

QUEST[®]

leisure products



E0400 Ice Chill Air Conditioning Unit

• Instructions •

Thank you

for purchasing this product. At MQL we take every care to ensure that the product fulfils your expectations. We hope you enjoy using this product



SAFETY WARNING

AIR CONDITIONERS MUST ALWAYS BE STORED AND TRANSPORTED UPRIGHT, OTHERWISE IRREPARABLE DAMAGE MAY BE CAUSED TO THE COMPRESSOR, IF IN DOUBT WE SUGGEST WAITING AT LEAST 24 HOURS FOLLOWING INSTALLATION BEFORE STARTING THE UNIT.

Warning:

- When using this air conditioner, it is important that you always observe the safety regulations. This prevents the risk of personal injury, electrical shock and product damage. Therefore, read all instructions beforehand.
- Read the manual before use.
- If the terms of use are not followed, the manufacture will not be liable for any damage or injury resulting from the use of this device.
- Keep the manual, warranty certificate and sales receipt.
- Children should be supervised to ensure that they do not play with the appliance.
- This appliance is not intended to be used by children under 8 years of age or by people with limited physical, sensory or mental capabilities or insufficient experience and knowledge, unless they have been accompanied or have been instructed on how to use the appliance by a person who is responsible for their safety.
- Don't insert your fingers or any hard object to wind guide bar of the air outlet.
- The plug should be in good condition and can't be damaged. Never repair the device yourself if the appliance, the cord or the plug is damaged. Always have this done by the manufacturer or a qualified technician.
- The device is not suitable for commercial use.
- Always use and store the device in a dry place.
- Never use accessories that are not recommended by the manufacturer.
- Recommended operation environment temperature: 10-35°C
- This appliance is only suitable for caravan use and for the purpose for which it is intended.
- It is prohibited to modify this product (or parts of it).
- Never connect multiple electrical appliances to a power outlet. This prevents a bad connection and high heat load.
- Distance to burning objects at least 2 meters due to fire prevention measures.
- 50cm should be left between the device and other objects from front side and 20cm should be left between the device and other objects from left and right sides.



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General Use

General usage and details about your product

- Users are strictly forbidden to add refrigerant themselves.
- Do not pull directly on the hose or destroy it with sharp objects. If the hose is found to be damaged, discontinue use and contact the distributor for repair.
- Details of type and rating of fuses: 250VAC, T3.15A

Installation location of the air conditioner

- The air conditioner must be placed on a firm, flat surface (note: the air conditioner must not be tilted or tilted) when the appliance is in use. This air conditioner may not be installed in the following places:
- Near strong heat sources, vapours and flammable or explosive gas.
- In an environment that contains chemicals (evaporating substances, organic solvent s, etc.), as soon as it rains, the air conditioning must be removed from the window.

Also take the following regulations into account:

- The product must be always kept upright and in all cases. Do not hold the device sideways or upside down.
- Try to keep the air conditioner straight when moving or carrying it. Make sure it is not shaken or dropped.
- Make sure the air supply is not clogged and remains well ventilated.
- Do not insert objects through the openings of the air inlet and outlet. Objects can encounter electrical parts or the fan in this way and could be dangerous.
- Do not place heavy objects on the product.
- Remove the plug from the socket before moving the air conditioner, performing maintenance, cleaning or not using it for a long time.
- Do not pull the plug to move the machine.
- Clean the dust screen of the air supply at least once a month.
- If the machine is not used for a long time, it must be stored in a cool and dry place. Clean and dry the air conditioner well in advance.
- To avoid leakage of water, do not move the unit or make sure the tank is empty before moving it.

Technical Data

Voltage	220~240V 50/60Hz	Air flow capacity	140-200m3/h
Cooling capacity	5000btu/h (1460W)	Dehumidification capacity	0.5L/h
Heating capacity	5000btu/h (1460W)	Isolation Class (for outside part)	IPX4
Cooling Power Input	560W	Compressor type	Rotor type
Heating Power Input	560W	Refrigerant	R290, 120g
Dimensions inside unit	440×180×315mm	Sound pressure level (for indoor part)	46 dB
Dimensions outside unit	440×215×355mm	Net weight	20,5kg

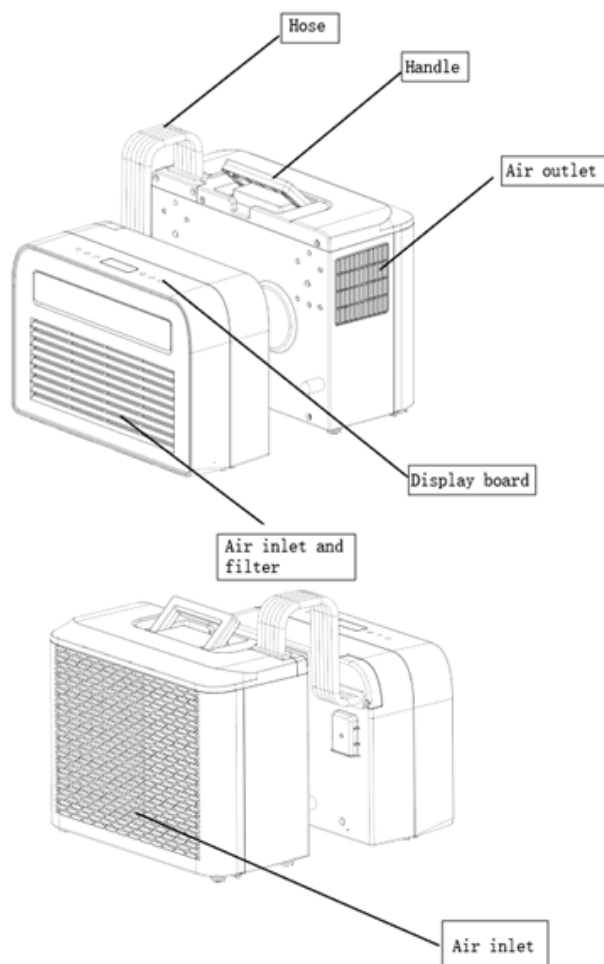
General Use

General usage and details about your product

Packing List

Name	QTY
Inner unit	1
Outside unit	1
Drain hose	1
Protection sleeve	1
Outside Bracket	2
Inner Bracket	2
Shock resistant rubber blocks	2
Hand screws	2
M6 Screws and gasket	12

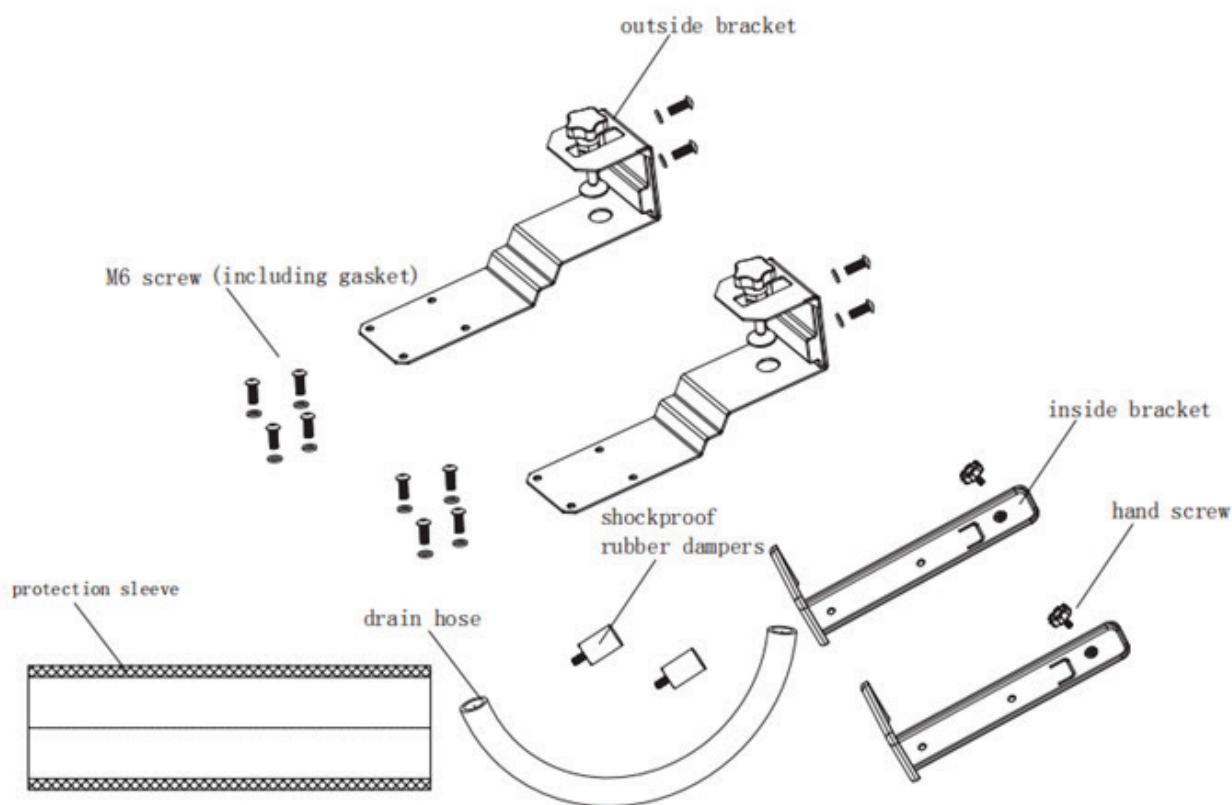
Destination Of Parts



General Use

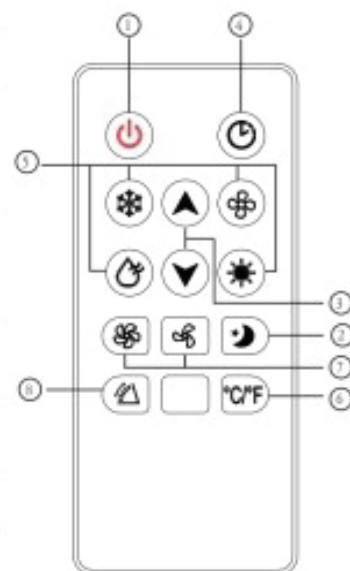
General usage and details about your product

Accessories



The air conditioner can be controlled with the remote control. Two AAA-batteries are required.

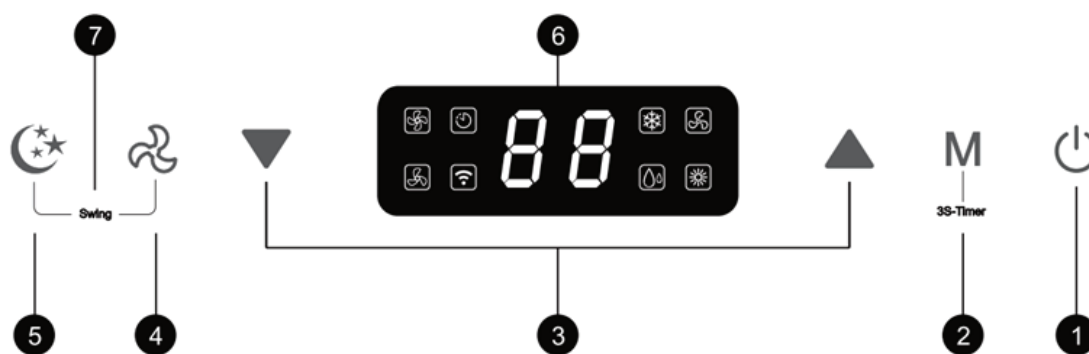
①	Power Key	Press the key for ON/OFF.
②	Fan Speed Key	Press the key to choose high/low speed.
③	UP/Down Key	Under cooling mode, press the keys could increase or decrease setting temperature; In timer mode, press the keys could set time to turn on.
④	Timer Key	Press the key at standby mode would set ON time. Press the key at ON mode would set OFF time.
⑤	Mode Key	Press the key to choose cooling, Heating, fan, dry.
⑥	Temperature Switch Key	The key is to switch between °C and °F
⑦	Sleep Key	The key is to choose sleep mode.
⑧	Swing Key	Press this key at any time after turning on the A/C to swing the louvers automatically.



General Use

General usage and details about your product

Operation Of Control Panel



1 Power

Press this key to turn the device on and off.

When the air conditioner is switched on at the first time, it intelligently selects the mode according to the room temperature(Tr).

Cooling mode	Heating mode	Fan mode	Dehu mode
Tr≥27°C	Tr≤21°C	24°C< Tr <21°C	27°C>Tr≥24°C

When the temperature is high, it runs the cooling mode, the default setting temperature 22°C

When the temperature is low, it runs the heating mode, the default setting temperature 24°C.

2 Mode

Press this key to select cooling, heating, fan, dehumidification modes;

In standby/turned on mode, by pressing this key for 3 seconds to set timing on/off.

3 Temperature / Time Adjustment

In cooling mode or heating mode, press the key to increase or decrease the temperature, the setting temperature adjustable from 16~30°C.

In timer mode, press the key to adjust time to turn on/turn off the machine.

Press Up/Down key at the same time to transfer between°C and °F

4 Fan Speed

Press the key to choose low/high fan speed.

5 Sleep Mode

Press the key to enter or quit sleep mode. The display will indicate “SL”. After 20 seconds, all lights and the digital display turn off, and the air conditioner goes to sleep. The indoor unit fan continues to run at low fan speed.

6 Display Window

Check temperature and time from this window.

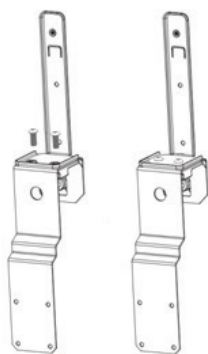
7 Swing

Press fan speed and sleep mode key at the same time to turn on/off swing function.

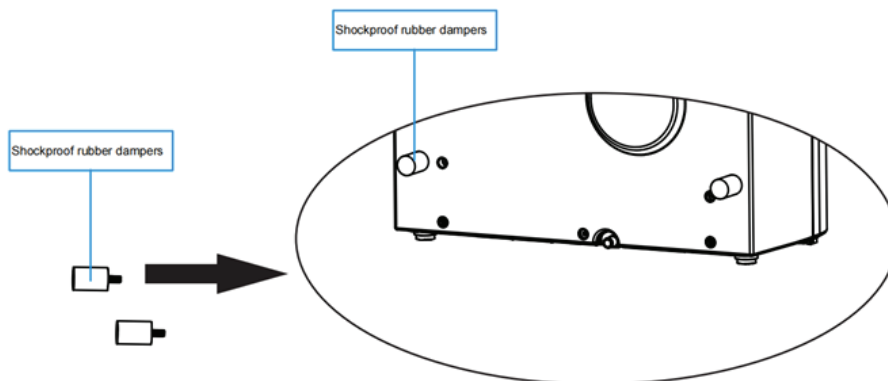
Installation Of The Air Conditioner

1. Unpack the machine and accessories and check that the hose between the indoor and outdoor unit is properly connected. Also check whether the condensation drain has a rubber cover. Finally, check whether the accessories are complete.

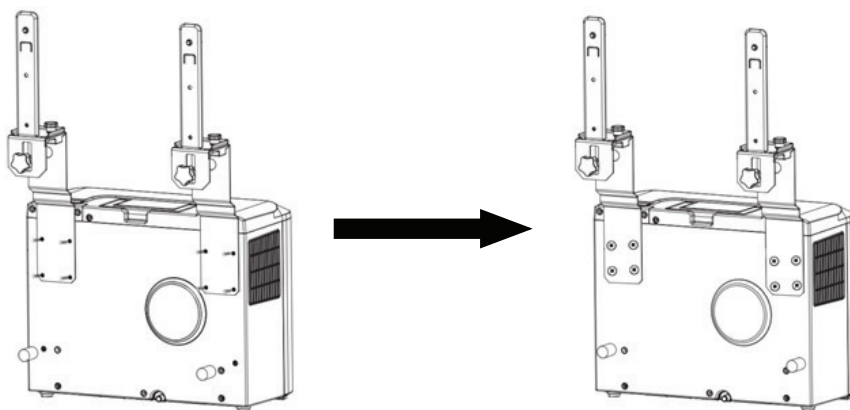
2.1 Install the accessories as shown in the picture. Connect the outer bracket to the support block and the inner bracket by tightening the M6 screws. This is how you form the carrying handle.



2.2 Place the shockproof rubber dampers on the back of the outdoor unit.

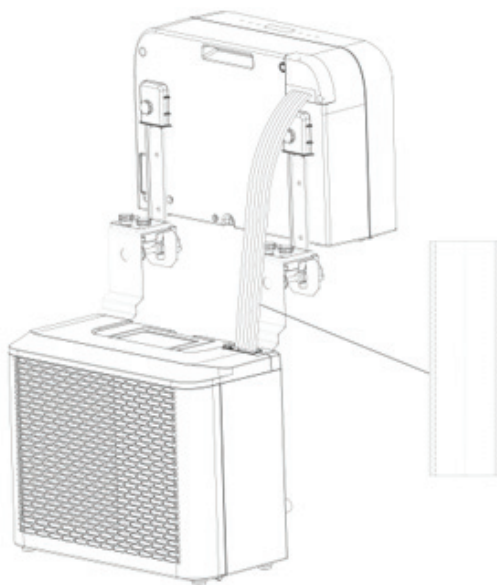


2.3 Install the bracket as shown in the figure below. Install the indoor and outdoor units on the bracket to fix the two parts. To secure the units to the bracket, tighten the M6 screws in the appropriate holes.

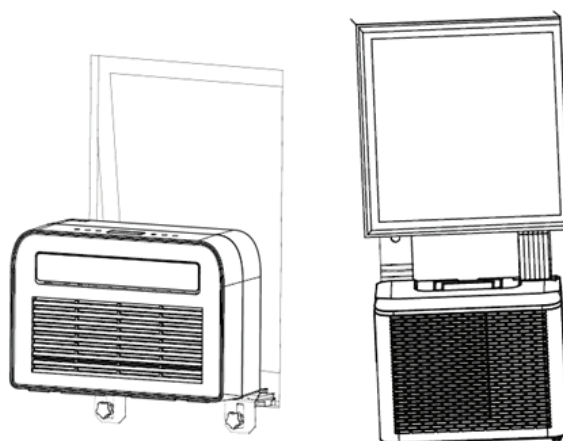


Installation Of The Air Conditioner

2.4 Install the indoor unit on the bracket and tighten the bracket properly. Next, wrap the protection sleeve on the hose between the outdoor and indoor unit. (See the illustration below)



2.5 Install the complete unit in the caravan window and tighten the bracket properly.



Error Code List

If the device does not work or works insufficiently:

Check if an error code is visible in the display, refer to the code table for a solution. If no error code is visible in the display, go through the error table for a possible solution.

Error codes		
Error code	Cause	Solution
FL	Water full alarm	Take off rubber stopper and empty the water.
E1	System temperature sensor fault	Replace System temperature sensor
E2	Room temperature sensor fault	Replace room temperature sensor
EF	Indoor motor fault	Replace the motor.
Ec	Over-heat protection	Turn off the unit and wait for 15-30min(The ambient temperature is $\leq 40^{\circ}\text{C}$)
EA	Abnormal reversing of 4-way valve	Please contact professional maintenance personnel.
E4	Freeze protection	Check that the air outlet is not blocked, keep the air deflector open.

Error Code List

Failure Guide		
Problem	Cause	Solution
The device does not turn on	No power	Turn power on
	Damaged electrical outlet	Turn off the power and check/repair the power outlet
	Unknown reason	Contact the dealer
Little air displacement or limited cooling effect	The lowest ventilation setting is selected	Select the high ventilation speed mode
	The air filter is dirty	Check and clean the filter
	The air supply or exhaust of the indoor unit is blocked	Check that the unit is not blocked and remove the obstruction
	The air supply or exhaust from the outdoor unit is blocked	Check that the unit is not blocked and remove the obstruction
	The ambient temperature is too low or high	The ambient temperature must be between 18 and 40°C
	Insufficient voltage from the power supply	Consult an installer or use a different power connection
Air displacement only but no cooling effect	The device runs in ventilation	Select the cooling mode(A/C) mode
Abnormal sounds or vibrations	The mounting brackets are not properly installed on the vehicle, or the device mounting screws are not sufficiently tightened	Check that the mounting bracket is tight and tighten the device mounting screws
Water is leaking from the indoor unit	The rubber stopper on the bottom of the indoor unit is missing, or is not pressed enough	Check or replace the rubber stopper
	The device is at an angle	The device must be mounted horizontally (maximum angle <3°)
The appliance emits a related odor	There is a serious problem	Switch off the device immediately and contact the dealer

Maintenance & Cleaning

General details about the maintenance and cleaning of your product

Declaration:

- 1) Ensure the machine is unplugged before maintenance.
- 2) Do not use gasoline or other chemicals to clean the unit.
- 3) Do not wash the unit directly.
- 4) If the air conditioner is damaged, please contact the dealer or repair shop.

Cleaning

Caution: Unplug the power cord before cleaning the maintenance.

1. Air filter

- It is important to regularly remove the dust from the filter.
- Remove the filter as shown in the picture below.
- Clean the filter with tap water and / or a vacuum cleaner to remove any dirty from the filter.
- Do not use water hotter than 40°C for cleaning and do not expose the filter to the sun.
- Make sure the filter has dried before putting it back in the air conditioner.

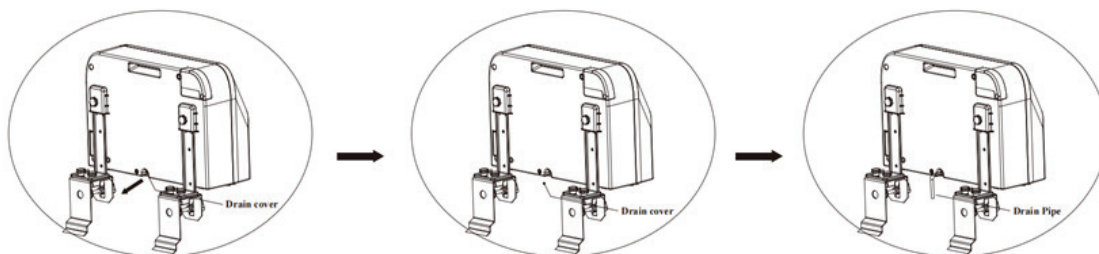


2. Clean the Air-conditioner Surface.

- First clean the surface with a neutral detergent and wet cloth.
- Then dry the device thoroughly with a dry cloth.
- Do not allow water or detergent to enter the machine.
- Do not clean the air conditioner with an aggressive cleaning agent and/or petrol.

Storage

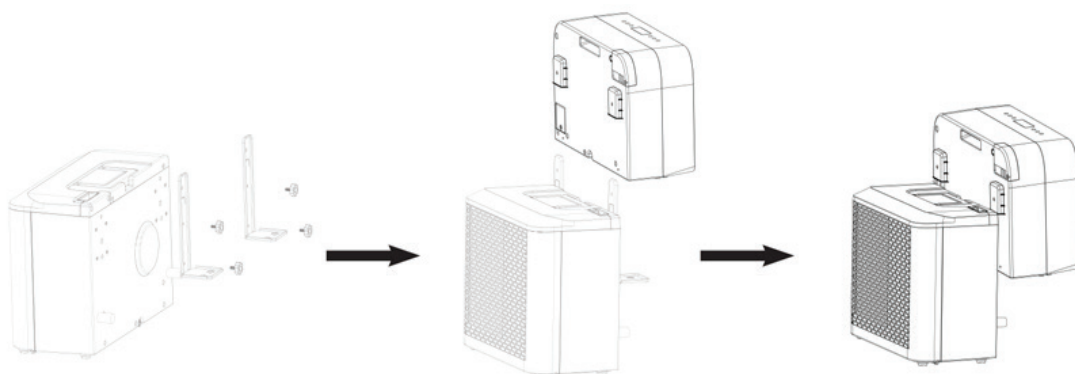
- If you are planning to store the machine without needing to use it for a long time, please remove the drain cover from the drainage hole at the bottoms both of indoor unit and outdoor unit, and drain all the condensation water appropriately in available place.



Maintenance & Cleaning

General details about the maintenance and cleaning of your product

1. Remove the rubber seal of the indoor unit and connect the drainage pipe to drain the condensate into a usable container.
 2. Keep running in fan mode to make the internal dry.
 3. Turn off the conditioner and pull down the plug.
 4. Wash the filter then install.
 5. Remove the unit from the window.
 6. Remove the rubber seal of the outdoor unit and connect the drainage pipe to drain the condensate into a usable container.
 7. Remove all the brackets on the air conditioner, install the brackets of the indoor unit on the outdoor unit, assembly as shown in the figure below, and then store the unit against the wall.
 8. Store the air conditioner in a cool and dry place.
 9. We recommend that you put the air conditioner back in its packaging when you store it. This prevents dirt and dust from collecting on the air conditioner.
- * Before each change of location or reassembly of the device, ensure that the Water tank emptied.



Smart Home WIFI Connection Guide

Install App

Download the "Smart life" app from the Play Store (Android) or App Store (iOS).



Register

Scan QR Code

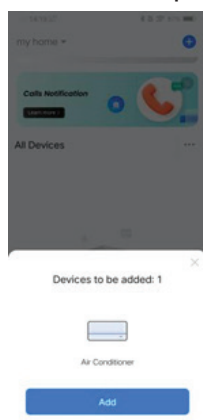
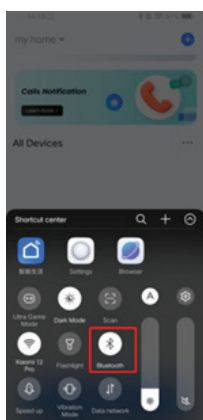
If you do not have a Smarter Home account, register or sign in with a verification code sent by SMS.

To register:

1. Tap to enter registration page
2. The system automatically recognizes your country/ area. You can also select your country code manually. Enter your mobile phone number/ email address and tap "Next".
3. If you choose the mobile phone number option, then enter the verification code in the message sent to you by SMS. Set a password as prompted and press "Confirm" to finish your registration.

Connecting using Bluetooth

1. Before initiating the connection, make sure the unit is in standby mode and the phone connected to the Wi-Fi network.
2. Press the "FAN" button for 3 seconds to enter Wi-Fi connect mode.
3. Open the Bluetooth on your phone.
4. When the device is powered on and connected, the connected Bluetooth device will pop up automatically after opening the App for a moment. Click "Add" button for connection.
5. Enter the Wi-Fi information interface, enter the password and click "Next" to continue the operation. (note: network must be 2.4Ghz band)
6. Enter the device connection interface after the progress bar is finished and the device is successfully connected.
7. Click the "Done" button to enter the operation interface of the device.



Service and Operation for the Flammable Refrigerants R290

Please read this user's manual carefully to ensure proper use, maintenance and installation.

BEFORE INITIATION

To avoid damage, place the unit in an upright position for at least 24 hours before initiation.

Make sure that the air outlet and air inlet are never blocked.

Only operate the unit on a horizontal surface to ensure no water leaks out.

WARNINGS

- Any person who is involved with working on or breaking into a refrigerant a refrigerant circuit should hold a current valid certificate from an industry-accredited assessment authority Which authorizes their competence to handle refrigerants safety in accordance with an industry recognized assessment specifications.
- Remember the environment when disposing of packaging around the appliance and when the appliance has reached its date.
- The appliance shall be stored in a well-ventilated area where the size corresponds to the room area as specified for operation.
- The appliance shall be stored to prevent mechanical damage from occurring.
- Information for spaces where refrigerant pipes are allowed, including statements.
 - that the installation of pipe work shall be kept to a minimum.
 - that pipe work shall be protected from physical damage and, in the case of flammable refrigerants, shall not be installed in an unventilated space.
 - that compliance with national gas regulations shall be observed.
 - that mechanical connections shall be accessible for maintenance purposes:
 - that, for appliances containing flammable refrigerants, the minimum floor area of the room shall be mentioned in the form of a table or a single figure without reference to a formula.
- Keep any required ventilation openings clear of obstruction
- The servicing shall be performed only as recommended by the manufacturer.
- The ducts connected to an appliance shall not contain a potential ignition source.
- When the portable air conditioner or dehumidifier is turned on, the fan can work continuously stable under normal conditions to provide the minimum air volume of 100m³/h even when the compressor is closed due to the temperature controller.
- Do not pierce or burn.
- Use only implements recommended by the manufacturer for defrosting or cleaning.
- Do not perforate any of the components in the refrigerant circuit Refrigerant gas may be odourless.
- Use care when storing the appliance to prevent mechanical faults.
- Only people authorized by an accredited agency certifying their competence to handle refrigerants in compliance with sector legislation should work on refrigerant circuit.
- All repairs must be carried out in accordance with the manufacturer's recommendations.
- Maintenance and repairs requiring the assistance of other qualified personnel must be carried out under the supervision of specialists in the use of inflammable refrigerants.
- Do not perforate any of the components in the refrigerant circuit. Refrigerant gas may be odourless.
- 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 3. This means that if 1 kg of this refrigerant fluid leaked to the atmosphere, the impact on global warming would be 3 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.
- Details of type and rating of fuses: T 3.15A, 250V AC.

Service and Operation for the Flammable Refrigerants R290



Additional warning for appliance with R290 refrigerant gas (refer to the rating plate for the type of refrigerant gas used)

R290 refrigerant gas complies with European environmental directives.

This appliance contains approximately 120g of R290 refrigerant gas

Appliance shall be installed, operated and stored in a room with a floor area larger than 4 m².

INSTRUCTION, REPAIRING APPLIANCES CONTAINING R290

1. Checks to the area

Prior to beginning work on systems containing flammable refrigerants, safety checks are necessary to ensure that the risk of ignition is minimized. For repair to the refrigerating system, the following precaution shall be completed prior to conducting work on the system.

2. Work procedure

Work shall be undertaken under a controlled procedure so as to minimize the risk of a flammable gas or vapor being present while the work is being performed.

3. 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.

4. 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.

5. Presence of fire extinguisher

If any hot work is to be conducted on the refrigerating 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.

6. No ignition sources

No person carrying out work in relation to a refrigerating 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.

7. Ventilated area

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.

8. Checks to the refrigerating 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 actual refrigerant charge 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;
- marking to the equipment continues to be visible and legible. Markings and signs that are illegible shall be corrected;
- refrigerating 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.

INSTRUCTION, REPAIRING APPLIANCES CONTAINING R290

9. 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;
- that there is continuity of earth bonding.

10. Repairs to sealed components

During repairs to sealed components, all electrical supplies shall be disconnected from the equipment being worked upon prior to any removal of sealed covers, etc. If it is absolutely necessary to have an electrical supply to equipment during servicing, then a permanently operating form of leak detection shall be located at the most critical point to warn of a potentially hazardous situation.

Particular attention shall be paid to the following to ensure that by working on electrical components, the casing is not altered in such a way that the level of protection is affected. This shall include damage to cables, excessive number of connections, terminals not made to original specification, damage to seals, incorrect fitting of glands, etc.

Ensure that the apparatus is mounted securely.

Ensure that seals or sealing materials have not degraded to the point that they no longer serve the purpose of preventing the ingress of flammable atmospheres. Replacement parts shall be in accordance with the manufacturer's specifications.

NOTE: The use of silicon sealant may inhibit the effectiveness of some types of leak detection equipment. Intrinsically safe components do not have to be isolated prior to working on them.

11. Repair to intrinsically safe components

Do not apply any permanent inductive or capacitance loads to the circuit without ensuring that this will not exceed the permissible voltage and current permitted for the equipment in use.

Intrinsically safe components are the only types that can be worked on while live in the presence of a flammable atmosphere. The test apparatus shall be at the correct rating.

Replace components only with parts specified by the manufacturer. Other parts may result in the ignition of refrigerant in the atmosphere from a leak.

12. Cabling

Check that cabling will not be subject to wear, corrosion, excessive pressure, vibration, sharp edges or any other adverse environmental effects. The check shall also take into account the effects of aging or continual vibration from sources such as compressors or fans.

13. Detection of flammable refrigerants

Under no circumstances shall potential sources of ignition be used in the searching for or detection of refrigerant leaks. A halide torch (or any other detector using a naked flame) shall not be used.

14. Leak detection methods

The following leak detection methods are deemed acceptable for systems containing flammable refrigerants. Electronic leak detectors shall be used to detect flammable refrigerants, but the sensitivity may not be adequate, or may need recalibrating. (Detection equipment shall be calibrated in a refrigerant-free area.) Ensure that the detector is not a potential source of ignition and is suitable for the refrigerant used. Leak detection equipment shall be set at a percentage of the LFL of the refrigerant and shall be calibrated to the refrigerant employed and the appropriate percentage of gas (25 % maximum) is confirmed. Leak detection fluids are suitable for use with most refrigerants but the use of detergents containing chlorine shall be avoided as the chlorine may react with the refrigerant and corrode the copper pipe-work. If a leak is suspected, all naked flames shall be removed/extinguished. If a leakage of refrigerant is found which requires brazing, all of the refrigerant shall be recovered from the system, or isolated (by means of shut off valves) in a part of the system remote from the leak. Oxygen free nitrogen (OFN) shall then be purged through the system both before and during the brazing process.

INSTRUCTION, REPAIRING APPLIANCES CONTAINING R290

15. Removal and evacuation

When breaking into the refrigerant circuit to make repairs – or for any other purpose – conventional procedures shall be used. However, for flammable refrigerants it is important that best practice is followed since flammability is a consideration. The following procedure shall be adhered to:

- remove refrigerant;
- purge the circuit with inert gas;
- evacuate;
- purge with inert gas;
- open the circuit by cutting or brazing.

The refrigerant charge shall be recovered into the correct recovery cylinders. For appliances containing flammable refrigerants the system shall be purged with oxygen free nitrogen to render the appliance safe for flammable refrigerants. This process may need to be repeated several times. Compressed air or oxygen shall not be used for purging refrigerant systems.

For appliances containing flammable refrigerants, refrigerants purging shall be achieved by breaking the vacuum in the system with oxygen-free nitrogen and continuing to fill until the working pressure is achieved, then venting to atmosphere, and finally pulling down to a vacuum. This process shall be repeated until no refrigerant is within the system. When the final oxygen-free nitrogen charge is used, the system shall be vented down to atmospheric pressure to enable work to take place. This operation is absolutely vital if brazing operations on the pipe-work are to take place.

Ensure that the outlet for the vacuum pump is not close to any potential ignition sources and that ventilation is available.

16. Charging procedures

In addition to conventional charging procedures, the following requirements shall be followed.

- Ensure that contamination of different refrigerants does not occur when using charging equipment. Hoses or lines shall be as short as possible to minimise the amount of refrigerant contained in them.
- Cylinders shall be kept in an appropriate position according to the instructions.
- Ensure that the refrigerating system is earthed prior to charging the system with refrigerant.
- Label the system when charging is complete (if not already).
- Extreme care shall be taken not to overfill the refrigerating system. Prior to recharging the system, it shall be pressure-tested with the appropriate purging gas. The system shall be leak tested on completion of charging but prior to commissioning.

A follow up leak test shall be carried out prior to leaving the site.

17. Decommissioning

Before carrying out this procedure, it is essential that the technician is completely familiar with the equipment and all its detail. It is recommended good practice that all refrigerants are recovered safely. Prior to the task being carried out, an oil and refrigerant sample shall be taken in case analysis is required prior to re-use of recovered refrigerant. It is essential that electrical power is available before the task is commenced.

- a) Become familiar with the equipment and its operation.
- b) Isolate system electrically.
- c) Before attempting the procedure, ensure that:
 - mechanical handling equipment is available, if required, for handling refrigerant cylinders;
 - all personal protective equipment is available and being used correctly;
 - the recovery process is supervised at all times by a competent person;
 - recovery equipment and cylinders conform to the appropriate standards.
- d) Pump down refrigerant system, if possible.
- e) If a vacuum is not possible, make a manifold so that refrigerant can be removed from various parts of the system.
- f) Make sure that cylinder is situated on the scales before recovery takes place.
- g) Start the recovery machine and operate in accordance with instructions.
- h) Do not overfill cylinders (no more than 80 % volume liquid charge).
- i) Do not exceed the maximum working pressure of the cylinder, even temporarily.
- j) When the cylinders have been filled correctly and the process completed, make sure that the cylinders and the equipment are removed from site promptly and all isolation valves on the equipment are closed off.
- k) Recovered refrigerant shall not be charged into another refrigerating system unless it has been cleaned and checked.

INSTRUCTION, REPAIRING APPLIANCES CONTAINING R290

18. Labelling

Equipment shall be labelled stating that it has been decommissioned and emptied of refrigerant. The label shall be dated and signed. For appliances containing flammable refrigerants, ensure that there are labels on the equipment stating the equipment contains flammable refrigerant.

19. Recovery

When removing refrigerant from a system, either for servicing or decommissioning, it is recommended good practice that all refrigerants are removed safely.

When transferring refrigerant into cylinders, ensure that only appropriate refrigerant recovery cylinders are employed. Ensure that the correct number of cylinders for holding the total system charge is available. All cylinders to be used are designated for the recovered refrigerant and labeled for that refrigerant (i.e. special cylinders for the recovery of refrigerant). Cylinders shall be complete with pressure-relief valve and associated shut-off valves in good working order. Empty recovery cylinders are evacuated and, if possible, cooled before recovery occurs.

The recovery equipment shall be in good working order with a set of instructions concerning the equipment that is at hand and shall be suitable for the recovery of all appropriate refrigerants including, when applicable, flammable refrigerants. In addition, a set of calibrated weighing scales shall be available and in good working order. Hoses shall be complete with leak-free disconnect couplings and in good condition. Before using the recovery machine, check that it is in satisfactory working order, has been properly maintained and that any associated electrical components are sealed to prevent ignition in the event of a refrigerant release. Consult manufacturer if in doubt. The recovered refrigerant shall be returned to the refrigerant supplier in the correct recovery cylinder, and the relevant waste transfer note arranged. Do not mix refrigerants in recovery units and especially not in cylinders.

If compressors or compressor oils are to be removed, ensure that they have been evacuated to an acceptable level to make certain that flammable refrigerant does not remain within the lubricant. The evacuation process shall be carried out prior to returning the compressor to the suppliers. Only electric heating to the compressor body shall be employed to accelerate this process. When oil is drained from a system, it shall be carried out safely.

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.
	CAUTION	This symbol shows that the operation manual should be read carefully.
	CAUTION	This symbol shows that 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.

Warranty

Details on the warranty that comes with your product.

Warranty : 12 Months (1 Year) warranty.

Warranty Claim

- In the unlikely event of a warranty claim, you must contact your retailer.
- Please fill out the warranty form (on the page after this) before you return to your dealer. If you do not then you will be required to fill this form out at your dealer.
- Take the product to your retailer that you purchased it from along with your proof of purchase and explain the issue with the retailer.
- The retailer will then check the product and get in touch with the wholesaler or manufacturer.
- The retailer will keep you informed of the progress of the claim.
- The wholesaler or manufacturer will not (unless under special circumstances) get in touch with you as all information will be passed back directly to the retailer.

Warranty Information

- This product comes with a full 12 month manufacturers defect warranty and covers any manufacturers defects for one (1) year from the date of the original purchase. It does not cover any damage occurred through:
 - The product falling, being dropped, scratched or damaged in any way.
 - The product has been technically changed by the owner or another third party
 - Improper use of the product.
 - Normal wear and tear - which includes (but is not limited to): colour fading, wearing, stretching.
 - Weather damage - which includes (but is not limited to) U.V. degradation and colour changing.
- The affected part will be replaced or repaired (manufacturers option) if they are found to be defective within the one (1) year time frame.
- The warranty will be void if the product has been subject to neglect, misuse, improper installation, misapplication, alteration or accident including, but not limited to, improper installation, maintenance or use of unauthorised parts or attachments.
- Damage caused by not following the instruction manual in full will invalidate the warranty, if this results in consequential damages, MQL will not be liable for these damages or any costs incurred due to these damages.
- MQL will not be liable for material damage or personal injury caused by improper use or if the safety instructions are not properly executed in full.
- All claims must be made through the retailer you purchased the product from and not direct with the wholesaler or manufacturer.
- Warranty claims cannot be honoured without an original dated receipt and or proof of purchase.
- By executing repairs the original warranty period of one (1) year will not be extended, nor the right to a complied new warranty. This warranty is only legal on European soil.
- This warranty does not overrule the European directive 2011/83/EU.
- This product may not be amended or changed.

Warranty Form

Please fill out this warranty form before you return to your dealer. If you do not then you will be required to fill this form out at your dealer.

Your name:

Your contact:

(Email, phone or address)

Date of purchase:

Place of purchase:

Serial number:

Details of fault:

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