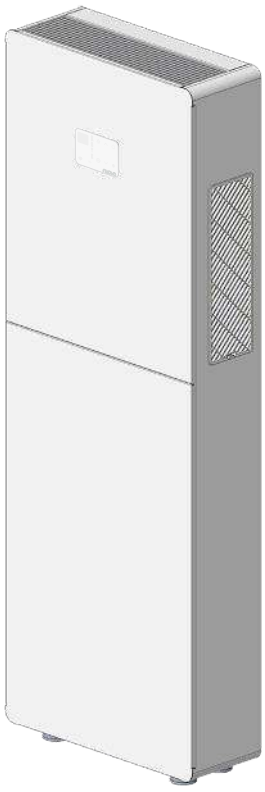
EN

nuova

TOWER30.MB

Monobloc reversible wall-mounted air conditioner



INSTALLATION AND USER MANUAL

BEFORE INSTALLING AND USING THIS AIR CONDITIONER PLEASE READ ALL INSTRUCTIONS CAREFULLY.

EN

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1. GENERAL INFORMATION

AS A SAFETY PRECAUTION

	**WARNING**	THIS SYMBOL THAT THIS APPLIANCE USED A FLAMMABLE REFRIGER-ANT. IF THE REFRIGERANT IS LEAKED AND EXPOSED TO AN EXTERNAL IGNITION SOURCE, THERE IS A RISK OF FIRE.
	**CAUTION**	THIS SYMBOL THAT THE OPERATION MANUAL SHOULD BE READ CAREFULLY.
	**CAUTION**	THIS SYMBOL THAT A SERVICE PERSONNEL SHOULD BE HANDLING THIS EQUIPMENT WITH REFERENCE TO THE INSTALLATION MANUAL.
	**CAUTION**	THIS SYMBOL THAT INFORMATION IS AVAILABLE SUCH AS THE OPERAT-ING MANUAL OR INSTALLATION MANUAL.

This appliance is not accessible to general public.

This appliance may be used by children aged 8 years and over and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been supervised or instructed in the safe use of the appliance and understand the risks involved.

Children should be supervised to ensure that they do not play with the appliance.



WARNING

Do not use any means other than those recommended by the manufacturer to speed up the defrosting process or to clean the appliance.
It must be stored in a room without ignition sources in continuous operation (for example: open flames, a gas appliance in operation or an electric radiator in operation).
Do not pierce or burn.
Be aware that refrigerants may not have an odor.

The appliance must be stored in a well-ventilated area where the size of the room corresponds to the surface area specified for operation:
- a warning indicating that the appliance must be stored in a room without open flames in continuous operation (e.g. a gas appliance in operation) and without ignition sources (e.g. an electrical heater in operation).
The appliance must be stored in such a way as to avoid mechanical damage.

Compliance with national gas regulations must be observed.
The minimum area of application of this machine is 15 m. Make sure that there are no obstacles in front of the machine and that the ventilation openings are not obstructed.
Maintenance should only be performed as recommended by the manufacturer.

Any person required to work on a refrigeration circuit must hold a valid certificate issued by a certification body, the industry-accredited assessment authority, which authorizes their competence to handle refrigerants safely in accordance with an industry standard or recognized evaluation specification.
Maintenance should only be performed as recommended by the equipment manufacturer.

Maintenance and repairs requiring the assistance of other qualified persons must be carried out under the supervision of a person competent in the use of the flammable refrigerant equipment.

Before proceeding with the maintenance of the appliance

Checking the surrounding 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 must be taken before carrying out any work on the system.

Working procedure :
The work must be undertaken as part of a controlled procedure so as to minimize the risk of flammable gases or vapors being present while the work is being carried out.

General working area :
All maintenance staff and others working in the local area must be instructed on the nature of the work being carried out. Work in confined spaces must be avoided. The area around the workspace must be isolated. Make sure that conditions inside the area have been made safe by controlling flammable materials.

Checking for presence of refrigerant :
The area must be checked using a suitable refrigerant detector before and during work, to ensure that the technician is aware of the existence of potentially flammable atmospheres. Ensure that the leak detection equipment used is suitable for use with flammable refrigerants, i.e. without sparks, properly sealed or intrinsically safe.

Presence of a fire extinguisher :
If hot work is to be carried out on the refrigeration equipment or any associated part, suitable fire extinguishing equipment must be available at hand. A powder or CO2 fire extinguisher must be located near the loading area.

No ignition sources :
Any person carrying out work in connection with a refrigeration system involving the stripping of pipework containing or having contained a flammable refrigerant must not use ignition sources in such a way as to cause a risk of fire or explosion. All possible ignition sources, including cigarettes, must be sufficiently far from any workplace, installation, repair, removal or disposal if a flammable refrigerant may possibly be released into the surrounding space. Prior to work taking place, the area around the equipment must be surveyed to make sure that there are no flammable hazards or ignition risks.

Ensure that the area is in the open or that it is adequately ventilated before breaking into the system or conducting any hot work. Some ventilation must be maintained during the time the work is being carried out. The ventilation must make it possible to disperse any released refrigerant safely and, preferably, to expel it into the atmosphere.

Checks to the refrigeration equipment :

Where electrical components are being replaced, they must be fit for the purpose and to the correct specification. At all times the manufacturer's repair and maintenance guidelines must be followed. If in doubt, consult the manufacturer's technical service department for assistance. The following checks should be made on installations using flammable refrigerants:

- the size of the charge corresponds to the size of the room in which the parts containing the refrigerant are installed.
- the ventilation machines and outlets are working properly and are not obstructed.
- if an indirect refrigeration circuit is used, the presence of refrigerant must be checked in the secondary circuit.
- the marking of the equipment are visible and legible. Any illegible markings and signs must be corrected.
- the pipes or refrigeration components are installed in a place where they are not likely to be exposed to a substance that may corrode the components containing refrigerant, unless the components are built in intrinsically corrosion-resistant materials or are adequately protected against corrosion.

Checks on electrical appliances :

The repair and maintenance of electrical components must include initial safety checks and component inspection procedures. If a fault exists that could compromise safety, then no electrical supply may be connected to the circuit until it is satisfactorily resolved. If the fault cannot be corrected immediately but it is necessary to continue operating, an appropriate temporary solution must be found. This solution must be reported to the owner of the equipment so that all parties are informed.

Initial security checks must ensure that the capacitors are discharged: this operation must be carried out safely in order to avoid any risk of a spark, that no live electrical components or wiring are exposed during charging, recovery or purging of the system, that there is continuity of earthing.

Repairs of sealed components :

When repairing sealed components, all electrical supplies must be disconnected from the equipment being worked on before removing the sealed covers, etc. If it is absolutely necessary to maintain the equipment's electrical supply during maintenance, a permanently operating leak detection device must be placed in the most critical place in order to warn the company's personnel of a potential hazardous situation.

Particular attention must be given to the following points to ensure that interventions on electrical components do not modify the surroundings in such a way that the level of protection is affected. This includes damage to cables, excessive number of connections, terminals not made to original specification, damage to seals, incorrect fitting of glands, etc.

Ensure that the appliance is mounted safely. Make sure that seals or sealing materials are not degraded to the point that they can no longer prevent the penetration of flammable atmospheres. Spare parts must be available. NOTE *The use of silicone-based sealant may affect the effectiveness of certain types of leak detection equipment. It is not necessary to isolate the intrinsic safety components before working on them.*

Repair of intrinsically safe components :

Do not apply permanent inductive or capacitive charges to the circuit without ensuring that they do not exceed the voltage and current allowed for the equipment used. Intrinsically safe components are the only types of components that can be worked on under live voltage in the presence of a flammable atmosphere. The testing apparatus must be of a suitable size.

Only replace components with parts specified by the manufacturer. Other parts could cause the refrigerant to ignite in the atmosphere as a result of 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 must also take into account the effects of ageing or continuous vibrations from sources such as compressors or fans.

Detection of flammable refrigerants:
Under no circumstances must potential sources of ignition be used in the search for or detection of refrigerant leaks. A halide torch (or any other detector using a naked flame) must not be used.

Leak detection methods:
The following leak detection methods are considered acceptable for systems containing flammable refrigerants.
Electronic leak detectors must be used to detect flammable refrigerants, although their sensitivity may be insufficient, or they may require re-calibration (the detection equipment must be calibrated in a zone free of refrigerant). (Make sure the detector is not a potential source of ignition and that it is suitable for the refrigerant used). The leak detection equipment must be set to a percentage of the refrigerant's LFL, and must be calibrated according to the refrigerant used, and the appropriate percentage of gas (maximum 25%) must be confirmed.
Leak detection fluids are suitable for use with most refrigerants, although the use of detergents containing chlorine must be avoided as the chlorine may react with the refrigerant and corrode the copper pipework.
If a leak is suspected, all open flames must be removed/extinguished.
If a leakage of refrigerant is noted requiring brazing, all of the refrigerants must be recovered from the system, or isolated (by means of shut-off valves) in a part of the system remote from the leak. Oxygen free nitrogen (OFN) must then be purged through the system both before and during the brazing process.

Removal and evacuation:
When entering the refrigerant circuit to carry out repairs - or for any other reason - conventional procedures must be used. However, it is important that best practice is followed since flammability must be taken into account.
The following procedure should be applied:

- eliminate the refrigerant.
- purge the circuit with inert gas.
- evacuate.
- purge again with inert gas.
- open the circuit by cutting or brazing it.

The refrigerant content must be recovered in the appropriate recovery bottles. The system must be “flushed” with OFN to render the unit safe. This process may need to be repeated several times.
Compressed air or oxygen must not be used for this task.
Flushing must be carried out by breaking the vacuum in the system with OFN and continuing to fill until the working pressure is achieved, then venting to the atmosphere, and finally restoring the vacuum. This process must be repeated until there is no more refrigerant in the system. When the last OFN load is used, the system must be purged to atmospheric pressure to allow work. This operation is absolutely vital if brazing operations on the pipework have to take place. Ensure that the vacuum pump outlet is not close to an ignition source and that ventilation is available.

Charging procedures:
In addition to conventional charging procedures, the following requirements must be observed.

- Make sure that there is no contamination of the different refrigerants when using the charging equipment. Pipes or ducts must be as short as possible to minimize the amount of refrigerant contained in them.
- The bottles must be kept upright.
- Make sure that the refrigeration system is earthed before charging the system with refrigerant.
- Label the system when charging is complete (if not done already).
- Be very careful not to overfill the refrigeration system.

Before recharging the system, it must be subjected to a pressure test with OFN. The system must be leak tested at the end of charging, but before commissioning. A follow-up leak test must be carried out prior to leaving the site.

Decommissioning:

Before carrying out this procedure, it is essential that the technician is fully aware of the equipment and all of its details. It is recommended to ensure that all refrigerants are recovered safely. Before carrying out the task, a sample of oil and refrigerant must be taken in case an analysis is necessary before the reuse of the recovered refrigerant. It is essential that electrical power is available before the task is commenced.

a) Familiarize yourself with the equipment and how it works.
b) Isolate the system electrically.
c) Before starting the procedure, make sure that:

- mechanical handling equipment is available, if necessary, to handle the refrigerant bottles.
- all personal protective equipment is available and being used correctly.
- the recovery process is supervised at all times by a qualified person.
- the recovery equipment and bottles comply with the appropriate standards.

d) Pump out the refrigeration system, if possible.
e) If it is not possible to make a vacuum, a manifold must be made so that the refrigerant can be removed from the various parts of the system.
f) Make sure the cylinder is located on the scale before recovery takes place.
g) Start the recovery machine and use it according to the manufacturer's instructions.
h) Do not overfill the bottles. (Not more than 80% of the volume of the liquid charge).
i) Do not exceed the bottle's maximum working pressure, even temporarily.
j) When the bottles have been filled correctly and the process completed, make sure that the bottles and the equipment are removed from site promptly and all isolation valves on the equipment are closed off.
k) The recovered refrigerant must not be loaded into another refrigeration system if it has not been cleaned and checked.

Recovery:

When disposing of refrigerant from a system, whether for maintenance or decommissioning purposes, it is recommended to ensure that all refrigerants are disposed of safely.

When transferring the refrigerant into the bottles, be sure to use only appropriate refrigerant recovery bottles. Ensure that there are enough bottles to contain the total contents of the system. All the bottles to be used should be designated for the recovered refrigerant and labelled for this fluid (i.e. special bottles for the recovery of the refrigerant). The bottles must be equipped with a pressure relief valve and the necessary accessories, with shut-off valves in good working order. The recovery bottles must be evacuated and, if possible, cooled before recovery
occurs.

The recovery equipment must be in good working order, accompanied by a set of instructions concerning the available equipment, and must be suitable for the recovery of flammable refrigerants. In addition, a set of calibrated weighing scales must be available and in good working order. The pipes must be complete, equipped with sealed connections and in good condition. Before using the recovery machine, check that it is in satisfactory working order and has been properly maintained, and that any associated electrical components are sealed to prevent ignition in the event of a refrigerant release. If in doubt, please consult the manufacturer.

The recovered refrigerant must be returned to the refrigerant supplier in the correct recovery cylinder, and the relevant waste transfer note must be prepared. Do not mix refrigerants in recovery units, and especially not in bottles. If compressors or compressor oils are to be removed, ensure that they have been evacuated to an acceptable level to ensure that no flammable refrigerant remains in the lubricant. The evacuation process must be carried out prior to returning the compressor to the suppliers. Only the electrical heater of the compressor body can be used to accelerate this process.

When oil is drained from a system, this operation must be carried out safely.

1.1 INTRODUCTION

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

After removing the packaging, check that all the contents are intact and complete. (See the list of accessories). In case of missing parts, please contact your dealer.

This air conditioner has been designed to cool or heat the air of a room and should only be used for this purpose.

The manufacturer cannot be held liable for material damage or injury to people or animals due to incorrect installation, regulation and maintenance or inappropriate use.

This air conditioner contains R32 refrigerant: at the end of its life, the disposal of this air conditioner must be carried out in an environmentally friendly manner. The air conditioner must comply with the strict regulations governing the recycling of this product, please use caution when disposing of it. Contact your local council for advice on the regulations.

Do not turn on the air conditioner until it has been fully assembled and installed in its correct operating position.
Before turning on the appliance, check that it is correctly earthed, in accordance with the legislation in force in the country concerned.

1.2 IMPORTANT SAFETY INSTRUCTIONS



When using electrical appliances, it is always necessary to observe the basic safety measures:
Do not place objects on the appliance and do not allow objects to obstruct the inlet and outlet openings.
Extreme caution must be exercised when the appliance is used by or near children or pets, and when it is left operating unattended.

Note:
Before using the product, take the air conditioner out of its packaging and check that it is in good condition.
Do not let children play with the packaging, for example the plastic bags.
Do not use a product with a damaged cord or plug, or if the air conditioner malfunctions, has been dropped, or has been damaged in any way.
Return the air conditioner to an authorized service center for examination and repair to avoid any risk.

Do not try to repair or adjust the electrical or mechanical functions of this air conditioner, otherwise the warranty will be null and void.

The appliance must always be powered by a power source whose voltage, frequency and ratio are identical to those indicated on the appliance's identification plate.
This air conditioner is not intended for use in damp or wet locations.

Do not place the air conditioner near an open flame, a cooking or heating appliance, or a hot surface.
Do not let the cord hang over the edge of a table or counter. Place the power cord away from an area where it could be tripped over.
Never place the power cord under a carpet or rug. Do not operate the air conditioner in places where petrol, paint or other flammable liquids are used or stored.
Do not carry out any cleaning or maintenance and do not access the internal parts until the air conditioner has been disconnected from the electricity network.
Do not modify the safety or control devices without the authorization and instructions of the manufacturer of the air conditioner.
Do not pull, remove or twist the electric cable connected to the air conditioner, even if it is disconnected from the electricity network. Avoid prolonged direct contact with the air flow of the air conditioner and make sure that the room is not closed without ventilation for a long time.
Any repair or maintenance work must be carried out by a maintenance technician or by qualified technicians, in accordance with the instructions given in this booklet. Do not modify the appliance as this may be dangerous, and the appliance manufacturer will not be liable for any damage or injury caused.

This instruction booklet is an integral part of the appliance, and this must therefore be kept with care and accompany the appliance in case of transfer to another owner or user or to another installer.

If the booklet is damaged or lost, please request another one.

1.3 RECEIVING THE GOODS

The air conditioner is delivered in a 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.

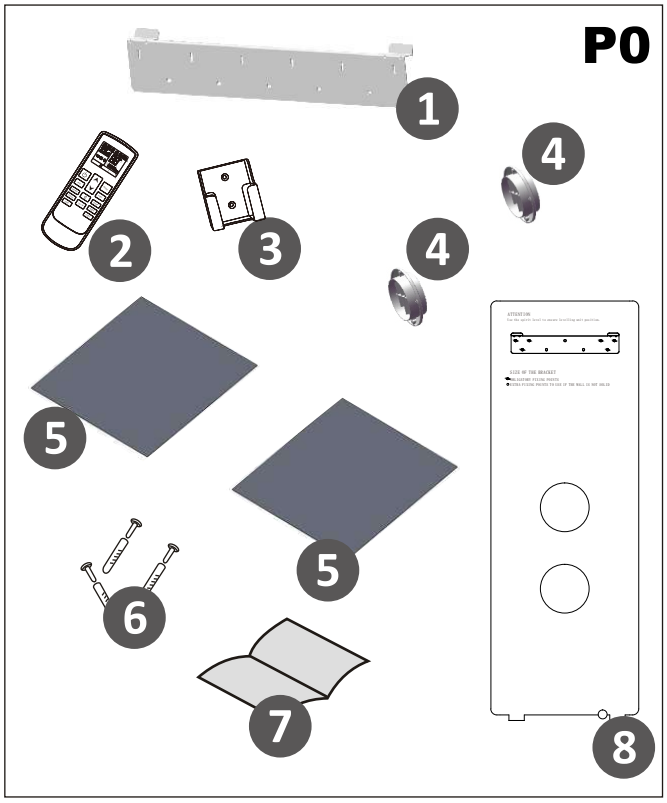
1.4 HANDLING

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 in 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(P0)

1. FASTENING BRACKET
2. REMOTE CONTROL
3. REMOTE CONTROL HOLDER
4. EXTERNAL GRATING
5. PLASTIC SHEET AIR PIPE
6. KIT OF SCREWS
7. INSTRUCTION MANUAL
8. PAPER TEMPLATE FOR WALL DRILLING (See page)

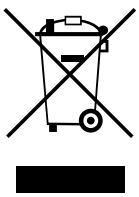
This product can be connected only to a supply with system impedance no more than 0.193 ohm. In case necessary , please consult your supply authority for system impedance information.



This product has been manufactured to comply with 2006/95/EC and with amendments 92/31/EE and 93/68/EEC

CE

Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with your Local Authority or retailer for recycling advice.



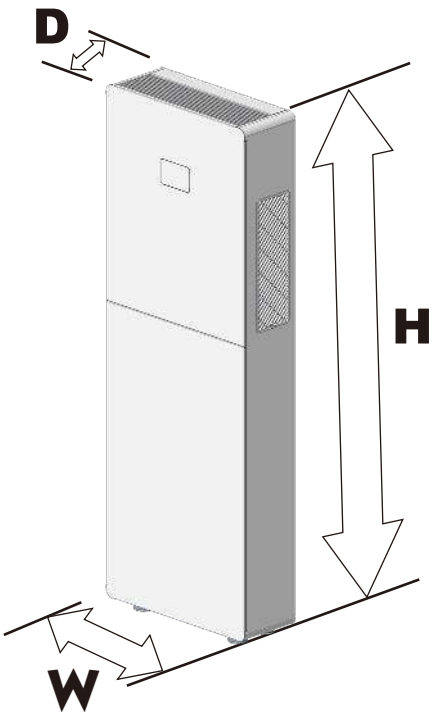
Any batteries used in the remote control contain materials, which are hazardous to the environment. They must be removed from the remote control when they reach the end of their life and disposed of responsibly.

1.6 TECHNICAL FEATURES (P1,P2)

Model	TOWER30.MB
Cooling capacity* (W)	2800
Heating capacity* (W)	2640
Electrical Heat* (W)	2000
Rated voltage (V/Hz)	230/50
Rated power for cooling* (W)	860
Rated current for cooling* (A)	3.8
Rated power for heating* (W)	665
Rated current for heating* (A)	3.1
Rated current for electrical heater* (A)	8.6
Air flow (m^3)	425
Optional temperature (remote control)	18-30^{0}F
Refrigerant type and charge(g)	R32/460
Global warmer potential (GWP)	675
Dimensions H/W/D (mm)	1400/491/187
Weight (kg)	57

*The above datas could be change in order to improve the performances

P1



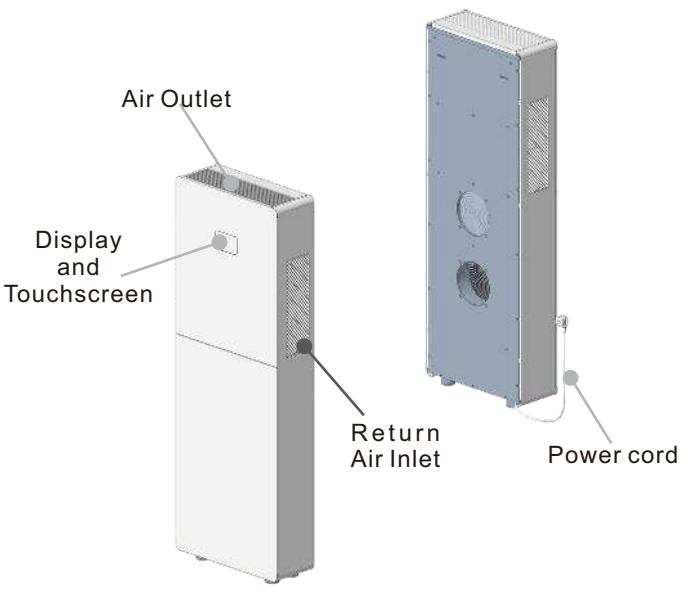
OPERATING CONDITIONS IN COOLING MODE

-Inside from 17^{0}C to 32^{0}C
-Outside from 17^{0}C to 43^{0}C

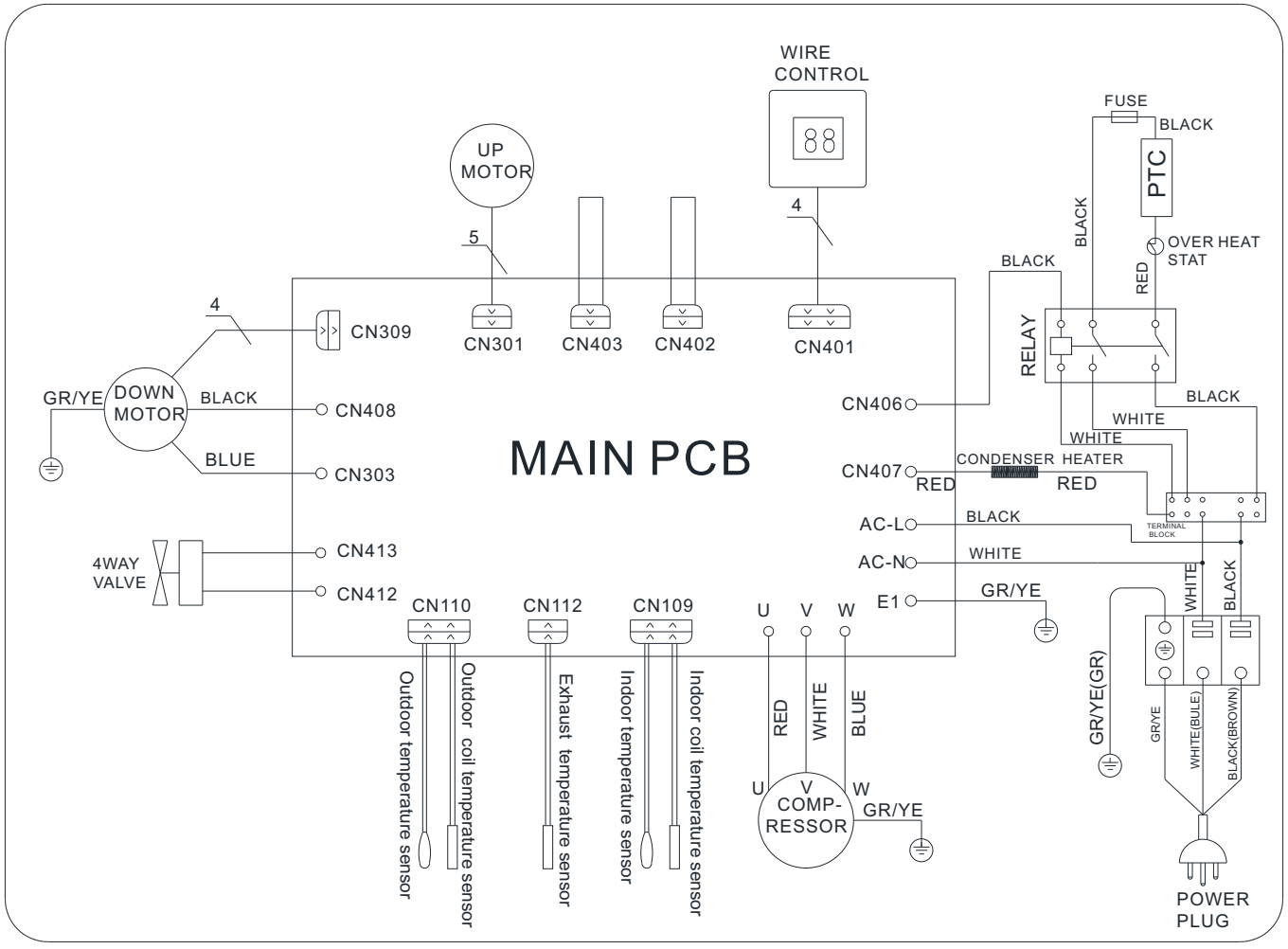
OPERATING CONDITIONS IN HEATING MODE

-Outside from -2^{0}C to 24^{0}C
-Inside from -2^{0}C to 27^{0}C

P2



1.7 WIRING DIAGRAM



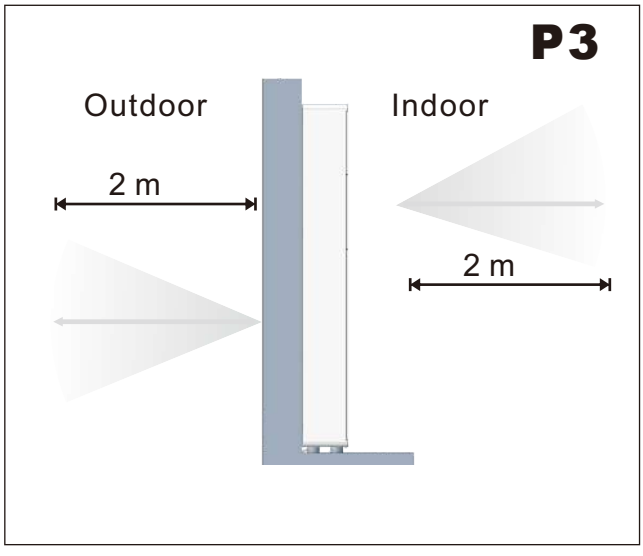
2. INSTALLATION

2.1 POSITIONING THE AIR CONDITIONER (P3)

To maintain the best performance from your air conditioner, prevent breakdowns or hazards, you must position it correctly. Please follow the guidelines and instruction 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 out side with a minimum of 2 meters clearance to the outside. The minimum CLEARANCE from the appliance to combustible surfaces should be 2 meters.
- The air conditioner must be fitted leaving room all around as illustrated in the paper template
- 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 place 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 installations (beams, piers, 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 panelling, drain pipes, overflows and gratings, etc.). Any obstruction could interfere with the correct performances of the air conditioner.



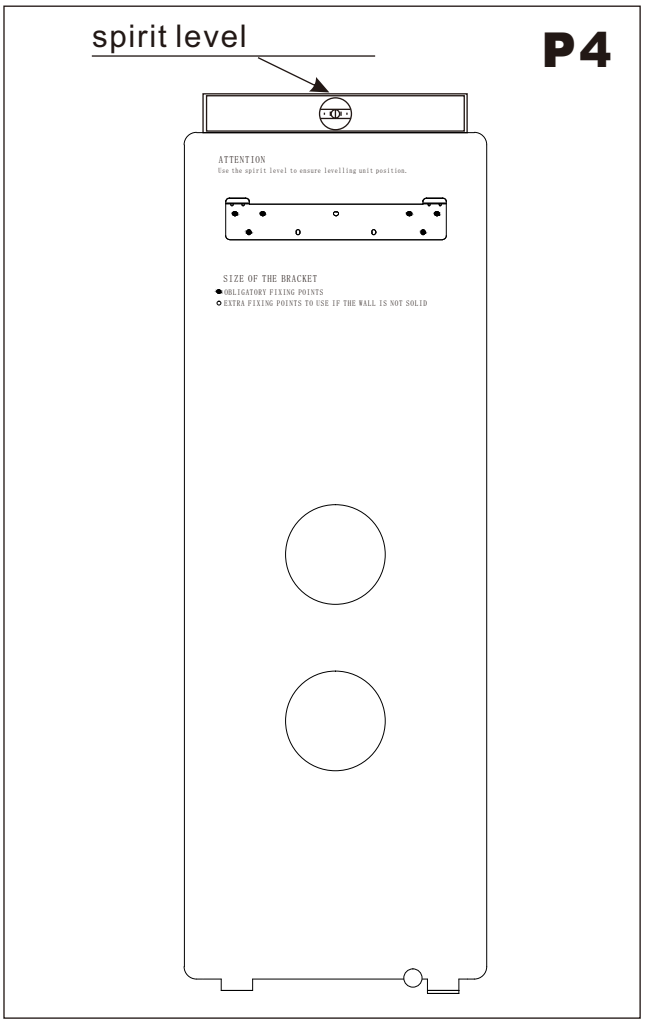
2.2 PAPER TEMPLATE (P4)

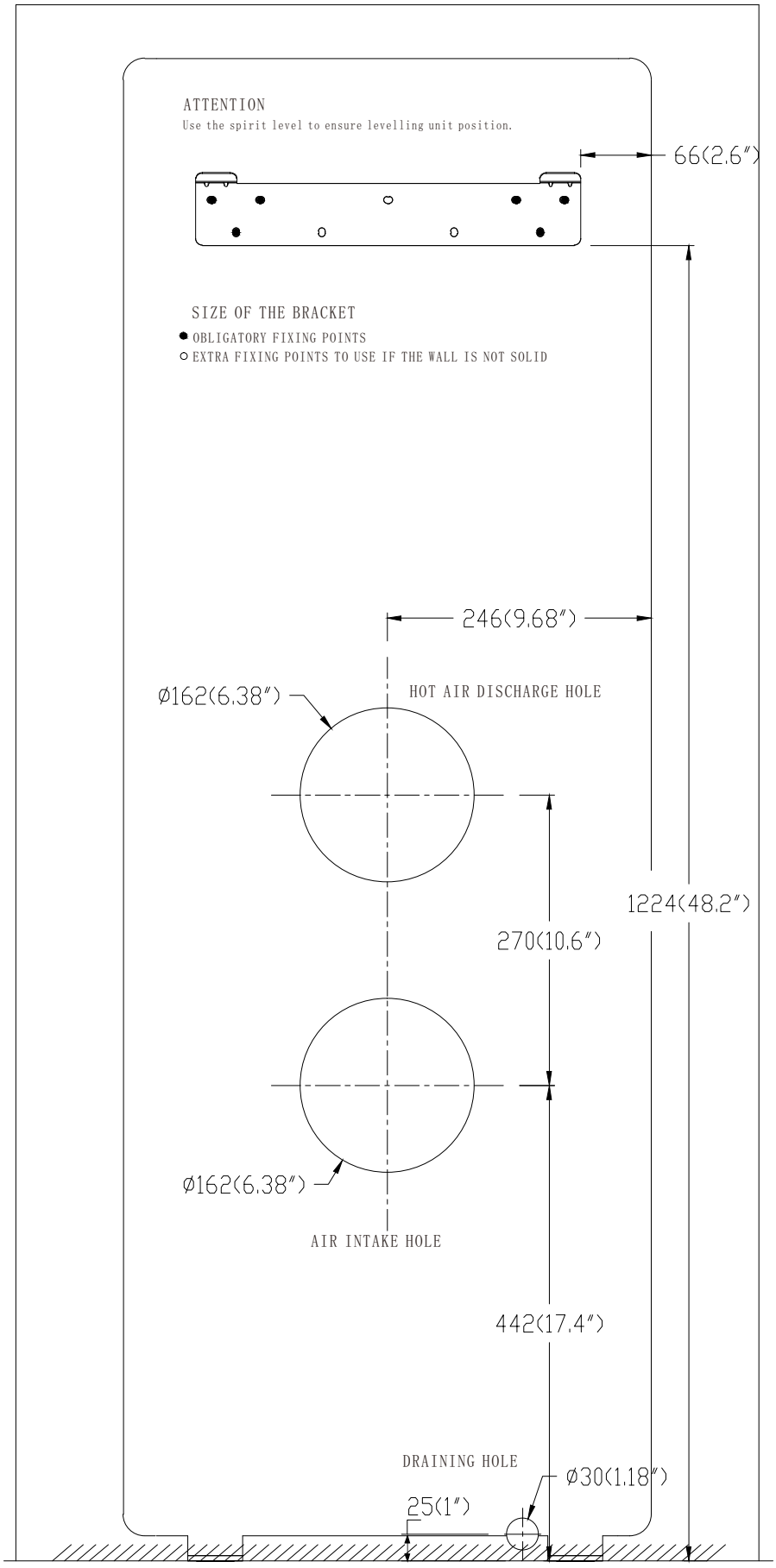
Fasten the template to the wall once the following guidelines have been thoroughly checked.

- 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 & gas pipes or supporting lintels or beams.

- Ensure that a spirit level is used, as the air conditioner must be level.

- Follow the installation instructions in full.




ATTENTION
Use the spirit level to ensure levelling unit position.
66(2.6″)
SIZE OF THE BRACKET
OBLIGATORY FIXING POINTS
EXTRA FIXING POINTS TO USE IF THE WALL IS NOT SOLID
246(9.68″)
Ø162(6.38″)
HOT AIR DISCHARGE HOLE
1224(48.2″)
270(10.6″)
Ø162(6.38″)
AIR INTAKE HOLE
442(17.4″)
DRAINING HOLE
Ø30(1.18″)
25(1″)

2.3 DRILLING THE WALL (P5)

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 drilling has been completed.

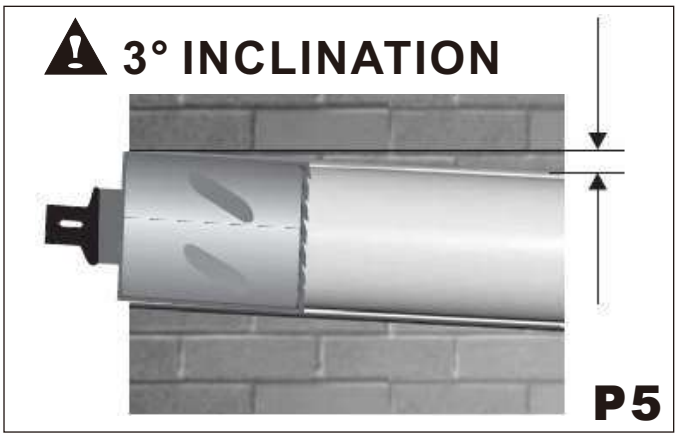
INTAKE AND OUTLET HOLES

- 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 and or ceiling and keep it horizontal by using a spirit level.
- Use a pilot drill to mark the centre of each core hole to be drilled,

Use a core boring head having a diameter of 162mm to drill the two holes for intake and outlet the air.

It is recommended that the holes must have a slightly downward inclination of 3-5 degrees to prevent any backflow of water from the pipes.

Warning: The wall hole must be properly sealed and waterproofed to prevent water from seeping into the room.



Indoor **Outdoor**

DRAINAGE HOLE (P6)

This air conditioner has a double system to drain the condensate moisture automatically. Before install the Air Conditioner choose which is the suitable system for your installation. Please read carefully the follow instructions:

Drill a hole through the wall measuring 30mm in diameter in the position shown in the paper template. Drainage occurs by gravity.

For this reason, it is essential for the drain line to have a minimum downward inclination at least 3 degrees through out its length.



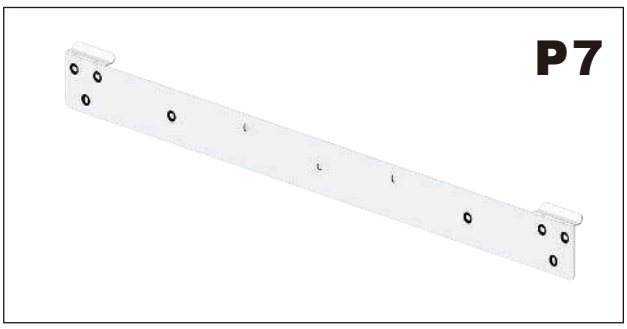
*It is also optional to choose to use indoor drainage, and connect the condensate pipe to the drainage system of the building.

2.4 FASTENING THE BRACKET (P7)

- Drill the holes for anchoring the fastening bracket to the wall using preferably the 8 holes showed in black on the paper template.

If the wall is not sturdy enough it is advisable to use extra anchor bolts using the holes showed in grey on the paper template.

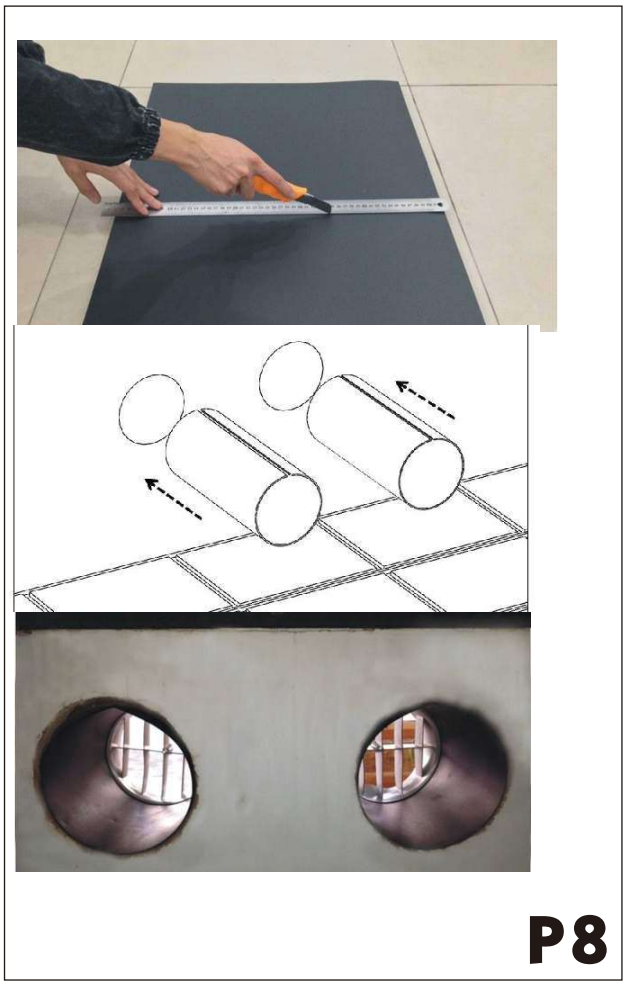
- The anchor bolts provided require a 7.87mm holes; the wall should be inspected to determine if provided bolts are useful or if it is necessary to use a different anchorage. The manufacturer is not liable in case of underestimation of the structural consistency of the anchorage made at the time of installation.



2.5 INSTALLATION OF THE PIPES (P8)

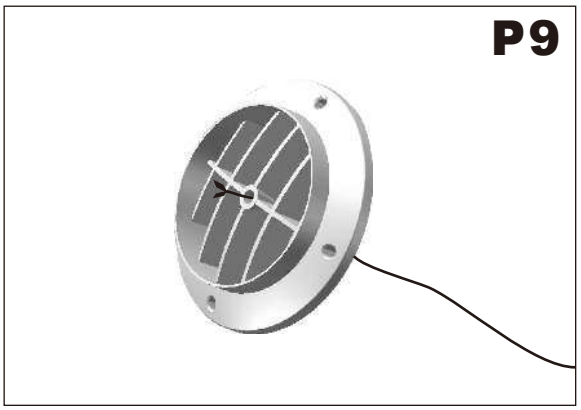
- After drilling the holes, the plastic pipes supplied with the air conditioner need to be fitted through them.
- Measure the depth of the wall and cut supplied plastic sheet.
- Roll the sheet and insert it into the hole, paying attention to the joint line, which must be always upper position. Remember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

Warning: Waterproof protection must be applied to the exterior wall in advance to prevent outdoor water from entering the indoor space!



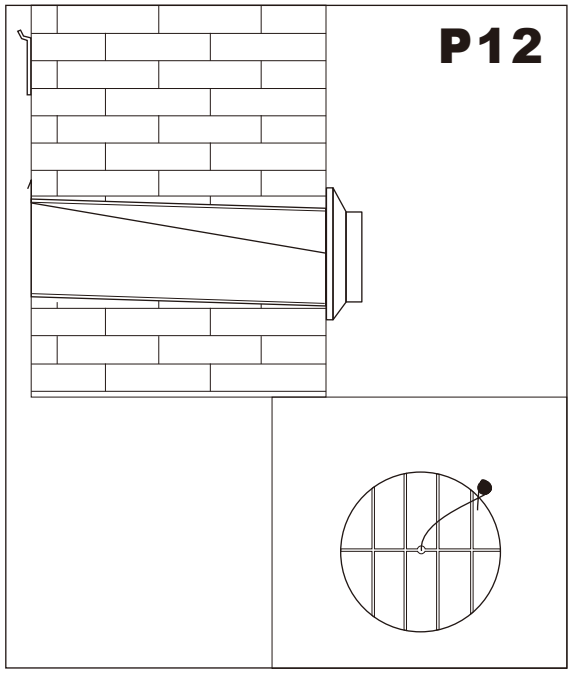
2.6 FITTING THE GRATINGS(P9, P10,P11,P12)

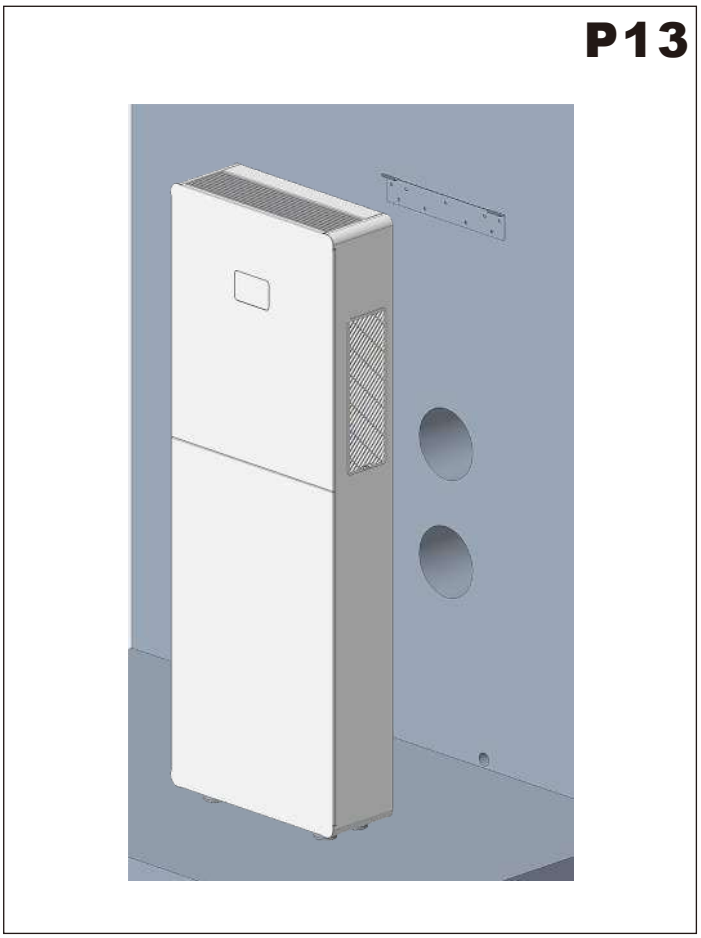
To fit the external two gratings please proceed as follows: familiarise yourself with the fitting of the grating to the tube, before installation. Insert the cords through the centre of the grating. One grating fits on the outside of the tube and the other fits inside. The air discharge is the bigger hole and the grating therefore fits on the outside of the air discharge tube.
Insert the supplied cord into the hole. 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. One grating fits on the outside of the tube and the other fits inside. With a little patience and manipulation the 2 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 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 6 mm. Tighten the cord and fasten it to the dent on the internal flanges.











2.7 FITTING THE AIR CONDITIONER ON BRACKET (P13).

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 it needs) 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 must fit firmly against the wall and there are no fissures at the back of the air conditioner and that the two plastic semicircle on the back side of the air conditioner are placed inside of the two plastic hoses fixed inside the wall.

The appliance shall not be installed the laundry.

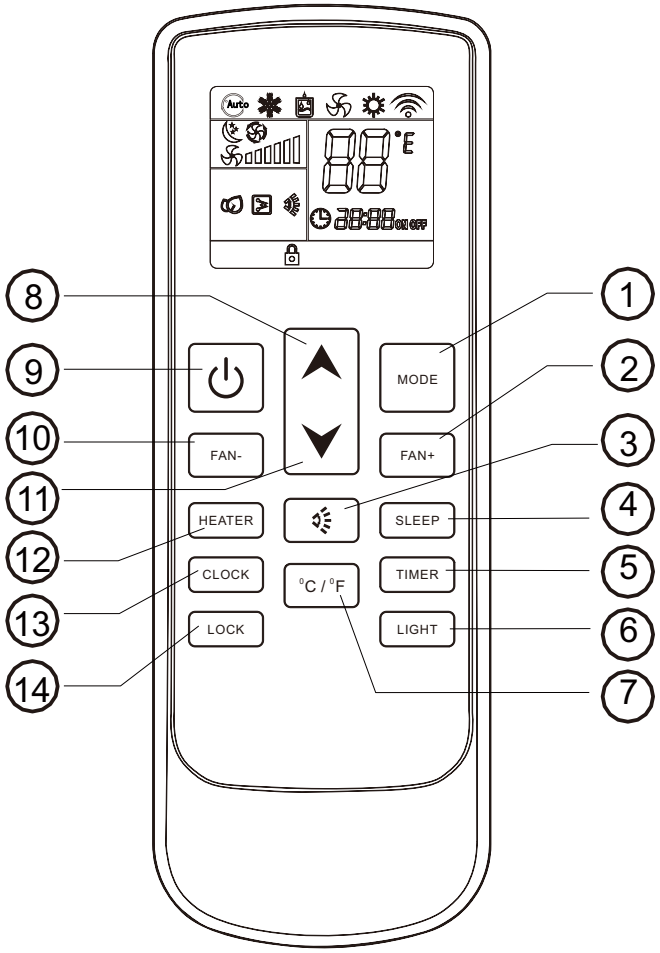
The appliance must be positioned so that the plug is accessible.

The appliance shall be installed in accordance with national wiring regulations.

3. USE AND MAINTENANCE

3.1 EXPLANATION OF LCD ICONS

Icons	Meaning	Icons	Meaning
Auto	Auto		Airflow direction
	Cooling		Fan speed
	Dry		Sleep
	Fan		Auto fan
	Heating	88°E	Temp
	Light (optional only)	88:88	Clock
	Heater (optional only)	88:88 ON OFF	Timer
	Lock		



3.2 REMOTE CONTROL FUNCTIONS

1. MODE BUTTON: Set up the air conditioner operating mode

2. FAN SPEED BUTTON: Set up the fan speed

3. LOUVER SWING BUTTON: Adjust the airflow direction

4. SLEEP BUTTON: Automatically adjusting the setting temperature according the circadian rule.

5. TIMER BUTTON: Set up the time the air conditioner starts;
Set up the time the air conditioner stops.

6. LIGHT BUTTON(optional only): Switch on the light or UPI than the unit has this function

7. TEMP BUTTON: Set temperature unit to ^{0}C or ^{0}F

8. UP BUTTON: Increase the temperature and time

9. ON/OFF BUTTON: Turn on or turn off the air conditioner

10. FAN SPEED BUTTON: Set up the fan speed down

11. DOWN BUTTON: Decrease the temperature and time

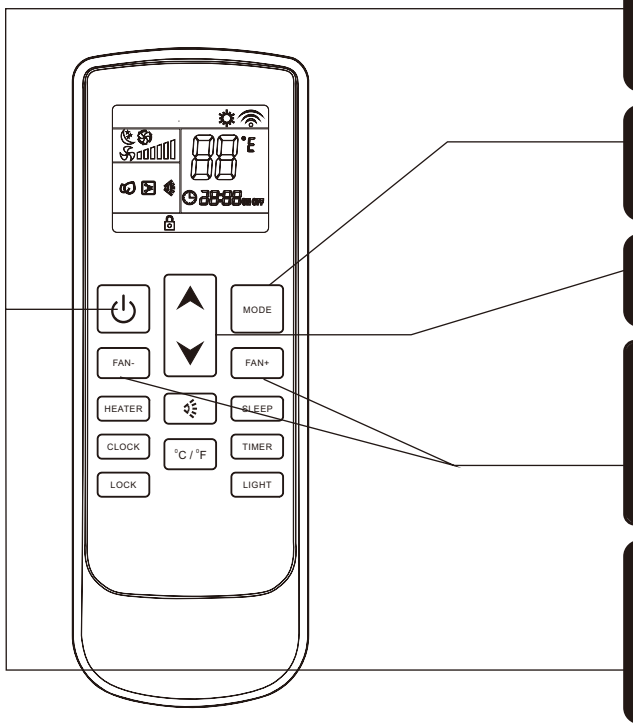
12. ELECTRICAL HEATER BUTTON(optional only): Turns on the integrated electric heat to boost heating performances.

13. CLOCK BUTTON: Adjust the clock

14. LOCK BUTTON: Lock the remote control set

3.3 HEATING MODE

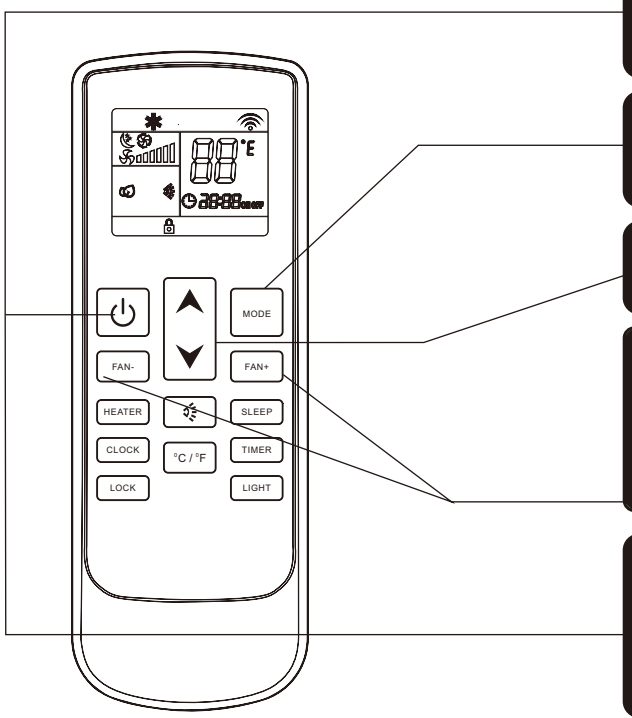
Sequence of the operations



1. Press the **ON/OFF** button " ⏻ ", switch on the air conditioner, it will run by memory mode.
2. Press the **MODE** button, set up the mode to heat " ☼ ", the air conditioner will run in heating.
3. Press **UP** " ⮝ " or **DOWN** " ⮟ " button , to adjust the setting up temperature.
4. Press the **FAN SPEED** button " **FAN+** " or " **FAN-** " , set up the fan speed, " ▯ " is low speed, " ▯▯ "is middle speed, " ▯▯▯ " is high speed, " ⟳ " is auto speed.
5. Press the **ON/OFF** button " ⏻ ", switch off the air conditioner.
   Next time when this button is pressed, the air conditioner will operates in this mode by memory.

3.4 COOLING MODE

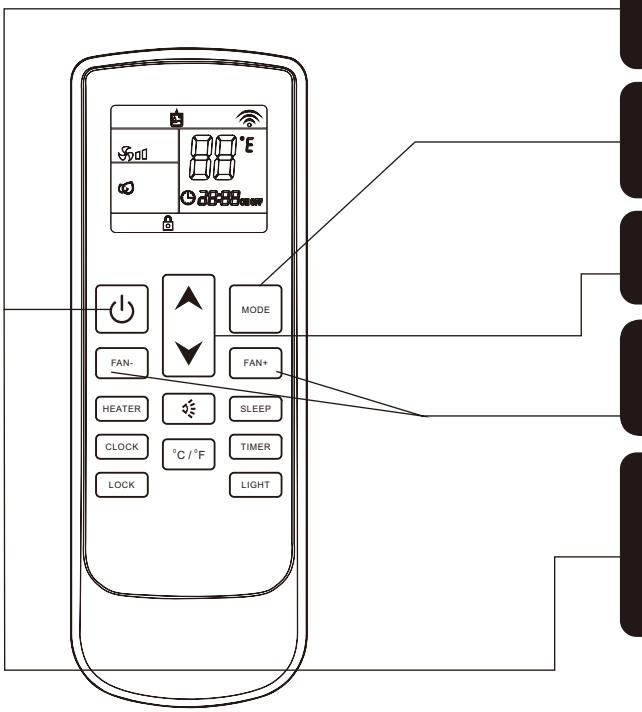
Sequence of the operations



1. Press the **ON/OFF** button " ⏻ ", switch on the air conditioner, it will run by memory mode.
2. Press the **MODE** button, set up the mode to cool " ❄ ", the air conditioner will run in cooling.
3. Press **UP** " ⮝ " or **DOWN** " ⮟ " button , to adjust the setting up temperature.
4. Press the **FAN SPEED** button " **FAN+** " or " **FAN-** " , set up the fan speed, " ▯ " is low speed, " ▯▯ "is middle speed, " ▯▯▯ " is high speed, " ⟳ " is auto speed.
5. Press the **ON/OFF** button " ⏻ ", switch off the air conditioner.
   Next time when this button is pressed, the air conditioner will operates in this mode by memory.

3.5 DRY MODE

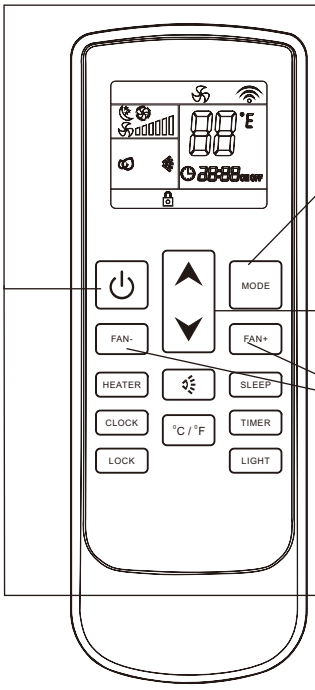
Sequence of the operations



1. Press the **ON/OFF** button " ⏻ ", switch on the air conditioner, it will run by memory mode.
2. Press the **MODE** button, set up the mode to dry " 💧 ", the air conditioner will run in dehumidifying.
3. Press **UP** " ⮝ " or **DOWN** " ⮟ " button , to adjust the setting up temperature.
4. **FAN SPEED** button " **FAN+** " or " **FAN-** " is disable, indoor fan speed always is low in dry mode.
5. Press the **ON/OFF** button " ⏻ ", switch off the air conditioner.
   Next time when this button is pressed, the air conditioner will operates in this mode by memory.

3.6 FAN MODE

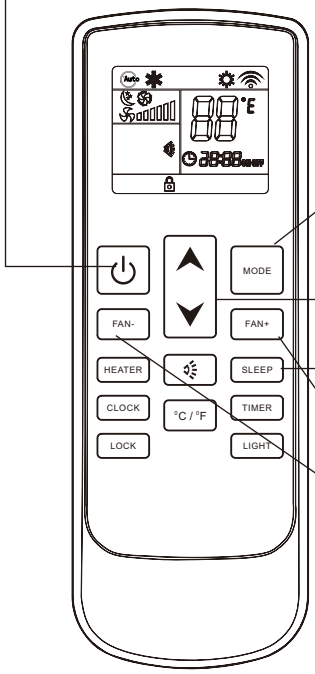
Sequence of the operations



1. Press the **ON/OFF** button " ⏻ ",switch on the air conditioner, it will run by memory mode.
2. Press the **MODE** button, set up the mode to fan " 🌀 ", the air conditioner will run in fan.
3. Press **UP** "⮝" or **DOWN** "⮟" button, to adjust the setting up temperature.
4. Press the **FAN SPEED** button" **FAN+** " or " **FAN-** " ,set up the fan speed, " 🌀 " is low speed, " 🌀 " is middle speed, " 🌀 " is high speed, " 🌀 " is auto speed.
5. Press the **ON/OFF** button " ⏻ ", switch off the air conditioner. Next time when this button is pressed, the air conditioner will operates in this mode by memory.

3.7 SLEEP MODE

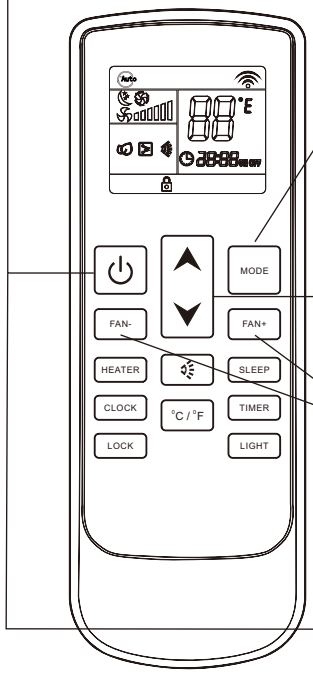
Sequence of the operations



1. Press the **ON/OFF** button " ⏻ ", switch on the air conditioner, it will run by memory mode.
2. Press the **MODE** button, set up the mode to cool " ❄ " / heat " ☼ "(heat pump) / auto " Auto ", the air conditioner will run in setting mode.
3. Press **UP** " ▲ " or **DOWN** " ▼ " button , to adjust the setting up temperature.
4. Press the **SLEEP** button , this icon will display on LCD, sleep function is set up; press it again, cancel the sleep function.
5. If the sleep function is launched, the fan speed is steady in low speed.

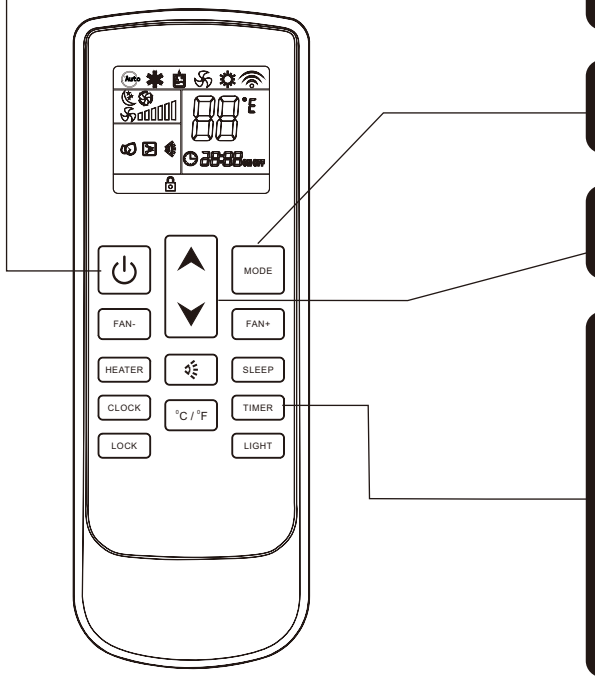
3.8 AUTO MODE

Sequence of the operations



1. Press the **ON/OFF** button " ⏻ ", switch on the air conditioner, it will run by memory mode.
2. Press the **MODE** button, set up the mode to auto " Auto ", the air conditioner will run in auto mode. (Reference to “emergency operation”)
3. According to the difference of room temperature and setting temperature automatically choose the running mode(cool, heat, fan). The temperature setting button UP “ ▲ ” and DOWN “ ▼ ” are disable.
4. Press the **FAN SPEED** button " **FAN+** " or " **FAN-**", set up the fan speed, " ▯ " is low speed, " ▯▯ " is middle speed, " ▯▯▯ " is high speed, " ⟳ " is auto speed.
5. Press the **ON/OFF** button " ⏻ ", switch off the air conditioner. Next time when this button is pressed, the air conditioner will operates in this mode by memory.

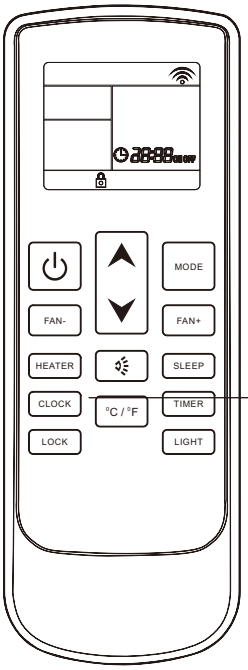
3.9 TIMER OFF FUNCTION



Sequence of the operations

1. Press the **ON/OFF** button " ⏻ ", switch on the air conditioner, it will run by memory mode.
2. Press the **MODE** button set up the mode to which you want.
3. Press **UP** " ▲ " or **DOWN** " ▼ " button, to adjust the setting up temperature.
4. Press the **TIME** button " TIMER " , set up the time air conditioner switch off. Press the button " ▲ "each time, adjusting up 1 hour; Press the button " ▼ " each time, adjusting up 10 minutes; press the timer button to confirm the data entered. When the time is over, the air conditioner will be switched off automatically. If press this button again before the air conditioner switch off, the timer off setting will cancelled.

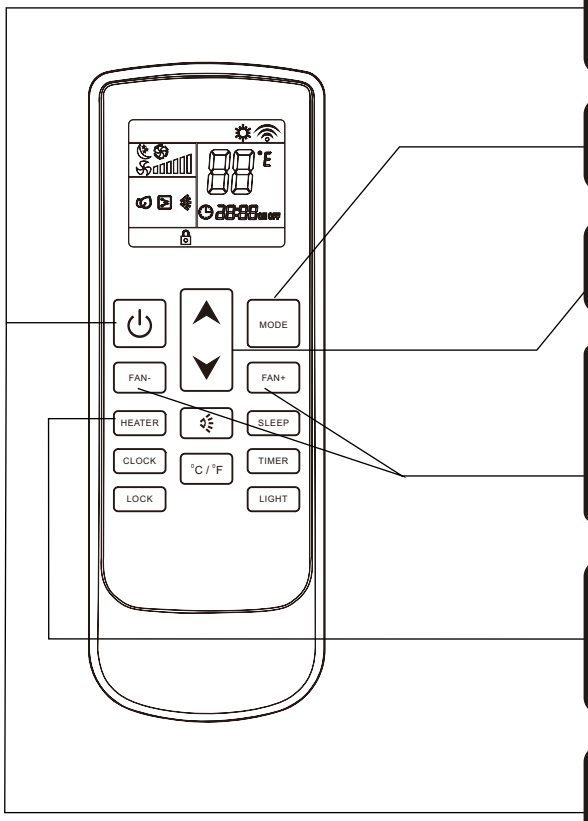
3.10 TIMER ON FUNCTION



Sequence of the operations

1. The air conditioner is switched off.
2. Press the **TIME** button " TIMER " , set up the time which the air conditioner switch on. Press the button " ▲ " each time, adjusting up 1 hour; Press the button " ▼ " each time , adjusting up 10 minutes. Set up the operation **MODE, TEMPERATURE, FAN SPEED** etc.,press the timer button to confirm the date entered. When the time is arrived, the air conditioner will start automatically. If the **TIMER ON** button is pressed again, the **TIMER ON** setting will be cancelled.

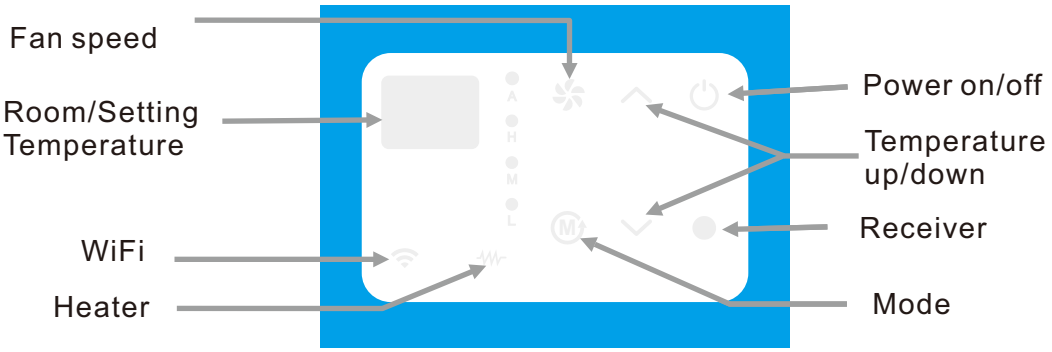
3.11 ELECTRICAL HEATER FUNCTION(optional only)



Sequence of the operations

1. Press the **ON/OFF** button " ⏻ ", switch on the air conditioner, it will run by memory mode.
2. Press the **MODE** button set up the mode to heat " ☼ ", the unit will run in heating.
3. Press **UP** " ▲ " or **DOWN** " ▼ " button, to adjust the setting up temperature.
4. Press the **FAN SPEED** button " **FAN+** " or " **FAN-** " , set up the fan speed, " 𝔽 " is low speed, " 𝔽 " is middle speed, " 𝔽 " is high speed, " 𝔽 " is auto speed.
5. Press the assistant **ELECTRICAL HEAT** button " HEATER ", the icon will display on the LCD, starting the assistant heat; press this button again, stop the assistant heat.
6. Press the **ON/OFF** button " ⏻ ", switch off the unit.
   Next time when this button is pressed, the unit will operates in this mode by memory.

3.12 OPERATION OF ALL IN ONE TOUCH PAD CONTROL



Power on/off: Press ⏻ button to turn on/off the system.

Fan speed: Press button to set fan speed(high, med, low or auto).

Wi-Fi: Press the button for 5s to enable Wi-Fi, the Wi-Fi light will blink, the Wi-Fi light becomes stable after Wi-Fi pairing is successful. If the Wi-Fi failed to pair, the Wi-Fi light will turn off.

Mode: Press the Ⓜ button to set the type of operation. The display will show the MODE status by blinking for 5 seconds

Fan: Display shows **FA**

Cool: Display shows **Co**

Heat: Display shows **HE**

Auto: Display shows **AU**

Dehumidification: Display shows **dE**

DOWN BUTTON: Decrease the temperature and time

UP BUTTON: Increase the temperature and time

ELECTRICAL HEAT BUTTON: Turn on or turn off the electrical heat

3.13 WiFi Connection and instruction for use

- Downloading of Smart APP



- Register the APP account and log in, add equipment and set WIFI network according to the prompts;

- WIFI Intelligent remote control

- Matching:
  Press the “Louver Swing” button of the remote control five times within 5s to enter the distribution network.
  For the first time, it is slow flash distribution network.
  Press the “Louver Swing” button five times within 5s to enter the fast flash.
  After the pairing is successful, press the “ Louver Swing” button five times within 5s to clear the WIFI pairing.

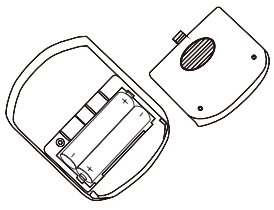
3.14 Install and change the battery

- Open the cover of battery, hold the hook and lightly pull up.

- Insert the battery(AAA,2pecs), the positive must be same with the mark on the plastic surface.

- Reinstall the cover of battery.

- Inspection: if press ON/OFF button “⏻”. no icons are displayed, please install the battery again.



3.15 MAINTENANCE(P14, P15,P16)

FILTERS CLEANING:
The filters should be regularly cleaned to keep the air conditioner running efficiently.
Clean the filters every two weeks.
How to proceed:
- Disconnect the air conditioner from the electrical supply.

- Extract the filter grating.(P14) on the same direction of the arrow.
  Take out the filter as shown P15&P16.
  Proceed to wash them (not use hot water) and only when they are dried replace them in the same way.

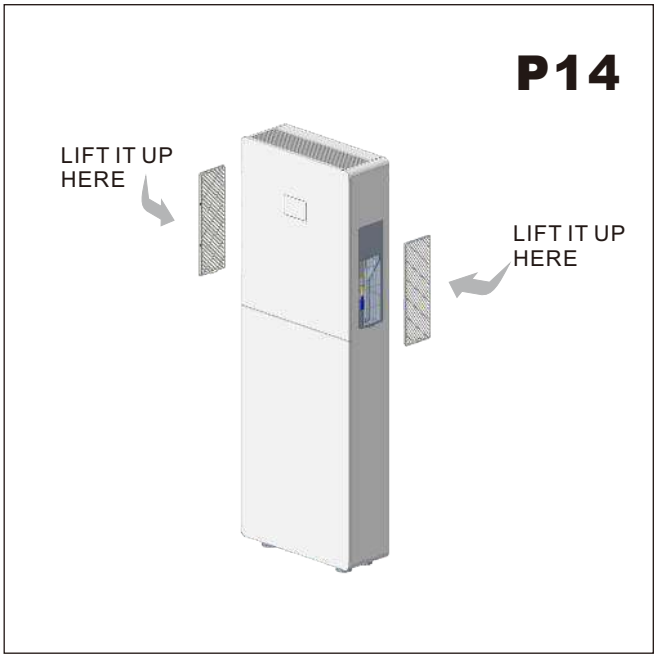
ATTENTION: Do not use the air conditioner without filters as it could seriously damage the air conditioner.

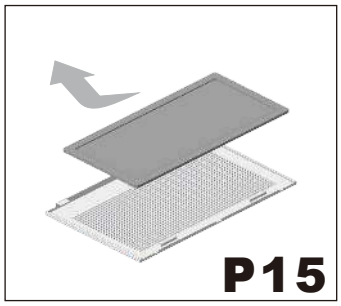
EXTERNAL CLEANING:
- Disconnect the air conditioner from the electrical supply.

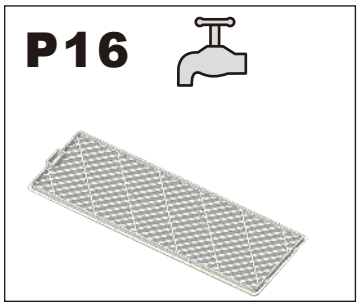
- Wipe external surfaces clean with a damp cloth only.

- Do not use an abrasive cloth and/ or solvents, as this may damage the surfaces.

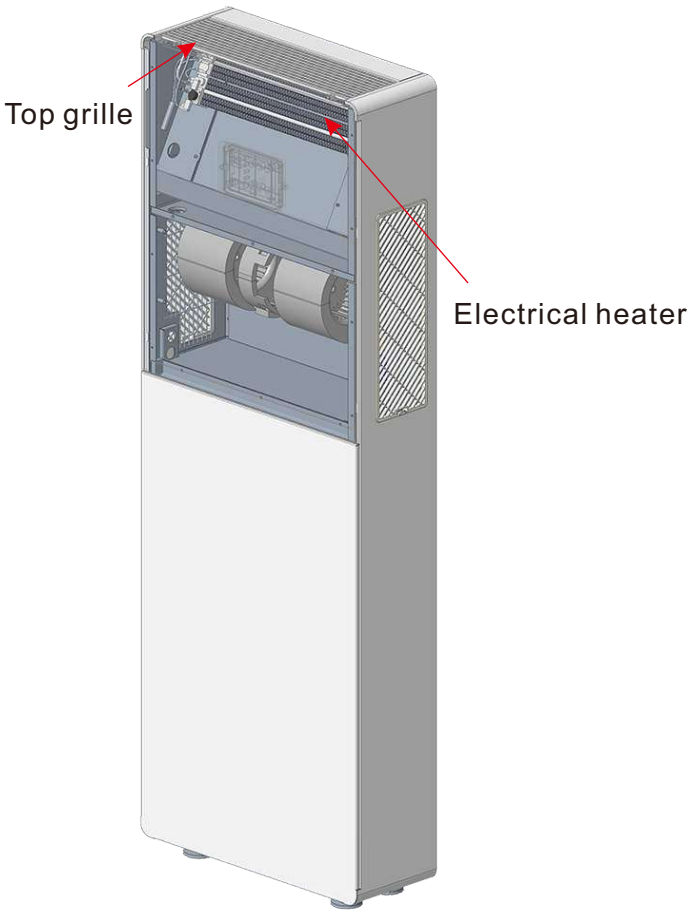
- Do not use excessively wet cloths or sponges, as water stagnation could damage the air conditioner and compromise safety.







POSITION OF ELECTRICAL HEATER



Electrical heater is positioned in the top of the machine, and it is protected by the top grille.

3.16 PROBLEM SOLVING

PROBLEM POSSIBLE CAUSES

- The air conditioner does not work.
- The air conditioner does not refrigerate the room
- Strange smell in the room. Water drips from the air conditioner.
- The remote control does not work.
- The air conditioner does not work for 3 minutes when switched on.

POSSIBLE SOLUTIONS

1. Wrong setting of the timer/ Check it.
2. Problems on the power supply/ Call the service center.
3. The filter could be dirty/ Clean it.
4. The room temperature is too high/ Wait until the temperature goes down,
5. The temperature is not properly set/ Check it.
6. The grids could be obstructed/ Check and remove the eventual obstacles.

- Dampness in the room, coming from walls, carpets, furnishing or similar
- Wrong installation of the air conditioner
- Wrong connection of the drainage pipe
- Exhausted batteries
- Wrong insertion of the batteries inside the remote control
- Protection of the air conditioner. Wait for 3 minutes and the air conditioner will start to work again.

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

The max operation temperature for the air conditioner (max cooling: outdoor 46°C/ WB 24° C, indoor DB 27°C/ WB 19°C; min heating: outdoor DB -8°C/ WB -9°C, indoor DB 21°C)

List of Error Codes

Codes displayed on monitor LED	Faults
A1	Indoor machine EE fault
A2	Indoor fan fault
A3	Water temperature sensor failure
A4	Indoor coil temperature sensor fault
A5	Indoor ambient temperature sensor fault
E5	Four -way valve commutation fault
E6	Fluorine deficiency fault
A8	Outdoor EE fault
b4	Compressor starting abnormal (phase failure, reverse)
b5	Compressor out-of-step fault
b6	IPM module fault
b8	Exhaust temperature sensor fault
C2	Outdoor coil temperature sensor fault
C3	Outdoor ambient temperature sensor fault
C4	Outdoor DC fan fault
FL	Water full protection shutdown
d1	Outdoor machine AC current protection shutdown
d2	Compressor phase current protection shutdowneverse)
d3	Outdoor machine AC voltage over-high/over-low protection
d4	DC busbar voltage over-high/over-low voltage protection
d5	IPM over-high temperature protection shutdown
d6	Exhaust temperature overheat protection shutdown
d7	Cooling indoor coil anti-freezing protection shutdown
d8	Cooling outdoor coil overheat protection shutdown
E1	Heating Indoor coil overheat protection shutdown
E2	Cooling outdoor ambient temperature over-low protection shutdown
E3	Heating outdoor ambient temperature over-high protection shutdown
C5	Driven busbar overvoltage protection
C6	Driven busbar undervoltage protection
C7	Driven phase current overcurrent fault
C8	Abnormal phase current sampling