

# WILLIAMS™

## OWNER'S MANUAL

### INSTALLATION INSTRUCTIONS

VISITE NUESTRA PÁGINA WEB PARA LA VERSIÓN EN ESPAÑOL DE ESTE MANUAL  
<https://www.williamscomfort.com/product/montara-heat-pump/>

## MONTARA™ HEAT PUMP



8,000 BTU/hr.

#### TECHNICAL AND USER MANUAL

HP003

**SAVE THIS MANUAL FOR FUTURE REFERENCE. BEFORE INSTALLING AND USING THIS AIR CONDITIONER PLEASE READ ALL INSTRUCTIONS CAREFULLY.**



CONFORMS TO  
UL STD. 60335-1, 60335-2-40  
CERTIFIED TO  
CSA STD. C22.2  
No. 60335-1, 60335-2-40



**⚠ WARNING:** This product can expose you to chemicals including epichlorohydrin which is known to the State of California to cause cancer and birth defects and/or other reproductive harm. For information go to [www.p65warnings.ca.gov](http://www.p65warnings.ca.gov)

**⚠ WARNING:** Improper installation, adjustment, alteration, service or maintenance can cause injury or property damage. Refer to this manual. For assistance or for additional information consult a qualified installer, service agency or the gas supplier.

# CONTENTS

TABLE OF CONTENTS	2
SAFETY RULES	3
INTRODUCTION	6
ELECTRIC WIRING DIAGRAM	8
INSTALLATION	9
REMOTE CONTROL OPERATION	13
MAINTENANCE	16
HP003 EXPLODED VIEW	19
HP003 REPLACEMENT PARTS	20
TECHNICAL DATA	22
DISPOSAL INFORMATION	23

# SAFETY RULES

**⚠ WARNING R32 Refrigerant :** Do not use means to accelerate the defrosting process or to clean, other than those recommended by the manufacturer. 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). Do not pierce burn. Be aware that refrigerants may not contain an odor.



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.

- a warning to keep ventilation openings clear of obstruction;
- a notice that servicing shall be performed only as recommended by the manufacturer.

Keep any required ventilation openings clear of obstruction. Servicing shall be performed only as recommended by the manufacturer.

## 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 precautions shall be completed prior to conducting work on the system contain an odor.

## 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.

## 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.

## 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.

## 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 and on hand. Have a dry powder or CO<sub>2</sub> fire extinguisher adjacent to the charging area.

## 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.

## 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 be maintained 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.

## Checks to the refrigerating equipment:

Where electrical components are being changed, they shall fit the purpose and to 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.

## 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:

- Capacitors are discharged: this shall be done in a safe manner to avoid possibility of sparking;
- No live electrical components and wiring are exposed while charging, recovering or purging the system;
- Continuity of grounding.

## 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.

#### **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.

#### **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.

#### **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.

The following leak detection methods are deemed acceptable for all refrigerant systems. Electronic leak detectors may be used to detect refrigerant leaks but, in the case of flammable refrigerants, the sensitivity may not be adequate, or may need re-calibration. (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 also 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. Removal of refrigerant shall be according to Removal and Evacuation.

#### **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.

#### **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 minimize 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 grounded 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.

**Decommissioning:**

Before carrying out this procedure, it is essential that the technician is completely familiar with the equipment and all of 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 trained and 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, use a manifold so that refrigerant can be removed from various parts of the system.
- f. Make sure that the 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 the 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.

**Labeling:**

Equipment shall be labeled stating that it has been de-commissioned 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.

**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

**Qualification requirement for installation and maintenance technician:**

All who are engaging in the refrigeration system should bear the valid certification awarded by the authoritative organization and possess the qualification for dealing with the refrigeration system recognized by this industry. If another technician is needed to maintain and repair the appliance, they should be supervised by the person who bears the qualification for using the flammable refrigerant.

It can only be repaired by the method suggested by the equipment's manufacturer.

# INTRODUCTION

## 1.1 INTRODUCTION:

PLEASE NOTE: Do not dispose of any packaging until the installation of the air conditioner is completed.

After removing the packing, check that all the content is intact and complete. (See list of accessories). In the event of missing parts, contact your dealer. This air conditioner has been designed to cool or heat the air of a room and should be used only for this purpose.

The manufacture cannot be held liable for damage caused to property or injury to persons or animals due to incorrect installation, regulation and maintenance or improper use. This air conditioner contains R32 refrigerant. At the end of its life, the disposal of this air conditioner must be in accordance with the strict regulation governing the recycling of this product. Please operate with caution during the disposal. Please contact your local authority for regulatory advice.

Do not switch on before having totally assembled the air conditioner and before installing it in its correct operating position. Before starting the appliance, check that it is correctly grounded, according to the legislation in force in the country concerned.

## ! 1.2 IMPORTANT SAFETY INSTRUCTIONS:

When using electrical appliances, basic safety precautions should always be followed: Do not place objects on the product or allow objects to obstruct the inlet or outlet openings. Extreme care should be taken when any product is used by, or near children and pets, and whenever the product is left operating and unattended.

Please note:

Before operating the product, remove the air conditioner from its packaging and check to see it is in good condition. Do not let children play with the packaging, for example plastic bags. Do not operate any product with a damaged cord or plug, or after the air conditioner malfunctions, has been dropped, or damaged in any manner. Return the air conditioner to an authorized service center for examination and repair to avoid a hazard. Do not attempt to repair or adjust any electrical or mechanical functions on this air conditioner as this may void the warranty. Contact your technician. Always operate the product from a power source of the same voltage, frequency and rating as indicated on the product identification plate. This air conditioner is not intended for use in wet or damp locations. Do not place the air conditioner near an open flame, cooking or heating appliance, or hot surface. Do not let the power cord hang over the edge of a table or counter. Arrange the power cord away from an area where it may be tripped over. Never place the power cord under a carpet or rug. Do not operate the air conditioner in areas where petrol, paint, or other flammable liquids are used or stored. Do not carry out any cleaning or maintenance, or access internal parts until the air conditioner has been disconnected from the main electric supply. Do not alter the safety or regulating devices without the permission and instructions of the air conditioner manufacture. Do not pull, remove or twist the electrical cable connected to the air conditioner, even if disconnected from the main electric supply.

Avoid prolonged direct contact with the flow of the air from the air conditioner and the room being closed with no ventilation for a long period of time.

Repair or maintenance work must be carried out by a service engineer or by qualified technicians in compliance with the instructions given in this manual. Do not alter the appliance, since hazardous situations could be created while the manufacture of the appliance will not be liable for any damage or injury caused. This instruction manual is an integral part of the appliance and should therefore be carefully preserved and always accompany the appliance in the event of transfer to another owner or user or another installation engineer. Should the manual be damaged or lost, please download another copy from the manufacturer's website.

## 1.3 RECEIVING THE GOODS

The air conditioner is delivered in protective packaging and is accompanied by an instruction manual.

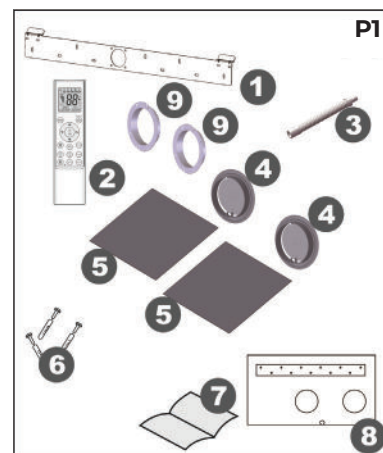
This manual is an integral part of the air conditioner and should therefore be carefully read and preserved. When the air conditioner is unpacked, please check that the air conditioner and the accessory pack are complete and undamaged.

## 1.4 HANDLING

Be fully aware of the weight of the air conditioner before attempting to lift it. Take all necessary precautions to avoid damaging the product or causing personal injury. It is advisable to remove the packaging only when the air conditioner has been located at the point of installation. Carefully remove the adhesive strips positioned on the air conditioner. Packaging components must be disposed correctly and not left within reach of children, since they are a potential source of danger.

## 1.5 LIST OF ACCESSORIES (PI)

1. FASTENING BRACKET
2. REMOTE CONTROL
3. DRAINAGE PIPE
4. EXTERNAL GRATING
5. AIR PIPE FILM
6. KIT OF SCREWS
7. INSTRUCTION MANUAL
8. PAPER TEMPLATE FOR WALL DRILLING
9. RING

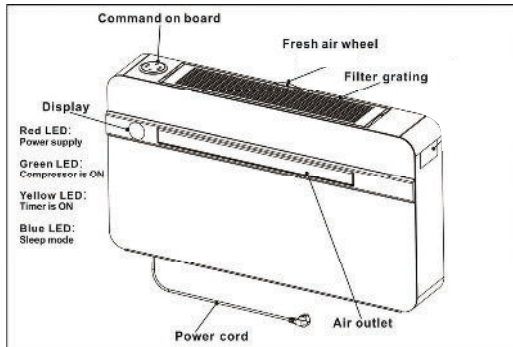
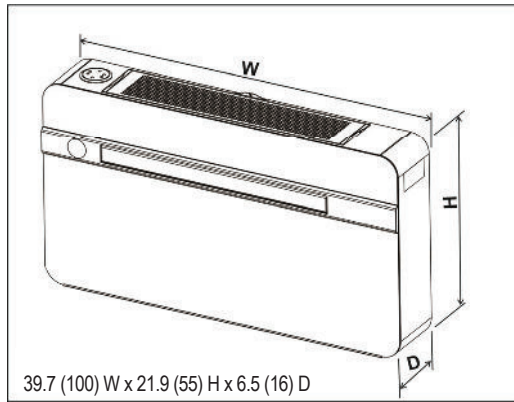


## 1.6 DISPOSAL OF WASTE

Waste electrical products should be disposed of with household waste. Please recycle where facilities exist. Check with your local authority or retailer for recycling advice. Do not dispose this product as unsorted municipal waste. Collection of such waste separately for special treatment is necessary.

Any batteries used in the remote control contain materials, which are hazardous to the environment. They must be removed from the remote control when they reach the end of their life and disposed of responsibly.

## 1.7 DIMENSIONS AND FEATURES



### OPERATING CONDITIONS IN COOLING AND DEHUMIDIFICATION MODE:

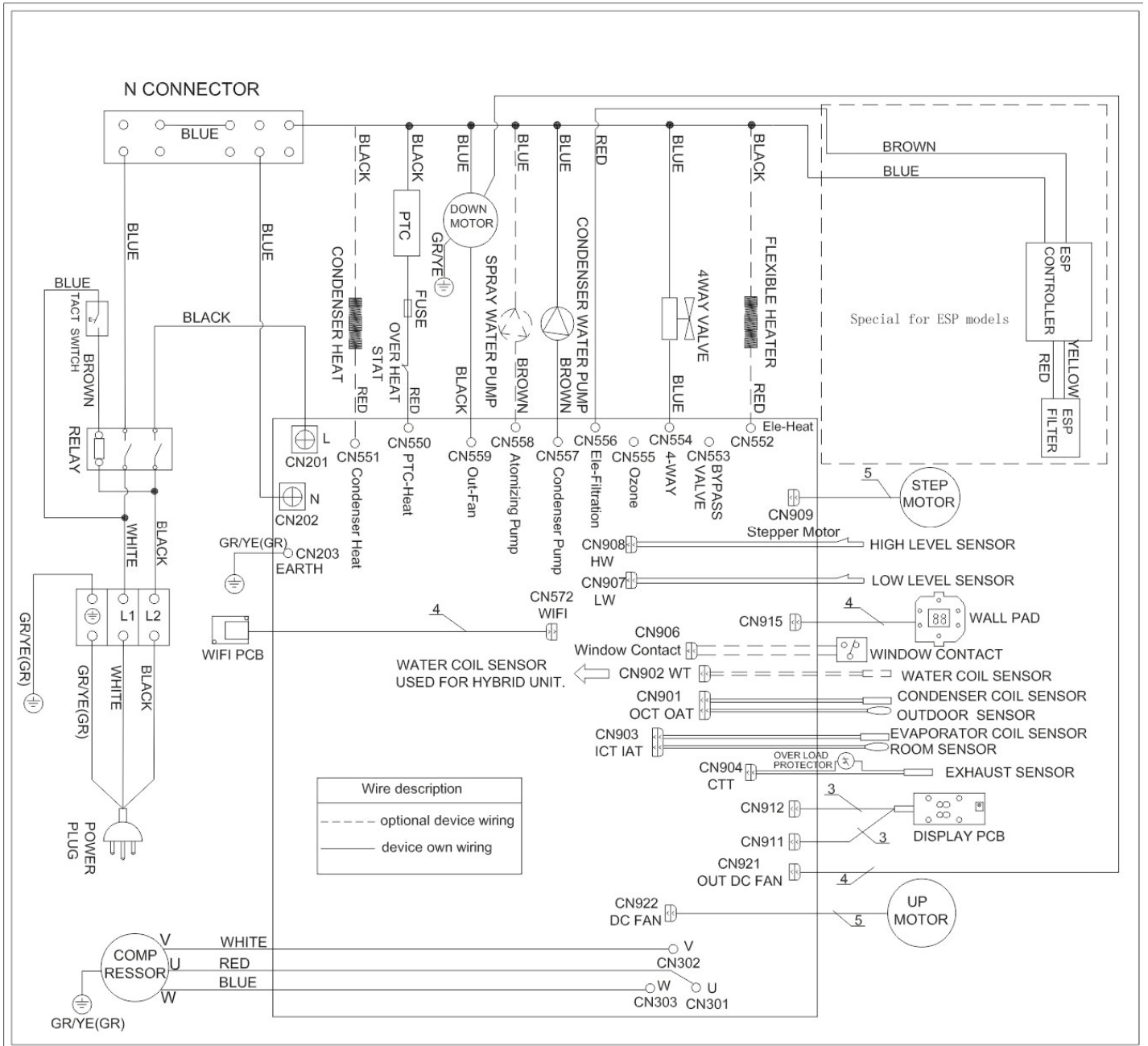
- Inside 80°F (26.7°C) DB, 67°F (19.4°C)
- Outside 95°F (35°C), 75°F (23.9°C) WB

### OPERATING CONDITIONS IN HEATING MODE:

- Inside 70°F (21.1°C) DB, 60°F (15.6°C) WB
- Outside 47°F (8.3°C) DB, 43°F (6.1°C) WB

# ELECTRIC WIRING DIAGRAM

## 1.8 WIRING DIAGRAM



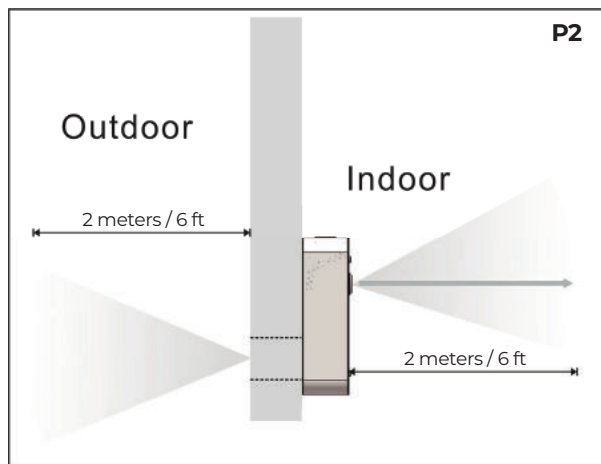


# INSTALLATION

## 2.1 POSITIONING THE HP003 MONTARA HEAT PUMP (AIR CONDITIONER) Refer to Reference (P2):

To maintain the best performance from your air conditioner and prevent breakdowns or hazards, it must be positioned correctly. Please follow the guidelines and instructions below in full, as failure to do so could cause potential installation problems.

- The air conditioner must be installed on an exterior wall that has access to the outside with a minimum of 6 feet (2 meters) clearance to the outside.
- The air conditioner must be fitted leaving room all around as illustrated in the paper template included with the unit.
- The wall on which the air conditioner is installed must be sturdy and able to withstand the weight of the air conditioner.



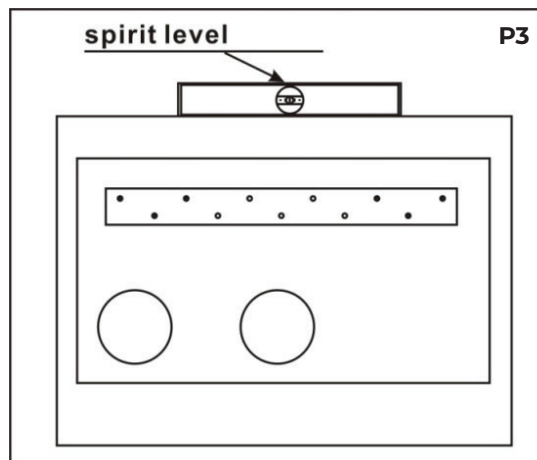
After determining the best location for installation as described above, please check to ensure that the wall can be drilled in the chosen area without interfering with other structures or installation (beams, pipes, wires, etc.).

Please also ensure that there are no obstacles on the outside of the wall, which may obstruct air circulation through the drilled holes, for example: plants and their leaves, slats or paneling, drain pipes, overflows and gratings, etc. Any obstruction could interfere with the correct performance of the conditioner.

## 2.2 PAPER TEMPLATE (P3)

Position and secure the template to the desired location on the wall once the following guidelines have been thoroughly checked.

- Do not drill any holes until you are completely confident that there are no obstacles in the area you wish to drill and there are no obstructions, which could be hidden by the construction of the wall, for example: Electrical wiring, water and gas pipes or supporting lintels or beams.
- Ensure that a spirit level is used, as the air conditioner must be leveled.
- Follow the installation instructions in full.





## 2.4 DRILLING THE WALL (P4):

Please note: If you are drilling the hole above ground floor level, please ensure that an area has been secured and while the holes are drilled the outside area is supervised, until the drilling is completed.

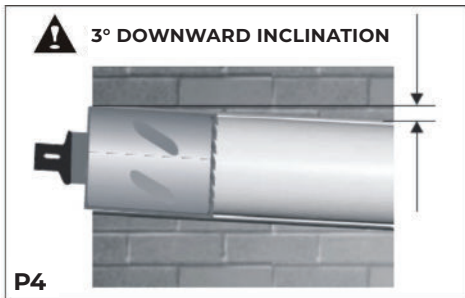
### Intake and outlet holes:

-This operation should be carried out using the proper tools (diamond tip or core borers drills with high twisting torque and adjustable rotation speed).

-Fasten the template to the wall taking care to check the distance from the floor or ceiling and keep it horizontal by using a spirit level.

-Use a pilot drill to mark the center of each core hole to be drilled. Use a core boring head having a diameter of 16 in (162mm) to drill the two holes for intake and outlet the air.

**⚠ WARNING:** It is recommended that the holes must have a slightly downward inclination of 3-5 degree to prevent any back flow of water from the pipes.



Indoor

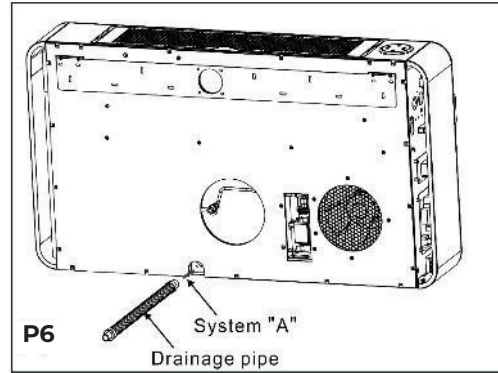
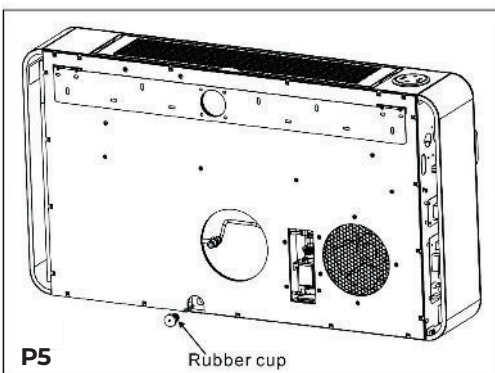
Outdoor

### Drainage hole:

This air conditioner has a double drainage system to drain the condensate moisture automatically. Before installing the air conditioner, choose which one is the suitable system for your installation. Please read the following instructions carefully:

#### System "A": (P5, P6)

Unplug the rubber cup from drainage hole (P5). Connect the drain pipe (from rubber terminal) to the back side of air conditioner. System "A" is the more common use, and the discharge pipe goes outside where there is no problem to connect or to discharge it. This solution is suitable for warm and cold temperature climates. With this solution, you can drain the condensate moisture to a suitable place, eliminating potential problems to your neighbors.

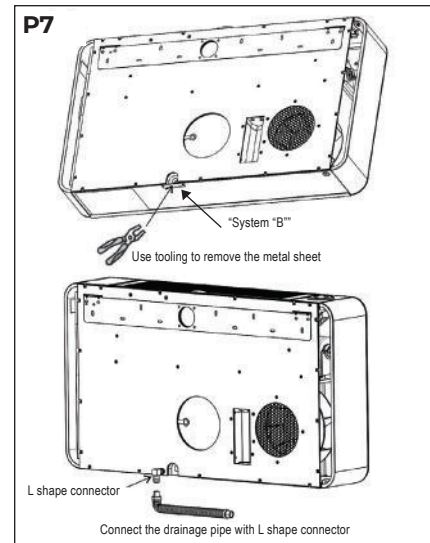


#### System "B": (P7)

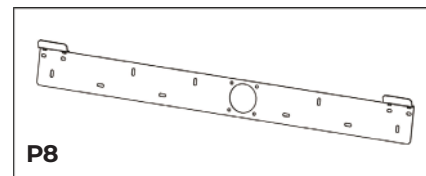
If it is not possible to install the drainage pipe as shown on "A" system to outside, B system is available for this unit. If using system "B", please remove the square shape metal sheet from the base with tooling.

Connect the drainage pipe with L shape connector. Usually "B" hole is used in the installation when the outside temperature is very low, and in this way ice is prevented in the discharge water pipe.

This solution is used also to be much easier for the installer to connect the internal drainage so it is not seen from the outside.



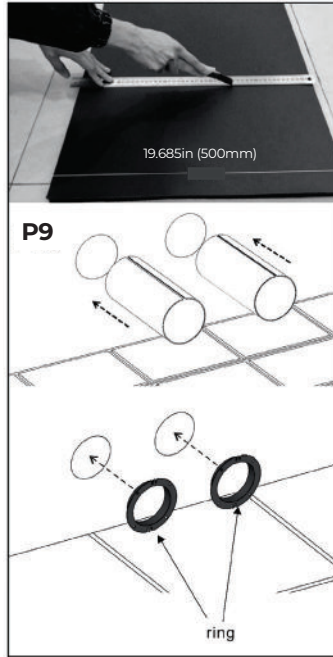
## 2.5 FASTENING THE BRACKET (P8)



- Drill the holes for anchoring the fastening bracket to the wall preferably using the 17 holes showed in black on the paper template.
- The anchor bolts provided require a 3 in (8mm) hole. The wall should be inspected to determine if provided bolts are useful or if it is necessary to use a different anchorage. The manufacturer is not liable for the underestimation of the structural consistency of the anchorage made at the time of installation.

## 2.6 INSTALLATION OF THE PIPES (P9)

- After drilling the holes, the plastic sheet supplied with the air conditioner needs to be fitted through them.
- Measure the depth of the wall and cut supplied plastic sheet.
- Roll the sheet and insert it into the hole, paying attention to the joint line, which must be in the upper position. Remember that the sheet must have the same inclination of the holes (min 3°).
- Insert the rings into the holes.



**! WARNING:** The appliance should not be installed in a laundry room.

- The appliance must be positioned so that the plug is accessible.
- The appliance shall be installed in accordance with national wiring regulations.

## 2.8 FITTING THE GRATINGS (P12)

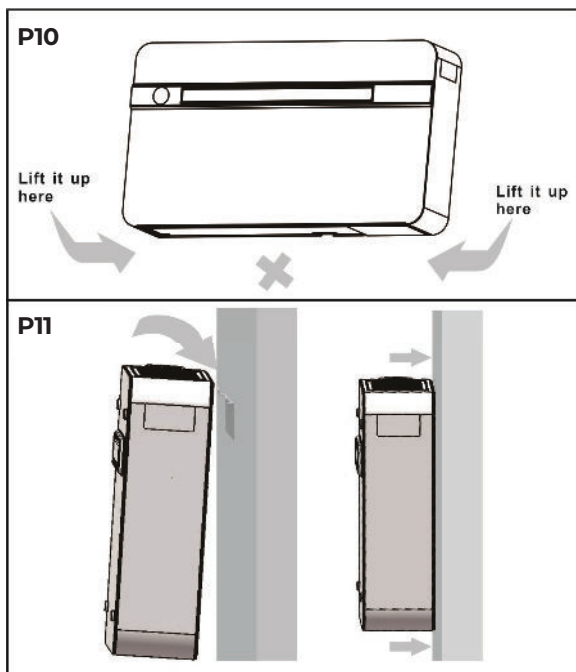
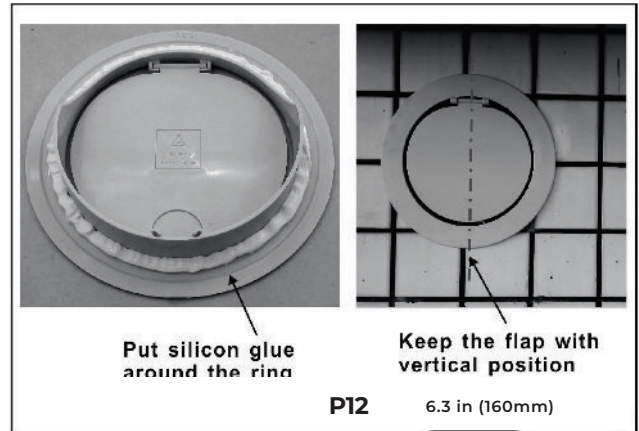
**Option 1:** 6.3 in (160mm) invisible grille. To fit the external two gratings, please proceed as following:

- Put the silicon glue around the ring, and fix the two gratings from outside.
- Pay attention to the flap direction. Always keep the shaft side facing up.
- Try to open and close the flap, there should not be any interference.
- For gratings surface, paint them like the wall if preferred.

## 2.7 FITTING THE AIR CONDITIONER ON BRACKET (P10, P11)

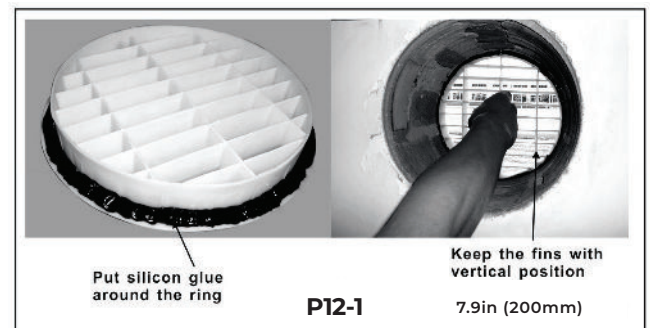
After checking again that the fastening bracket is securely fastened to the wall, and that any necessary preparations for electric connection and condensate drainage (if needed) have been made, fasten the air conditioner to its supporting bracket.

Lift it up by holding the sides at the bottom. Tilt the air conditioner slightly toward you to facilitate the operation of fastening it to the bracket. The air conditioner can now be pushed firmly against the wall. Inspect carefully the installation to make sure that the insulating back panel fits firmly against the wall and there are no fissures at the back of the air conditioner.



**Option 2:** 7.9 in (200mm) soft grille. To fit the external two gratings, please proceed as following:

- Put the silicon glue around the ring, and fix the two gratings from outside.
- Pay attention to the fins direction, always keep the fins with a vertical direction.

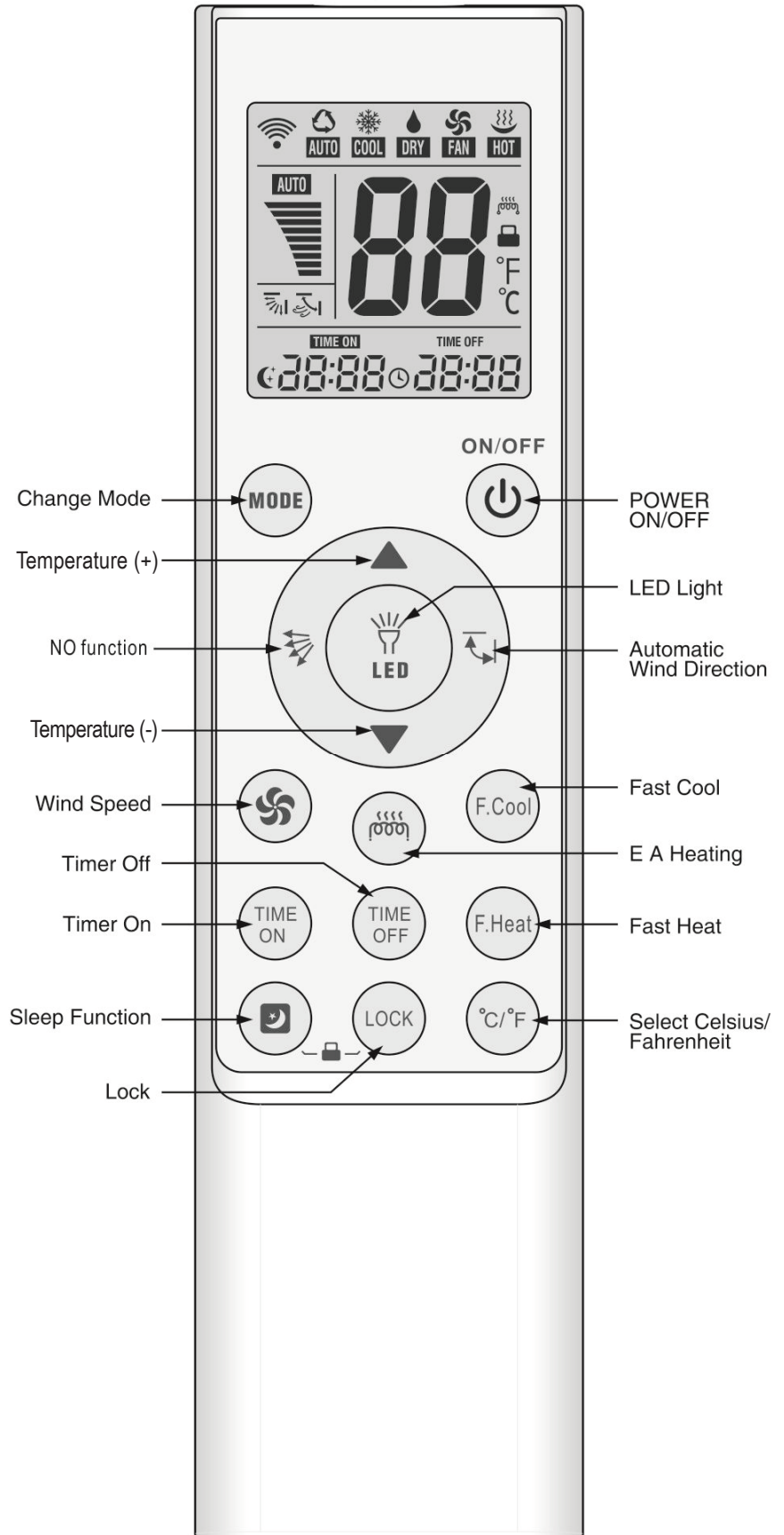


# REMOTE CONTROL OPERATION

## 3.1 INTRODUCTION OF ICONS ON YOUR REMOTE CONTROL

Icons	DEFINITION
	AUTO MODE
	COOLING MODE
	DEHUMIDIFYING MODE
	FAN ONLY MODE
	HEATING MODE
	FAN SPEED
	WIND DIRECTION
	DISPLAY
	ELECTRICAL HEAT
	LOCK
	FAHRENHEIT/ CELSIUS
	TIMER ON
	TIMER OFF

Infrared Sensor      LED Flashlight

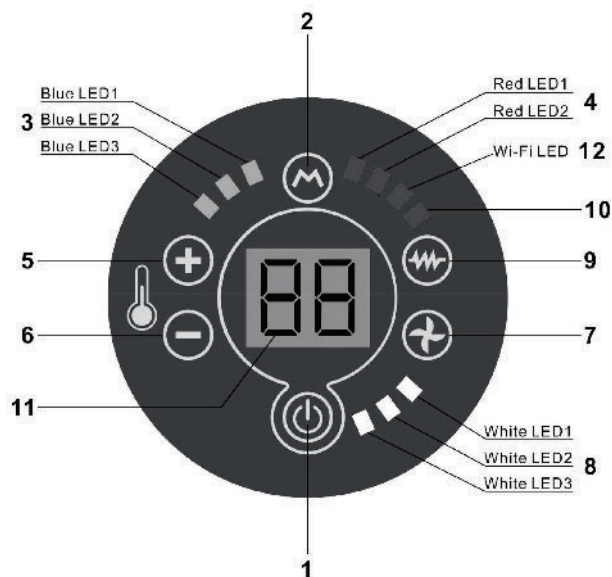


# CONTROL FUNCTIONS

## 3.2 REMOTE CONTROL FUNCTIONS

1. Celsius/Fahrenheit function “°C/ °F” : Press “°C/ °F” button to switch between “Celsius” and “Fahrenheit”.
2. Timer **ON/OFF**: This function can be effective only when the original remote control has timer function. After pressing “**TIMER ON**” or “**TIMER OFF**” buttons, the timer indicator is displayed, and the A/C is now in timer state.
3. **Child Lock: Lock**- “🔒” and “**LOCK**” buttons at the same time, then the “🔒” icon will appear on the display screen.  
**Unlock**- Press “🔒” and “**LOCK**” buttons at the same time, then the “🔒” icon will disappear from the display screen.
4. **Clock**:
  1. Press and hold “🕒” and “**MODE**” buttons at the same time and the remote control will enter into a clock mode, with corresponding hour digits starting to flash.
  2. Press “**TEMP▲**” (TEMP▼) button to increase (decrease) 1 hour at each press. Hold for 2 seconds to increase or decrease continuously.
  3. Press “🕒” button to complete setting the appropriate hour.
  4. At this point, the corresponding minute digits begin to flash, use the “**TEMP▲**” (TEMP▼) button to set appropriate minutes.
  5. After setting minutes, press “🕒” button to quite clock settings.
5. **Fast cooling and fast heating: Fast cooling**- Press “**F.COOL**” button to set cooling mode, 18°C, strong wind and auto wind direction.  
**Fast heating**: Press “**F.HEAT**” button to set heating mode, 30°, strong wind and auto wind direction.
6. **Battery replacement memory**: The remote control's chip has a built-in memory function, ensuring that there is no need to reset for a short-term power off like battery replacement etc.
7. **Backlight** The backlight covers the whole panel. Press any button to light it, and it will switch off after 10 seconds if there is no operation.
8. **Flashlight** Press & hold the “**LED**” button to switch on the LED light, release it to switch it off.

## 3.3 ON BOARD CONTROL FUNCTION



1. **ON/OFF button**: Turn on or turn off the air conditioner.
2. **MODE button**: Set up the air conditioner working mode. COOLING, HEATING, FAN, DRY and AUTO mode are for selection. When DRY mode is acted, blue LED1 and red LED1 will be ON.
3. **COOLING LED**: Blue LED1, LED2, LED3 show cooling state.
4. **HEATING LED**: Red LED1, LED2, LED3 show heating state.
5. **UP button**: Increase the temperature or time.
6. **DOWN button**: Decrease the temperature or time.
7. **FAN SPEED button**: Set up the fan speed, High, Middle, Low and AUTO speed are for selection.
8. **FAN SPEED LED**: White LED1, LED2, LED3 relate fan speed state. LED1 ON means LOW speed; LED1 and LED2 ON means MIDDLE speed; LED1, LED2 and LED3 ON means HIGH speed. LED1, LED2 and LED3 flash means AUTO speed.
9. **ELECTRICAL HEAT button**: Turn on or Turn off the electrical heater.
10. **ELECTRICAL HEAT LED**: Shows the electrical heater state.
11. **TEMPERATURE/TIME/MODE display window**: This window will show temperature, time, setting mode and working program.

1) Select working mode by pressing MODE button, window will show working mode signal for 5 seconds, then will display ambient temperature for 60 seconds. See below table for different signal indication:

SIGNAL	CO	HE	DE	FA	AU
Mode	Cooling	Heating	Dry	Fan	Auto

2) After adjusting the setting temperature, the setting temperature will flash 15 seconds, then window will show ambient temperature for 60 seconds. After that, the window will be off until next operation.

12. **Wi-Fi LED**: When LED is flashing, unit is ready for Wi-Fi connection. When LED is ON, unit is with Wi-Fi connected.

### 3.4 WI-FI CONNECTIONS

Before using your Wi-Fi function for the first time, you must configure the Wi-Fi signal and settings through your smartphone or tablet. This will allow communication between your connected devices.

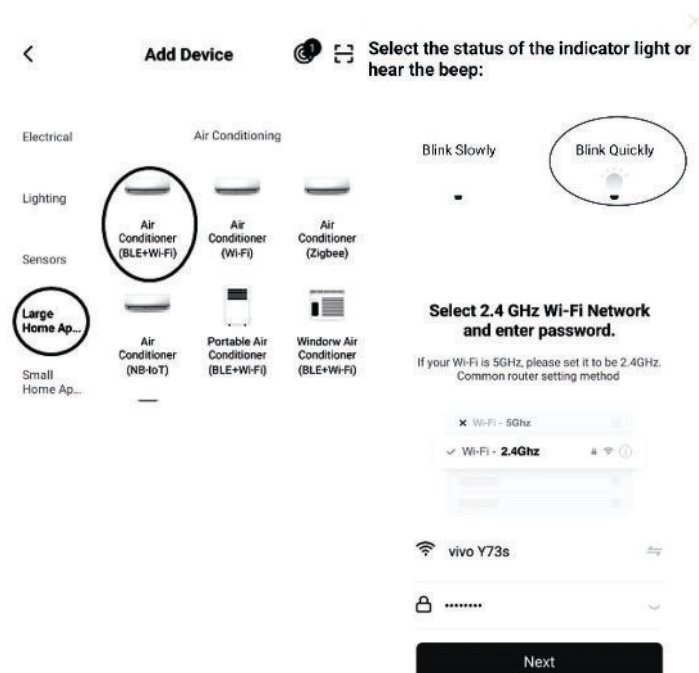
#### Step 1: Download your APP



Scan any QR code above, download the APP in your smartphone or tablet.

#### Step 2: Connect your Wi-Fi signal

1. Keep the smartphone with Bluetooth open. When command on board Wi-Fi LED is flashing, press the “+” on the upper right corner of the page to add your device, or press “Add Device.” The APP will connect automatically, and this may take to 5~90 seconds to complete. Your room name could be edited when the device is connected.
2. If AUTO connection is not available, the device can be added manually. Select “Large Home Appliance”, then “Air Conditioner (BLE+Wi-Fi)”. Select “Blink Quickly”, and select “2.4GHz Wi-Fi Network”, and input Wi-Fi name and password. Press the “Next” button, wait about 5~90 seconds and connect the device.



### 3.5 PROGRAM SETTINGS

Unit can work with different program modes. P1~P6, as shown below are available for the unit.

#### 1. Program description

NO.	Control item	Program parameter	
		01 ( default setting )	02
P1	Temperature unit	Celsius degree °C	Fahrenheit degree °F
P2	Indoor fan speed	Low-Mid-High 850-1000-1250	Low-Mid-High 1020-1200-1500
P3	Heating mode	HP+PTC	HP +PTC+Condenser heater
P4	Ozone function	NO	NO
P5	Flap angle	Low installation	High installation
P6	Display LED	ON	OFF after 30 seconds

Note:

1. 01 setting is the default setting from the factory.

**P1 program:** 01 is for Celsius degree, 02 is for Fahrenheit degree. When 01 is selected, the temperature range is 18-30°C. When 02 is selected, the temperature range is 64-86°F.

**P2 program:** This program setting is for indoor fan speed. 01 is for silent operation, 03 is for big capacity.

**P3 program:** This program is used for heating mode. 01 is basic setting, there is PTC fixed on the unit. We can open/close the PTC by pressing “Electrical heat” button. 02 is optional function, there is extra condenser heater fixed on the unit. When unit is working very low outdoor temperature, condenser heater will be on automatically to improve the heating performance.

**P4 program:** Ozone function is optional and it is not available on HP003 Montara Heat Pump (Air Conditioner) .

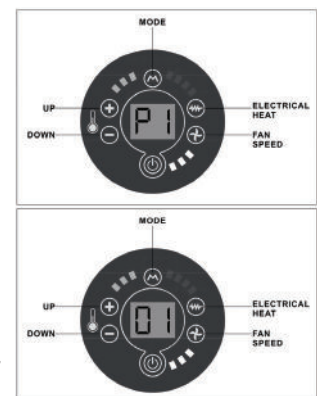
**P5 program:** Unit can be fixed with low installation or high installation. 01 setting is for low installation purpose. 02 setting is for high installation purpose.

**P6 program:** Normally when unit is working, the corresponding LED lamp will be ON to show working condition. When 01 is selected, the LED lamp will be on all the time. When 02 is selected, the LED lamp will be ON for about 30 seconds after receiving the signal from remote control or command on board, then all LED lamp will be OFF.

#### 2. How to set the program

We can change the program setting by pressing the buttons on the command board.

1. When unit is in standby mode, press both “MODE” and “FAN SPEED” buttons for 5 seconds, the window will show P1 first.
2. Press “UP” and “DOWN” button, to change P1-P6 one by one.
3. When window shows P1, pressing “MODE” button, window will show 01, by pressing “ELECTRICAL HEAT” button, display will change 01,02,03.
4. After P1 program setting is finished, press “MODE” button to confirm setting, and display will show P1 again.



5. Using the same procedure, P2-P6 setting will be set accordingly.
6. After all programs setting is finished, pressing both “MODE” and “FAN SPEED” buttons for 5 seconds, program setting is finished.

# MAINTENANCE

## 4.1 FILTER CLEANING (FOR PRE-FILTER)

The filter should be regularly cleaned to keep the air conditioner running efficiently. Clean the filter every two weeks.

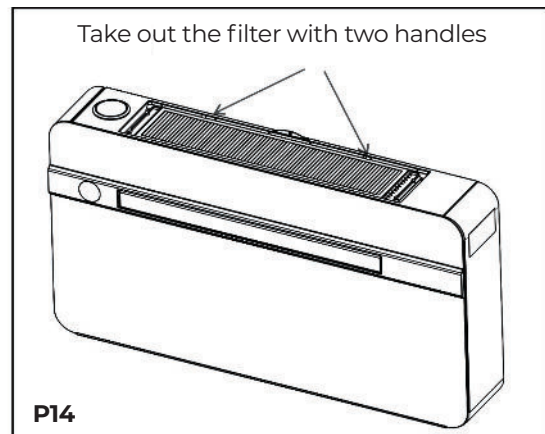
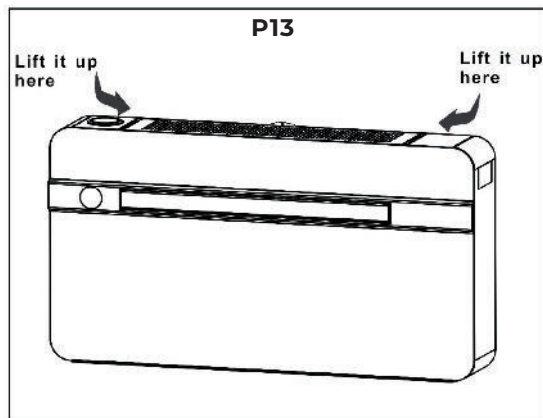
How to proceed:

- Disconnect the air conditioner from the electrical supply.
- Remove the top inlet grille as shown. (P13)
- Take out the filter as shown. (P14)
- Proceed to wash (do not use hot water) and only when they're dry replace them in the same way.

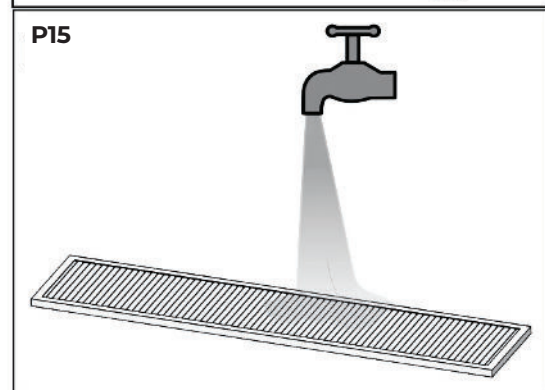
ATTENTION: Do not use the air conditioner without the filter as it could seriously damage the air conditioner.

### EXTERNAL CLEANING:

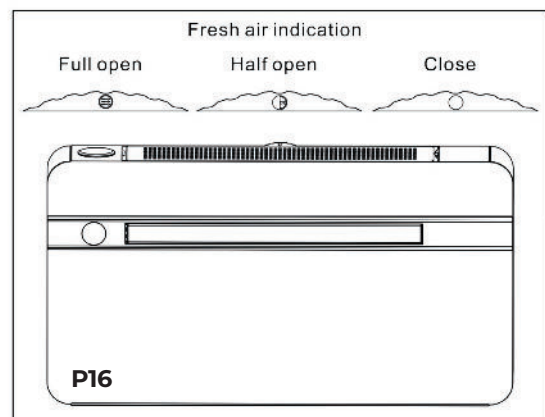
- Disconnect the air conditioner from the electrical supply.
- Wipe external surfaces clean with a damp cloth only.
- Do not use an abrasive cloth and/or solvents, as this may damage the surfaces.
- Do not use excessively wet cloth or sponges, as water stagnation could damage the air conditioner and compromise safety.



P14



P15



P16

## 4.2 FRESH AIR SYSTEM

When the fresh air system is open, the air conditioner will refresh the room air automatically with clean and fresh air. You can open or close the fresh air system at any time.

If the air fresh system is closed, the air conditioner performance is higher, so we suggest to leave the fresh air system closed and open it just a few minutes per day.



### 4.3 TROUBLESHOOTING

Anomaly	Possible Cause	Solution
The appliance doesn't switch on	No power supply	Check the voltage (by turning the light on, for example).  Check that the exclusive magneto-thermic switch that protects the appliance hasn't intervened (if it has, reset it). If the problem repeats immediately, please call the Service Centre and avoid trying to make the appliance work.
	Batteries ran out	Substitute the batteries inside remote control.
The appliance doesn't cool or heat enough	The set temperature is too high or too low	Check and adjust the temperature on the remote control.
	The air filter is clogged	Check the air filter and clean it if necessary.
	Check that there are no other obstacles of the air flow both inside and outside	Remove anything that might block the air flow.
	The thermal refrigeration load has increased (for example, a door or a window has been left open or an appliance has been installed in the room, generating a lot of heat).	Try to reduce the thermal refrigeration load of the room with the following advice: Cover large windows exposed to sunlight with curtains or with external maskings (blinds, porches, reflecting films, etc.); The room must remain closed for as long as possible; Avoid turning on halogen lamps or other high energy consumption appliances such as small ovens, steam irons, cooking plates etc.

### 4.4 ERROR CODE DESCRIPTION:

Fault description	Error Code	Running State
Over-voltage/ under-voltage protection	E0	Not working
Indoor temperature sensor fault	E1	Not working
Indoor coil temperature sensor fault	E2	Not working
Indoor motor fault	E3	Not working
outdoor coil temperature sensor fault	E4	Compressor not working
Compressor discharge temperature sensor fault	E5	Compressor not working
Hot water coil temperature sensor fault	E7	Hot water coil function not working
Water full protection	E8	Compressor not working
Out-of-step with outdoor fan	E9	Not working
Indoor and outdoor communication fault	EE	Not working
Indoor E program fault	F0	Not working
Outdoor temperature sensor fault	F1	Compressor not working
Outdoor E program fault	F2	Not working
Compressor starting fault	F3	Not working
Outdoor temperature too high/low protection	F4	Not working
Driver E program, compressor or PFC fault	F5	Not working
Electrical PCB fault	F6	Not working
Electrical PCB or compressor fault	EF	Not working

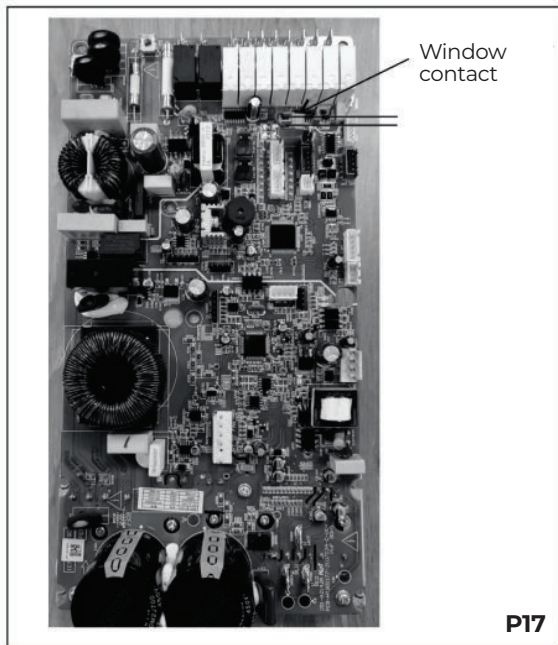


- WARNING:** If the supply cord is damaged, it must be replaced by manufacturer or its service agent or a similar qualified person in order to avoid a hazard.
- The unit has an Auto-restart function. When the electrical current is switched off during working mode, the unit will stop working. When the electrical current is switched on, unit will work with former working mode automatically, no need to Turn ON the unit by remote control.
  - The max operation temperature for the air conditioner (max cooling: outdoor DB43°/WB26°, indoor DB32°/WB23°; min heating: outdoor DB-5°/WB-6°, indoor DB20°).
  - This appliance is not intended for use by anyone (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.

#### 4.5 CLEAN CONTACT FUNCTION (WINDOW OR KEY CARD)

This unit has a CLEAN CONTACT function on the main PCB, mainly used for hotels and offices. This function can be used for window contact or key card contact .

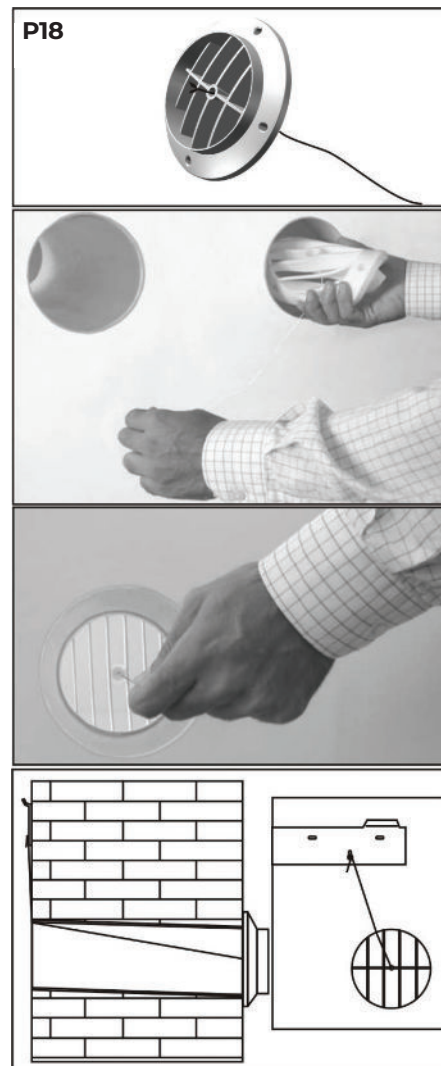
With connection of WINDOW CONTACT, when the contact (window or card) opens for 60 seconds, the air conditioner will stop running until the window is closed again. The PCB is located on the left side of the unit. Please remove the front panel and connect the window contact socket.



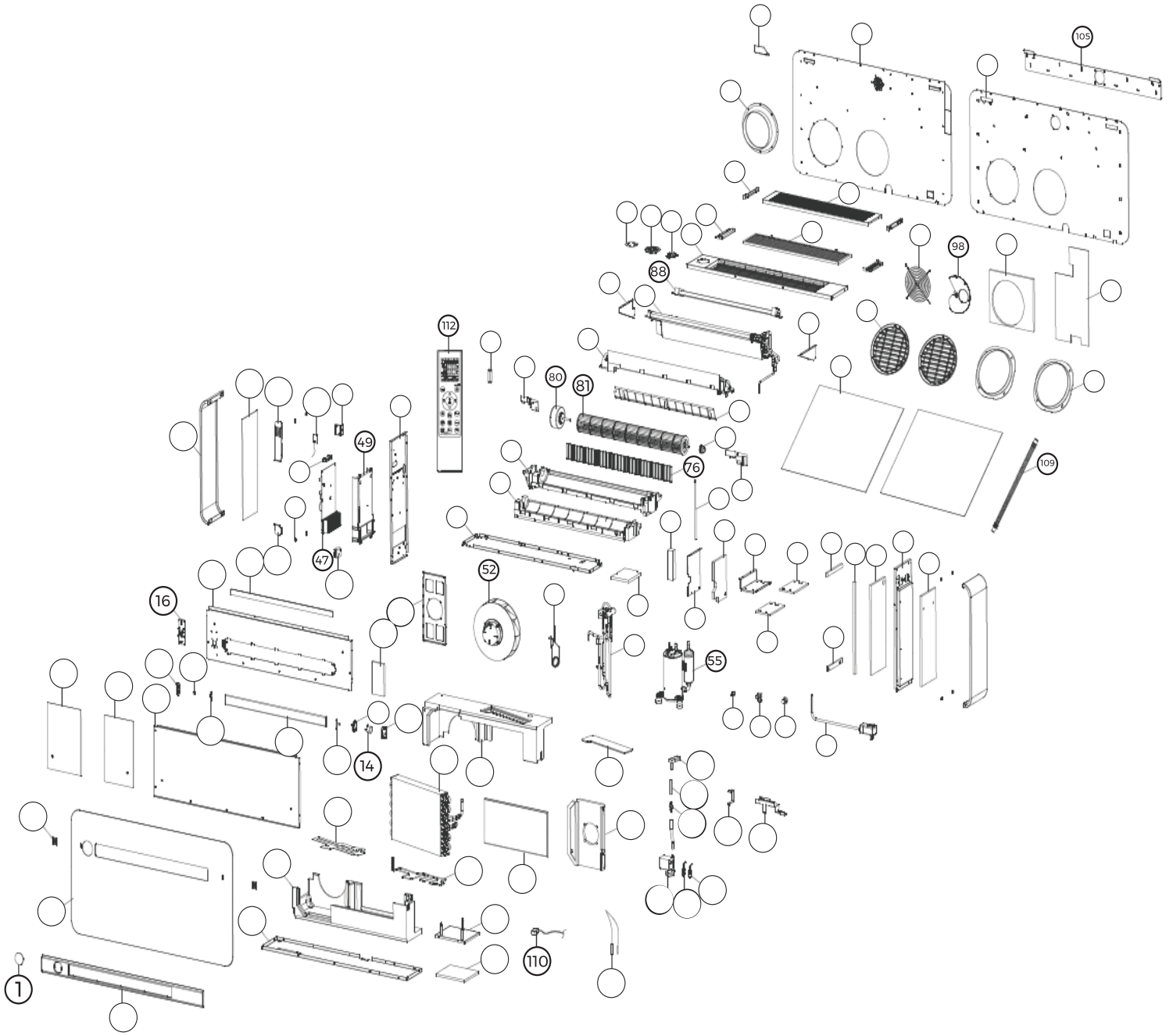
#### 4.6 6-3/8 in (162MM) SOFT GRATING INSTALLATION

To fix the two external soft gratings, please proceed as following:

Familiarize yourself with the fitting of the grating to the tube before installation. Insert the cords through the center hole of grating. Fold the outer grating in half, grasping the cord with your free hand. Insert your arm inside the pipe with the grating and push all the way to the outside. Let the grating unfold and pull the cord toward you. Both gratings fit on the inside of the tube. With a little patience and manipulation the two gratings will fit the end of the tubes. Grasping the cord, insert your fingers between the fins and pull the grating toward you until the same is properly slipped in the pipe, keeping the fins in the vertical position. If the external grating is accessible, to prevent its removal, it is recommended to fasten it to the wall with wall plugs and screws with a diameter of .24 in (6mm). Tighten the cord and fasten it to the dent on the internal flanges.



# HP003 EXPLODED VIEW



# HP003 REPLACEMENT PARTS

HP003 Replacement Parts List		
NO.	Description	QTY
1	Window display cover	1
14	Step motor	1
16	Display PCB+connection cable	1
47	Main PCB	1
49	Main PCB box	1
52	Condenser fan	1
55	Inverter compressor	1
76	Outlet grille	1
80	Indoor AC motor	1
81	Indoor cross fan	1
88	PTC heater	1
98	Fresh air filter	1
105	Wall bracket	1
109	Drain pipe	1
110	4-way valve coil	1
112	Remote control	1

# TECHNICAL DATA

Technical Data		Unit	Model HP003
Cooling	Indoor	°F (°C)	D.B. 80 (26.7), W.B. 67 (19.4)
	Outdoor		D.B. 95 (35), W.B. 75 (23.9)
	Cooling Capacity Nominal	BTU/h (min-max W)	8000 (800-2590 W)
	Input Power	W	900
	Efficiency	EER	8.9
	Efficiency	SEER2	13.9
Heating	Indoor	°F (°C)	D.B. 70 (21.1), W.B. 60 (15.6)
	Outdoor		D.B.47 (8.3) , W.B. 43 (6.1)
	Heating Capacity Nominal	BTU/h (min-max W)	7900 (800-3820)
	Heating Capacity PTC Heater	BTU/h (W)	5200 (1500)
	Input Power	W	720
	Efficiency	COP	3.2
	Efficiency	HSPF2	7.45
Air Flow	Indoor	Type	DC inverter motor + Aluminum cross blade
		CFM	150-230 (max)
		Speed	Low-Med-High-Auto
		Filter	Merv3
	Outdoor	Type	ECM Centrifugal Radial
		CFM	200-350 (max)
		Intake-Exhaust	6.2" round or 7.87"
		Speed	0-10VDC signal
	Dehumidification capacity	gal/24h (pints/24h)	71.7 (20.26)
	Compressor	Type	
Refrigerant		Type and Charge	R32 (410g = 0.90 lb)
Max. Allowable Pressure		Mpa	5.1
Indoor (1.5 mt distance)		dB(A)	35-45
Outdoor (3 mt distance)		dB(A)	35-55

# TECHNICAL DATA

Electrical	Volt range	V	208/230
	Hz/Phase	Hz	60Hz1/1 Phase
	Power Factor	%	0.96
	Fuse (T3, 15L)	V	250
	Rated Absorbed Current for cooling	A	4.4
	Rated Absorbed Current for heating	A	3.6
	Rated Absorbed Current for PTC Electric Heater	A	6.65
	Heating Max (Heating pump + PTC electric heater)	A	9.6
	WiFi device included in the Machine Tuya App	N/A	Yes
Dimensions	Net	in (cm)	39.7 (100) W x 21.9 (55) H x 6.5 (16) D
	Gross	in (cm)	44 (111) W x 26 (66) H x 11 (28) D
Weight	Net	lb (kg)	94.7 (43)
	Gross	lb (kg)	108 (49)
Cabinet	Material	N/A	Galvanized and Painted Steel
	Finish	N/A	RAL 9003 Signal White

# DISPOSAL INFORMATION

<p><b>Smaltimento delle apparecchiature obsolete</b> <b>Disposal of your old appliance</b> <b>Entsorgung von Altgeräten</b> <b>Élimination des appareillages obsolètes</b> <b>Como deshacerse de aparatos eléctricos y electrónicos viejos</b> <b>Eliminação do seu antigo aparelho</b></p>	
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## IT

### Smaltimento delle apparecchiature obsolete

1. Quando su n prodotto è riportato il simbolo di un bidone della spazzatura sbarrato da una croce significa che il prodotto è coperto dalla Direttiva Europea 2002/96/EC.
2. Tutti i prodotti elettrici ed elettronici dovrebbero essere smaltiti separatamente rispetto alla raccolta differenziata municipale, mediante impianti di raccolta specifici designati dal governo o dalle autorità locali.
3. Il corretto smaltimento delle apparecchiature obsolete contribuisce a prevenire possibili conseguenze negative sulla salute umana e sull'ambiente.
4. Per informazioni più dettagliate sullo smaltimento delle apparecchiature obsolete, contattare il comune, il servizio di smaltimento rifiuti o il negozio in cui è stato ac-

## FR

### Élimination des appareillages obsolètes

1. Quand figure sur un produit le symbole représentant une poubelle barrée d'une croix, cela indique que le produit est assujéti à la Directive européenne 2002/96/EC.
2. Tous les appareils et composants électriques et électroniques doivent être éliminés auprès de déchetteries spécifiques indiquées par les pouvoirs publics nationaux ou par les autorités locales.
3. La bonne élimination des appareillages obsolètes contribue à prévenir les conséquences dommageables pour la santé des personnes et pour l'environnement.
4. Pour plus d'informations concernant l'élimination des appareillages obsolètes, veuillez contacter votre mairie, le service d'élimination des ordures ou encore le magasin où le produit a été acheté.

## UK

### Disposal of your old appliance

1. When this crossed-out bin symbol appears on a product it means that the product is covered by European Directive 2002/96/EC.
2. All electrical and electronic products should be disposed of separately from the municipal waste stream via specific collection facilities designated by the government or the local authorities.
3. Proper disposal of your old appliance will help prevent potential negative consequences for the environment and human health.
4. For more detailed information about disposal of your old appliance, please contact your municipality, the waste disposal service or the shop where you purchased the product.

## ES

### Como deshacerse de aparatos eléctricos y electrónicos viejos

1. Si en un producto aparece el símbolo de un contenedor de basura tachado, significa que este se acoge a la Directiva 2002/96/EC.
2. Los aparatos eléctricos no se deben desechar junto con los residuos domésticos, sino a través de puntos de recogida designados por el gobierno o las autoridades locales.
3. La correcta recogida y tratamiento de los dispositivos inserivbles contribuye a evitar riesgos potenciales para el medio ambiente y la salud pública.
4. Para obtener más información sobre cómo deshacerse de sus aparatos eléctricos y electrónicos viejos, póngase en contacto con su ayuntamiento, el servicio de recogida de basuras o el establecimiento donde adquirió el producto.

## DE

### Entsorgung von Altgeräten.

1. Wenn dieses Symbol eines durchgestrichenen Abfallimers auf einem Produkt angebracht ist, unterliegt dieses Produkt der europäischen Richtlinie 2002/96/EC.
2. Alle Elektro- und Elektronik-Altgeräte müssen getrennt vom Hausmüll über dafür staatlich vorgesehene Stellen entsorgt werden.
3. Eine ordnungsgemäße Entsorgung des Altgeräts trägt dazu bei, Schäden an der Umwelt und der menschlichen Gesundheit zu vermeiden.
4. Weitere Informationen zur Entsorgung des Altgeräts erhalten Sie bei der Stadtverwaltung, beim Entsorgungsamt oder in dem Geschäft, in dem Sie das Produkt erworben haben.

## PT

### Eliminação do seu antigo aparelho

1. Quando este símbolo de caixote do lixo com uma cruz em cima estiver afixado a um produto, significa que o produto se encontra abrangido pela Directiva Europeia 2002/96/EC.
2. Todos os produtos eléctricos e electrónicos devem ser eliminados separadamente do lixo doméstico através de pontos de recolha designados para o efeito pelo governo ou pelas autoridades locais.
3. A eliminação correcta do seu aparelho antigo ajuda a evitar potenciais consequências negativas para o ambiente e para a saúde humana.
4. Para obter informações mais detalhadas acerca da eliminação do seu aparelho antigo, contacte as autoridades locais, um serviço de eliminação de resíduos ou a loja onde comprou o produto.

# WILLIAMS™



[www.williamscomfort.com](http://www.williamscomfort.com) | 888-444-1212 | 250 West Laurel Street, Colton CA 92324 USA

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