SUPREME HEATING
POOL HEATING SINCE 1990

VPro-X

Inverter Pool Heat Pump

INSTALLATION, OPERATION & WARRANTY MANUAL

Summary

For Users

For Installers And Professionals

PLEASE READ IT CAREFULLY AND KEEP IT FOR SUBSEQUENT USE

This manual provides you necessary information for optimal use and maintenance This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

Original Instructions

1. This appliance is air source Swimming Pool Inverter Heat Pump and installed in outdoor side, which can be used to heat or cool the family swimming pool water.
2. GWP: R-290: 0.02
3. This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
4. Children should be supervised to ensure that they do not play with the appliance.
5. This appliance shall be installed in accordance with national wiring regulations.
6. This appliance can be used by children aged from 8 years and above and person with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance.
7. Cleaning and user maintenance shall not be made by children without supervision
8. Disconnect the appliance from its power source during service and when replacing parts.
9. Warning: before obtaining access to terminals, all supply circuits must be disconnected.
10. If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or a similarly qualified person in order to avoid a hazard.
11. An all-pole disconnection switch having a contact separation of at least 3mm in all poles should be connected in fixed wiring.
12. Disconnect the power supply before cleaning and maintenance.
13. The appliance shall not be installed in the laundry.

14.

Correct Disposal of this product

This marking indicates that this product should not be disposed with other household wastes throughout the EU. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. To return your used device, please use the return and collection systems or contact the retailer where the product was purchased. They can take this product for environmentally safe recycling.

15. maximum and minimum water or brine operating temperatures

(IEC 60335-2-40):40℃-0℃

16. maximum and minimum water or brine operating pressures

(IEC 60335-2-40):0.8MPa-0 MPa

	**WARNING:** flammable material.
	Read operator's manual.
	Operator's manual; operating instructions.
	Service indicator; read technical manual.

1. General (Annex CC)
   The following information is provided for units that employ flammable refrigerants.

2. Transport of equipment containing flammable refrigerants
   Attention is drawn to the fact that additional transportation regulations can exist with respect to equipment containing flammable gas. The maximum number of pieces of equipment or the configuration of the equipment permitted to be transported together will be determined by the applicable transport regulations.

3. Marking of equipment using signs
   Signs for similar appliances used in a work area are generally addressed by local regulations and give the minimum requirements for the provision of safety and/or health signs for a work location.
   All required signs are to be maintained and employers should ensure that employees receive suitable and sufficient instruction and training on the meaning of appropriate safety signs and the actions that need to be taken in connection with these signs.
   The effectiveness of signs should not be diminished by too many signs being placed together. Any pictograms used should be as simple as possible and contain only essential details.

4. Disposal of equipment using flammable refrigerants
   See national regulations.

5. Storage of equipment/appliances
   The storage of the appliance should be in accordance with the applicable regulations or instructions, whichever is more stringent.

6. Storage of packed (unsold) equipment
   Storage package protection should be constructed in such a way that mechanical damage to the equipment inside the package will not cause a leak of the refrigerant charge.
   The maximum number of pieces of equipment permitted to be stored together will be determined by local regulations.

7. Symbols (Annex DD)

   The symbols referred to in 7.6 (without colours is permitted) and the information of the warning marking shall be provided as follows:

WARNING 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 or burn. Be aware that refrigerants might not contain an odour.

   The manufacturer may provide other suitable examples or may provide additional information about the refrigerant odour.

8. Qualification of workers
   Every working procedure that affects
   safety means shall only be carried out by competent persons.

9. Checks to the working area
   Prior to beginning work on systems containing flammable refrigerants, safety check are necessary to ensure that the risk of ignition is minimized. For repair to the refrigerant system, 10 to 14 shall be completed prior to conducting work on the system.

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

11. 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 the confined spaces shall be avoided.

12. 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 flammable atmosphere. Ensure that the leak detection equipment being used is suitable for flammable refrigerants, i.e. non sparking, adequately sealed or intrinsically safe.

13. Presence of extinguisher
    If any hot work is to be conducted on the refrigeration equipment or associated parts, appropriate fire extinguishing equipment shall be available in hand. Have a dry powder or CO_2 fire extinguisher adjacent to the charging area.

14. No ignition sources
    No person carrying out work in relation to a refrigerant system which involves exposing any pipe work that contained flammable refrigerant 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, shall be kept sufficiently far away from the site of installation, repairing, removing and disposal, during which flammable refrigerant can possibly be released to the surrounding space. Prior to working site, the area around equipment is to be surveyed to make sure that there are flammable hazards to ignition risks. “No Smoking” warning signs shall be displayed.

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

16. Checks to the refrigeration equipment
    Where electrical components are being changed, they shall be fit for the purpose and to the correct specification. At all times the manufacturer’s maintenance and service guidelines shall be followed. If in doubt, consult the manufacturer’s technical department for assistance.

    The following checkpoints shall be applied to installations using flammable refrigerants:
    – 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.

17. Checks to the electrical devices
    Repair and maintenance to the electrical components shall include initial safety checks and component inspection procedures. If a fault exists that could compromise safety, then no electrical supply should 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 applied. This shall be reported to the owner of the equipment so all parties are advised.
    Initial safety checks shall include:
    –that capacitors are discharged that shall be done in a safe manner to avoid possibility of sparking;
    –that there are no live electrical components and wiring are exposed while charging.

Recovering or purging the system:
–that there is continuously of earth bonding.

18. Sealed electrical components
Sealed electrical components shall not be repaired.

19. 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.

20. 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 can be inadequate, or can 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 can react with the refrigerant and corrode the copper pipe-work.

NOTE Examples of leak detection methods are
– bubble method,
– fluorescent agent method.

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 Clause 21.

21. Refrigerant removal and circuit 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:
– safely remove refrigerant following local and national regulations;
– evacuate;
– purge the circuit with inert gas (optional for A2L);
– evacuate (optional for A2L);
– continuously flush with inert gas when using flame to open circuit;
– open the circuit.

The refrigerant charge shall be recovered into the correct recovery cylinders.
The manufacturer shall specify the inert gases that can be used. Compressed air or oxygen shall not be used for purging refrigerant systems.
NOTE An example of an inert gas is dry nitrogen.
Purging of the refrigerant circuit shall be achieved by breaking the vacuum in the system with inert gas 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. The system shall be vented down to atmospheric pressure to enable work to take place.
Ensure that the outlet of the vacuum pump is not close to any potential ignition sources and that ventilation is available.

22. 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 upright.
– Ensure that the refrigerating system is earthed prior to charging the system with refrigerant.
– Label the system when charging is completed (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.

23.Decommissioning
Before carrying out this procedure, it is essential that the technician is completely familiar with the equipment and all its detail. It is recommended good practice that all refrigerants are recovered safely. Prior to the task being carried out, an oil and refrigerant sample shall be taken in case analysis is required prior to re-use of recovered refrigerant. It is essential that electrical power is available before the task is commenced.
1) Become familiar with the equipment and its operation.
2) Isolate system electrically.
3) Before attempting the procedure, ensure that:
a. mechanical handling equipment is available, if required, for handling refrigerant cylinders;

b. all personal protective equipment is available and being used correctly;
c. the recovery process is supervised at all times by a competent person;
d. recovery equipment and cylinders conform to the appropriate standards.
4) Pump down refrigerant system, if possible.
5) If a vacuum is not possible, make a manifold so that refrigerant can be removed from various parts of the system.
6) Make sure that the cylinder is situated on the scales before recovery takes place.
7) Start the recovery machine and operate in accordance with instructions.
8) Do not overfill cylinders (no more than 80 % volume liquid charge).
9) Do not exceed the maximum working pressure of the cylinder, even temporarily.
10) When the cylinders have been filled correctly and the process completed, make sure that the cylinders and the equipment are removed from site promptly and all isolation valves on the equipment are closed off.
11) Recovered refrigerant shall not be charged into another refrigerating system unless it has been cleaned and checked.

24. Labelling

Equipment shall be labelled 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.

25. Recovery

When removing refrigerant from a system, either for servicing or decommissioning, it is required to follow good practice so 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 labelled 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 the flammable refrigerant.
Consult manufacturer if in doubt. 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.
The recovered refrigerant shall be processed according to local legislation 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 compressor body shall not be heated by an open flame or other ignition sources to accelerate this process. Draining of oil from

a system shall be carried out safely.

The disconnection incorporated in the fixed wiring shall be in accordance with relevant national electrical wiring regulations.
1)Electrical installations shall be provided with devices to prevent or remove hazards associated with the electrical installation and for maintenance of electrically activated equipment.
2)Electrical installations shall include all switching devices or other means of disconnection necessary to enable operations, repairs and maintenance work to be carried out with safety.

WARNING:
please note that this heat pump uses environmental friendly R-290 refrigerant

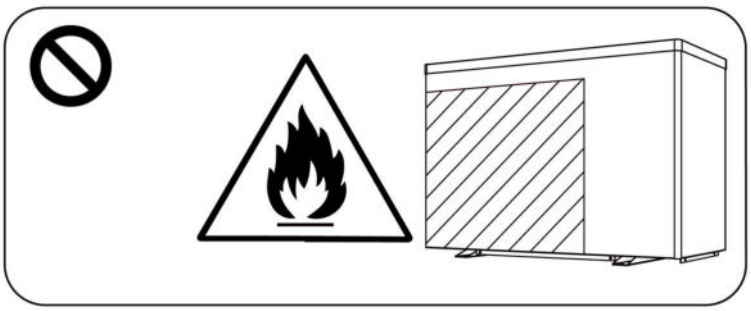
a. Please read the following tips before installation, use and maintenance.
b. Installation, removal and maintenance must be carried out by Professional in accordance with the instructions.
c. Gas leakage test must be done before and after installation.
d. Only technicians who have received specialized training on R-290 refrigerant and obtained the corresponding certification are allowed to carry out maintenance, disassembly or scrapping.

1. Use

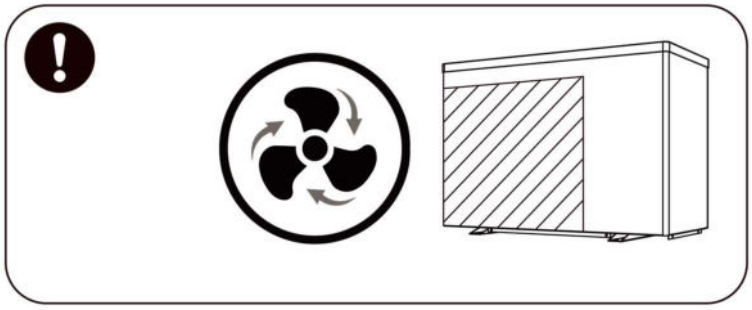
a. It must be installed or removed by professionals, and it is forbidden to dismantle and refit without permission.
b. Don’t put obstacles before the air inlet and outlet of the heat pump.

2. Installation

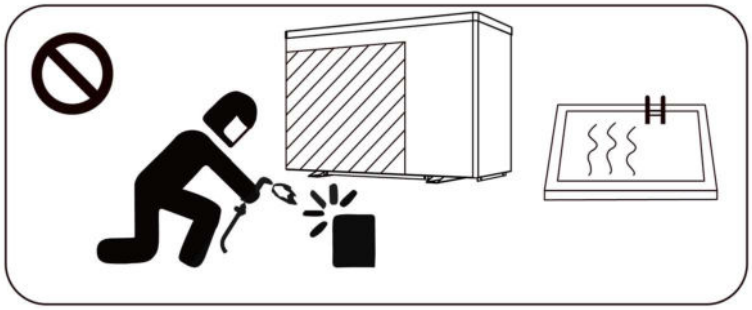
a. This product must be kept away from any source of fire.



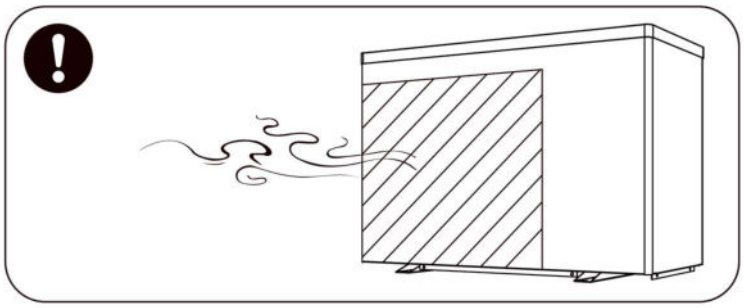
b. The installation can’t be in a closed environment or indoors, must be installed outside and kept well ventilated.



c. Vacuum completely before welding, field welding is not allowed, welding can only be performed by professional personnel in professional maintenance center.



d. Installation must be stopped immediately if any gas leakage, all personnel evacuate, good ventilation maintained and keep away from any sources of fire until the refrigerant is completely leaked out and then leave it for more than 20 minutes. The unit must be transported back to a professional maintenance center for processing.



3. Transportation And Storage

a. Keep well-ventilated during transportation.
b. Transporting goods at a constant speed is needed to avoid sudden acceleration or sudden braking, so as to reduce the collision of goods.
c. The unit must be far away from any source of fire.
d. Storage place must be bright, wide, open and good ventilation, with the required ventilation equipment. If the machine quantity meets the requirements of local laws and regulations, corresponding refrigerant detection devices and ventilation equipment should be installed.

4. Maintenance Notice

a. If maintenance or scrap is required, contact an authorized service center nearby.
b. Qualification requirement
   All operators who dispose gas must be qualified by valid certification which issued by professional agency.

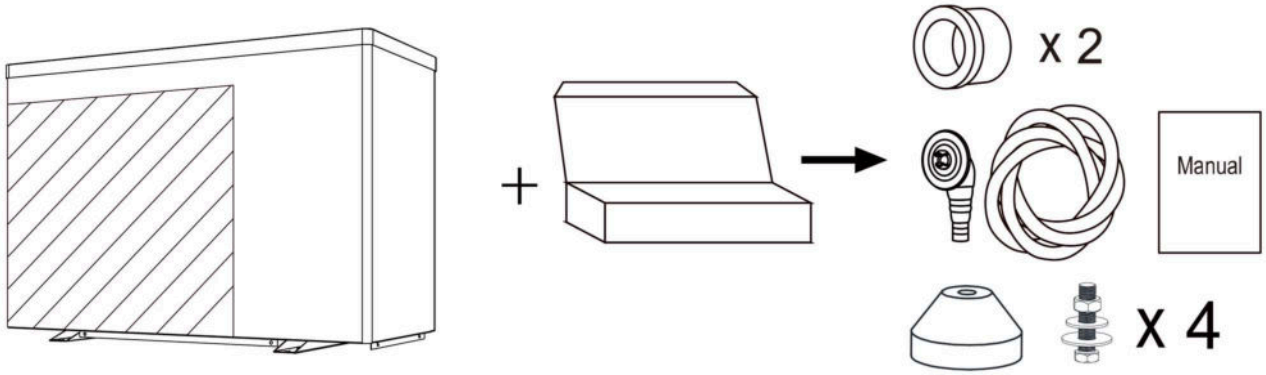
c. When gas leakage occurs, please keep the unit placed in a well-ventilated place and keep away from any sources of fire until the refrigerant is completely leaked out and then leave it for more than 20 minutes. The unit must be transported back to a professional maintenance center for processing.
d. Please strictly comply with the requirement from manufacturer when maintenance or filling gas. This chapter mainly focuses on the special maintenance requirements for using R-290 refrigerant, please refer to the technical service manual for detailed servicing operations.

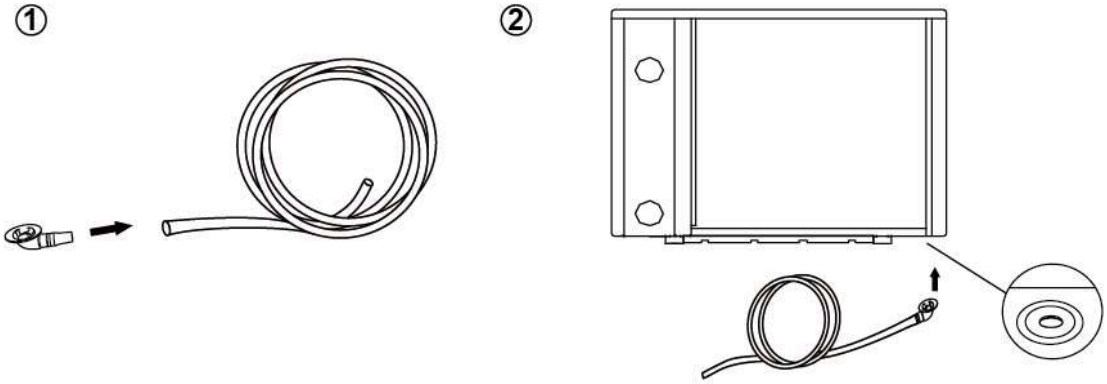
For Users

1. General Information

1.1 Contents

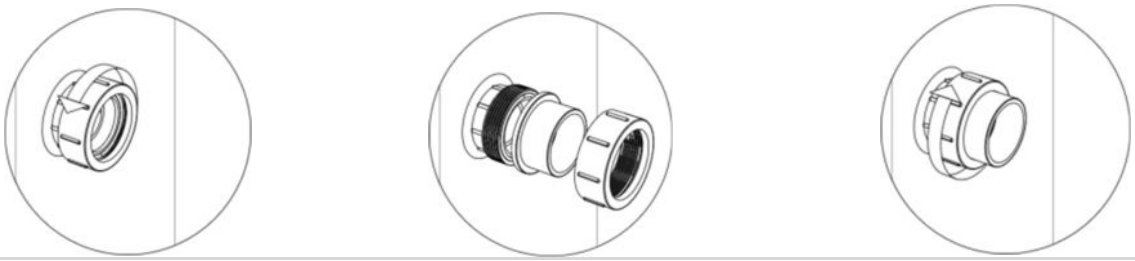
After unpacking, please check if you have all the following components.





NOTICE:
Please install the water unions step by step.

STEP1 **STEP2** **STEP3**



1.2 Operating Conditions And Range

Items		Range
Operating range	Air temp	-20°C~43°C / -4°F~109°F
Temp setting	Heating	18°C~40°C / 64°F~104°F
	Cooling	5°C~30°C / 41°F~86°F

*The heat pump will have ideal performance in the operation range Air 15°C~25°C / 59°F ~77°F.

1.3 Advantages Of Different Modes

The heat pump has three modes: Turbo, Smart and Silence. They have different advantages under different conditions.

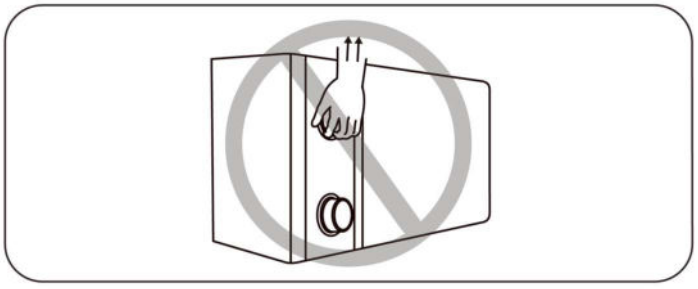
Mode	Advantages
Turbo mode	Heating capacity: 130%~20% Fast heating, intelligent optimization according to ambient temperature and water temperature Energy efficiently saving
Smart mode	Heating capacity:100%~20% Intelligent optimization according to ambient temperature and water temperature Energy efficiently saving
Silence mode	Heating capacity: 60%~20% Use at night

1.4 Kind Reminder

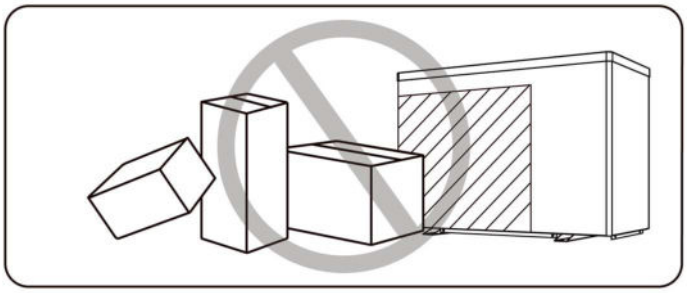
⚠ In case of power failure during the operation of the machine, the machine will automatically restart when the power is restored.

1.4.1 The heat pump can only be used to heat the pool water. It can NEVER be used to heat other flammable or turbid liquid.

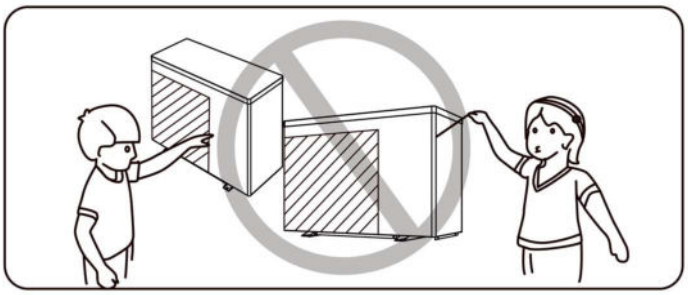
1.4.2 Don't lift the water unions when moving the heat pump since the titanium heat exchanger inside the heat pump will be damaged.



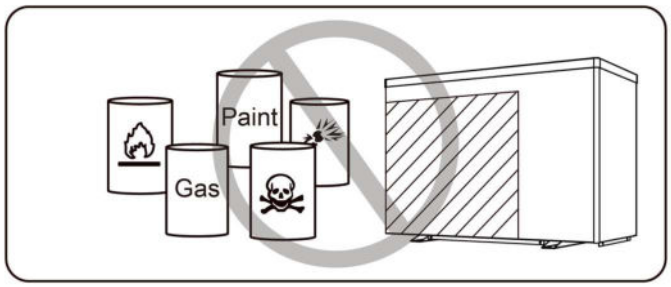
1.4.3 Don’t put obstacles before the air inlet and outlet of the heat pump.



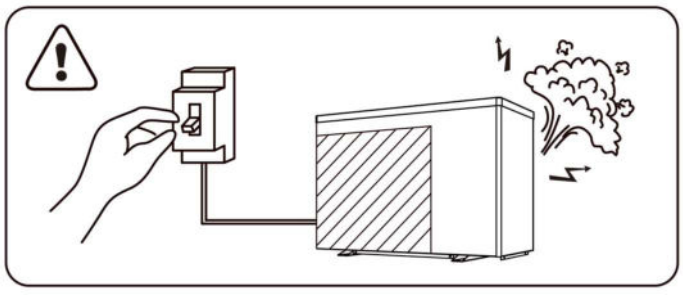
1.4.4 Do not put anything into the inlet or outlet, and do not remove the fan cover and the running fan to avoid injury.



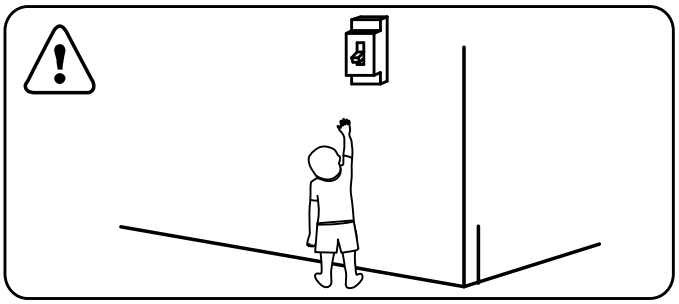
1.4.5 Don’t use or store combustible gas or liquid such as thinners, paint and fuel to avoid fire.



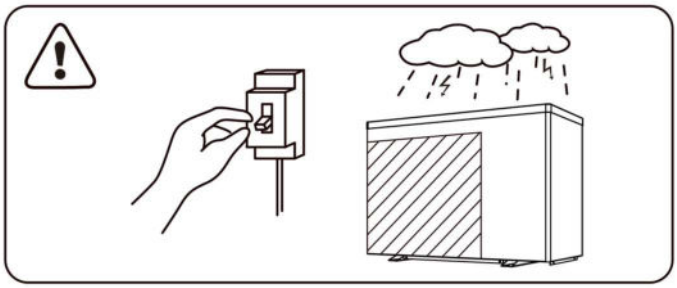
1.4.6 If any abnormal circumstances occurred, e.g.: abnormal noises, smells, smokes and leakage of electricity, switch off the main power immediately, keep good ventilation and keep away from any sources of fire, then contact your local dealer. Don’t try to repair the heat pump by yourselves.



1.4.7 The main power switch should be out of the reach of Children.



1.4.8 Please cut off the power in the lightning storm weather.



1.4.9 Please note that the following codes are not failure.

	Codes
No water protection	E3
Anti-Freezing Protection	Ed
Out of the operating range	Eb
Insufficient water flow protection	E6
Power abnormal	E5

2. Operations

2.1 Notice Before Using

2.1.1 For longer service life, please ensure water pump is on before heat pump starts to work, and water pump is off after heat pump is off.

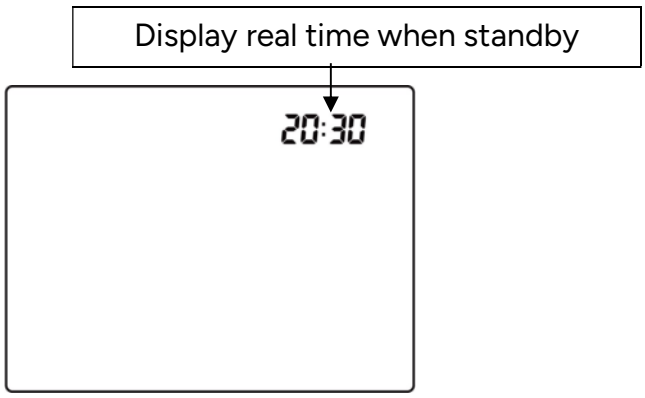
2.1.2 Ensure no water leakage on piping system, then unlock screen and power on heat pump.

2.2 Operation Instructions

Symbol	Designation	Function
	ON/OFF	1. Power On/Off 2. Wi-Fi setting
	Unlock	1. Press it for 3 seconds to unlock/lock screen 2. After screen is unlocked, press it to select mode. Auto 5~40°C / 41°F~104°F Heating 18~40°C / 64°F~104°F Cooling 5~30°C / 41°F~86°F
	Speed	Select Turbo/Smart/Silence mode
	Up / Down	Adjust set temperature
	Timer	Time and timer setting

NOTE: will be light all the time when power is on.

① Standby screen display:
When the screen is locked, the key lamp will be off.

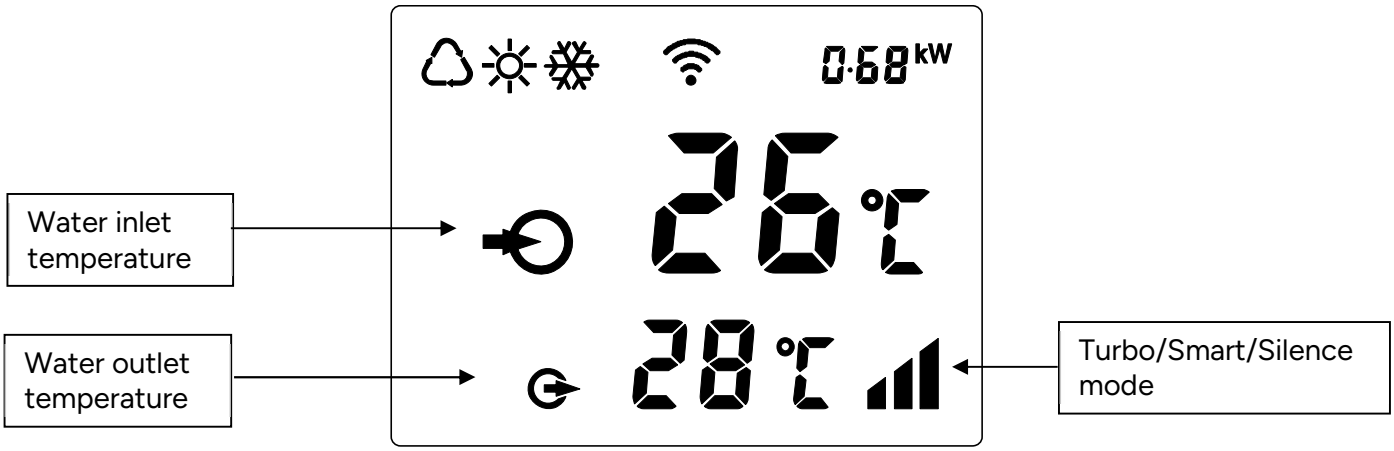


② Screen lock:

a. If no operation in 30 seconds, screen will be locked.
b. When HP is off, screen will be dark and "real time" will be displayed.
c. Press for 3 seconds to lock screen and it will be dark.

③ Screen unlock:

a. Pres s for 3 seconds to unlock screen and it will be lit up.
b. Only after screen is unlocked, any other buttons can be functioned.



	Auto
	Heating
	Cooling
	Heating capacity percentage
	Real-time power consumption display
	Wi-Fi connection
	Water inlet
	Water outlet

1. Power On: Press  for 3 seconds to light up screen, then press  to power on heat pump.
2. Adjust Set Temperature: When screen is unlocked, press  or to display or adjust the set temperature.
3. Switching of real-time power consumption and heating capacity percentage display☒Press  and  5 seconds to switch between real-time power consumption display and heating capacity percentage display.
4. Mode Selection: Press  to select mode.

   Auto  : adjustable temperature range 12~40°C / 54°F~104°F

   Heating  : adjustable temperature range 18~40°C / 64°F~104°F

   Cooling  : adjustable temperature range 5~30°C / 41°F~86°F

5. Turbo/Smart/Silence mode selection:

   Press  to enter Turbo mode, and screen shows  , then press  to enter Silence mode, the screen shows  . Press  again, the screen shows  and return to Smart mode.

6. Timer

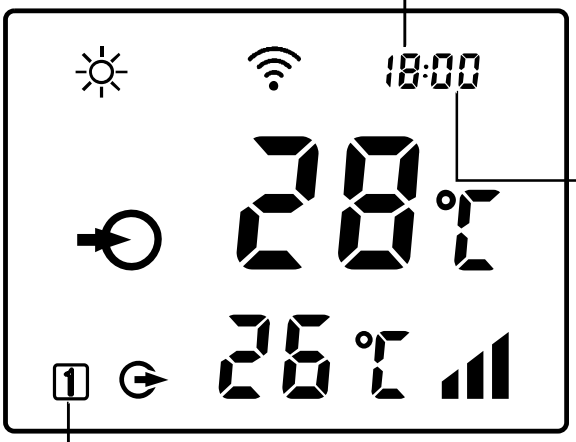
   The timer function is a 24-hour system, please calibrate with local time.

   a. Real time setting: Press  for 5 seconds to enter real time setting, press 

or — to adjust the hour. After completion, press switch to minute setting. And then press to confirm. During real time setting, you can press once to cancel the setting.

b. Time display
When the machine is off, the time display on the top right corner is real time. When the machine is on, the real time can be shown 10 seconds if you press timer once.

c. Timer setting
Press for 10 seconds and release when you hear the “beep” sound to enter the timer setting.
(1) Timer on setting, 1 will be flashing.

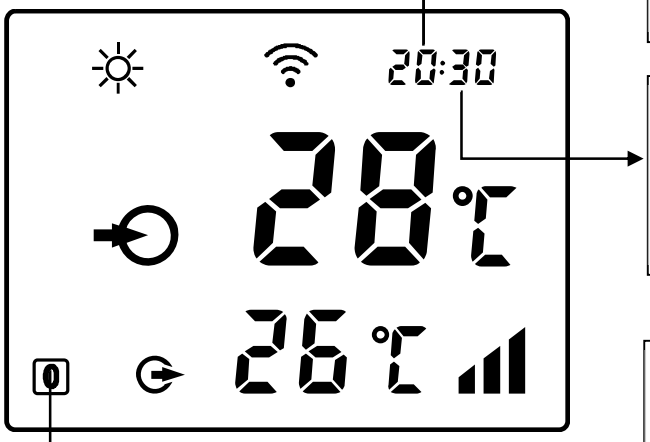


1. Hours flashing, press + or — to set the hour. Press to confirm the hour to turn on.
2. Minutes flashing, press + or — to set the minute. Press to confirm the minute to turn on.
3. The default setting is one time. If cycle is required, press the once when time is flashing, press the twice to cancel.

Finally, press once to confirm timer on setting.
The icon in the lower left corner indicates as below:

1	Timer on every day
1	Timer on one time
No symbol	No timer setting

(2) Timer off setting 0 will be flashing.



1. Hours flashing, press + or — to set the hour. Press ⏰ to confirm the hour to turn off.
2. Minutes flashing, press + or — to set the minute. Press ⏰ to confirm the minute to turn off.
3. The default setting is one time. If cycle is required, press the 🌀 once when time is flashing, press the 🌀 twice to cancel.

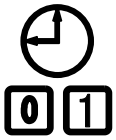
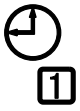
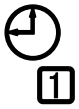
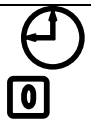
Finally, press ⏰ once to confirm timer off setting.
The icon in the lower left corner indicates as below:

0	Timer off every day
0	Timer off one time
No symbol	No timer setting

(3) Timer cancellation

Press ⏰ for 10 seconds and release when you hear the “beep” sound to enter the timer setting.
When hours or minutes is flashing, press 🌀 twice to cancel timer on, and press ⏰ to confirm. When hours or minutes is flashing, press 🌀 twice to cancel timer off, and press ⏰ to confirm.

(4)After setting, the icon in the lower left corner indicates as below:

	Timer on every day	Timer off every day
 and 0 alternate display	Timer on every day	Timer off one time
	Timer on every day	No timer off
 and 1 alternate display	Timer on one time	Timer off every day
	No timer on	Timer off every day
0 1	Timer on one time	Timer off one time
1	Timer on one time	No timer off
0	No timer on	Timer off one time
No symbol	No timer on	No timer off

7. Defrosting
   a. Auto Defrosting: When heat pump is defrosting, ☼ will be flashing. After defrosting, ☼ will stop flashing.
   b. Compulsory Defrosting: When heat pump is heating, press ✻ and — together for 5 seconds to start compulsory defrosting, and ☼ will be flashing. After defrosting, ☼ will stop flashing.
   c. Note: Compulsory defrosting intervals should be more than 30 minutes and the compressor should run for more than 10 minutes at heating mode.
   d. Temperature display conversion between °C and °F:
   e. Press " + " and " — " together for 5 seconds to switch between °C and °F.

8. Wi-Fi connection

Please kindly scan below QR code for Wi-Fi connection.

Step 1. Press and hold the "Unlock" button for 3seconds to unlock the controller.

Step 2. Press the "Power" button for 5 seconds and then release then you will see the Wi-Fi icon flashing rapidly.

Step 3. Open the APP and click on "Add Device" or the "+" in the top right corner, find the device and follow the instruction of connection.

2.3 Advanced Application

2.3.1 Parameter Checking

a. Press and together for 5 seconds to enter “Parameter Checking” status, the parameter code “P0” and the parameter value “0” will display on the screen, such as “P0 0”, which means water pump running way is continuous.

b. In “Parameter Checking” status, press or to check the parameters.

2.3.2 Parameter Modification

In “Parameter Checking” status, press to enter the “Parameter Modification” mode, press or to change the values, then press to confirm and quit “Parameter Modification” mode, press to quit “Parameter Checking” status.

2.3.3 Parameter List

NO.	Content	Adjust range	Step length
P0	Water Pump Running Way	0: Continuous 1: Water temp control 2: Time/water temp control	1
P1	Time Setting (Only available when the water pump running way is set to "2")	10 ~ 120 min	5 min
P2	Compressor Continuously Running Time between Defrosting Mode	30 ~ 90 min	1 min
P3	Defrosting Entry Temp	-17~0°C / 1~32°F	1°C /1°F
P4	Maximum Defrosting Running Time	1 ~ 12 min	1 min
P5	Defrosting Exit Temp	8~30°C /46~86°F	1°C /1°F

2.3.4 Running Status Checking

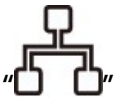
Press for 5 seconds, enter into "Running status checking", and the screen alternately shows status point "C0" and its corresponding value. Check all status points and their corresponding value through + or —, Press to quit "running status checking" mode.

Running status checking list

Symbol	Content	Unit
C0	Inlet water temp.	°C / °F
C1	Outlet water temp.	°C / °F
C2	Ambient temp.	°C / °F
C3	Exhaust temp.	°C / °F
C4	Outer coil pipe temp. (Evaporator)	°C / °F
C5	Gas return temp.	°C / °F
C6	Inner coil pipe temp. (Titanium heat exchanger)	°C / °F
C9	Cooling plate temp.	°C / °F
C10	Electronic expansion valve opening	P
C11	DC fan speed	(r/min)

2.4 100% Green Function

2.4.1 Parameter P25 defaults to 0. The heat pump does not turn on the 100% Green function

2.4.2 When only Terminal 9-10 is connected, enter the “Parameter” and change P25 to “1”. Then the heat pump enters the 100% Green function ad the icon “  ” is displayed in the upper left corner of the controller. The Terminal status and the corresponding operation modes are as follows:

Terminal 7-8	Terminal 9-10	Operation Mode	Controller Display
Connected	Disconnected	General Mode	"1" is displayed in the upper right corner
Connected	Connected	Temp+ Mode	"2" is displayed in the upper right corner

1)General mode:
In this mode, the heat pump will take P26 as the maximum running percentage and run automatically.
P26 adjustment instructions: enter “Parameter” first, then use “Up” or “Down” button to switch to P26 and adjust its value, its adjustable range is 60%~130%, default is 100%.

2)Temp+ Mode:
In this mode, the heat pump will run at 130%. And, it will raise the target temperature when heating and lower the target temperature when cooling.
The raised and lowered temperatures correspond to parameters P27 and P28, and the adjustment instructions and adjustable ranges are as follows:
P27 adjustment instructions: It corresponds to heating, enter “Parameter” first, then use “Up” or “Down” button to switch to P27 and adjust its value, its adjustable range is 1~8°C, default is 2°C.
P28 adjustment instructions: It corresponds to cooling, enter “Parameter” first, then use “Up” or “Down” button to switch to P28 and adjust its value, its adjustable range is 1~8°C, default is 2°C.

***NOTE:** This function does not work when the heat pump is in auto mode.

2.4.3 When both terminals 5-6 and 7-8 are connected at the same time, enter the "Parameter" and adjust P25 to 2. Then the heat pump enters the 100% Green function and the icon "  " is displayed in the upper left corner of the controller. The Terminal status and the corresponding operation modes are as follows:

Terminal 5-6	Terminal 7-8	Operation Mode	Controller Display
Disconnected	Disconnected	Shutdown	"0" displays in the upper right corner
Connected	Connected	Temp+ Mode	"2" displays in the upper right corner
Disconnected	Connected	Economic Model	"3" displays in the upper right corner
Connected	Disconnected	Balance Mode	"4" displays in the upper right corner

A. Shutdown: The heat pump turns off.

B. Temp+ Mode: same as above

C. Economic mode:

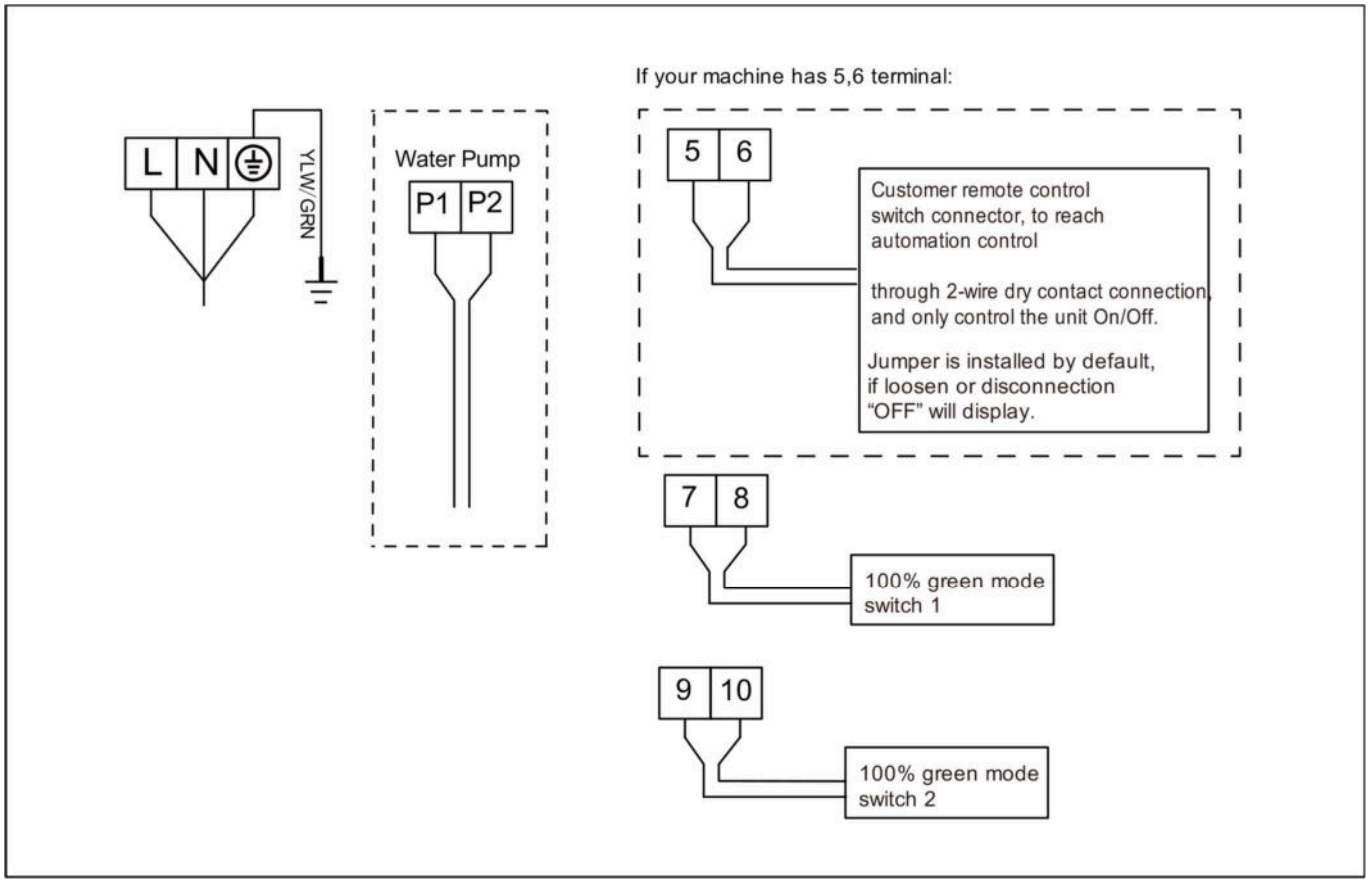
- In this mode, the heat pump will take P29 as the maximum running percentage and run automatically.
- P29 adjustment instructions: enter "Parameter" first, then use the "Up" or "Down" button to switch to P29 and adjust its value, its adjustable range is 60%~120%, default is 60%.

D. Balance mode:

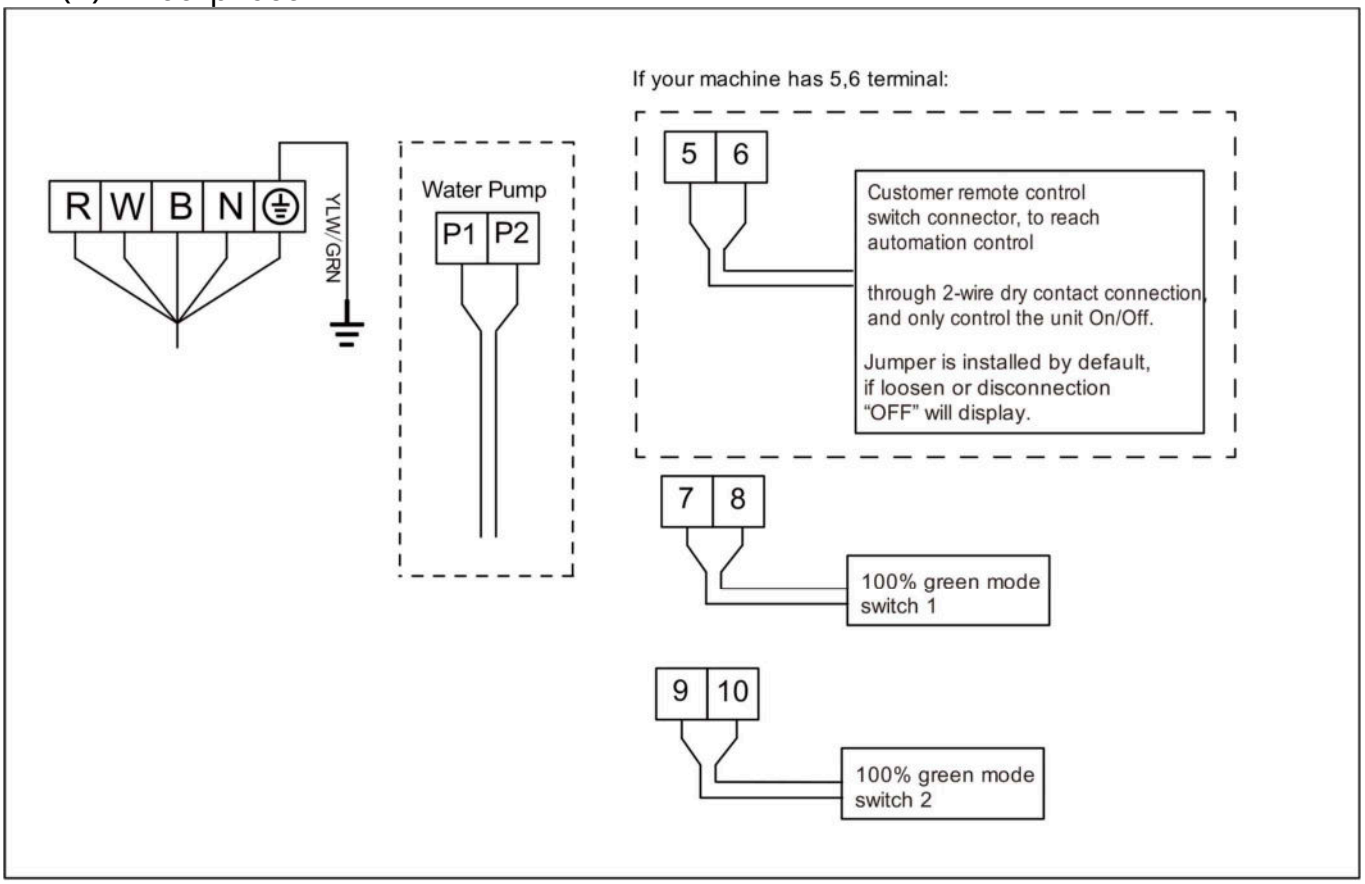
- In this mode, the heat pump will take P30 as the maximum running percentage and run automatically.
- P30 adjustment instructions: enter "Parameter" first, then use the "Up" or "Down" button to switch to P30 and adjust its value, its adjustable range is 60%~120%, default is 100%.

2.4.4 Wiring reference

(1) Single-phase)



(2) Three-phase



2.5 Daily Maintenance And Winterizing

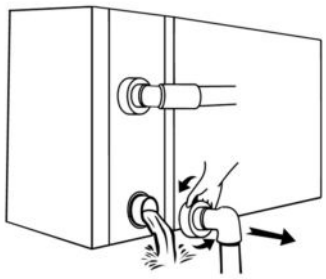
2.5.1 Daily Maintenance

⚠ Please don't forget to cut off power supply of the heat pump

- Please clean the heat pump with household detergents or clean water, NEVER use gasoline, thinners or any similar fuel.
- Check bolts, cables and connections regularly.

2.5.2 Winterizing

In winter season when you don't swim, please cut off power supply and drain water out of the heat pump. When using the heat pump under 2°C / 36°F, make sure there is always water flow.



⚠ ATTENTION

Unscrew the lower water union of inlet pipe to let the water flow out.
When the water in machine freezes in winter season, the titanium heat exchanger may be damaged.

3.Technical Specification

Model	VproX-10	VproX-12	VproX-14	VproX-19
Advised pool volume (m^3)	18~35	25~40	30~50	40~65
Working air temp (°C / °F)	-20 ~43 / -4 ~109			
Performance Condition: Air 26°C / 80°F, Water 26°C / 80°F, Humidity 80%				
Heating capacity (kW) in Turbo mode	9.6	11.5	13.8	19.0
Heating capacity (kW) in Smart mode	7.8	8.6	11.5	15.0
COP	21.2~7.4	30.0~7.5	21.5~7.4	22.1~7.1
COP at 50% capacity	14.1	15.8	14.7	14.3
Performance Condition: Air 15°C / 59°F, Water 26°C / 80°F, Humidity 70%				
Heating capacity (kW) in Turbo mode	6.5	8.1	9.0	13.0
Heating capacity (kW) in Smart mode	5.3	6.1	7.4	10.2
COP	7.7~5.3	10.6~5.4	7.8~5.1	8~4.9
COP at 50% capacity	7.1	7.8	7.2	7.1
Performance Condition: Air 7°C / 45 °F, Water 26°C / 80°F, Humidity 90%				
Heating capacity (kW) in Turbo mode	5.0	6.6	7.3	11.1
COP	6.7~4.4	7.2~4.7	6.9~4.3	6.8~4
Performance Condition: Air 35°C / 95°F, Water 28°C / 82°F, Humidity 80%				
Cooling capacity (kW)	4.6	5.3	6.3	9.6
Sound pressure at 1m dB(A)	36.9~43.9	38.1~45.4	38.1~46.3	41.9~47.9
Sound pressure of 50% capacity at 1m dB(A)	37.9	39.1	40.6	42.8
Sound pressure at 10m dB(A)	16.9~23.9	18.1~25.4	18.1~26.3	21.9~27.9
Power supply	230V~/1Ph/50Hz			
Rated input power (kW) at air 15°C / 59°F	0.14~1.23	0.12~1.5	0.19~1.76	0.26~2.65
Rated input current (A) at air 15°C / 59°F	0.61~5.35	0.52~6.52	0.83~7.65	1.13~11.52
Advised water flux (m^3/h)	2~4	2~4	3~4	4~6
Water pipe in-out Spec (mm)	**48.3**			
Net Dimension L × W × H (mm)	923×427×661	1120×427×661	1120×427×661	1160×427×760
Net Weight (kg)	67	74	75	86
Gas (g) R-290	750	800	950	1150
GWP	0.02			
CO_2 equivalent (tonnes)	0.00002	0.00002	0.00002	0.00002

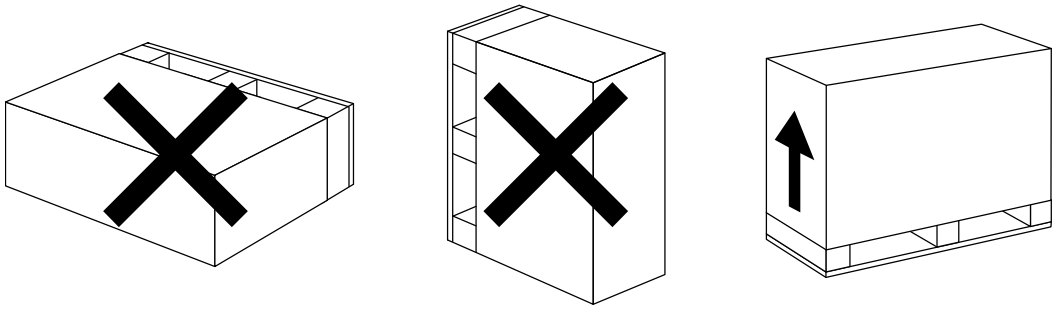
Model	VproX-22	VproX-26	VproX-32	VproX-40T
Advised pool volume (m^3)	45~75	55~90	65~105	75~120
Working air temp (°C / °F)	-20 ~43 / -4 ~109			
Performance Condition: Air 26°C / 80°F, Water 26°C / 80°F, Humidity 80%				
Heating capacity (kW) in Turbo mode	22.0	26.0	32.0	40.0
Heating capacity (kW) in Smart mode	17.2	21.7	26.6	33.5
COP	26.0~7.3	20.3~7.2	21.3~7.1	20.7~7.1
COP at 50% capacity	15.5	14.6	14.5	14.4
Performance Condition: Air 15°C / 59°F, Water 26°C / 80°F, Humidity 70%				
Heating capacity (kW) in Turbo mode	15.4	17.5	21.7	27.6
Heating capacity (kW) in Smart mode	12.1	14.5	18.0	23.0
COP	8.9~5.2	7.7~5.3	8.1~5.2	7.9~4.8
COP at 50% capacity	7.6	7.1	7.3	7.3
Performance Condition: Air 7°C / 45 °F, Water 26°C / 80°F, Humidity 90%				
Heating capacity (kW) in Turbo mode	12.3	15.0	17.7	22.1
COP	7.1~4.2	6.6~4.3	7.1~4.3	6.7~4.1
Performance Condition: Air 35°C / 95°F, Water 28°C / 82°F, Humidity 80%				
Cooling capacity (kW)	11.1	12.3	14.4	18.4
Sound pressure at 1m dB(A)	42.2~49.9	41.1~50.3	42.5~50.9	41.8~51.9
Sound pressure of 50% capacity at 1m dB(A)	43.6	44.4	45.5	45.8
Sound pressure at 10m dB(A)	22.2~29.9	21.1~30.3	22.5~30.9	21.8~31.9
Power supply	230V~/1Ph/50Hz			400V 3N~, 50Hz
Rated input power (kW) at air 15°C / 59°F	0.27~2.96	0.38~3.3	0.44~4.17	0.58~5.75
Rated input current (A) at air 15°C / 59°F	1.17~12.87	1.65~14.35	1.91~18.13	0.84~8.3
Advised water flux (m^3/h)	6.5~8.5	8~10	10~12	12~18
Water pipe in-out Spec (mm)	**48.3**			
Net Dimension L × W × H (mm)	1146×536×955	1146×536×955	1315×536×1060	1397×536×1249
Net Weight (kg)	110	113	145	186
Gas (g) R-290	1300	1500	2200	3000
GWP	0.02			
CO_2 equivalent (tonnes)	0.00003	0.00003	0.00004	0.00006

*The values indicated are valid under ideal conditions: Pool covered with an isothermal cover, filtration system running at least 15 hours a day.
*Related parameters subject to adjustment periodically for technical improvement without further notice. For details please refer to nameplate.

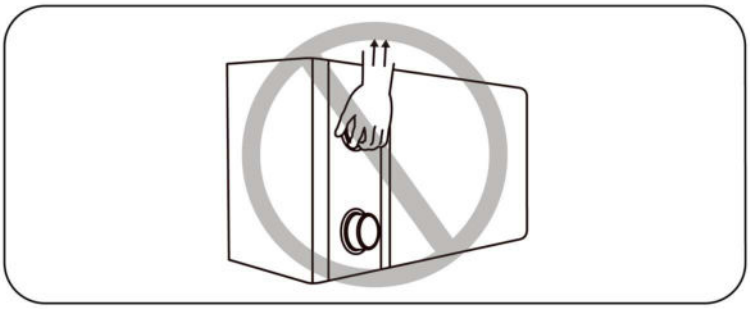
For Installers And Professionals

1. Transportation

1.1 When storing or moving the heat pump, the heat pump should be at the upright position.



1.2 When moving the heat pump, do not lift the water unions since the titanium heat exchanger inside the heat pump will be damaged.

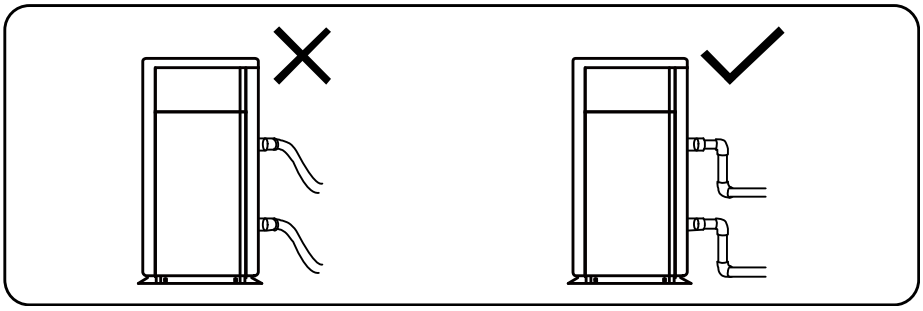


2. Installation And Maintenance

⚠ The heat pump must be installed by a professional team. The users are not qualified to install by themselves, otherwise the heat pump might be damaged and risky for users' safety.

2.1 Notice Before Installation

2.1.1 The inlet and outlet water unions can't bear the weight of soft pipes. The heat pump must be connected with hard pipes!

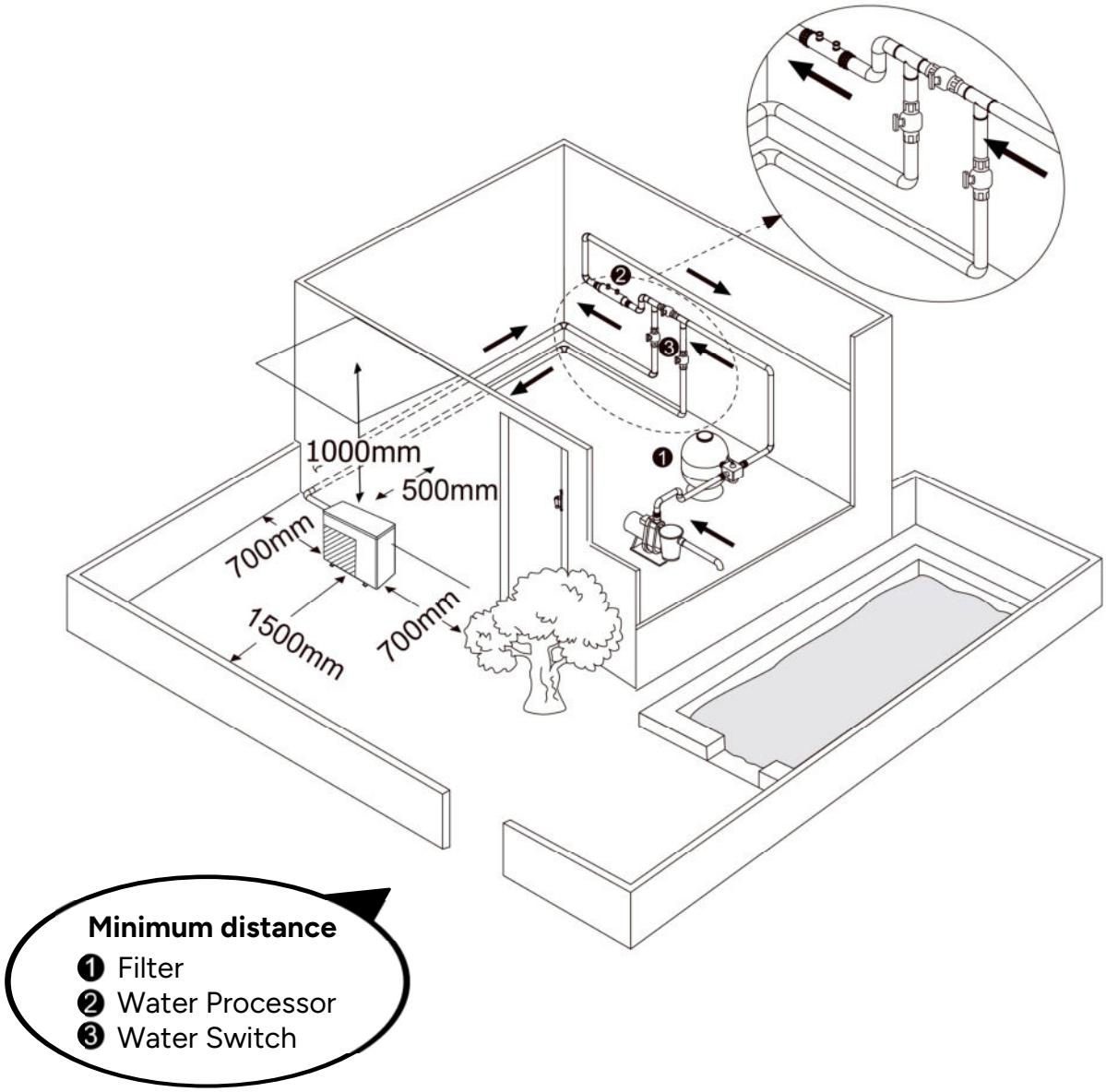


2.1.2 In order to guarantee the heating efficiency, the water pipe length should be ≤10m between the pool and the heat pump.

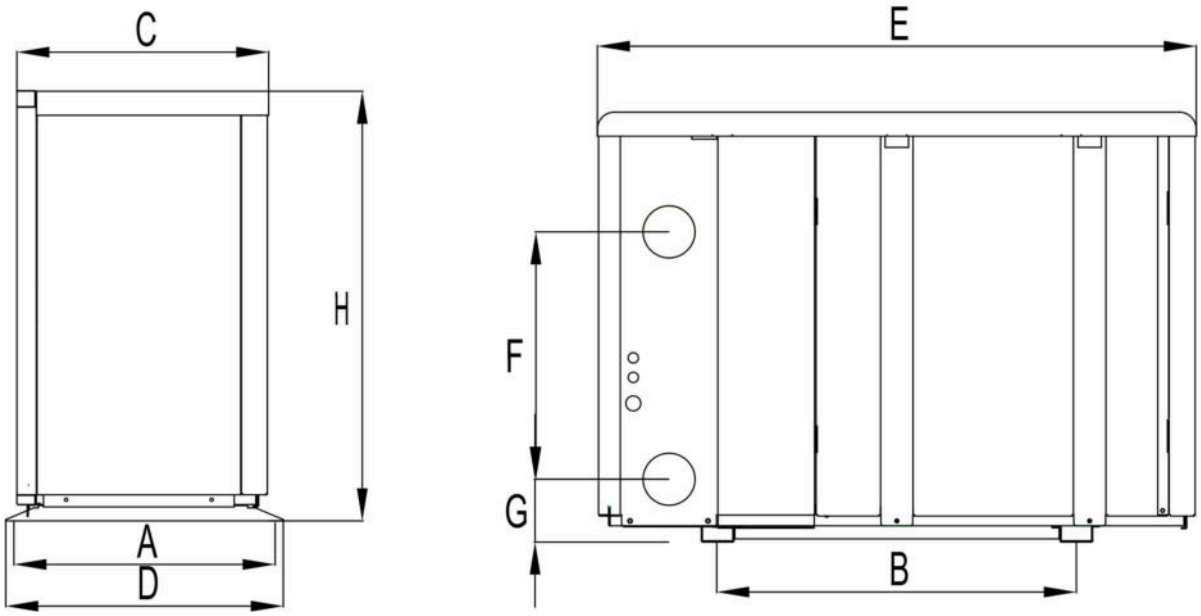
2.2 Installation Instruction

2.2.1 Location And Size

⚠To avoid air recirculation, the heat pump must be installed in an outside place with good ventilation or should reserve sufficient space for installation and maintenance. Please refer to the schema below:



Minimum distance
❶ Filter
❷ Water Processor
❸ Water Switch



Model (UNIT=MM)	A	B	C	D	E	F	G	H
VproX-10	402	552	387	427	923	380	97	661
VproX-12	402	749	389	427	1120	360	97	661
VproX-14	402	749	389	427	1120	360	97	661
VproX-19	402	789	389	427	1160	460	97	760
VproX-22	511	776	497.5	536	1146	560	97	955
VproX-26	511	776	497.5	536	1146	580	97	955
VproX-32	508	965	496.5	536	1315	750	97	1060
VproX-40T	511	1050	497	536	1397	750	108	1249

☒ Above data is subject to modification without notice.

2.2.2 Heat Pump Installation

- The frame must be fixed by bolts (M10) to concrete foundation or brackets. The concrete foundation must be solid; the bracket must be strong enough and anti-rust treated;
- The heat pump needs a water pump (Supplied by the user). The recommended pump specification-flux: refer to Technical Parameter, Max. lift ≥10m
- When the heat pump is running, there will be condensation water discharged from the bottom, please pay attention to it. Please insert the drainage tube (accessory) into the hole and clip it well, then connect a pipe to drain off the condensation water.

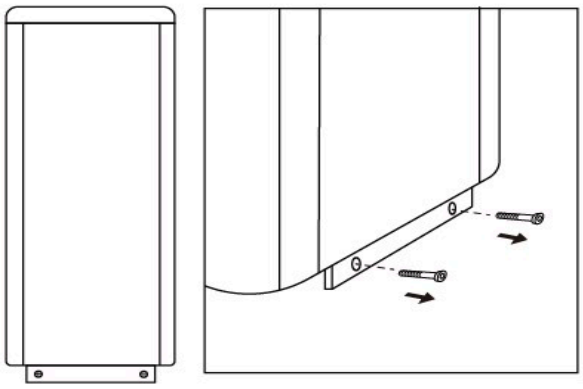
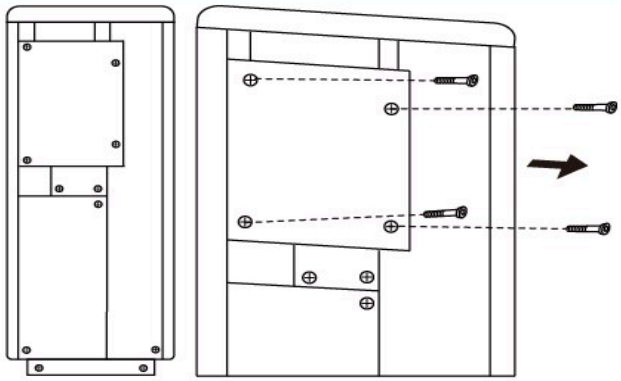
2.2.3 Wiring And Protecting Devices And Cable Specification

- Connect to appropriate power supply, the voltage should comply with the rated

voltage of the products.

- Well earth the heat pump.
- Wiring must be connected by a professional technician according to the circuit diagram.
- Set breaker or fuse according to the local code (leakage operating current ≤30mA).
- The layout of power cable and signal cable should be orderly and not affecting each other. Considering the environmental conditions (ambient temperature, direct sunlight, rain, grid voltage, cable length, etc.), the cross-sectional area of the cable can be appropriately increased.
- If you use green energy to power this equipment, please make sure the power supply voltage is stable and the voltage range is within the range indicated on the equipment. Unstable voltage or voltage range beyond the indicated value will easily cause damage to the machine.

Ế Connecting your power wire

<table>
<tr>
<td>  </td>
<td>  </td>
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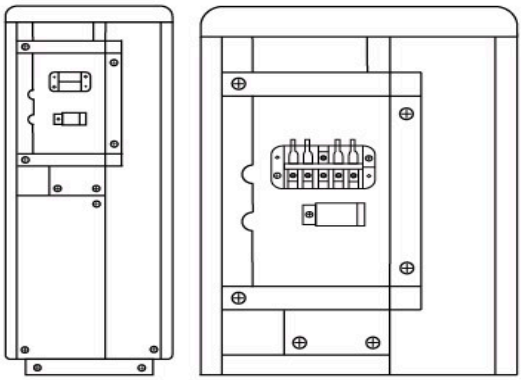
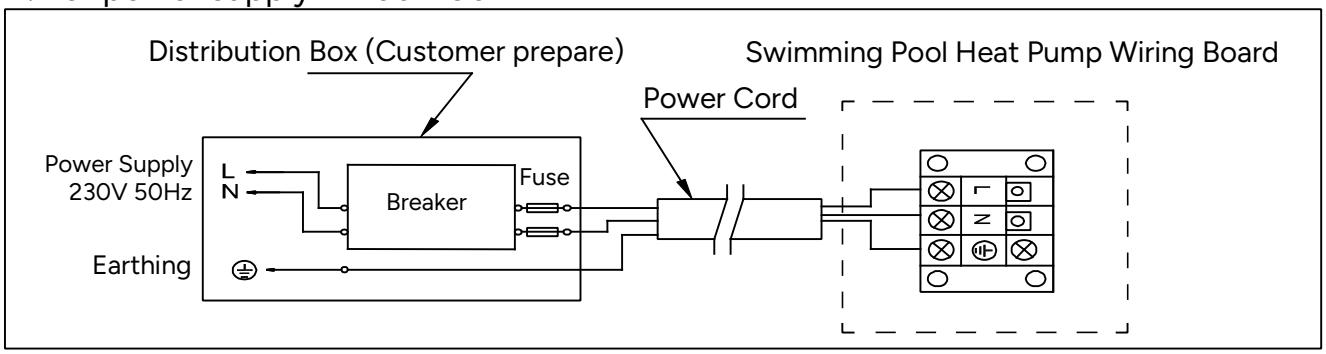
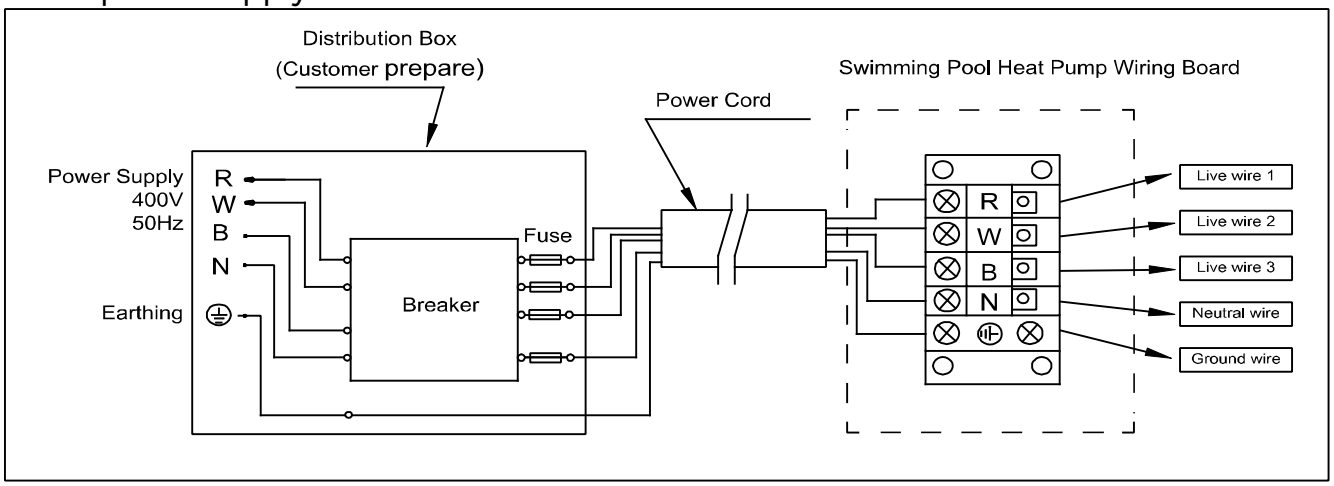
<tr>
<td>  </td>
<td>✧ Please use cross screwdriver to take off the 2 screws at the bottom of the right-side panel. Take off the lower half of the panel.
✧ Unscrew the 4 screws on the cover of the electrical box.
✧ Connect the terminals according to the electrical diagram.</td>
</tr>
</table>

ế . Wiring diagram

A. For power supply: 230V 50Hz



B. For power supply: 400V 50Hz



NOTE

- The wiring circuit: please make sure that the leakage protection switch has been installed.
- If the machine itself does not come with a plug power cord, you must use the hard-wired way to connect the power supply, not allowed to connect plugs.
- If the machine itself comes with a plug, please make sure that the plug and socket with good waterproof measures.
- For your safe use in winter, it's strongly recommended to equip heating priority function.
- For the detailed wiring diagram, please refer to Appendix 1.

È Options for protecting devices and cable specification

MODEL		VproX-10	VproX-12	VproX-14	VproX-19
Breaker	Rated Current (A)	10.0	12.0	12.0	18.0
	Rated Residual Action Current (mA)	30	30	30	30
Max input current (A)		8.0	10.0	10.0	15.0
Fuse (A)		10.0	12.0	12.0	18.0
Power Cord (mm²)		3x1.5	3x1.5	3x1.5	3x2.5
Signal cable (mm²)		3×0.5	3×0.5	3×0.5	3×0.5

MODEL		VproX-22	VproX-26	VproX-32	VproX-40T
Breaker	Rated Current (A)	20.0	27.0	30.0	14.0
	Rated Residual Action Current (mA)	30	30	30	30
Max input current (A)		17.0	22.5	25.8	11.5
Fuse (A)		20.0	27.0	30.0	14.0
Power Cord (mm²)		3x4	3x4	3x6	5x2.5
Signal cable (mm²)		3×0.5	3×0.5	3×0.5	3×0.5

NOTE: The above data is adapted to power cord ≤ 10m.If power cord is 10m, wire diameter must be increased. The signal cable can be extended to 50m at most.

Supply cords of parts of appliances for outdoor use shall not be lighter than polychloroprene sheathed flexible cord (code designation 60245 IEC 57).

2.3 Trial After Installation

⚠ Please check all the wirings carefully before turning on the heat pump.

2.3.1 Inspection Before Use

- Check installation of the whole heat pump and the pipe connections according to the pipe connecting drawing;
- Check the electric wiring according to the electrical wiring diagram and earthing connection;
- Make sure that the main power is well connected;
- Check if there is any obstacle in front of the air inlet and outlet of the heat pump

2.3.2 Trial

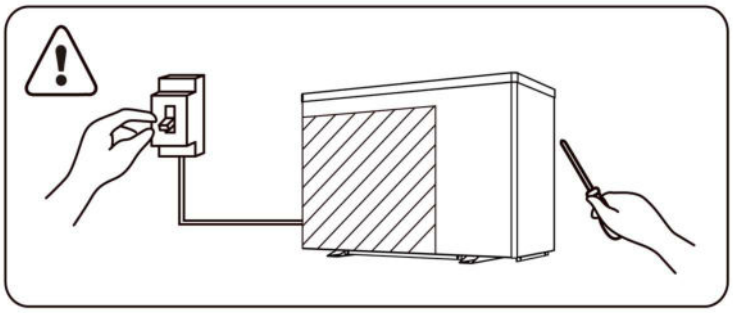
- Water pump should start before the heat pump, and turn off after the heat pump for long life.
- After the water pump starts, please make sure no leakage of water. Then power on and press the ON/OFF button of the heat pump, and set desired temperature.
- In order to protect the heat pump, the heat pump is equipped with start delay function. When starting the heat pump, the fan will start to run in 3 minutes, in another 30 seconds, the compressor will start to run.
- After pool heat pump starts up, check for any abnormal noise from the heat pump.
- Check the temperature setting.

2.4 Maintenance And Winterizing

2.4.1 Maintenance

⚠ The maintenance should be carried out once per year by qualified professional technician.

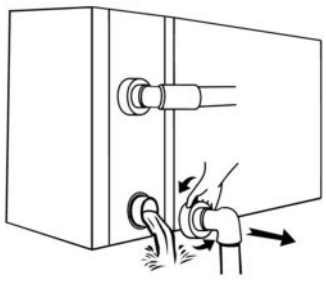
- Cut off power supply of the heat pump before cleaning, examination and repairing. Do not touch the electronic components until the LED Indication lights on PC board turn off.



- Please clean the evaporator with household detergents or clean water, NEVER use gasoline, thinners or any similar fuel.
- Check bolts, cables and connections regularly.

2.4.2 Winterizing

In winter season when you don't swim, please cut off power supply and drain water out of the heat pump. When using the heat pump under 2°C / 36°F, make sure there is always water flow.



⚠ ATTENTION

Unscrew the lower water union of inlet pipe to let the water flow out.
When the water in machine freezes in winter season, the titanium heat exchanger may be damaged.

3. Trouble Shooting For Common Faults

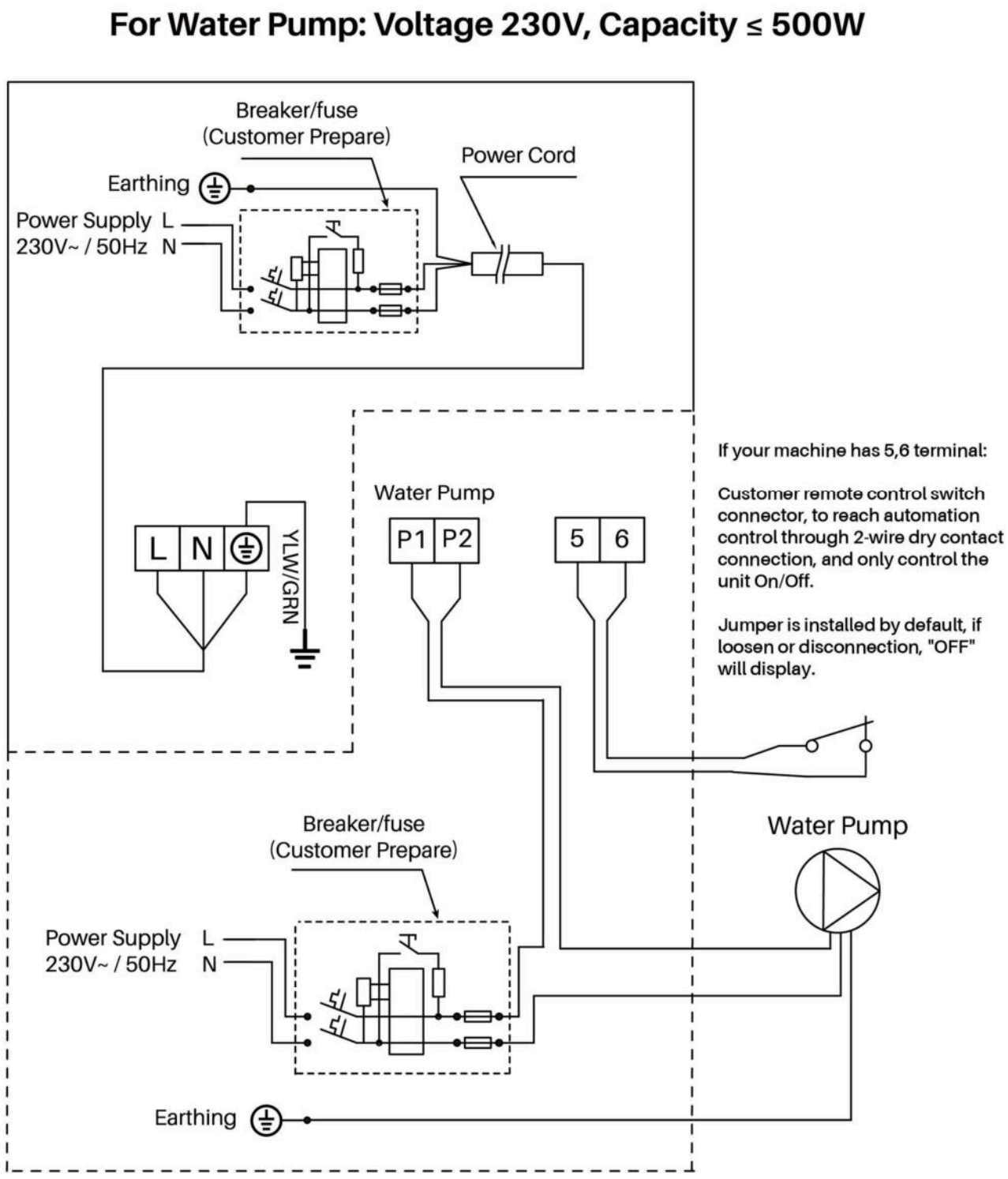
Failure	Reason	Solution
Heat pump doesn't run	No power	Wait until the power recovers
	Power switch is off	Switch on the power
	Fuse burned	Check and change the fuse
	The breaker is off	Check and turn on the breaker
Fan running but with insufficient heating	evaporator blocked	Remove the obstacles
	Air outlet blocked	Remove the obstacles
	3 minutes start delay	Wait patiently
Display normal, but no heating	Set temp. too low	Set proper heating temp.
	3 minutes start delay	Wait patiently
If above solutions don't work, please contact your installer with detailed information and your model number. Don't try to repair it yourself.		

ATTENTION Please don't try to repair the heat pump by yourself to avoid any risk.

4. Failure Code

NO.	Display	NOT Failure description
1	E3	No water protection
2	E5	Power supply excesses operation range
3	E6	Excessive temp difference between inlet and outlet water (Insufficient water flow protection)
4	Eb	Ambient temperature too high or too low protection
5	Ed	Anti-freezing reminder
6	OFF	Customer Control Switch DIN2 Disconnect
NO.	**Display**	**Failure description**
1	E1	High pressure protection
2	E2	Low pressure protection
3	E4	Phases lack protection (three phase model only)
4	E7	Water outlet temp too high or too low protection
5	E8	High exhaust temp protection
6	EA	Evaporator overheat protection (only at cooling mode)
7	P0	Controller communication failure
8	P1	Water inlet temp sensor failure
9	P2	Water outlet temp sensor failure
10	P3	Gas exhaust temp sensor failure
11	P4	Heating (Evaporator) coil pipe temp sensor
12	P5	Gas return temp sensor failure
13	P6	Cooling (Titanium heat exchanger) coil pipe temp sensor
14	P7	Ambient temp sensor failure
15	P8	Cooling plate sensor failure
16	P9	Current sensor failure
17	PA	Restart memory failure
18	F1	Compressor drive module failure
19	F2	PFC module failure
20	F3	Compressor start failure
21	F4	Compressor running failure
22	F5	Inverter board over current protection
23	F6	Inverter board overheat protection
24	F7	Current protection
25	F8	Cooling plate overheat protection
26	F9	Fan motor failure
27	Fb	Capacitor no charging protection
28	FA	PFC module over current protection
29	8888	Communication failure

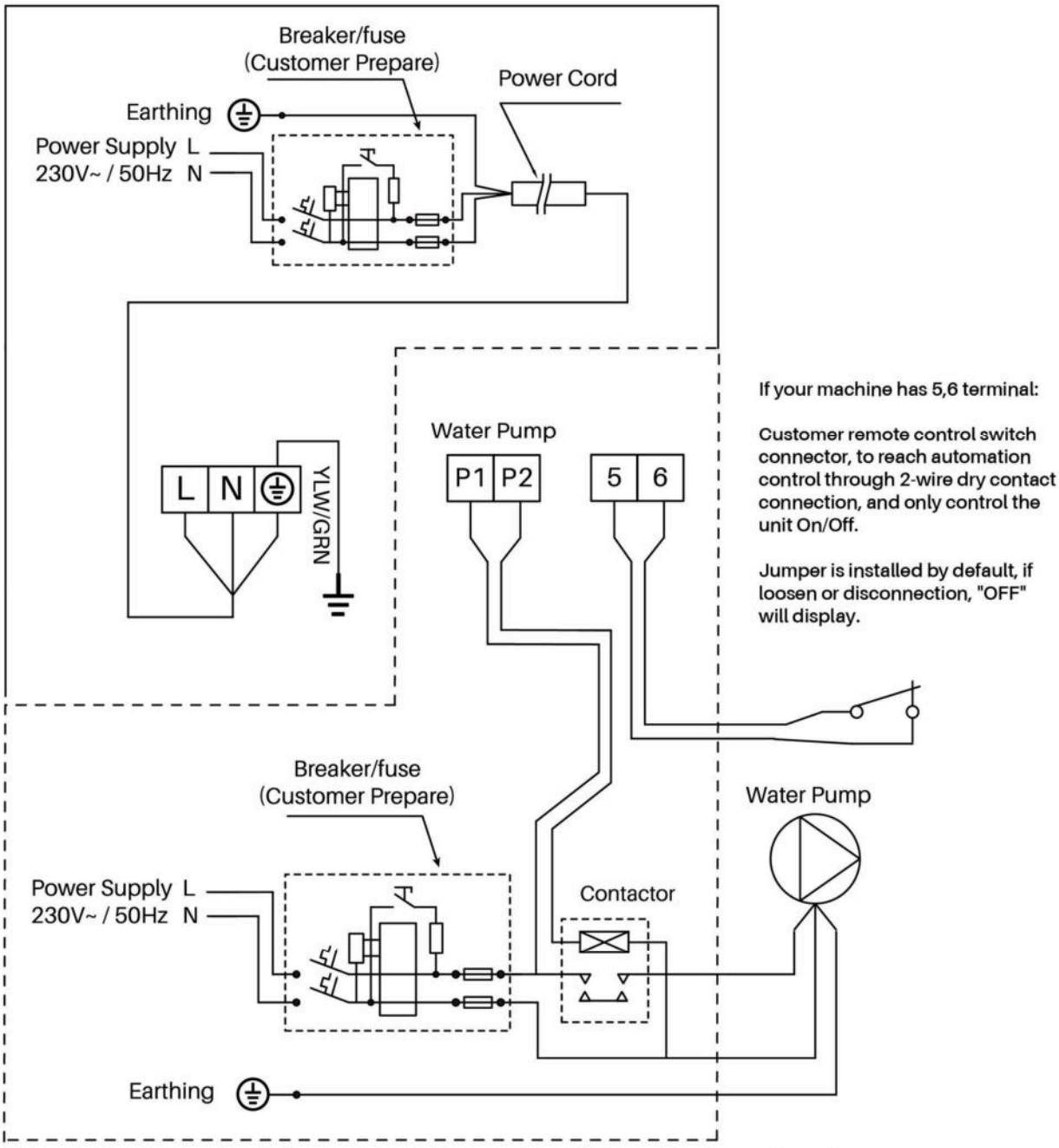
Appendix 1: Heating Priority Wiring Diagram (Optional)



The functions in the dotted box are partially optional before production, wiring please refer to the actual machine.

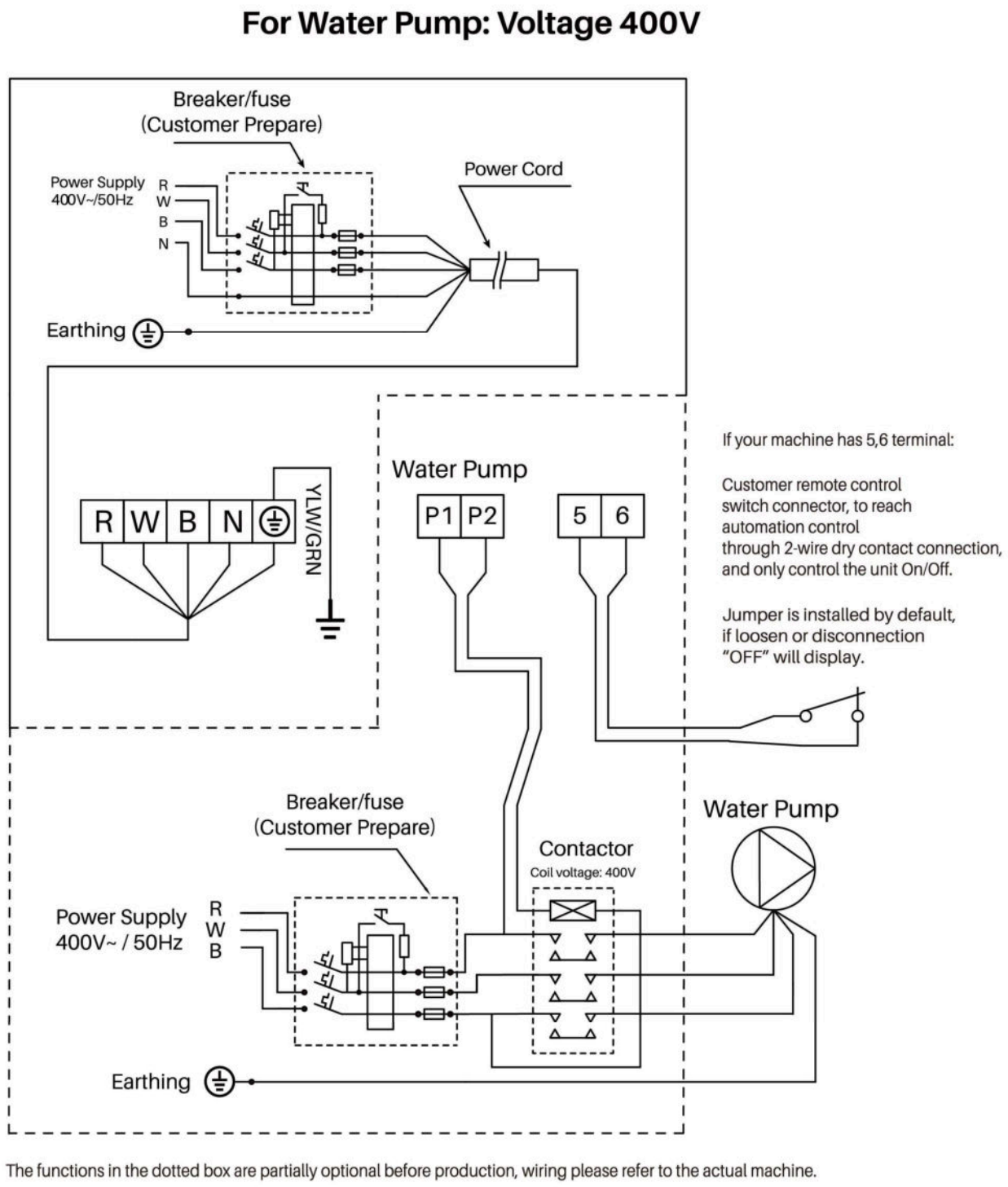
Appendix 2: Heating Priority Wiring Diagram (Optional)

For Water Pump: Voltage 230V, Capacity > 500W



The functions in the dotted box are partially optional before production, wiring please refer to the actual machine.

Appendix 3: Heating priority wiring diagram (Optional)



Parallel Connection With Filtration Timer

If the user wants to connect the water pump timer, the installer should connect water pump timer and water pump wiring of heat pump in parallel. So that water pump can start when water pump timer or water pump wiring of heat pump is connected, and water pump will only be switched off when both are disconnected at the same time.

The factory reserves the final interpretation right.
And keep the right to stop or change product specification and design without prior notice at any time, no need to bear the resulting obligations.

WI-FI SETTING

Download the iGarden App

Scan the QR code for your device to download and install the iGarden app.

Apple App Store

Google Play

1. Registration and Login

After opening the app, please follow the steps in the image below to complete account registration and login.

Note: If you haven't received the verification code, please check your spam folder promptly.

2. Wi-Fi Connection

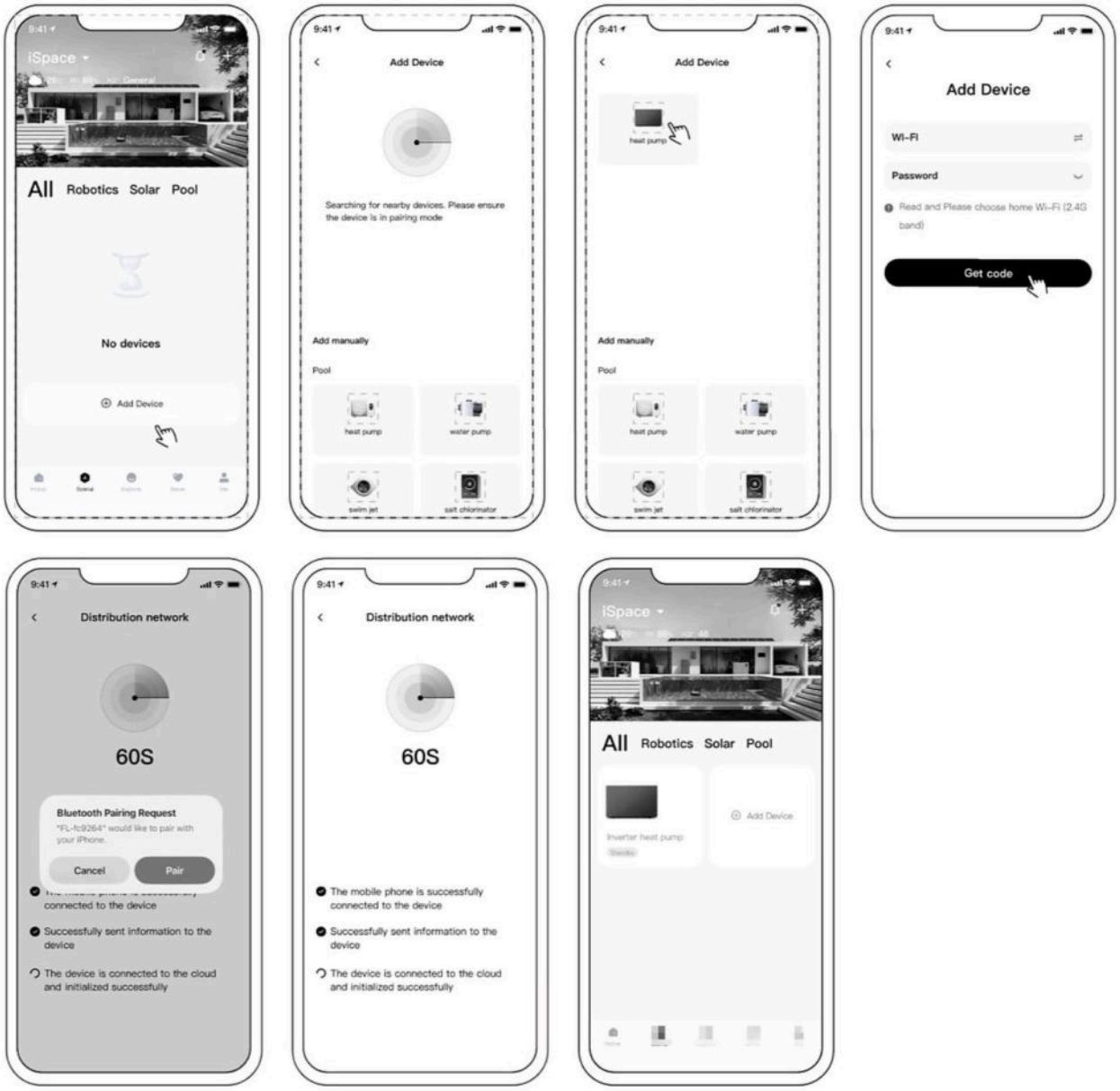
Before connecting, ensure your phone is connected to your home Wi-Fi network and Bluetooth is enabled. The router is configured for 2.4 GHz. Select the addition method that best suits your needs (Bluetooth is recommended).

2.1 Connect via Bluetooth

a) Ensure Bluetooth is enabled on your phone.

b) Activate Wi-Fi connection

Unlock the screen, then press and hold the power button for 5 seconds while the device is powered on. The Wi-Fi indicator will flash, and the device will enter Wi-Fi pairing mode.

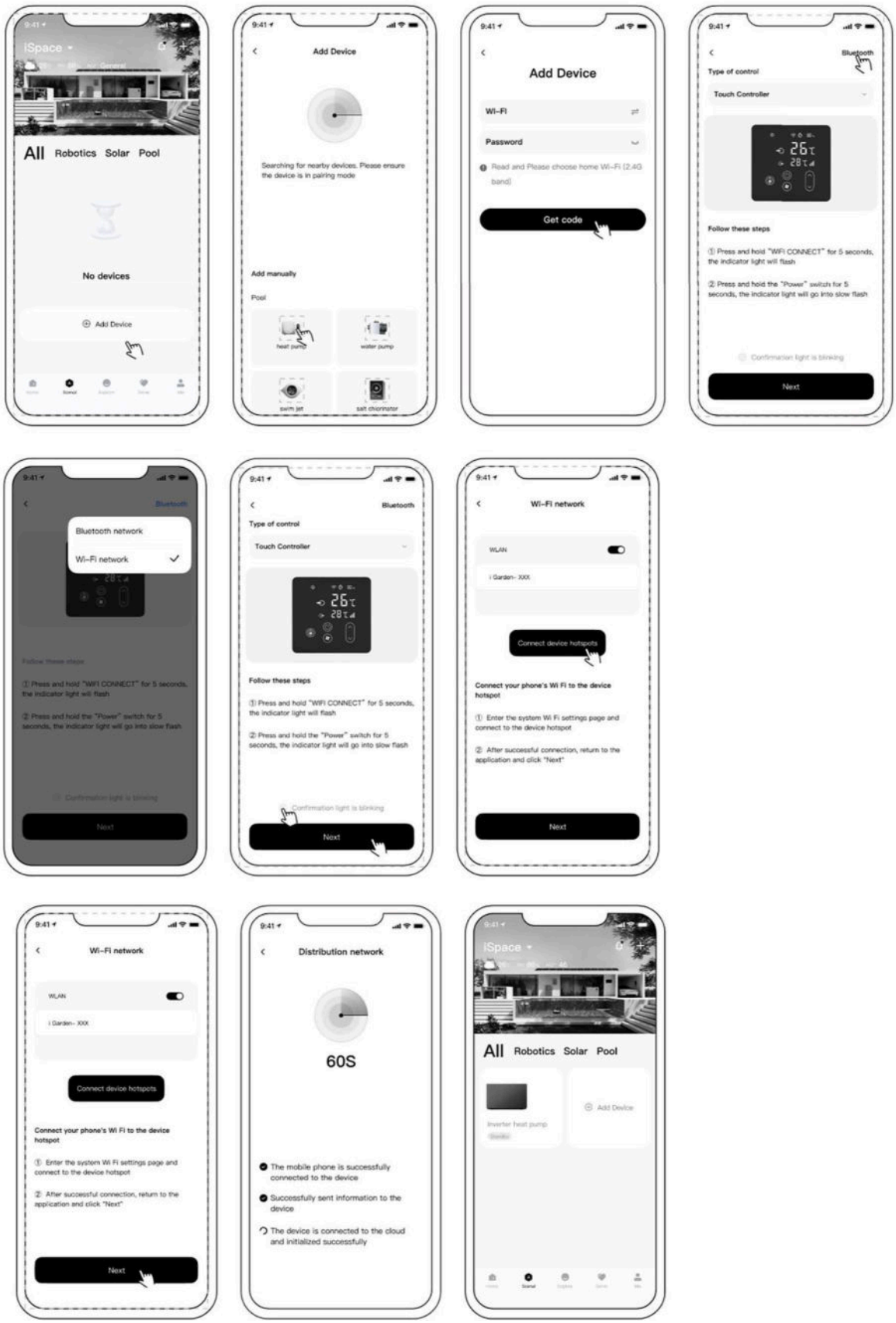


2.2 Connect via hotspot

a) Activate Wi-Fi connection

Unlock the screen, then press and hold the power button for 5 seconds while the device is powered on. The Wi-Fi indicator will flash, and the device will enter Wi-Fi pairing mode.

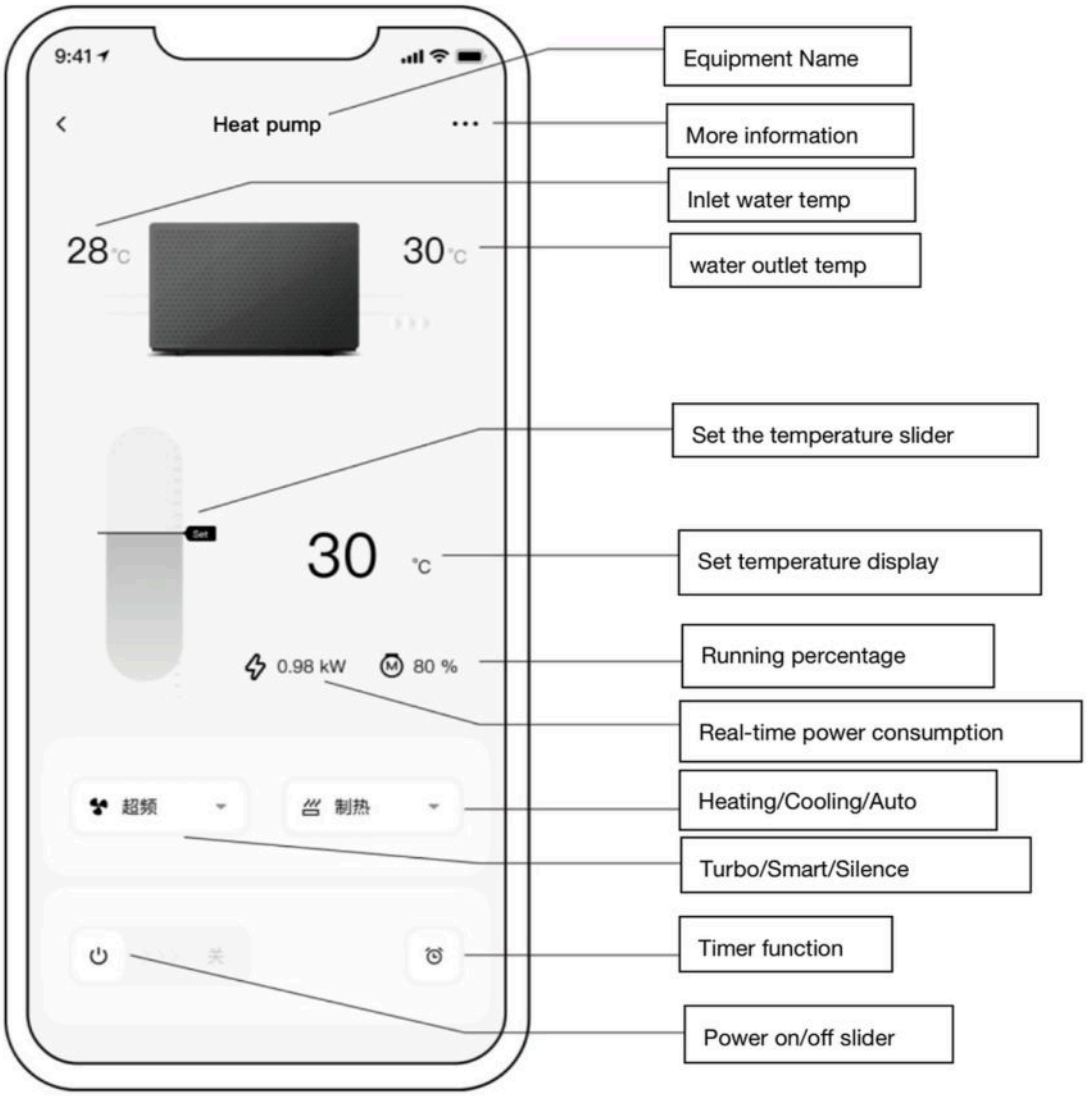
b) Please open the app and connect the device to the network as shown in the image below.



Note: If you have connected to a hotspot, return to the app and click “Next.”

3. Operating Instructions

Below is the app's control interface. Please read it carefully.



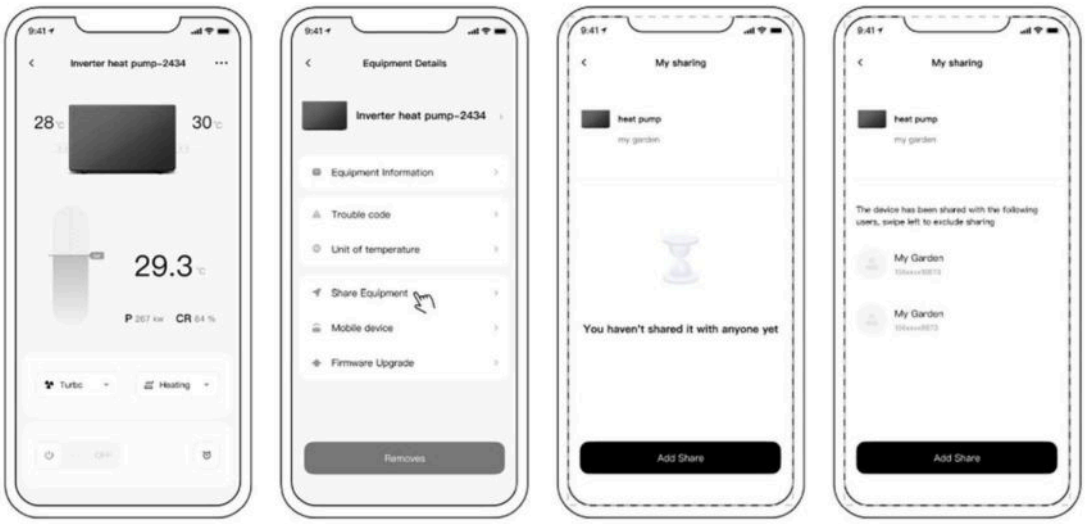
Note:

1) If your heat pump is heating-only, the auto heating/cooling and cooling functions are unavailable.

2) Please refer to your user manual to confirm whether your heat pump features an overclocking mode and real-time power consumption display.

4. Share Device

After connecting, if other family members wish to control this device, please have them register in the app first. The administrator can then follow these steps (the images below are for reference only):



Then, once your family members log in to the app and accept the invitation, they will be able to operate the device.

Note: The app interface may be updated at any time without prior notice.

Manufacturer's Warranty

VPro-X Heat Pump Warranty

This manufacturer’s warranty is provided by Supreme Solar Pty Ltd, trading as Supreme Heating. It is provided in addition to your rights and remedies under the Australian Consumer Law.

Australian Consumer Law

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure. This warranty is provided in addition to, and does not limit or replace, your rights under the Australian Consumer Law.

Warranty Period

Component	Warranty Period
Titanium Heat Exchanger (Against Corrosion)	30 Years
Heat Exchanger Casing	2 Years
Compressor	15 Years
Parts	7 Years
Installation Workmanship	12 Months
Demonstration / Refurbished Units	12 Months

Warranty Coverage

During the applicable warranty period, Supreme Solar Pty Ltd warrants that the that the heat pump will be free from defects in materials and workmanship when installed, operated and maintained in accordance with this manual.

Where a valid warranty claim is accepted, Supreme Solar Pty Ltd may, at its discretion:

- repair the product;
- replace the defective component;
- replace the product with an equivalent model; or
- reimburse the reasonable cost of an approved repair.

Labour Warranty

Installation workmanship and in-field labour are covered for a period of 12 months where installation has been completed by Supreme Heating or an authorised installer. Labour, travel and freight costs incurred after the labour warranty period are the responsibility of the original purchaser unless otherwise required under the Australian Consumer Law.

Warranty Exclusions

- Misuse, abuse, neglect or accidental damage.
- Incorrect installation or installation by an unqualified person.
- Failure to follow installation, operation or maintenance instructions.
- Poor pool or spa water chemistry.
- Vermin or insect infestation.
- Lightning, flood, fire or other natural events.
- Corrosion caused by environmental conditions.
- Unauthorised repairs or modifications.
- Damage during transport after delivery.
- Routine maintenance items.
- No Fault Found service calls.
- Labour, travel and freight costs outside the stated labour warranty period.

Owner Responsibilities

The owner is responsible for ensuring the heat pump is correctly installed, operated and maintained in accordance with this manual and that recommended pool water chemistry is maintained. Failure to maintain the product in accordance with this manual may void this warranty.

Making a Warranty Claim

If you believe your product has developed a fault covered by this warranty, contact your original supplier or Supreme Heating as soon as the fault becomes apparent. To assist with processing your claim, you may be asked to provide:

- proof of purchase
- installation date
- model and serial number
- description of the fault
- photographs if requested

Contact

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A trading name of Supreme Solar Pty Ltd

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Bundoora VIC 3083 Australia
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