

Virtus

SERIES

USER MANUAL

VIRTU-C-1218W-E/VIRTU-C-1218W

VIRTU-C-1818W-E/VIRTU-C-1818W

VIRTU-C-2418W-E/VIRTU-C-2418W

VIRTU-C-3618W-E/VIRTU-C-3618W

VIRTU-C-1218W-110-E/VIRTU-C-1218W-110

Read the manual carefully before using the equipment and keep it for reference. This manual is for reference only, comply with the requirements of the actual equipment you have purchased. The manufacturer has the authority to redesign or modify its products without notice.

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Safety precautions

WARNING:

Following these basic precautions will reduce the risk of fire, electric shock, injury or death when using the air conditioner.

1. The air conditioner must be connected to a wall outlet or mains power supply with a suitable circuit breaker. And only the specified power may be used.
2. Proper grounding must be ensured to reduce the risk of fire and electric shock.
3. Do not cut or remove the grounding prong from the plug. If your outlet or mains connection does not have a grounding wire, contact an electrician to install a proper outlet or circuit breaker. The outlet or circuit breaker **MUST** be properly grounded.
4. Do not use the equipment if you notice frayed or otherwise damaged power cord. Also avoid use if you notice cracks or abrasions on the plug, the connector or the cord itself.
5. Do not use power adapters or extension cords.
6. Do not allow the airflow from the indoor and outdoor units of the air conditioner to be blocked by blinds, curtains, draperies, sheers, protective covers, bushes or plants.
7. Beware of sharp edges on the front and rear flaps of the unit that could cut, causing serious injury.
8. Be careful when lifting the air conditioner for installation or disassembly.
9. Always do so between two or more persons.
10. Always turn off power to the air conditioner before servicing, repairing or moving it.
11. On some types of units, the proper plug is not included with your power cord due to the power rating. For such power ratings, the power cord must be linked to an appropriate circuit breaker, and these types of units lack instructions associated with the plug, as they do not have one.
12. Fixed wiring should be connected through an omnipolar disconnect switch that separates all poles a minimum of 3 mm.
13. This device must be installed in accordance with national wiring regulations. This device 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 instructed or supervised in the use of the device by a person responsible for their safety. Children should be supervised to ensure that they do not play with the device.

Safety instructions

Symbols description

To avoid risks to users, third parties and property damage, be sure to follow the instructions below.

Regardless of safety precautions, the degree of damage or harm caused by improper use is classified as follows:



Warning

Meaning of this sign: Possibility of death or serious injury.



Caution

Meaning of this symbol: Possibility of injury or property damage.



Warning: Never install the equipment yourself.

Split air conditioner equipment has a long service life if installed correctly. Incorrect installation could cause problems such as water or refrigerant leaks, electric shock or fire.

If the unit's power cord is disconnected, burned, cracked or has become detached from the terminal, have it repaired at the nearest service center, or by a similarly qualified or experienced technician to avoid electrical hazards.



Caution: Confirm the following items before installation

Electrical specifications:

Make sure that the capacity of the outlet or circuit breaker, and power cord is sufficient, the voltage is correct, and that the outlet or circuit breaker is grounded. Otherwise there is a risk of fire or electric shock.

Proper connection of cables and pipes:

An incorrect connection may reduce efficiency or cause the air conditioner to shut down. It could also cause water or refrigerant leaks.

Installation environments:

Do not install the air conditioner in a place where the air is flammable or corrosive.

Operating instructions:

Use the air conditioner in accordance with this manual.

Operating instructions:

It is very important to follow the safety messages. These messages can save you from injury or death. Warning symbols alert you to be careful and indicate that a hazard exists. Follow the instructions to be safe and reduce the chance of injury. Warning and danger signs will precede safety messages.



Electrical safety

Ground connection: The air conditioner must be grounded. Grounding reduces the risk of electric shock by providing an escape wire for the electric current.

- If the power cord plug has a pin with a grounding wire, plug it into a properly installed grounded outlet.
- If the power cord plug does not have a grounding wire pin, the grounding wire must be connected to a properly grounded circuit breaker.

Warning: Improper use of the grounding plug or grounding prong can result in a risk of electric shock. Call a qualified electrician if you do not understand the grounding instructions or if you are not sure the air conditioner is properly grounded. If the outlet or circuit breaker is not grounded, contact an electrician to replace it with a properly grounded outlet or circuit breaker.

Do not cut or remove the third (grounding) prong of the power cord plug under any circumstances.

We strongly discourage the use of adapter plugs or circuit breakers.



Operating conditions

1. Temperature:

- Example T1: -7 to 43 °C (16 to 43 °C for cooling only equipment)
- Example T3: -7 to 52 °C (16 - 52 °C for cooling-only equipment)

If the unit is operated above the temperature for a long time, it may cause the cooling capacity to decrease or the protection system to be activated.

2. Relative humidity: < 80 %;

If the unit operates above the humidity range, condensation may form near the air conditioner blades and outlet. This is normal.

3. During heating operation, a strange odor may come out of the unit. This is a normal phenomenon.
4. Refer to the nameplate for performance parameters.
5. The waterproof level of the indoor unit is IPX0. Do not use it in the laundry room or bathroom.
6. The outdoor unit cannot be installed in an enclosed area.
7. Indoor unit fuse on the base plate: 3.15A/250V(220V model), 5A/250V(115V model) .



Advices

Install the unit on the north side, as this is normally the shaded side. This will improve the performance of your unit.

- Connect the unit to a power supply with the correct voltage and amperage for efficient operation.
- Have a certified electrician make any necessary modifications to the outlet or circuit breaker.
- Use a dedicated power line for the operation of your air conditioner to avoid the possibility of power surges.
- To avoid any risk, if the power cord is damaged, it must be replaced by the manufacturer, its service agent or a similarly qualified person.
- The space dimensions required for proper installation of the apparatus include the minimum allowable clearances to adjacent structures.
- This appliance must be installed in accordance with national wiring regulations. Disconnect the power supply before cleaning and maintenance work.
- If the device is not connected using a plug, the fixed wiring must incorporate an omnipolar disconnection device with a separation distance of at least 3 mm on all poles and a residual current device (RCD) with a capacity of more than 10 mA in accordance with national regulations
- If the device is connected using a plug, it must be connected to an accessible socket outlet.



Energy Saving Guide

When installing your air conditioner be sure to seal areas where there is a possibility of air leakage.

- The air flow indoors should not be blocked by curtains, draperies or furnishings, and outdoors by plants and shrubs.
 - Do not use electric lights or other heat-producing appliances unnecessarily.
 - Keep blinds and curtains down on all other windows.
 - While cooking use a kitchen exhaust fan to remove excess heat produced.
- Instructions



Operating Instructions

- Only single-phase alternating current can be used. Refer to the nameplate for details.
- Use the specified power cord and do not change it.
- Do not put your fingers or chopsticks inside the air conditioner inlet or outlet, as the running fan may cause injury.
- Do not place anything on the outdoor unit.
- Do not turn the unit on or off by plugging or unplugging the power plug, or turning the circuit breaker on or off.
- Keep the indoor area ventilated, especially if there are any appliances running on gas.
- Do not bypass the fuse or replace it with other materials.
- Unplug the air conditioner from the outlet or turn off the circuit breaker if it will not be used for a long period of time.



Safety instructions

The appliance must not be used by small children or unstable persons without supervision. Young children should be supervised to ensure that they do not play with the appliance. If the power cord is damaged it must be replaced by the manufacturer, its service agent or a similarly qualified person in order to avoid hazards.

- Do not connect the ground wire to a water or gas pipe. Improper grounding may cause an electric shock.
- Do not disconnect the power cord from the outlet or turn off the circuit breaker while the unit is operating.
- Turn off the unit, then turn off the power and contact the service agent if you notice any abnormal phenomena (e.g. burning smell).
- Do not install the air conditioner in a place where gas leakage may occur.
- Do not place plants or animals directly in the outlet path of the air conditioner flow. Doing so may cause damage to them.
- Contact service when repairs are required. Incorrect service may cause an accident.
- Turn off the unit, cut off the power supply and make sure that the fan is stopped before cleaning the unit.
- For installation and removal of the air conditioner, consult professionals or contact service agents.



Protection functions

Las funciones de protección pueden prolongar la vida del equipo de aire acondicionado y proporcionar un flujo de aire más confortable.

Protection functions can increase the life of the air conditioner and provide more comfortable airflow.

Compressor start delay function

The compressor will restart no sooner than 3 minutes (5 minutes in heating mode) after shutdown to maintain the pressure balance of the cooling system.

Freezing prevention

To prevent the indoor unit heat exchanger from freezing with the unit in cooling or dehumidification mode, the outdoor unit compressor or fan will stop running and the indoor unit fan speed will be automatically set to maximum.

Drying for enzyme prevention (optional)

The indoor unit fan motor will continue to run for 3 minutes at low speed when turned off in cooling mode to keep the inside of the unit dry.

Auto restart

The unit memorizes the operating mode, airflow setting, temperature setting, etc. so that if there is a power failure with the unit in operation, the unit will return to the same operating conditions when power is restored.

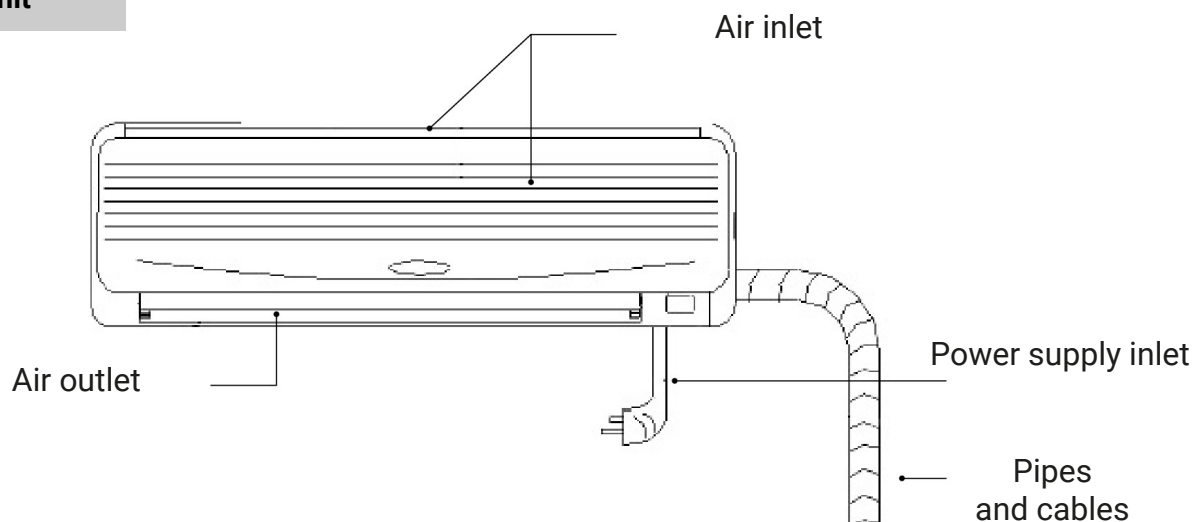
Cooling in overload operation (optional)

In cooling mode, if the outdoor unit heat exchanger temperature is too high, the indoor unit fan speed will be automatically reduced and the compressor may stop.

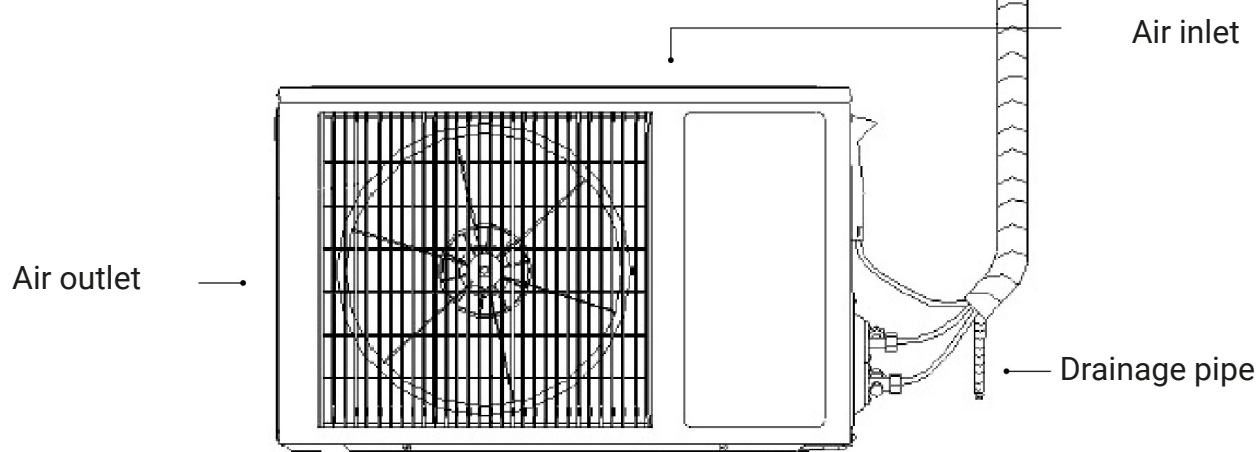
Components description

Unit view

Indoor Unit



Outdoor unit



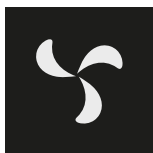
Observations:

The air conditioner consists of an indoor unit, an outdoor unit and a remote controller. The design and shape are different for different models. The above figures are schematic images and may be slightly different in the actual equipment you have purchased.

Display screen



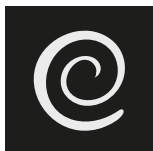
On the display you can see the set temperature, error codes and timers.



The indicator light stays on when the unit is "RUNNING". The indicator light will flash when the unit is in Defrost or Cooling airflow test.



The indicator light comes on when the unit is on Timer.



The indicator light comes on when the compressor is running.



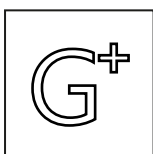
It blinks during wifi search, stays on when the wifi connection is completed, which means that the wifi function is enabled and the application can be used. (For details, please refer to the wifi instruction manual).



The indicator light comes on when the unit is in the "Health" function.



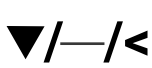
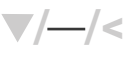
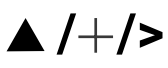
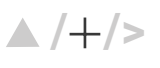
The indicator light comes on when the electric heater is in operation.



The indicator light stays on when the unit is in the "GEN LINK MODE" state.

Note: The above LED displays are for reference only, and are subject to the actual product.

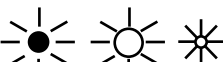
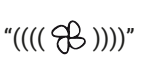
Remote control

Button	Introduction	Button	Introduction
 Open/Close	Press this button to start/stop the air conditioner.	Turbine	To activate or deactivate the turbo function with the unit operating in heating or cooling mode.
 Mode	select automatic/ HEAT/ DEHUMID/ COOLING/ FAN.	 Ecology	To activate or deactivate the ECO sterilization function.
 Dormir	To set the sleep function.	 Clean	Press this button to activate the self-cleaning technology.
 ▼/—/◀	Use the button  to reproduce temp.	Function	Using the function button menu you can select sleep, self-cleaning, health, silence, I Feel, horizontal oscillation, AUH.
 ▲/+/▶	Use the button  to raise temp.	Care	The most suitable configuration for children's health.
Speed	For selecting the fan speed of the indoor unit.	 UVC	To activate or deactivate the UVC sterilization function
 Screen	To display or close the display screen when the air conditioner is operating.	 Health	Para activar o desactivar la función de esterilización HEALTH.
 I FEEL	Press this button to activate the I FEEL function (Optional).	 Quiet	Sets the silent operation of the air conditioner.
 Banlanceo V-SWEEP Oscilación v V-SWING	To change the position of the vertical blades and make them oscillate or not.	 AUH	The symbol appears when you press the "AUH" button in HEATING mode.
 H-SWEEP Oscilación H	To change the position of the horizontal sheets and make them oscillate or not.	Gen Link	Press this button to set or cancel the gen link mode.
 Timer	Press this button to select the timer.		

Observations:

1. HEAT, AUTO and display function are not available for cooling only air conditioner.
2. If the user wants the room air to be cooled or heated quickly, the user can press the "turbo" button in cooling or heating mode, the air conditioner will operate in power function. If the user presses the "turbo" button again, the unit will exit the power function.
3. The above illustration of the remote controller is for reference and may be slightly different from the actual product you purchased.

Remote control screen

Button	Introduction	Button	Introduction
	The icon appears when the turbo function is activated in heating or cooling mode.		The symbol appears when the "AUH" button is pressed in heating mode (Optional).
	It is displayed according to the position of the vertical sheets if they are oscillating.		Appears when the "Quiet" function has been selected.
	Appears when the horizontal oscillation function (optional) is selected.		Appears when the I FEEL function is selected. (Optional).
	Automatic		Appears when the Generator mode is activated (Optional).
	DESHUMID		Appears when the "Self-cleaning" function is selected. (Optional).
	WARM UP	ECO 	Appears when the ECO function is activated.
	FAN		Appears when the Health function is activated.
	COOLING		F indicates Fahrenheit and C Celsius.
	Appears when the control signal is emitted.	Icon Automatic 	"((((()))" (glimmer)
	Appears when the time to turn on or off is set.	Icon High speed 	"((((()))"
	Displayed when the "Healthy" function is selected (Optional).	Icon Medium speed 	"(((()))"
	Displays the set temperature.	Icon Low speed 	"((()))"
	Appears when the "Lock" button is pressed. (Optional).	Icon Medium-low speed 	"((()))"
	Appears when the "Sleep" function has been selected.	Icon Medium-high speed 	"((((()))"

Instructions for the remote control

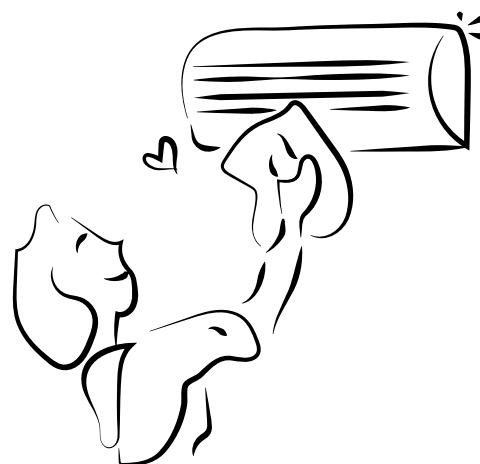
- The remote control uses two AAA batteries and under normal conditions they last about 6 months. Use two new batteries of a similar type (pay attention to the poles when installing them).
- When using the remote control, point the signal emitter at the receiver of the indoor unit;
- There should be no obstacle between the remote control and the indoor unit.
- Pressing two buttons simultaneously will cause malfunction.
- Do not use other wireless equipment (such as a cell phone) near the indoor unit. If this causes interference, turn off the unit and unplug the power cord. Then plug the power cord back in and turn on the unit after a while.
- Do not allow direct sunlight to shine on the receiver of the indoor unit, otherwise it will not be able to receive the signal from the remote control.
- Do not throw the remote controller.
- Do not place the remote controller in direct sunlight or near an oven.
- Do not splash water or juice on the remote control, and use a dry cloth to clean it if this happens.
- Batteries should be removed from the unit before disposal and disposed of safely

Service and maintenance

Careful maintenance and servicing can extend the life of the air conditioning equipment and save electricity costs.

Caution:

- Stop the air conditioner using the remote controller and unplug it from the power outlet before performing any maintenance or repair.
- Do not stand on unstable objects when cleaning or repairing the air conditioner, as this may result in injury.
- Do not touch the metal part of the unit body when removing the front panel, as this may cause injury.

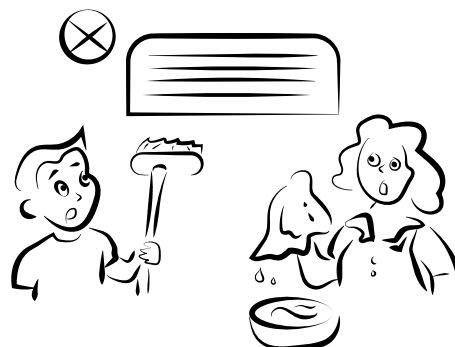


Cleaning the front panel and the remote control

If it is not possible to remove the dirt, clean the unit with a damp cloth (with lukewarm water below 40 °C).

Caution:

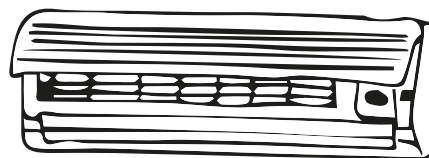
- Do not clean the unit with water, as this may cause an electric shock
- Do not clean the remote control with water.
- Do not use alcohol, gasoline, banana oil or polish. Do not clean the unit with violence, as this may cause the front panel to fall off.
- Do not clean the front panel or remote control with a wire brush, as this may damage the surface.



Clean the air filter

Caution:

- Open the front panel.
- Lift the protruding part, then pull down to remove the filter.
- Clean it with a vacuum cleaner or water. If the air filter is very dirty, clean it by soaking it in warm soapy water (mild detergent). Let it dry in the shade. Insert the air filter in its previous position and close the front panel.



Note:

1. The air filter should be cleaned every two weeks, or the heating or cooling capacity will be reduced.
2. Do not clean the air filter with a wire brush, as it may deteriorate.



If you are not going to use it for a long period of time

- Activate the oscillation for 3-4 hours to dry the inside of the air conditioning unit.
- Use the remote control to stop the unit and turn off the power supply to the air conditioner.
- Perform maintenance on the air filter.
- Remove the batteries from the remote controller.

Energy saving recommendations

- **Correct temperature setting:** It is bad for your health if the room is too cold.
- **Avoid direct sunlight:** When in cooling mode, use curtains and blinds to keep out direct sunlight.
- **Avoid heat sources:** When in cooling mode, the use of heat sources can affect the cooling effect.
- **Close doors and windows:** Air from outside will affect the effectiveness of the heating or cooling effect.
- **Keep the air filter clean:** Keeping the air filter clean ensures efficient operation.
- **Good ventilation:** Do not place objects in front of the outlet and inlet of the outdoor unit.

Normal phenomena

- With the unit in heating or cooling mode, the plastic parts of the unit may make noise due to temperature changes.
- If the indoor humidity is very high, water droplets may form on the front grille of the indoor unit. This is a normal phenomenon.
- A slight "crackling" sound may be heard when the unit starts or stops. This is the normal sound of refrigerant flowing.
- Walls, carpets, furniture or clothing indoors may give off a peculiar odor.
- To protect the unit, when the compressor stops, the system applies a 3-minute delay before restarting.
- In the first few minutes of operation in heating mode, no air may come out of the indoor unit.
- Some water may flow out of the indoor unit during heating mode operation.
- When operating in heating mode, water vapor may come out when there is defrosting.

Problem resolution

Air conditioning unit fails

Check before repairing.

Phenomenon	Elements to be checked
Air conditioning equipment does not work at all	1. Check if it is disconnected from the mains power supply.
	2. Check if the circuit breaker has tripped or the fuse is blown.
	3. Check the batteries in the remote control.
	4. Check if any radio equipment is operating within 1 m of the unit.
Equipment cools or heats poorly	1. Check whether the air inlet or outlet is blocked.
	2. Check for dust clogging the air filter.
	3. There are too many people in the room.
	4. Check if doors and windows are closed.
	5. Check the correct setting of temperature and fan speed.

Remote control fails

The following problem resolutions are normal events

Phenomenon	Elements to check
Fan stops or speed cannot be controlled	1. When the air conditioner is in dehumidifier mode or in "sleep" mode, sometimes the fan speed cannot be controlled.
	2. When the air conditioner is in cold airflow test mode or defrosting (heating mode), the fan motor will stop.
	3. When the air conditioner is in cooling mode or dehumidifier mode, if the unit enters freeze prevention operation, it will not be possible to control the fan speed.
	4. When the air conditioner is in heating mode, if the unit enters overload prevention operation, it will not be possible to control the fan speed.

Activar Windows

Installation manual

Introduction

Warning: Some models operate with R32 or other flammable refrigerants, which must be handled and used according to the instructions for use.

1. Air conditioners should be stored in areas without sources of ignition, such as open flames, gas burning appliances, lighted heaters, etc.
2. Do not pierce or set fire to the air conditioner. Before carrying out repair and maintenance work on R32 air conditioning equipment, a safety inspection should be carried out to ensure that the risk is minimized.
3. If the air conditioner leaks refrigerant, immediately open all doors and windows, keep the room ventilated, turn off the power, leave the room and request repair.
4. When installing or relocating the air conditioner, be sure to bleed the refrigerant circuit to ensure it is free of air, and use only the specified refrigerant (R32). The presence of air or other foreign material in the refrigerant circuit will cause an abnormal increase in pressure resulting in equipment damage and even personal injury.
5. The vacuum pump must be used for evacuation of the refrigerant gas, and it is strictly forbidden to use the airframe refrigerant for evacuation.
6. After completing the installation, check for gas leaks.
7. Carefully check the following safety signs before installing and using the air conditioner.



Caution, risk of fire



Read the maintenance manual carefully!



Read the instruction manual carefully!



Read the installation instructions carefully!

Installation guide

- This air conditioner complies with the safety and operating standards promulgated in your country.
- Installation and removal of the air conditioner must be carried out by professional service and maintenance personnel. Problems and losses may occur if the air conditioner is installed by unprofessional personnel.
- The user must provide a power supply that meets the installation and operating requirements. Refer to the nameplate for details on the voltage required for this product.
- Voltage in excess of this range will affect the normal operation of the air conditioner.
- A separate outlet with a fuse or circuit breaker should be used for the air conditioner.
- The air conditioner must be properly and reliably grounded, or it may cause electric shock or fire.
- Do not turn on the air conditioner before connecting it properly and checking the wiring and piping.
- The appliance must not be installed in the laundry room or bathroom.
- If necessary, consult the supply authority and ask for information about the system.
- The plug must be accessible after installation of the appliance.
- These instructions are subject to change without notice.

Installation of accessories

- Carefully examine the enclosed packing list and check if all accessories are present. Users may have to purchase on their own any items not included in the packing list that may be required in the installation.

Indoor unit location

- Away from any heat source, steam source, flammable gas leakage and smoke.
- Without any obstacle near the inlet and outlet, and keep good ventilation.
- With a good discharge for water.
- At least 1m away from any wireless equipment (such as TV, radio, etc.).
- Mounted on a wall that can support the weight of the air conditioning unit and that does not vibrate producing noise when the unit is in operation.
- The distance between the indoor unit and the floor should be more than 2.3 m (8 ft).
- The socket must be accessible after the unit is installed.
- Ensure a distance as shown in Fig.1.
- The back of the indoor unit should be attached to the wall (Fig.1).
- All figures are schematic images and may be slightly different from the actual equipment you have purchased.

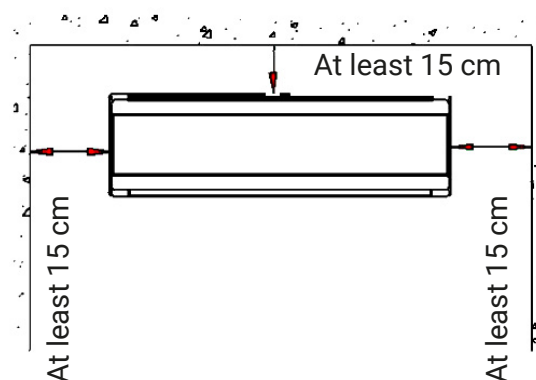
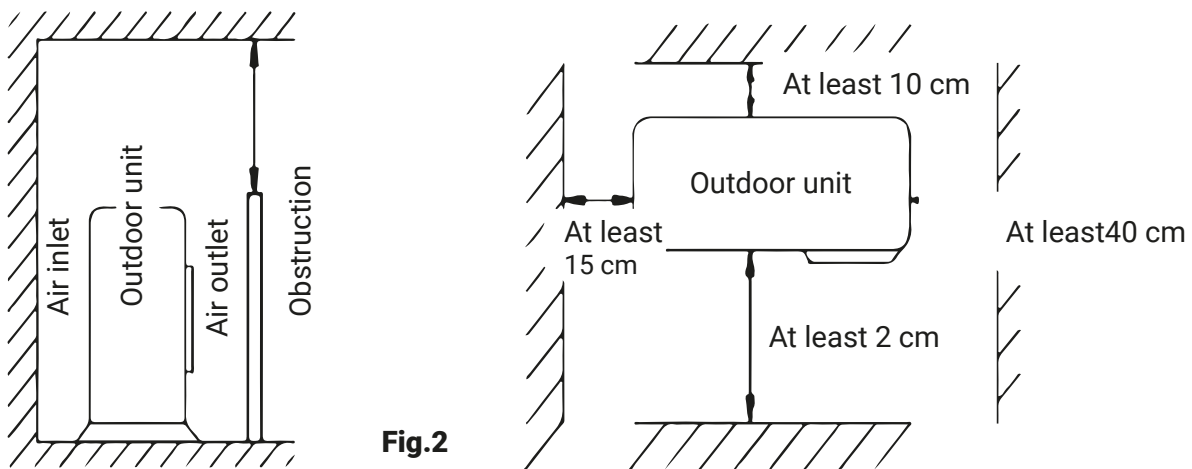


Fig.1

Location of the outdoor unit

- Avoid direct sunlight.
- Away from heat sources, steam sources, flammable gas leaks, smoke and dust.
- Select a location away from rain (snow) and that has good ventilation.
- Neighbors will not be affected by air and noise generated, nor by discharged water.
- A location where it is easy to install and maintain.
- Mounted on a solid and reliable base will not increase noise and vibration.
- For high cooling performance, make sure that the front, rear, left and right side of the unit are located in an open area.
- The outlet is designed to be outdoors, any obstacles will affect performance.
- The installation distance must meet the requirements of Fig. 2.



Tube selection

- Make sure that the level difference (height) of the indoor and outdoor units and the length of the pipes meet the requirements of Table 1.
- If the pipe length is greater than 7 m, but less than 15 m, it will be necessary to increase the refrigerant according to Table 1.
- If the installation position of the outdoor unit is higher than that of the indoor unit and the piping is longer than 10 m, you will have to place an oil trap in the gas piping every 8 m. (Fig. 3).

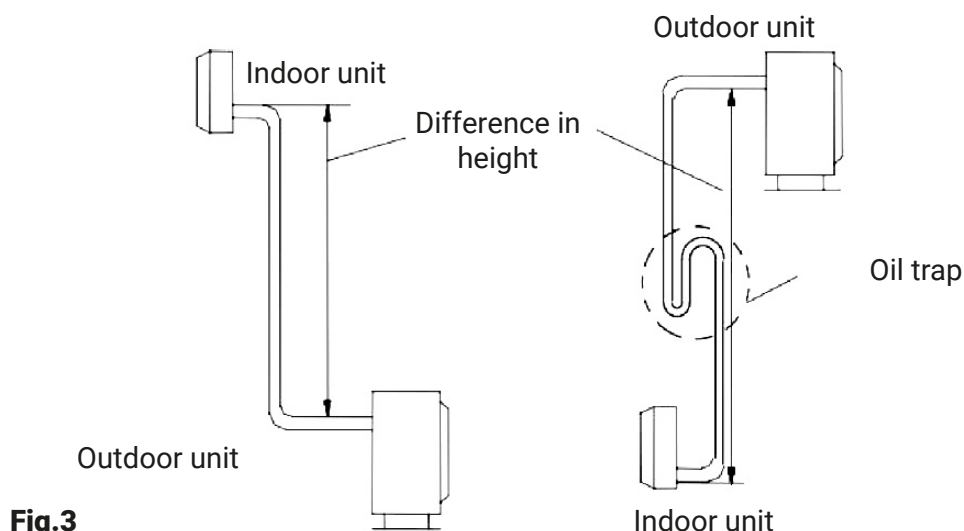


Table 1

Pipe size		Normal pipe length (m)	Max. pipe length (m)	Height difference (m)	Additional refrigerant (g/.m)
Estrecha (mm)	Ancha (mm)				
Φ 6(1/4")	Φ 9(3/8")	5.0	9	5	12
Φ 6(1/4")	Φ 12(1/2")	5.0	12	7	12
Φ 6(1/4")	Φ 15.88(5/8")	5.0	15	8	12
Φ 9(3/8")	Φ 15.88(5/8")	5.0	15	8	15
Φ 9(3/8")	Φ 19.05(3/4")	5.0	20	10	15

The above dimensions are for reference only, and actual product will prevail.

Securing the installation panel

- Remove the metal installation plate from the indoor unit. Adjust the installation plate horizontally, the height difference between the right and left side of the installation plate should be less than 5 mm (Fig. 4).
- Drill the holes and insert the plastic expansion plugs at the appropriate places on the wall, and fix the installation plate to the wall using M5x30 screws. Make sure you have at least 4 fixed points on the wall. Make sure the installation plate is in a horizontal position.
- Drill the holes as shown in Fig. 5. The holes, 80 mm in diameter, should be slightly inclined outwards.
- Cut the PVC pipes at a small angle and slightly shorter than the thickness of the wall, and insert them into the hole (Fig. 5).
- Place the wall plug.

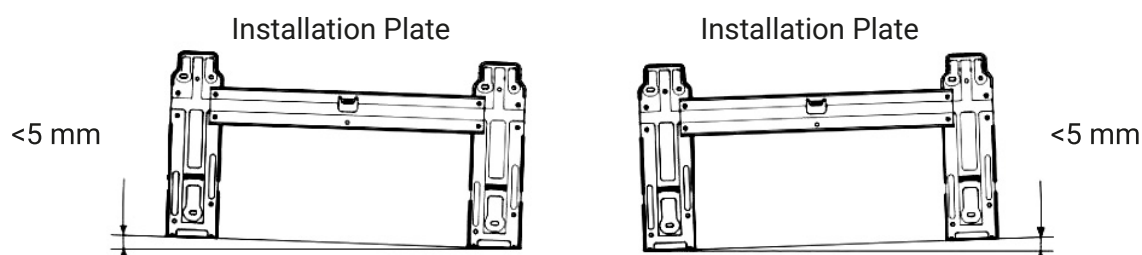


Fig.4

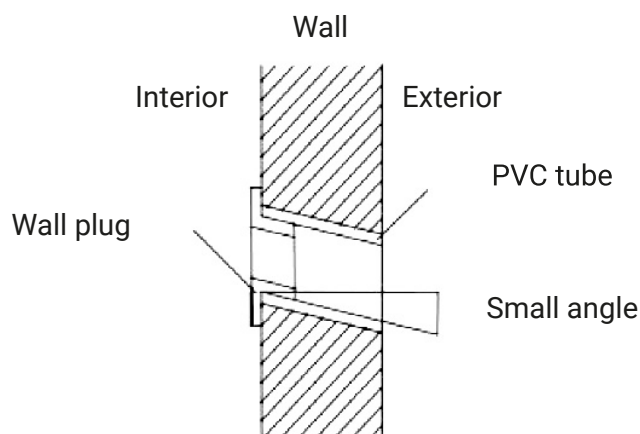
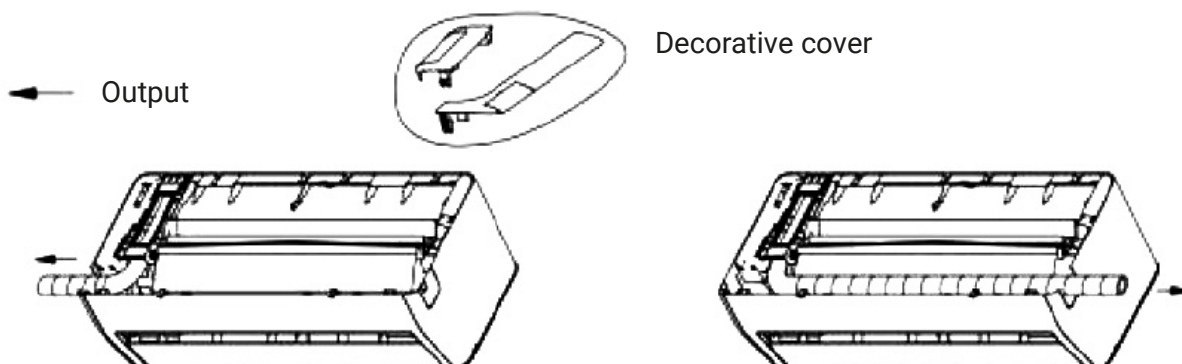
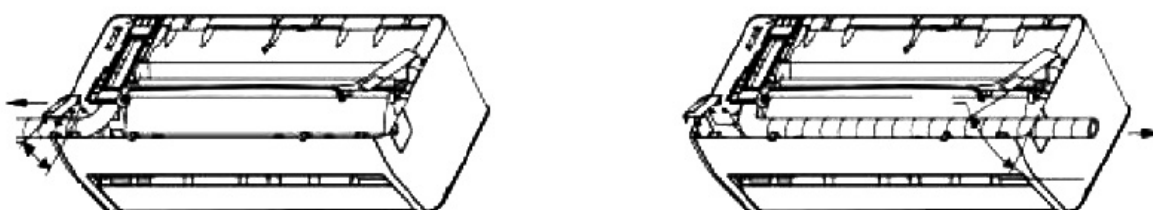


Fig.5

Accessory: installation instructions for the decorative casing.



Step 1: Cover the drain pipe, copper pipe and power cable with PVC protective tape. Adjust the copper tubing to a suitable shape.



Step 2: Installing the decorative casing



Step 3: Finish

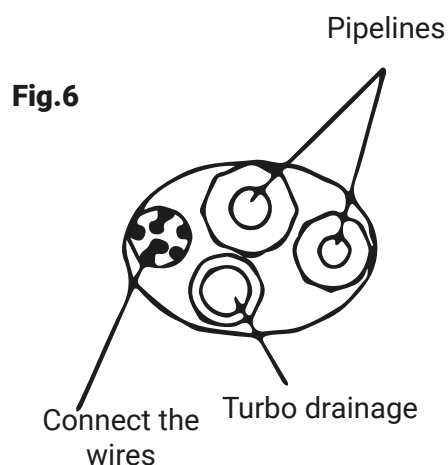
Note: The above images may differ from the actual product. Please look at the actual product.

Indoor unit installation

The tube can be connected in various directions as shown in the figures.

1. Connect the rear tube on the right (similar to the lower tube on the right) (optional, see Fig. 6).

- Remove the pipes from the bottom of the chassis; and connect the drain pipe.
- Tape the pipe joint reliably with protective tape.
- Route the power cable to the indoor unit (do not connect it to the mains).
- Tape the pipes, drain pipe and power cable together using adhesive tape. The drain pipe is placed underneath. Remove the board located in the rack.
- Check that the connections are reliable. Mount the indoor unit on the two hooks on the top of the installation plate (See Fig. 8).

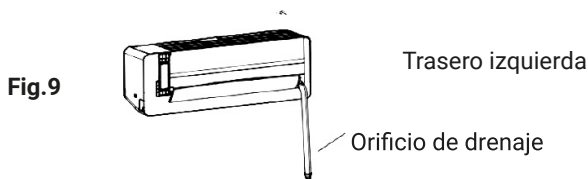
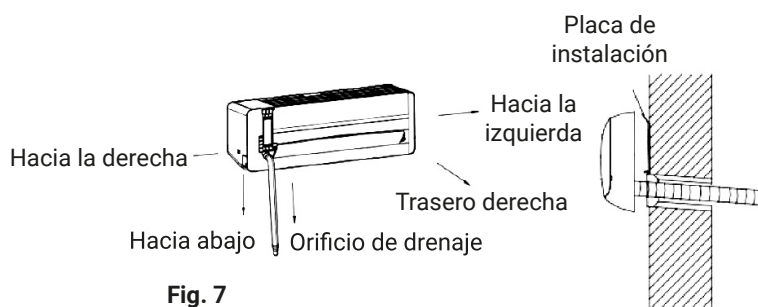


2. Connect the rear tube on the left side (similar to the lower tube on the left side) (optional, see Fig. 9).

- Move the drain pipe to the left side and place the discharge plug on the right side.
- Attach the pipes to their corresponding outlet of the indoor unit using a clamp.
- The following installation steps are the same as in "1. Connect the rear tube to the right".

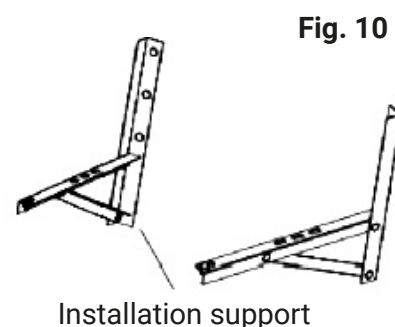
Notes:

- The graphic on the left is available for the position of the drain hose, see Fig. 7.
- The graph on the right is available for the position of the drain hose, see Fig. 9.



Outdoor unit installation

- If brackets are required for the installation of the outdoor unit, the user can order them from our company or our sales agents (Fig.10).
- Assemble the mounting frame and brackets with the 6 bolts (M12x25) supplied, using flat washers, lock washers and nuts.
- Drill 4 or more holes in the wall according to the size in feet of the air conditioning unit. Determine the location of the left and right mounting brackets. Make sure the left and right brackets are at the same height and level.
- Fasten the installation frame to the wall using expansion dowels.
- Fix the outdoor unit (M10x25) on the installation brackets using 4 bolts.
- The fittings must be screwed tight; the connection must be watertight and reliable.
- During installation of the unit, the unit should be hanging on safety ropes to prevent it from falling down.
- During installation and repair, the tools and components used should be secured to prevent them from falling.
- Periodically check the reliability of the installation frame.



Connection of pipelines

- Remove the valve cover from the outdoor unit.
- Align the flare nut with the center of the thread and tighten the nut by hand.
- Then use a torque wrench to tighten the flare nut until you hear the wrench click. It is recommended to use a torque wrench to connect the pipes. If you use another type of openend wrench or spanner, you may damage the flare by exerting more force than necessary.
- If you need to bend the pipe, the angle applied to the pipe must not be too small or the pipe may break, so service personnel should use a pipe bender.
- Never allow water, dust or sand to enter the pipe.

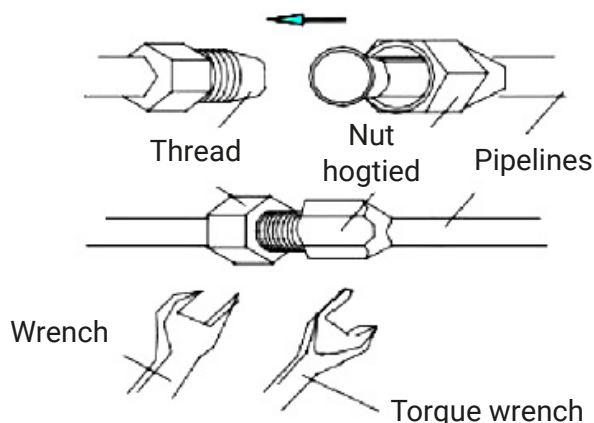


Fig. 11

Table 2

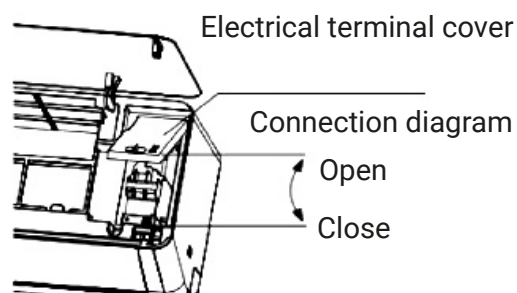
Pipe size (mm/ inches)	Tightening torque (N.m)
Φ6 (1/4")	15-20
Φ9 (3/8")	35-40
Φ12 (1/2")	50-55
Φ15,88 (5/8")	60-75
Φ19,05 (3/4")	80-95

Wire connection

Indoor unit (Fig. 12)

- Open the panel upwards as far as it will go.
- Open the electrical terminal cover.
- Secure the connection cables to the terminal block according to the connection diagram on the cover.
- Press the connection cable firmly with the pressure plate.
- Close the terminal cover, secure it with screws and close the panel.

Fig. 12



2. Outdoor unit (Fig. 13)

- Remove the handle cover fixing screws and open the handle cover.
- Secure the connection cables to the terminal block according to the connection diagram on the handle cover.
- Press the connection cable firmly with the pressure plate. Replace the handle cover and tighten it with the screws.

If the customer needs to lengthen or replace the power cable, refer to Table 3 for specifications.

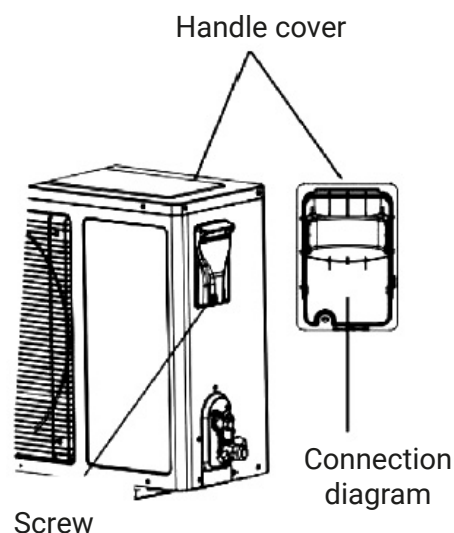


Fig. 13

Table 3

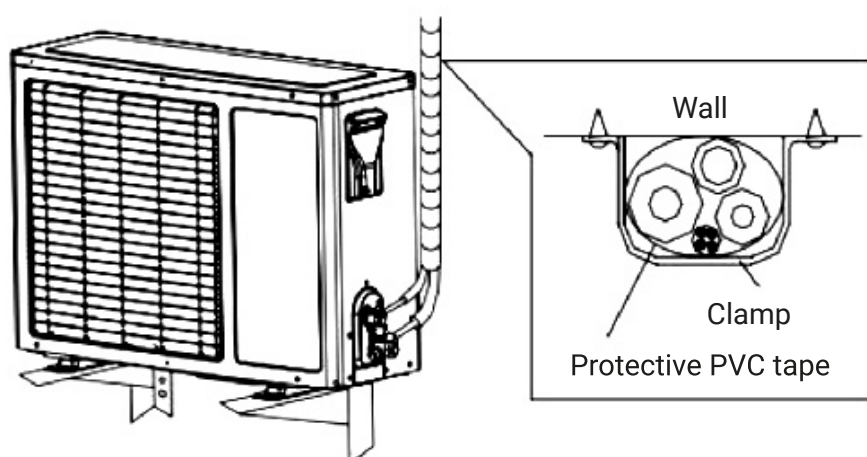
		Power connection wires	Signal control cables	Power cable
	Maximum length	10 m	10 m	5 m
5K/7K/9K/12K	Cross-sectional area	$\geq 1,0 \text{ mm}^2$	$\geq 1,0 \text{ mm}^2$	$\geq 1,0 \text{ mm}^2$
16K/18K/24K(220V) 9K/12K(115V)		$\geq 1,5 \text{ mm}^2$	$\geq 1,5 \text{ mm}^2$	$\geq 1,5 \text{ mm}^2$
21K/24K/28K/30K/36K		$\geq 2,5 \text{ mm}^2$	$\geq 0,5 \text{ mm}^2$	$\geq 2,5 \text{ mm}^2$

Note:

- The grounding screw must be a special screw (stainless steel machined screw or copper M4 screw).
- Make sure that all connected wires are secure and not loose or separated from the contact.
- Check that the wiring connections are carried out according to the wiring diagram of the air conditioning unit.
- The above figures are schematic images and may be slightly different in the actual equipment you have purchased.

Pipe coating with protective tape

- The overlapping with PVC tape must be done carefully so as not to damage the pipes and drain pipe.
- The wrapping starts at the bottom of the outdoor unit up to the indoor unit
- Secure the PVC tape with masking tape to prevent it from being lost
- The drain pipe should slope slightly outward to ensure that it drains well.
- When the indoor unit is lower than the outdoor unit, bend the pipe as necessary to prevent drain water from entering the house.
- Attach the pipe bundle to the wall using pipe clamps.
- Leave enough space between the discharge pipe and the floor. Do not place the discharge pipe in water or in a ditch.
- Seal the external wall holes with rubber or sealing putty.

**Fig. 14**

Evacuation

- Make sure all indoor and outdoor unit tubing is securely connected.
- Remove the two-way and three-way valve cap with a wrench; connect the vacuum pump and the compound valve to the service valve cap.
- Open the low pressure switch on the compound valve, and run the pump until the internal pressure of the unit reaches 10 mmHg.
- When the pump draws a vacuum, close the low pressure switch on the compound valve, then close the vacuum pump. Turn 90° counterclockwise the spool of the narrow pipe service valve with the hex wrench, tighten by turning clockwise after stopping for 10 seconds.
- Check all connections with soapy water or a leak detector for leaks at the indoor and outdoor units.
- Open the narrow pipe and wide pipe service valves, using a hex wrench, to allow the gas to flow.
- Remove the connecting pipe from the wide pipe service valve.
- Screw the entire valve bonnet on tightly with a torque wrench.
- Check the indoor and outdoor unit connections with soapy water or a leak detector.
- Return the valve bonnet and cap to their positions.

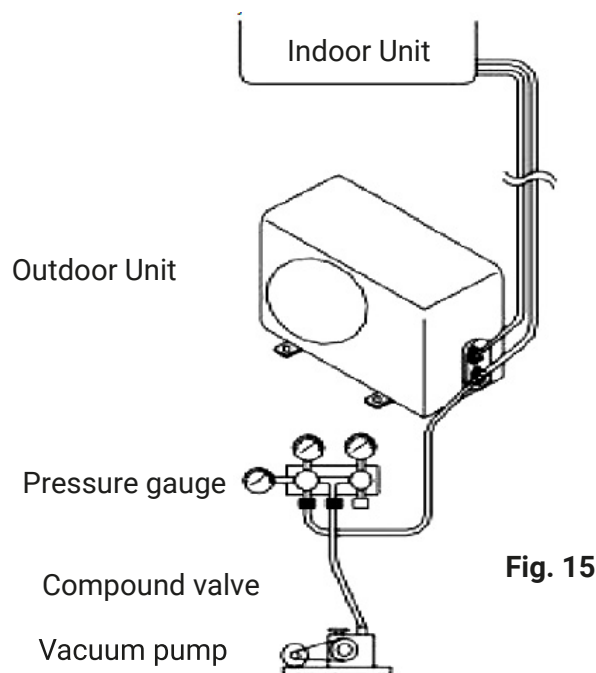


Fig. 15

Gas leak inspection

After connecting the pipes, use a leak inspection device or soapy water to carefully check the joints for leaks. This is an important step to ensure the quality of the installation. If refrigerant is leaking, ventilate the area immediately. Toxic gas may be produced if refrigerant comes in contact with fire. Never touch any accidental refrigerant leakage. Serious injury could result from frostbite.

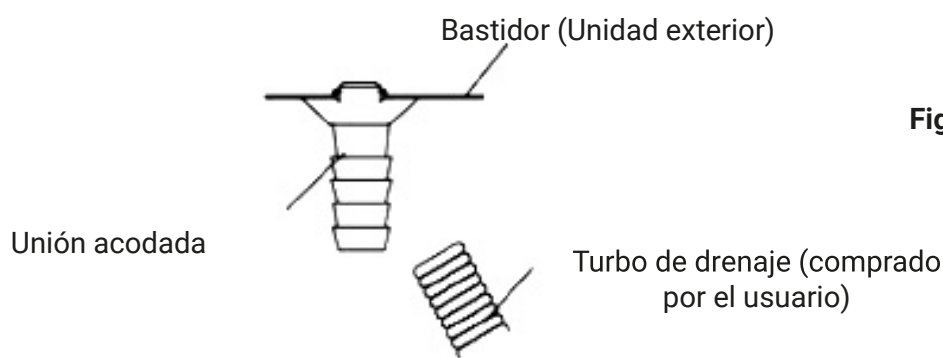
Drenaje

- **No necesita tratamiento de drenaje**

En regiones donde la temperatura baja mucho en invierno, no instale la unión acodada para evitar que el agua de drenaje se congele y ocasione daños en el ventilador. Este tratamiento de drenaje no es necesario en los equipo de aire acondicionado solo de refrigeración.

- **Cuando necesite un tratamiento de drenaje**

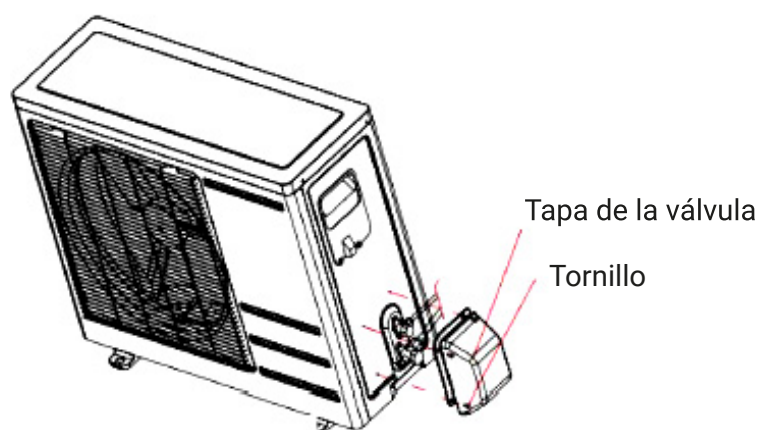
Utilice la unión acodada (en la bolsa de accesorios). La unidad exterior debería estar colocada sobre bloques.



Instalación de la tapa de la válvula

Para todas las unidades que tengan disponible una tapa individual para la válvula (fíjese en la lista de embalaje, el método de instalación es el siguiente:

- Después de conectar las tuberías de conexión entre las unidades interior y exterior siguiendo el método de instalación mencionado anteriormente, saque la tapa de la válvula de la bolsa de accesorios y fíjela en el lateral de la unidad exterior con los tres tornillos correspondientes. (Dentro de la bolsa de accesorios).



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