to the installation manual.
	CAUTION	This symbol shows that information is available such as the operating manual or installation manual.

Incorrect installation or operation by not following these instructions may cause harm or damage to people, properties, etc.
The seriousness is classified by the following indications:

⚠ WARNING	⚠ CAUTION
This symbol indicates the possibility of death or serious injury.	This symbol indicates the possibility of injury or damage to properties.

⚠ WARNING

This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved.
Children shall not play with the appliance.
Cleaning and user maintenance shall not be made by children without supervision.
(Only for the AC with CE-MARKING)

This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
Children should be supervised to ensure that they do not play with the appliance.
(Except for the AC with CE-MARKING)

1.The air conditioner must be grounded. Incomplete grounding may result in electric shocks. Do not connect the earth wire to the gas pipeline, water pipeline, lightning rod, or telephone earth wire.

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

3.Don't pull the power cable. The damage of pulling power cord will cause serious electric shock.

4.No ignition sources:
No person carrying out work in relation to a refrigeration system which involves exposing any pipe work shall use any sources of ignition in such a manner that it may lead to the risk of fire or explosion. All possible ignition sources, including cigarette smoking, should be kept sufficiently far away from the site of installation, repairing, removing and disposal, during which refrigerant can possibly be released to the surrounding space. Prior to work taking place, the area around the equipment is to be surveyed to make sure that there are no flammable hazards or ignition risks.'No Smoking' signs shall be displayed.

5.Ventilated Area(open the door and window):
Ensure that the area is in the open or that it is adequately ventilated before breaking into the system or conducting any hot work. A degree of ventilation shall continue during the period that the work is carried out. The ventilation should safely disperse any released refrigerant and preferably expel it externally into the atmosphere.

6.Checks to the refrigeration equipment:
Where electrical components are being changed, they shall be fit for the purpose and to the correct specification. At all times the manufacturer's maintenance and service guidelines shall be followed. If in doubt, consult the manufacturer's technical department for assistance. The following checks shall be applied to installations using flammable refrigerants:

- The charge size is in accordance with the room size within which the refrigerant containing parts are installed.
- The ventilation machinery and outlets are operating adequately and are not obstructed.
- If an indirect refrigerating circuit is being used, the secondary circuit shall be checked for the presence of refrigerant.
- Refrigeration pipe or components are installed in a position where they are unlikely to be exposed to any substance which may corrode refrigerant containing components, unless the components are constructed of materials which are inherently resistant to being corroded or are suitably protected against being so corroded.

7.Checks to electrical devices:
Repair and maintenance to electrical components shall include initial safety checks and component inspection procedures. If a fault exists that could compromise safety, then no electrical supply shall be connected to the circuit until it is satisfactorily dealt with. If the fault cannot be corrected immediately but it is necessary to continue operation, an adequate temporary solution shall be used. This shall be reported to the owner of the equipment so all parties are advised. Initial safety checks shall include:

- That capacitors are discharged: this shall be done in a safe manner to avoid possibility of sparking.
- That no live electrical components and wiring are exposed while charging, recovering or purging the system.
- Keep continuity of earthing.

Maintenance Notice

Attention:
For maintenance or scrap, please contact authorized service centers.
Maintenance by unqualified person may cause dangers.
Feed air conditioner with R32 refrigerant, and maintain the air conditioner in strictly accordance with manufacturer's requirements. The chapter is mainly focused on special maintenance requirements for appliance with R32 refrigerant.
Ask repairer to read after-sales technical service handbook for detailed information.

Qualification requirements of maintenance personnel

1.Special training additional to usual refrigerating equipment repair procedures is required when equipment with flammable refrigerants is affected. In many countries, this training is carried out by national training organisations that are accredited to teach the relevant national competency standards that may be set in legislation. The achieved competence should be documented by a certificate.
2.The maintenance and repair of the air conditioner must be conducted according to the method recommended by the manufacturer. If other professionals are needed to help maintain and repair the equipment, it should be conducted under the supervision of individuals who have the qualification to repair AC equipped with flammable refrigerant.

Inspection of the Site

Safety inspection must be taken before maintaining equipment with R32 refrigerant to make sure the risk of fire is minimized. Check whether the place is well ventilated, whether anti-static and fire prevention equipment is perfect. While maintaining the refrigeration system, observe the following precautions before operating the system.

Operating Procedures

1.General work area:
All maintenance staff and others working in the local area shall be instructed on the nature of work being carried out. Work in confined spaces shall be avoided. The area around the workspace shall be sectioned off. Ensure that the conditions within the area have been made safe by control of flammable material.
2. Checking for presence of refrigerant:
The area shall be checked with an appropriate refrigerant detector prior to and during work, to ensure the technician is aware of potentially toxic or flammable atmospheres. Ensure that the leak detection equipment being used is suitable for use with all applicable refrigerants, i.e. non-sparking, adequately sealed or intrinsically safe.
3.Presence of fire extinguisher:
If any hot work is to be conducted on the refrigeration equipment or any associated parts, appropriate fire extinguishing equipment shall be available to hand. Have a dry powder or CO2 fire extinguisher adjacent to the charging area.

Safety Precautions

4.Always switch off the device and cut the power supply when the unit is not in use for long time so as to ensure safety.
5.Don't cut off main power switch during operating or with wet hands. It may cause electric shock.
6.Don't share the socket with other electric appliance. Otherwise, it may cause electric shock even fire and explosion.
7.Always switch off the device and cut the power supply before performing any maintenance or cleaning. Otherwise, it may cause electric shock or damage.
8.Take care not let the remote control and the indoor unit watered or being too wet. Otherwise, it may cause short circuit.
9.A warning that ducts connected to an appliance shall not contain an ignition source.
10.Don't install air conditioner in a place where there is flammable gas or liquid. The distance between them should be above 1m. Otherwise, it may cause fire even explosion.
11.Don't use liquid or corrosive cleaning agent wipe the air conditioner and sprinkle water or other liquid either. Doing this may cause electric shock or damage to the unit.
12.Don't attempt to repair the air conditioner by yourself. Incorrect repairs may cause fire or explosion. Contact a qualified service technician for all service requirement.
13.Don't use air conditioner in lightning storm weather. Power supply should be cut in time to prevent the occurrence of danger.
14.Don't put hands or any objects into the air inlets or outlets. This may cause personal injury or damage to the unit.
15.Please note whether the installed stand is firm enough or not. If it is damaged, it may lead to the fall of the unit and cause the injury.
16.Don't block air inlet or air outlet. Otherwise, the cooling or heating capacity will be weakened, even cause system stop operating.
17.Don't let the air conditioner blow against the heater appliance. Otherwise it will lead to incomplete combustion, thus causing poisoning.
18.An earth leakage breaker with rated capacity must be installed to avoid possible electric shocks.
19.The appliance shall be installed in accordance with national wiring regulations.

Safety precautions

This product contains fluorinated greenhouse gases.

Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to [675]. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be [675] times higher than 1 kg of CO2 , over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.

Ensure no following objects under the indoor unit:
1. microwaves, ovens and other hot objects.
2. computers and other high electrostatic appliances.
3. sockets that plug frequently.

The joints between indoor and outdoor unit shall not be reused, unless after re-flaring the pipe.

The specifications of the fuse are printed on the circuit board, such as: 3.15A/250V AC, etc.

WEEE Warning

Meaning of crossed out wheeled dustbin:

Do not dispose of electrical appliances as unsorted municipal waste, use separate collection facilities.
Contact you local government for information regarding the collection systems available.
If electrical appliances are disposed of in landfills or dumps, hazardous substances can leak into the groundwater and get into the food chain, damaging your health and well-being. When replacing old appliances with new ones, the retailer is legally obligated to take back your old appliance for disposals at least free of charge.

Check after installation and test operation

Check after installation

★ Electrical Safety Check
1. If the supply voltage is as required.
2. If there is any faulty or miss connection in each of the power, signal and grounding wires.
3. If the grounding wire of the air conditioner is securely grounded.

★ Installation Safety Check
1. If the installation is secure.
2. If the water drain is smooth.
3. If the wiring and piping are correctly installed.
4. Check that no foreign matter or tools are left inside the unit.
5. Check the refrigerant pipeline is protected well.

★ Leak test of the refrigerant

Depending on the installation method, the following methods may be used to check for suspect leak, on areas such as the four connections of the outdoor unit and the cores of the cut-off valves and t-valves:
1.Bubble method: Apply of spray a uniform layer of soap water over the suspected leak spot and observe carefully for bubble.
2.Instrument method: Checking for leak by pointing the probe of the leak detector according to the instruction to the suspect points of leak.
Note: Make sure that the ventilation is good before checking.

Test Operation

Test Operation preparation:
※Verify that all piping and connection cables are well connected.
※Confirm that the valve at the gas side the liquid-side are fully open.
※Connect the power cable to an independent power socket.
※Install batteries in remote control.
Note: Make sure that the ventilation is good before testing.

Test Operation method:
1. Turn on the power and push the ON/OFF switch button of the remote controller to start the air conditioner.
2. Select COOL, HEAT (not available on cool-only models), SWING and other operation modes with the remote controller and see if the operation is ok.

NOTE:

※ This manual usually includes the wiring mode for the different kind of air conditioner. We cannot exclude the possibility that some special type of wiring diagrams are not included .

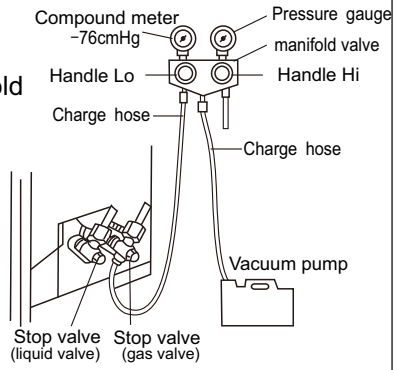
※ The diagram are for reference only. If the entity is difference with this wiring diagram, please refer to the detailed wiring diagram adhered on the unit which you purchased.

Vacuuming

★Exclusive R32 refrigerant pump must be used in making R32 refrigerant vacuum.

Before working on the air conditioner, remove the cover of the stop valve(gas and liquid valves)and be sure to retighten it afterward.(to prevent the potential air leakage).

1. To prevent air leakage and spilling tighten all connecting nut of all flare tubes.
2. Connect the stop valve, charge hose, manifold valve, and vacuum pump.
3. Fully open the handle Lo of the manifold valve and apply vacuum for at least 15 minutes and check that the compound vacuum gauge reads -0.1MPa(-76cmHg).
4. After applying vacuum, fully open the stop valve with a hex wrench.
5. Check that both indoor and outdoor connections are free of air leakage.



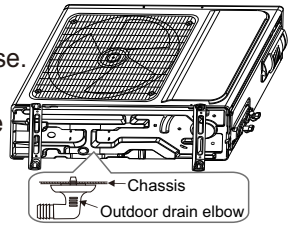
IMPORTANT: The unit with the quick connectors does not require vacuum pumping.

Outdoor condensation drainage(Heat pump type only)

When the unit is heating, the condensing water and defrosting water can be out reliably through the drain house.

Installation：

Install the outdoor drain elbow in Φ25mm(1in) hole on the base plate, and joint the drain hose to the elbow, so that the waste water formed in the outdoor unit can be drained out to a proper plate.



⚠ CAUTION

1. Don't open the windows and doors for long time when the air conditioner is running. Otherwise, the cooling or heating capacity will be weakened
2. Don't stand on the top of the outdoor unit or place heavy things on it. This could cause personal injuries or damage the unit.
3. Don't use the air conditioner for other purposes, such as drying clothes, preserving foods, etc.
4. Don't apply the cold air to the body for a long time. It will deteriorate your physical conditions and cause health problems.
5. Set the suitable temperature.
   It is recommended that the temperature difference between indoor and outdoor temperature should not be too large. Appropriate adjustments of the setting temperature can prevent the waste of electricity.
6. If your air conditioner is not fitted with a supply cord and a plug, an anti-explosion all-pole switch must be installed in the fixed wiring and the distance between contacts should be no less than 3.0mm (0.12in).

If your air conditioner is permanently connected to the fixed wiring, a anti-explosion residual current device (RCD) having rated residual operating current not exceeding 30 mA should be installed in the fixed wiring.

The power supply circuit should have leakage protector and air switch of which the capacity should be more than1.5 times of the maximum current.

Regarding the installation of the air conditioners, please refer to the below paragraphs in this manual.

The conditions of unit can't normally run

* Within the temperature range provided in following table, the air conditioner may stop running and other anomalies may arise.

Cooling	Outdoor	＞43℃(109℉) (Apply to T1)
		＞52℃(126℉) (Apply to T3)
	Indoor	＜18℃(64℉)
Heating	Outdoor	＞24℃(75℉)
		＜-7℃(19℉)
	Indoor	＞27℃(81℉)

* When the temperature is too high, the air conditioner may activate the automatic protection device, so that the air conditioner could be shut down.
* When the temperature is too low, the heat exchanger of the air conditioner may freeze, leading to water dripping or other malfunction.
* In long-term cooling or dehumidification with a relative humidity of above 80% (doors and windows are open), there may be water condenses or dripping near the air outlet.
* T1 and T3 refer to ISO 5151.

Notes for heating

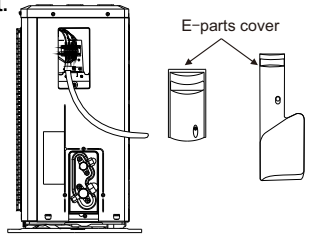
* The fan of the indoor unit will not work immediately when the heating is started to avoid blowing out cool air.
* When it is cold and wet outside, the outdoor unit will develop frost over the heat exchanger which will increased the heating capacity. Then the air conditioner will start defrost function.
* During defrost, the air conditioner will stop heating for about 5-12 minutes.
* Vapor may come out from the outdoor unit during defrost. This is not a malfunction, but a result of fast defrost.
* Heating will resume after defrost is complete.

Notes for turning off

* When the air conditioner is turned off, the main controller will automatically decide whether to stop immediately or after running for dozens of seconds with lower frequency and lower air speed.

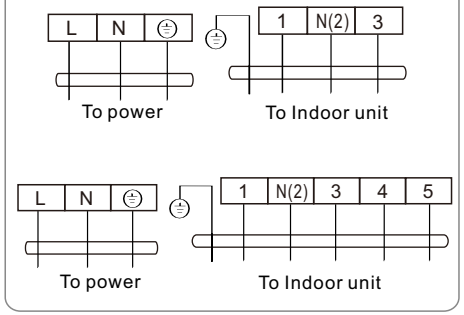
Wiring Connection

1.Loosen the screws and remove E-parts cover from the unit.
2.Connect the cables respectively to the corresponding terminals of the terminal board of the outdoor unit (see the wiring diagram), and if there are signals connected to the plug, just conduct butt joint.
3.Ground wire: Remove the grounding screw out of the electric bracket, cover the grounding wire end onto the grounding screw and screw it into the grounding hole.
4.Fix the cable reliably with fasteners (Pressing board).
5.Put the E-parts cover back in its original place and fasten it with screws.

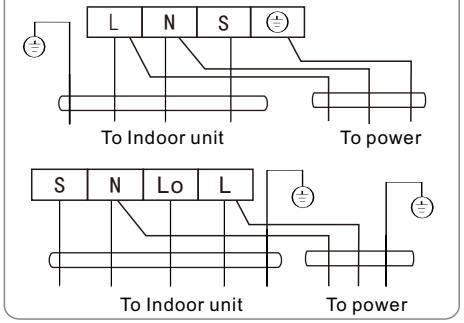


Wiring diagram

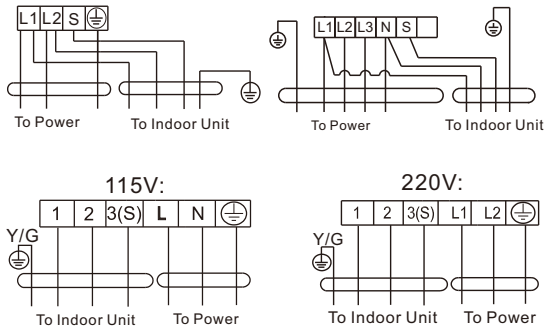
constant speed



Variable speed



Variable speed

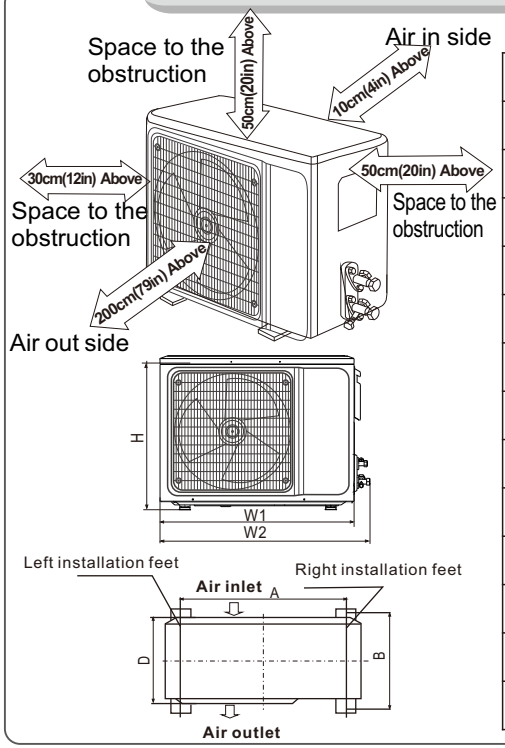


Connector

If there is a connector, connect it directly.

Installation for outdoor unit

Dimension drawing of outdoor unit installation

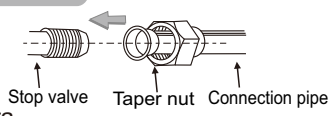


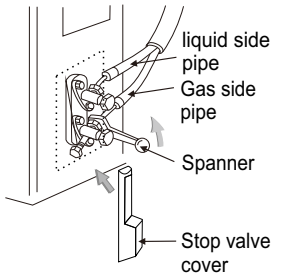
Installation outdoor unit bolt

Outdoor Unit Size of Shape W1(W2)*H*D) mm(in)	A mm(in)	B mm(in)
665(710)×420×280 26.2(28.0)×16.5×11.0	430(16.9)	280(11.0)
660(710)×500×240 26.0(28.0)×19.7×9.4	500(19.7)	260(10.2)
730(780)×545×285 28.7(30.7)×21.5×11.2	540(21.3)	280(11.0)
709(761)×536×280 27.9(30.0)×21.1×11.0	480(18.9)	283(11.1)
750(804)×550×285 29.5(31.7)×21.7×11.2	480(18.9)	283(11.1)
800(860)×545×315 31.5(33.9)×21.5×12.4	545(21.5)	315(12.4)
785(845)×555×300 30.9(33.3)×21.9×11.8	546(21.5)	316(12.4)
825(880)×655×335 32.5(34.6)×25.8×13.2	540(21.3)	335(13.2)
900(950)×700×360 35.4(37.4)×27.6×14.2	632(24.9)	352(13.9)
970(1044)×805×395 38.2(41.1)×31.7×15.6	675(24.6)	410(16.1)
940(1010)×1320×370 37.0(39.8)×52.0×14.6	625(24.6)	364(14.3)
940(1008)×1366×401 37.0(39.7)×53.8×15.8	610(24.0)	388(15.3)
650(703)×455×233 25.6(27.7)×17.9×9.2	480(18.9)	253(10.0)

Install the connection pipe

Connect the Outdoor Unit with Connecting Pipe:
Aim the counter-bore of the connecting pipe at the stop valve, and tighten the Taper nut with fingers.
Then tighten the Taper nut with a torque wrench.
★When the length of the connecting pipe is changed, extra amount of refrigerant need to be added or reduced, so that the operation and performance of the air conditioner will not be compromised.





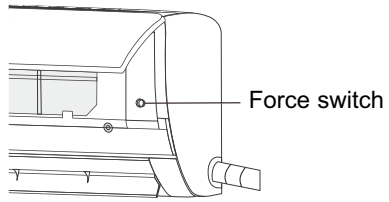
Length of connection pipe	Added or reduced refrigerant		Amount of refrigerant for the unit
<3M(9.8ft)	CC≤12000Btu	reduce 20g/m	≤1Kg
	CC≥18000Btu	reduce 40g/m	≤2Kg
3-5M(9.8-16.4ft)	Not needed		
5-15M(16.4-49.2ft)	CC≤12000Btu	add 16g/m	≤1Kg
	CC≥18000Btu	add 24g/m	≤2Kg

Note: 1.This table is for reference only.
2.The joints shall not be reused, unless after re-flaring the pipe.
3.After installation, check the stop valve cover whether be fixed effectively.
IMPORTANT: If the unit with the quick connectors, please refer to the booklet of "Install the connection pipe(the unit with the quick connectors)".

Notices for usage

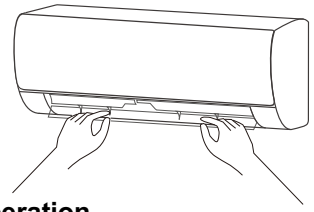
Emergency operation

* If the remote controller is lost or broken, use force switch button to operate the air conditioner.
* If this button is pushed with the unit OFF, the air conditioner will operate in Auto mode.
* If this button is pushed with the unit ON, the air conditioner will stop running.



Airflow direction adjustment

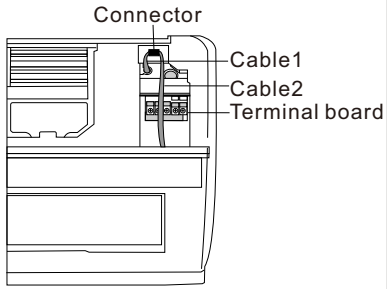
1. Use up-down swing and left-right swing buttons on the remote controller to adjust the airflow direction. Refer to the operation manual of the remote controller for detail.
2. For models without left-right swing function, the air vent has to be moved manually.



Note: Move the air vents before the unit is in operation, or your finger might be injured.
Never place your hand into the air inlet or outlet when the air conditioner is in operation.

Specific caution

1.Open front panel of the indoor.
2.The connector(as Fig) can not touch the terminal board, and is positioned as shown in Fig.



Indoor unit

There are two kinds about Indoor unit, Fig A ,Fig B,the actual shape shall prevail.

Fig A

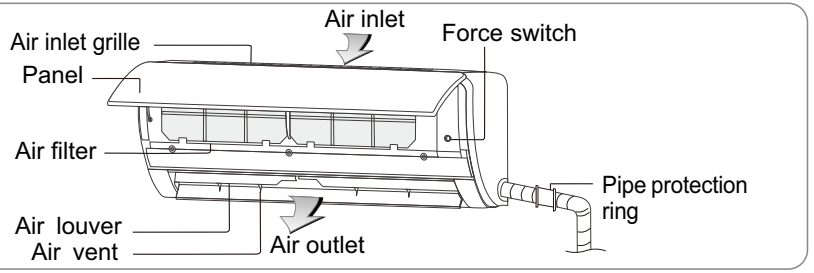
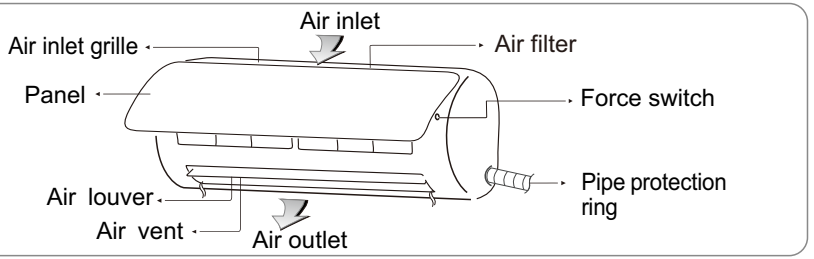
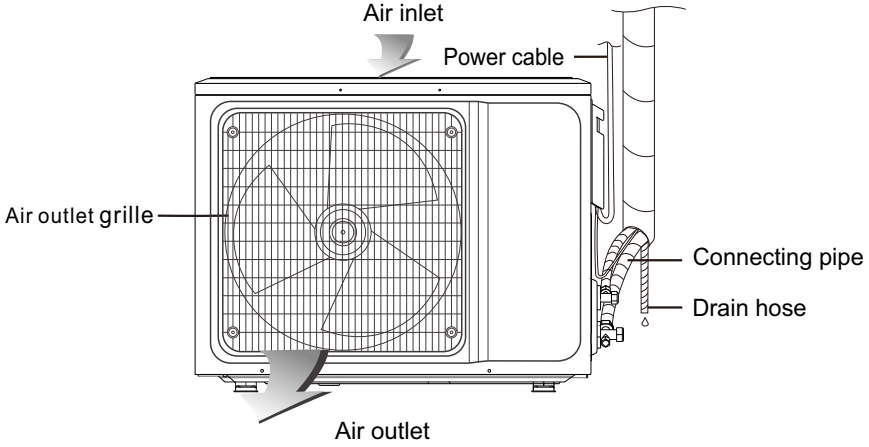


Fig B



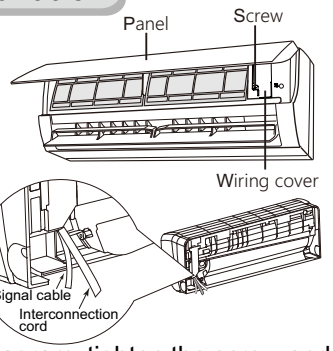
Outdoor unit



Note: All the illustrations in this manual are for explanation purpose only.
Your air conditioner may be slightly different. The actual shape shall prevail.
They are subject to change without notice for future improvement.
Plug, WIFI function, Negative-ion function, and Vertical and horizontal swing function both are optional,the actual unit shall prevail.

Interconnection cord installation

● Connect interconnection cord of indoor unit



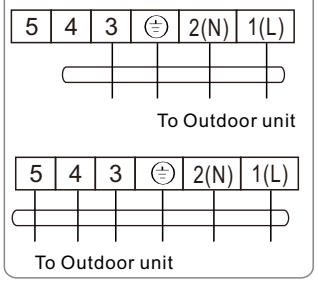
1. Open the panel, remove the screw on the wiring cover and then take down the cover.
2. Make the interconnection cord go through the cable-cross hole at the back of indoor unit and then pull it out from the front side.
   (Some models do not have a signal cable.)
3. Remove the wire clip; connect the interconnection cord to the wiring terminal according to the wiring diagram; tighten the screw and then fix the interconnection cord with wire clip.

NOTE:

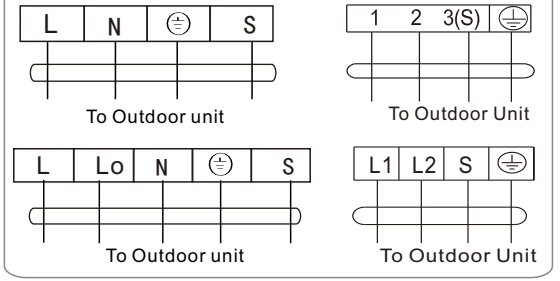
※This manual usually includes the wiring mode for the different kind of air conditioner. We cannot exclude the possibility that some special type of wiring diagrams are not included.

※The diagram are for reference only. If the entity is difference with this wiring diagram, please refer to the detailed wiring diagram adhered on the unit which you purchased.

constant speed

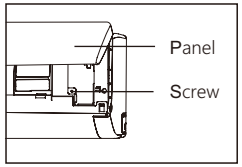


Variable speed



Connector

If there is a connector, connect it directly.



4. Put wiring cover back and then tighten the screw.
5. Close the panel.

● After installation check

1.The screws whether have been fixed effectively, and there is no risk of loosening.
2.Connector of display board whether put in the right place and do not touch the terminal board.
3.Control box cover whether cover tightly.

Installation for indoor unit

Route of Pipeline

1. Depending on the position of the unit, the piping may be routed sideway from the left or the right (Fig 1), or vertically from the back(Fig 2)(depending on the pipe length of the indoor unit). In the case of sideway routing, cut off the outlet cutting stock of the opposite side.

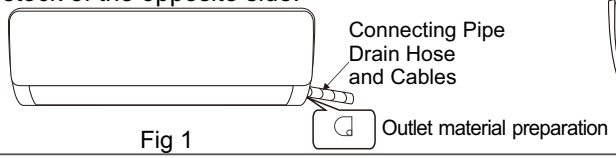


Fig 1

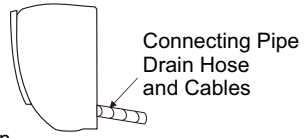


Fig 2

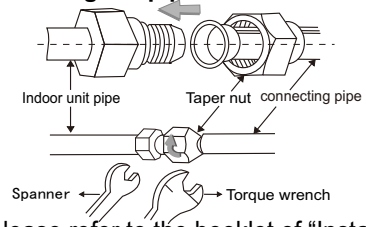
Install the connection pipe

1. Remove the fixed part to pull out pipe of indoor machine from the case. Screw the hexagon nut in the left of the joint to the end with your hand.
2. Connect the connecting pipe to the indoor unit:
   Aim at the pipe center, tighten the Taper nut with fingers, and then tighten the Taper nut with a torque wrench, and the direction is shown in diagram on the right. The torque used is shown in the following table.

Note: **Carefully check if there is any damage of joints before installation.**
The joints shall not be reused, unless after re-flaring the pipe.

Tightening torque table

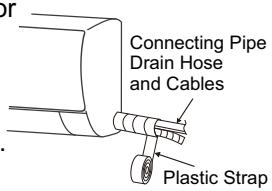
The size of pipe *(mm(in))*	Torque(N • m)
Φ6/Φ6.35(1/4)	15-25
Φ9/Φ9.52(3/8)	35-40
Φ12/Φ12.7(1/2)	45-60
Φ15.88(5/8)	73-78
Φ19.05(3/4)	75-80



IMPORTANT: If the unit with the quick connectors, please refer to the booklet of “Install the connection pipe(the unit with the quick connectors)”.

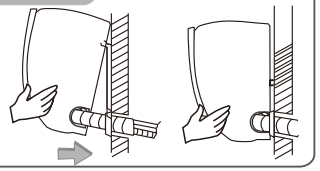
Wrap the Piping

1. Use the insulation sleeve to wrap the joint part the indoor unit and the connection pipe, and then use insulating material to pack and seal insulation pipe, to prevent generation of condensate water on the joint part.
2. Connect the water outlet with drain pipes, and make the connection pipe, cables, and the drain hose straight.
3. Use plastic cable ties to wrap the connecting pipes, cables and drain hose. Run the pipe sloping downward.



Fixing the Indoor Unit

1. Hang the indoor unit on the peg board, and move the unit from left to right to ensure that the hook is properly positioned in the peg board.
2. Push toward the lower left side and the upper right side of the unit toward the peg board, until the hook is embedded in the slot and makes a "click" sound.



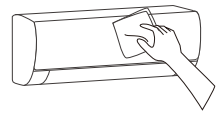
Clean and care

⚠ WARNING

- Before the cleaning of the air conditioner, it must be shut down and the electricity must be cut off for more than 5 minutes, otherwise there might be the risk of electric shocks.
- Do not wet the air conditioner, which can cause an electric shock. Make sure not to rinse the air conditioner with water under any circumstances.
- Volatile liquids such as thinner or gasoline will damage the air conditioner housing, therefore please clean the housing of air conditioner only with soft dry cloth and damp cloth moistened with neutral detergent.
- In the course of the usage, pay attention to cleaning the filter regularly, to prevent the accumulation of dust which may affect the air conditioner performance . If the service environment of the air conditioner is dusty, correspondingly increase the number of times of cleaning. After removing the filter, do not touch the fin part of the indoor unit with the finger, and no force to damage the refrigerant pipeline.

Clean the panel

When the panel of the indoor unit is contaminated, clean it gently with a wrung towel using tepid water below 40℃ (104℉), and do not remove the panel while cleaning.



Clean the air filter

■ Remove the air filter

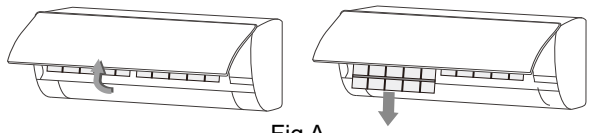


Fig A

1. Use both hands to open the panel for an angle from both ends of the panel in accordance with the direction of the arrow.
2. Release the air filter from the slot and remove it.

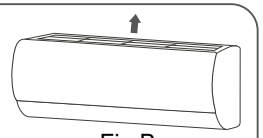
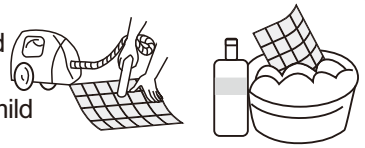


Fig B

The air filter is locate above the fuselage. Take it out facing upward.

■ Clean the Air Filter

Use a vacuum cleaner or water to rinse the filter, and if the filter is very dirty (for example, with greasy dirt), clean it with warm water (below 45 ℃(113℉)) with mild detergent , and then put the filter in the shade to dry in the air.



■ Mount the Filter

Reinstall the dried filter in reverse order of removal, then cover and lock the panel.

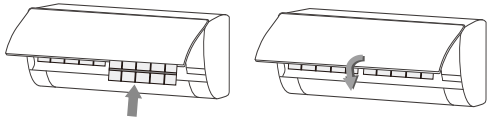


Fig A

Reinstall the dried filter in reverse order of removal.

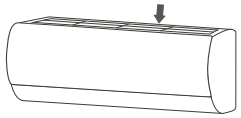


Fig B

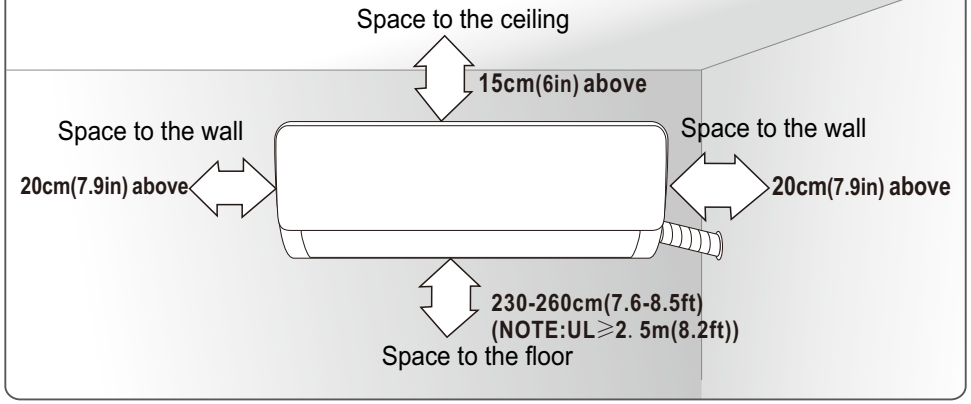
Check before using

1. Check whether all the air inlets and outlets of the units are unblocked.
2. Check whether there is blocking in the water outlet of the drain pipe, and immediately clean it up if any.
3. Check the ground wire is reliably grounded.
4. Check whether the remote control batteries are installed, and whether the power is sufficient.
5. Check whether there is damage in the mounting bracket of the outdoor unit, and if any, please contact our local service center.

Maintain after using

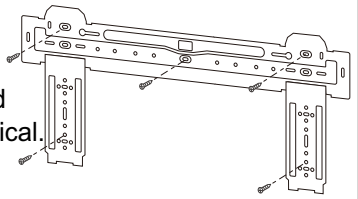
1. Cut off the power source of the air conditioner, turn off the main power switch and remove the batteries from the remote controller.
2. Clean the filter and the unit body.
3. Remove the dust and debris from the outdoor unit.
4. Check whether there is damage in the mounting bracket of the outdoor unit, and if any, please contact our local service center.

Dimension drawing of indoor unit installation



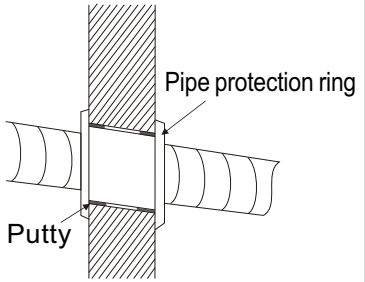
Mounting plate

1. The wall for installation of the indoor unit shall be hard and firm, so as to prevent vibration.
2. Use the "+" type screw to fasten the peg board, horizontally mount the peg board on the wall, and ensure the lateral horizontal and longitudinal vertical.
3. Pull the peg board by hand after the installation, to confirm whether it is solid.



Wall-through Hole

1. Make a hole with an electric hammer or a water drill at the predetermined position on the wall for piping, which shall slant outwardly by 5°-10°.
2. To protect the piping and the cables from being damaged running through the wall, and from the rodents that may inhabit in the hollow wall, a pipe protecting ring shall be installed and sealed with putty.



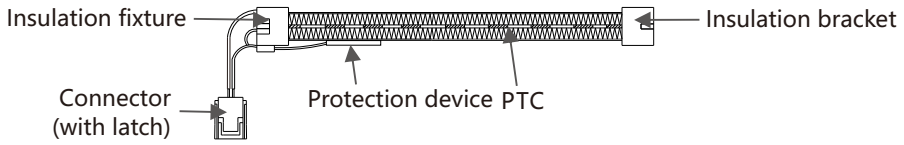
Note: Usually, the wall hole is Φ60mm~Φ80mm. Avoid pre-buried power wire and hard wall when making the hole.

Others

- The connection method of the air conditioner and the power cable and the interconnection method of each independent element shall be subject to the wiring diagram affixed to the machine.
- The model and rating value of the fuse shall be subject to the silkscreen on corresponding controller or fuse sleeve.

NOTE: Only applicable to models with auxiliary heating part.

- The electric auxiliary heating components are assembled and fixed inside the indoor evaporator.They are ceramic PTC (Positive Temperature Coefficient) electric heating elements. The input power can be found on the nameplate labeled "Electric Heating Input Power" (some models may not have this);
- The external static pressure of the air conditioner at the test location is 0Mpa;
- Maintain a distance of 12mm between the auxiliary electric heater and the casing to prevent fire hazards caused by combustion.
- If the auxiliary electric heater, PTC, or protection device is damaged, it should be replaced by a professional using components provided by our company.



Note: This diagram is for reference only.

Please refer to the actual installation of the indoor unit.

Packing list

Packing list of the indoor unit

Name	Quantity	Unit
Indoor Unit	1	Set
Remote Controller(*)	1	PC
Batteries (AAA) (*)	2	PC
Instructions	1	Set
Drain pipe (*)	1	PC

Packing list of the outdoor unit

Name	Quantity	Unit
Outdoor Unit	1	Set
Connecting pipe(*)	2	PC
Plastic Strap(*)	1	ROLL
Pipe Protection Ring(*)	1	PC
Luting (putty) (*)	1	PACKET

NOTE: Optional parts(*),some models without.
Interconnection cord and sound deadening pads is optional accessorie.
All accessories shall be subject to actual packaging material, and if there is any difference, please understand.

⚠ CAUTION

* Do not repair the air conditioner by yourself as wrong maintenance may cause electric shock or fire or explode, please contact the authorized service center and let the professionals conduct the maintenance, and checking the following items prior to contacting for maintenance can save your time and money.

Phenomenon	Troubleshooting
The air conditioner does not work.	● There might be power outages.→ Wait until power is restored. ● Power plug may be loose out from the socket. →The plug in the plug tightly. ● Power switch fuse may blow.→ Replace the fuse. ● The time for timing boot is yet to come. →Wait or cancel the timer settings.
The air conditioner can't run after the immediate start-up after it is shut down.	● If the air conditioner is turned on immediately after it is turned off, the protective delay switch will delay the operation for 3 to 5 minutes.
The air conditioner stops running after it starts up for a while.	● May have reached the setting temperature. → It is a normal function phenomenon. ● May be at a defrosting state. → It will automatically restore and run again after defrosting. ● Shutdown Timer may be set. → If you continue to use, please turn it on again.
The wind blows out, but the cooling/ heating effect is not good.	● Excessive accumulation of dust on filter, blocking at air inlet and outlet, and the excessively small angle of the louver blades all will affect the cooling and heating effect. → Please clean the filter, remove the obstacles at the air inlet and outlet and regulate the angle of the louver blades. ● Poor cooling and heating effect caused by doors and windows opening, and unclosed exhaust fan. →Please close the doors, windows, the exhaust fan, etc. ● Auxiliary heating function is not turned on while heating, which may lead to poor heating effect. →Turn on the auxiliary heating function. (only for models with auxiliary heating function) ● Mode setting is incorrect, and the temperature and wind speed settings are not appropriate. →Please re-select the mode, and set the appropriate temperature and wind speed.
The indoor unit blows out odor.	● The air conditioner itself does not have undesirable odor. If there is odor, it may be due to accumulation of the odor in the environment. →Clean the air filter or activate the cleaning function.

Troubleshooting

There is sound of running water during the running of air conditioner.	● When the air conditioner is started up or stopped, or the compressor is started up or stopped during the running, sometimes the "hissing" sound of running water can be heard. → This is the sound of the flow of the refrigerant, not a malfunction.
A slight "click" sound is heard at the of start-up or shut-down.	● Due to temperature changes, panel and other parts will swell, causing the sound of friction. → This is normal, not a fault.
The indoor unit makes abnormal sound.	● The sound of fan or compressor relay switched on or off. ● When the defrosting is started or stop running, it will create sound. →That is due to the refrigerant flows to reverse direction. They are not malfunctions. ● Too much dust accumulation on the air filter of the indoor unit may result in fluctuation of the sound. → Clean the air filters in time. ● Too much air noise when "Strong wind" is turned on. →This is normal, if feeling uncomfortable, please deactivate the "Strong wind" function.
There are water drops over the surface of the indoor unit.	● When ambient humidity is high, water drops will be accumulated around the air outlet or the panel, etc. →This is a normal physics phenomenon. ● Prolonged cooling run in open space produces water drops. →Close the doors and windows. ● Too small opening angle of the louver blades may also result in water drops at the air inlet. →Increase the angle of the louver blades.
During the cooling operation, the indoor unit outlet sometimes will blow out mist.	● When the indoor temperature and humidity are high, it happens sometimes. →This is because the indoor air is cooled rapidly. After it runs for some time, the indoor temperature and humidity will be reduced and the mist will disappear.

⚠ Immediately stop all operations and cut off the power supply , contact our Service center locally in following situations.

▲ Hear any harsh sound or smell any awful odor during running.
▲ Abnormal heating of power cable and plug occurs.
▲ The unit or remote controller has any impurity or water.
▲ Air switch or leakage protection switch is often disconnected.

Notices for installation

● The size of the interconnection cord, power cable, fuse, and switch needed is determined by the maximum current of the unit. The maximum current is indicated on the nameplate located on the side panel of the unit. Refer to this nameplate to choose the right cable, fuse, or switch.
● Note: Core number of cable refer to the detailed wiring diagram adhered on the unit which you purchased.
● Means for disconnection must be incorporated in the fixed wiring in accordance with the wiring rules.

Requirements for operations at raised height

● When carrying out installation at 2m(6.6ft) or higher above the base level, safety belts must be worn and ropes of sufficient strength be securely fasten to the outdoor unit, to prevent falling that could cause personal injury or death as well as property loss.

Grounding Requirements

● The air conditioner is the class I electrical appliance and must ensure a reliable grounding.
● Do not connect the grounding wire to a gas pipe, water pipe, lightning rod, telephone line, or a circuit poorly grounded to the earth.
● The grounding wire is specially designed and shall not be used for other purpose, nor shall it be fastened with a common tapping screw.
● Interconnection cord diameter should be recommended as per instruction manual ,and with type O terminal that meet local standards (internal diameter of type O terminal needs to match the screw size of the unit, no more than 4.2mm(0.17in)). After installation, check the screws whether have been fixed effectively, and there is no risk of loosening.

- The mounting rack of the outdoor unit shall be fastened with expansion bolt.
- Ensure the secure installation regardless of what type of wall on which it is installed, to prevent potential dropping that could hurt people.

Electrical Safety Requirements

- Be sure to use the rated voltage and air conditioners dedicated circuit for the power supply, and the power cable diameter must meet the national requirements.
- When the maximum current of air conditioner is ≥16A, it must use the air switch or leakage protection switch equipped with protection devices.
- The operating range is 90%-110% of the local rated voltage. But insufficient power supply malfunction, electrical shock, or fire. If the voltage instability, proposed to increase the voltage regulator.
- The minimum clearance between the air conditioner and the combustibles is 1.5m(4.9ft).
- The interconnection cord connect the indoor and outdoor units. You must first choose the right cable size before preparing it for connection.
- The supply cord of appliances for outdoor use shall be between 1.5(4.9ft) and 3m (9.8ft) long and shall be either an EXTRA HARD USAGE or a HARD USAGE CORD. (Only for the AC with UL or ETL-MARKING,UL60335-2-40)
  Cable Types: Outdoor Power Cable: H07RN-F or H05RN-F; Interconnection cord: H07RN-F or H05RN-F; (For the AC with CE-MARKING & CB-MARKING, IEC 60335-2-40+A1:2016)
- Minimum Cross-Sectional Area of Power cable and interconnection cord.

Certification Type	Appliance Amps(A)	Recommended Wire Model(AWG)
UL	＜10	18
	＜13	16
	＜18	14
	＜25	12
	＜30	10
	＜40	8
	＜55	6
NOTE:To ensure safety, the wire diameter can be larger and smaller is prohibited.		

Certification Type	Circuit Amps(A)	Nominal Cross-Sectioal Area(mm^2)
VDE	＜ 6	0.75
	＜10	1.0
	＜16	1.5
	＜25	2.5
	＜32	4
	＜40	6
NOTE:To ensure safety, the wire diameter can be larger and smaller is prohibited.		

Important Notices

- Before installation, please contact with local authorized maintenance center, if unit is not installed by the authorized maintenance center, the malfunction may not be solved, due to discommodious contact.
- The air conditioner must be installed by professionals according to the national wiring rules and this manual.
- Leak test must be made after installation.
- To move and install air conditioner to another place, please contact our local special service center.

Unpacking Inspection

- Open the box and check air conditioner in area with good ventilation (open the door and window) and without ignition source.
  Note: Operators are required to wear anti-static devices.
- It is necessary to check whether there is refrigerant leakage before opening the box of outdoor machine; stop installing the air conditioner if leakage is found.
- The fire prevention equipment shall be prepared well before checking.
  Then check the refrigerant pipeline to see if there is any collision traces, and whether the outlook is good.

Safety Principles for Installing Air Conditioner

- Fire prevention device shall be prepared before installation.
- Keep installing site ventilated.(open the door and window)
- Ignition source, smoking and calling is not allowed to exist in area where R32 refrigerant located.
- Anti-static precautions in necessary for installing air conditioner, e.g. wear pure cotton clothes and gloves.
- Keep leak detector in working state during the installation.
- If R32 refrigerant leakage occurs during the installation, you shall immediately detect the concentration in indoor environment until it reaches a safe level. If refrigerant leakage affects the performance of the air conditioner, please immediately stop the operation, and the air conditioner must be vacuumed firstly and be returned to the maintenance station for processing.
- Keep electric appliance, power switch, plug, socket, high temperature heat source and high static away from the area underneath sidelines of the indoor unit.
- The air conditioner shall be installed in an accessible location to installation and maintenance, without obstacles that may block air inlets or outlets of indoor /outdoor units, and shall keep away from heat source, inflammable or explosive conditions.

- When installing or repairing the air conditioner and the connecting line is not long enough, the entire connecting line shall be replaced with the connecting line of the original specification; extension is not allowed.

Requirements for installation position

- Avoid places of inflammable or explosive gas leakage or where there are strongly aggressive gases.
- Avoid places subject to strong artificial electric/magnetic fields.
- Avoid places subject to noise and resonance.
- Avoid severe natural conditions (e.g. heavy lampblack, strong sandy wind, direct sunshine or high temperature heat sources).
- Avoid places within the reach of children.
- Shorten the connection between the indoor and outdoor units.
- Select where it is easy to perform service and repair and where the ventilation good.
- The outdoor unit shall not be installed in any way that could occupy an aisle, stairway, exit, fire escape, catwalk or any other public area.
- The outdoor unit shall be installed as far as possible from the doors and windows of the neighbors as well as the green plants.

Installation environment inspection

- Check nameplate of outdoor machine to make sure whether the refrigerant is R32.
- Check the floor space of the room. The space shall not be less than usable space in the specification. The outdoor unit shall be installed at a well-ventilated place.
- Check the surrounding environment of installation site: R32 shall not be installed in the enclosed reserved space of a building.
- When using electric drill to make holes in the wall, check first whether there is pre-buried pipeline for water, electricity and gas. It is suggested to use the reserved hole in the roof of the wall.

Requirements of the mounting structure

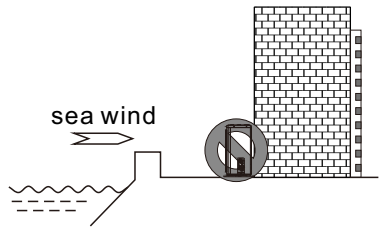
- The mounting rack must meet the relevant national or industrial standards in terms of strength with welding and connection areas rustproofed.
- The mounting rack and its load carry surface shall be able to withstand 4 times or above the weight of the unit, or 200kg, whichever is heavier.

- The mounting rack of the outdoor unit shall be fastened with expansion bolt.
- Ensure the secure installation regardless of what type of wall on which it is installed, to prevent potential dropping that could hurt people.

Installation guide at the seaside

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

2.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.



3.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.

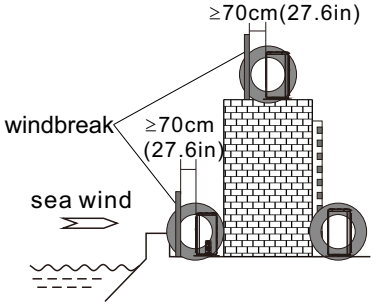
4.Select a well-drained place.

● Selecting the location (outdoor unit)

Install the outdoor unit on the opposite side of the sea wind direction, or set up a windbreak to avoid exposed to the sea wind.

- The windbreak 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 70cm (27.6in) of space between outdoor unit and the windbreak for easy air flow.



Periodic (more than once/year) cleaning of the dust or salt particles stuck on the heat exchanger by using water.