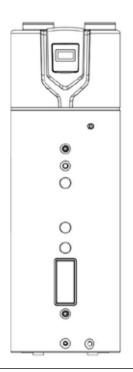
# All in one type heat pump water heater Installation and owner's manual



Thank you very much for purchasing our product. Before using your unit, please read this manual carefully and keep it for future reference.

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The heat pump unit is required reliable earthing connection before usage; otherwise it might cause death or injury.

If you cannot confirm that your house power supply is earthed well, please do not install the unit before carefully check it.

Please have a qualified person to check the reliable earthing connection and install the unit.

Examples of a qualified person include: Licensed plumbers, Authorized electric company personnel, and Authorized service personnel.

# 1. Safety information

Please carefully read thoroughly all of the instructions before installing or operating the unit. Following safety symbols are very important, please carefully read and always obey all safety symbols.

	It maybe cause that people is injured if not obey the instructions.	
WARNING	It maybe cause that people is seriously injured or killed if not obey the instructions.	
	It maybe cause that people is seriously injured or killed immediately if not obey the instructions.	

# WARNING

- The unit must be earthed effectively and reliably.
- A residual current operated circuit-breaker (RCCB) must be installed adjacent to the power supply.
- Do not remove, cover or deface any permanent instructions, labels or the data labels from either the outside of the unit or inside of unit panels.
- Only the qualified person can perform the installation of this unit in accordance with local national regulations and this installation manual. Improper installation may result in water leakage, electric shock or fire.
- Only the qualified person can relocate, repair and maintain the unit. Improper installation and repairing may result in water leakage, electric shock or fire.
- Electric connection work should obey the instructions of local power company, local electric utility and this manual.
- Never use the wire and fuse with wrong rated current, otherwise unit may breakdown and cause fire furthermore.
- Do not insert fingers, rods or other objects into the air inlet or outlet. When the fan is rotating at high speed, it will cause injury.
- Never use a flammable spray such as hair spray, lacquer paint near the unit, because it may cause a fire.
- The heat pump unit 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 unit by a person responsible for their safety. Children should be supervised to ensure that they do not play with the unit.
- Once the power supply cord is damaged, it must be replaced by service agent or the manufacturer or a similarly qualified person.
- Do not dispose this unit as unsorted municipal waste. Collection of such waste separately for special treatment is necessary.



Do not dispose of electrical appliances as unsorted municipal waste, use separate collection facilities. Please contact local government for information regarding the collection systems available.

If electrical appliances are dispassed of the landfills or dumps, hazardous substances can leak into the groundwater and get into the food chain, damaging your health and well-being.

- The ground wire's pole of socket must be grounded well, make sure that power supply socket and plug are enough dry and connected well.
- To check the power supply socket and plug are qualified -

Step 1: Turn on the power supply.

- Step 2: Keep the unit running for a half hour.
- Step 3: Turn off the power supply and plug out.

Step 4: Check whether the socket and plug is hot or not.

- Before cleaning, be sure to stop the operation and turn the breaker off or pull out the power supply plug. Otherwise, an electric shock and injury may be caused.
- Produced hot water temperature can reach over 50°C. It can cause severe burns instantly or death form scalds. Children, disabled and elderly persons are at highest risk of being scalded. Feel water is necessary before bathing or showering. So, water temperature limiting valves are recommended.



- Do not operate the unit with a wet hand; otherwise, an electric shock may be caused.
- The installation height of power supply should be over 1.8m, if there is any water spattered, separate the power supply from water.
- It is normal if some water drops from the hole of PTR valve during operation. But if there is a great amount of water, call the service agent for instruction.

After a long term use, check the unit base and fittings. If damaged, the unit may sink and result in injury.

- Arrange the drain pipe to ensure smooth draining. Improper drainage work may cause wetting of the building, furniture, etc.
- Do not touch the inner parts of the controller. Do not remove the front panel. Some parts inside are dangerous to touch, otherwise the unit malfunction may be caused.
- Do not turn off the power supply. System will stop or restart heating automatically during the standby mode. A continuous power supply for the unit is necessary, except service and maintenance.
- If the unit has not been used for a long period of time (2 weeks or more), hydrogen gas will be produced in the water piping system.
- Hydrogen gas is extremely flammable. To reduce the risk of injury under these conditions, it is recommended that open the hot water tap for several minutes at the kitchen sink before using any electrical appliance connected to the hot water system. When hydrogen is present, there will probably be an unusual sound such as air escaping through the pipe as the water begins to flow. There should be no smoking or open flame near the tap at the time it is open.

# 2. Preparations of installation

2.1 Transport

- In order to avoid scratch or deformation of the unit surface, please use guard boards to contacting surface.
- No contact of fingers and other things with the vanes.
- Do not incline the unit more than 45° to move. When install the unit, please keep the unit vertical.



Because the unit is very heavy, it needs two or more persons to carry the unit, and otherwise, it might cause injury and damage of the unit.

# 2.2 Packing list

Item	Quantity
Heat pump water heater	1
Installation & user manual	1
Relief valve(0.7MPa)	1

2.3 Installation site requirements

- Enough space for the unit installation and maintenance should be preserved.
- The surrounding of air inlet and outlet should be free from obstacles and strong wind.
- The base surface should be flat, surface should be inclined no more than 2° and able to bear the weight of the unit and suitable for installing the unit without increasing noise or vibration.
- The operation noise and air flow expelled shall not affect neighbors.
- No flammable gas is leaked nearby.
- It is convenient for piping and wiring.
- If it is installed in indoor space, it might cause indoor temperature decreased or noise. Please take preventive measures for this.
- If the unit has to be installed on a metal part of the building, make sure that the reliable electric insulation which should meet the relevant local electric standard.

# CAUTION

- The ambient air temperature must also be considered when installing this unit, in heat pump mode the ambient air temperature must be above -5°C and below 43°C. If the ambient air temperature falls outside these upper and lower limits, the electrical elements will be activated to meet the hot water demand and the heat pump does not operate.
- The unit should be located in an area not subject to freezing temperatures. The unit located in unconditioned space (garages, basements, etc.) may require the water piping condensate piping, and drain piping to be insulated to shelter against freezing.
- When installing the unit in the following places, it may lead to the malfunction of the unit: (If it is inevitable, please consult with the unit supplier.)
  - The place contains mineral oils, for example, lubricant of cutting machines.
  - Seaside where the air contains salt.
  - Hot spring area where there are some corrosive gases like sulfide gas.
  - Factories where the high voltage power fluctuates seriously.
  - Inside a car or cabin.
  - The place with direct sunlight and other heat supplies. If it is not avoid, please install a covering or take other measurement.
  - Place where is contained by oil permeates like kitchen.
  - Strong electromagnetic wave surrounding.
    - he place filling with danger or flammation and the second se

he place filling with acid or alkali gases.

- The unit must be securely installed; otherwise some noise and shaking may be produced.
- Confirm that there is no any obstacle around the unit.
- If there is strong wind like seashore, please fix the unit in the place where is protected from the wind.

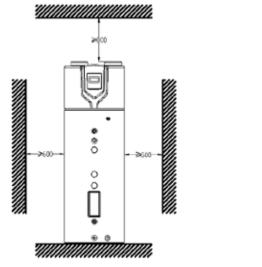
2.4 Maintenance space requirements

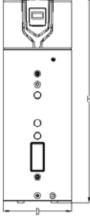


If the unit is installed in an enclosed space:

The heat pump unit must be placed in a space which is more than 15m,<sup>3</sup> and must have unrestricted air flow. For example, the space of the installed unit is one room with 2.5m height ceiling and with 3m length by 2m width.

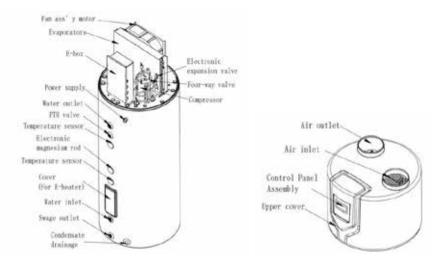
# 2.5 Unit dimension





Parameter	200L	300L
DiametrφD(mm)	640	640
High H(mm)	1800	2020

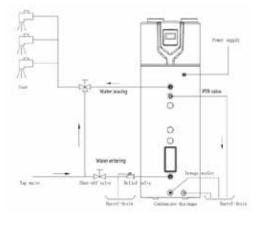
#### 2.6 Part names:



# 3. Installations

The circulating air flow of every unit should be more than 350m<sup>3</sup>/h. Please make sure that there is enough installation space.

3.1 Water system piping diagram



#### Notes:

- The PTR valve is only available for some models.
- (2) The temperature limiting valve is required on the hot water usage terminal.
- (3) The relief valve as assessory must be connected.Drainage pipe connected with the relief valve should be connected with atmosphere.
- (4) After all the pipes installed turn on the cold water inlet and hot water outlet to fill the tank. When there is water normally following out from water outlet, the tank is full. Turn off all valves and check all pipes. If any leakage, please repair.

#### CAUTION

- Water piping system as the above figure. When install the unit at a place where outside temperature below freezing point, the insulation must be provided for all hydraulic components.
- The handle of PTR valve should be pulled out once per half a year to confirm that there is no jam of the valve. At the same time, please take care of hot water from the valve and burning.
- The outlet drain pipe should be insulated well in order to prevent water which is kept inside the pipe from freezing in cold conditions.



#### WARNING

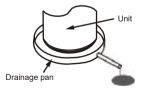
It will cause explosion and injury, if do not comply with the following instruction:

- Do not dismantle the PTR valve.
- Do not block off the outlet drain pipe.

The specifications of water inlet and outlet pipes as following:

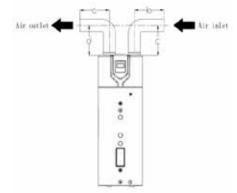
- Internal thread (DN15).
- Pipes must be heat-insulated well.
- Installation of the pipe of PTR valve's thread is RC3/4" (external thread). When finish the installation, it must be confirmed that the outlet drain pipe of the PTR valve is exposed in the air.
- The relief valve is necessary. It can prevent the supplied water from flowing backwards.

- After water system piping work, turn on the cold water inlet valve and hot water outlet valve and start effusing the tank. When water flow smoothly out from tap of water outlet, it means the tank is full. Please turn off all valves and check pipeline to make sure there is without any leakage.
- If the inlet water pressure is less than 0.15MPa, a pump should be installed at the water inlet pipe.
- For the safety usage of water tank at the condition of water supply pressure higher than 0.65MPa, a reducing valve should be installed at the water inlet pipe.
- Condensate may be leaked from the unit if condensate drainage pipe is blocked or it operates in high humidity environment, a drainage pan is recommended as shown as the following figure:

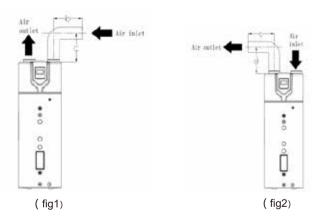


#### 3.2 Connection of duct

When the ducts of both air inlet and outlet, a+b+c+d≤8m.



- When the duct only air inlet, b+c≤8m.( fig1)
- When the duct only air outlet, a+d≤8m.( fig2)

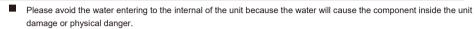


#### The duct specifications:

Duct type		Round duct
Dimensions		Φ180mm
Dracouro dran	Straight	≤2Pa/m
Pressure drop Bent		≤2Pa/m
Bent quantity		≤3

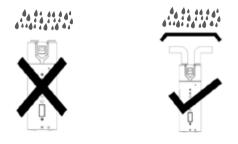
# NOTES

- When the air duct is connected, the unit capacity will be decreased because of the decreased air flow by the resistance of the duct.
- If the duct is connected, the duct total length should be not more than 8m, or the maximums static pressure should be within 15Pa. By the way, the quantity of bending should be not more than 3.
- When the unit with duct operates, condensate water will be generated around the out surface of the duct. So please wrap the thermal insulated layer around the duct.
- The unit should be installed in the indoor space, and it is not allow installing the unit at the rainy place.



WARNING

If the unit is connected with duct which is reaching to outdoor, it is necessary to supply a reliable water-resistant measure on the unit to prevent water dropping from outside to internal of the unit.



3.3 Condensate water drainage

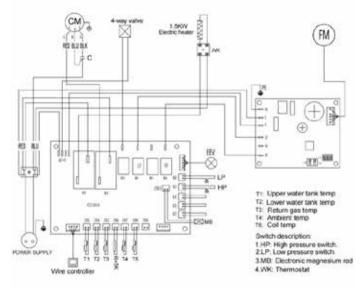
To smoothly drain the condensate water, please install the unit at a horizontal floor. At the same time, please ensure the drainage joint is at the lowest level. Recommending the inclination angle of the unit to the ground should be no more than 2°



8

# CAUTION

- The power supply should be an independent circuit with rated voltage.
- Power supply circuit should be earthed effectively. The wiring must be performed by professional technicians in according with nation wiring regulations and the unit circuit diagram.
- An all-pole disconnection device which has at least 3mm separation distance in all poles and a residual current device (RCD) with the rating of above 10mA shall be incorporated in the fixed wiring according to the national rules.
- Set the electric leakage protector according to the relevant electric technical standards of the state.
- The power supply cord and signal cord shall be laid out neatly and properly without mutual interference or contacting the connection pipes.
- After wires connection, check it again and make sure the correctness before power on.
- 3.4.1 Electric wiring diagram



3.4.2 Specifications of power supply

Power supply 220-240V~, 1Ph, 50H	
Min. diameter of power supply cord	1.5mm <sup>2</sup>
Earth cord	1.5mm <sup>2</sup>
Manual switch capacity / Fuse	40A / 30A
Creepage Breaker	30mA, ≤0.1Sec

- Please choose the power supply cord according to the above table, and it should comply with local electric standard.
- The power supply cord model, recommanded power supply cord is H05RN-F/H05RR-F.



#### WARNING

The unit must be installed with a creepage breaker near the power supply and must be effectively earthed.

#### 3.5 Installation checking

3.5.1 Location checking

- The flooring beneath the water heater must be able to support the weight of the unit when filled with water.
- Located indoors (such as a basement or garage) and in a vertical position. Sheltered from the freezing temperatures.
- Provisions made to shelter the area from water damage. Metal drain pan installed and piped to an adequate drain.
- Sufficient space to service the water heater.
- Sufficient air for the heat pump to function, the water heater must be located in a space which is more than 15m<sup>3</sup>, and must have unrestricted air flow.



# NOTES

For optimal efficiency and service ability, the following clearances should be maintained: 800mm on the air inlet side , 800mm on the air outlet side, 100mm in the back, and 600mm in the front.

- The unit cannot be placed into any type of closet or small enclosure.
- The site location must be free from any corrosive elements in the atmosphere such as sulfur, fluorine and chlorine. These elements are found in aerosol sprays, detergents, bleaches, cleaning solvents, air fresheners, paint and varnish removes, refrigerants and many other commercial and household products. In addition excessive dust and lint may affect the operation of the unit and require more frequent cleaning.
- The ambient air temperature must be above -5°C and below 43°C. If the ambient air temperature falls outside these upper and lower limits the electrical elements will be activated to meet the hot waterdemand.

3.5.2 Checking of the water system piping

- PTR valve (Temperature and pressure relief valve) properly installed with a discharge pipe run to an adequate drain and sheltered from freezing.
- All piping properly installed and free of leaks.
- Unit completely filled with water.
  - Water temperature limit valve or mixer tap (Recommanded) installed per manufacturer's instructions.
- 3.5.3 Checking of condensate drain pipe
  - Must be located with access to an adequate drain or condensate pump.
  - Condensate drain lines installed and piped to an adequate drain or condensate pump.

3.5.4 Checking of the electrical connections

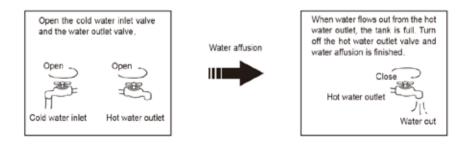
- The water heater requires 220-240VAC for proper operation.
- Wiring size and connections comply with all local applicable codes and the requirements of this manual.
- Water heater and electrical supply are properly grounded.
- Proper overload fuse or circuit breaker protection installed.
- 3.5.5 Post installation review
  - Understand how to use the controller to set the various parameters and functions.
  - Understand the importance of routine inspection/maintenance of the condensate drain pan and lines. This is to help prevent any possible drain line blockage resulting in the condensate drain pan overflowing.
  - IMPORTANCE: Water coming from the plastic shroud is an indicator that both condensation drain lines may be blocked. Immediate action is required.
  - To maintain optimal operation check, remove and clean the air filter.

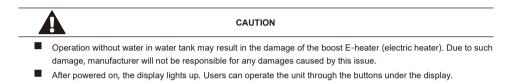
# 4. Trial-running

4.1 Water affusion before operation

If the unit is used for the first time or used again after emptying the water tank, please make sure that the tank is full of water before turning on the power.

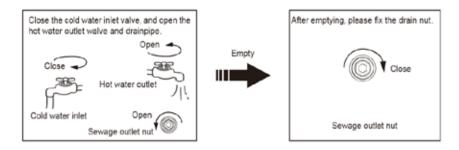
Method: please refer to the figure.





#### 4.2 Water emptying before cleaning

If the unit needs cleaning, moving, etc, the water tank should be emptied. Method: please refer to the figure.



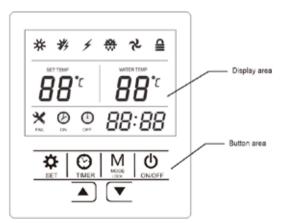
# 4.3 Trial-running

Checking list before commisioning:

- Correct installation of the system.
- Correct connection of the water/air and wiring.
- Condensate draining smoothly well insulation work for all hydraulic part.
- Correct power supply.
- No air in the water pipeline and all valves opened.
- Effective electric leakage protector installation.
- Sufficient inlet water pressure (Between 0.15MPa and 0.65Mpa).

# 5. Operation

5.1 Controller panel explanation



# 5.2 Explanation of icons

lcons	Explanation	Icons	Explanation
*	Heat pump mode	×	Malfunction icon.
*	Fast heating mode (heat pump + boost E-heater)		Timer on/Timer off icon.
4	Electric heater mode	88:88	Clock icon.
*	Defrost icon. Under the defrost mode, it will be lightened. Under the protection of the anti-freezing function, it will be flashed.	88°	The setting value of water temperature
な	Fan icon. It will be lightened, once the fan runs.	<b>~~</b> ~	The current value of water
4	Lock icon.	88.	temperature

After the unit is powered on, the display screen will display all the icons for 3 seconds, and it will be display the regular interface automatically.

# 5.3 Explanation of buttons

lcons	Name	Icons	Name
SET SET	Setting button	ON/OFF	On/Off
<b>W</b> TIMER	Timer button		Increase/up button
MODE LOCK	Mode button	•	Decrease/down button

#### 5.3.1 On/Off button

In the unit standby state, press this button for 2 seconds to switch on the unit. When the unit is running, press it for 2 seconds to shutdown the unit.

#### 5.3.2 Mode button

During the unit running, press mode button, and the unit will change the operating mode as following figure:



For these three mode, only under the heat pump mode, the boost electric heater will not be triggered.

#### 5.3.3 Set button

Press the set button, the running parameters of the unit will be display. Press the **A** and **V** buttons to change the parameter items.

Item	Explanation	Range of the parameter
А	Temperature of the lower water layer in tank	-20°C - 99°C
В	Temperature of the upper water layer in tank	-20°C - 99°C
С	Refrigerant temperature inside the coil	-20°C - 99°C
D	Suction temperature of the compressor	-20°C - 99°C
E	Outdoor ambient temperature	-20°C - 99°C
F	Running steps of the EXV	100 - 470
Н	Discharge temperature of the compressor	0°C - 125°C

#### 5.3.4 Timer button

Press the timer button to enter the clock setting state, and the icon BBBB will be flashed. Press the two buttons of  $\blacktriangle$  or  $\blacktriangledown$  to setting the hours and minutes of the clock.

Press the timer button for 5 seconds, the timer setting state will be entered. After press it for 5 seconds, the timer on icon and the hour of the clock will be flashed, and press  $\blacktriangle$  or  $\forall$  buttons to set the hour as you needed. Press the timer button again, the minutes will be flashed. With the same steps, set the minute.

After the clock setting of the Timer on, press the timer button to confirm the setting of the timer on. After pressing the timer button, the timer off icon will be flashed. Repeat the same steps, set the clock of the timer off. After the timer off setting, please press the timer button again to save the timer on and off setting, and exit the setting. When the timer on/off is already set, press the timer button, and the timer on/off will be canceled.

#### 5.3.5 Increase/up button and Decrease/down button

These two buttons is used when the temperature setting, the clock setting and parameters query. When the unit is running, press these two buttons together, and all the buttons will be locked. At the same time, the lock icon ≙ will be displayed. Press the two buttons together, the lock function will be canceled. Under the running state of the unit, the water setting temperature can be raised by pressing the increase/up button, while the water setting temperature can be lowered by pressing the Decrease/down button.

# 6. Troubleshooting

# 6.1 Non-error tips

- Q: Why compressor cannot start immediatedly after setting?
- A: Unit will wait for 3 minutes to balance the pressure of the refrigerant system before starting compressor agian. It is a self protection logic of the unit.
- Q: Why sometimes the temperature shown on the dispay decreased while unit is running ?
- A: When the temperature of layer water inside the tank is much higher than the bottom part, upper hot water will be mixed by the bottom cold water which is continually flow from the inlet tap water so that will decrease the water temperature of upper part.
- Q: Why sometimes the temperature shown on the display decreased but the unit still keeps off?
- A: To avoid the unit turning on/off frequently, the unit will activate heat pump only when the water temperature in the bottom of the tank is lower than the setting temperature.
- Q: Why sometimes the unit shows 'PA' on the display?
- A: The heat pump available running ambient temperature is from -7°C to 43°C. If the ambient temperature range is out of this range, the unit will show the PA to let user notice it.
- Q: Why sometimes there is some water flowed from drainage pipe of PTR valve? (When the unit with PTR valve)
- A: Because the water tank is pressure-bearable one, when water is heated inside the tank, water will expand, so the pressure inside the tank will increase. If the pressure goes up more than 1.0MPa, PTR valve will activate to relief the pressure and hot water drop will be discharged correspondingly. If water drop is continually discharged from PTR valve drainage pipe, it is abnormal, please contact qualified stuff to repair.
- 6.2 Something about self-protection of unit
  - When the self-protection happens, the unit will be stopped and start sef-check, and restart when the protection resolved.
  - In the following circumstance, self-protection may happen:
    - Air inlet or outlet is blocked;
      - The coil is covered with too much dust;

Incorrect power supply (Exceeding the range of 220-240V).

#### 6.3 Error phenomenon shooting

Error phenomenon	Possible reason	Solution
Cold water tapped	Bad connection between power supply plug and socket.	Plug in again.
out and display screen extinguished	Setting water temperature is too low.	Set the water temperature higher.
screen extinguished	Temperature sensor or PCB isbroken.	Contact service center.
	Public water supply is ceased.	Wait for water supply recover.
No hot water tapped out	Cold water inlet pressure is too low. (less than 0.15MPa)	Wait for inlet water pressure increase.
	Cold water inlet valve is closed.	Open the water inlet valve.
Water leakage Hydraulic pipeline joints are not sealed well.		Check and reseal all joints.

6.4 Error code shooting table

Code	Description	Corrective action
		① The connection is not well.
P01	P01 Lower water temperature sensor error	② The sensor is broken.
		③ The PCB is broken.
		① The connection is not well.
P02 Upper water temperature sensor error	② The sensor is broken.	
		③ The PCB is broken.

Code	Description	Corrective action
		① The connection is not well.
P03	Coil temperature sensor error	② The sensor is broken.
		③ The PCB is broken.
		① The connection is not well.
P04	Suction temperature sensor error	② The sensor is broken.
		③ The PCB is broken.
		① The connection is not well.
P05	Outdoor ambient temperature sensor error	② The sensor is broken.
		③ The PCB is broken.
P06	Anti-freezing protection	This protection is normal. The unit which is under standby state will trigger this protection when the water tank sensor detects the water temperature is lower than 5°C.
		① The connection is not well.
P07	Discharge temperature sensor error	② The sensor is broken.
		③ The PCB is broken.
		① The high pressure swtich connection is not well.
	High pressure protection	② The pressure switch is broken.
E01		③ The refrigerant system is block.
		④ The refrigerant is too much.
		⑤ The PCB is broken.
		① The low pressure swtich connection is not well.
		② The pressure switch is broken.
E02	High pressure protection	③ The refrigerant system is block.
EUZ	Fight pressure protection	④ leakage in the refrigerant system.
		⑤ The refrigerant is not enough.
		6 The PCB is broken.
		① The E-heater protector's connection is not well.
		② The protector is broken.
E03	Over-heat protection	③ The E-heater is broken.
		④ The PCB is broken.
		① The discharge temperature sensor connection is not well
		<ol> <li>The discharge temperature sensor is broken.</li> </ol>
E04	Over-high protection of discharge temperature	③ The refrigerant system is block.
		<ul><li>④ The refrigerant is too much.</li></ul>
		(5) The PCB is broken.
PA	It is normal and no need repair. The heat pump available running ambient temperature is from -7°C to 43°C. If the ambient temperature is out of this range, the unit will show the PA to let user notice it. During this period, the boost electrical heater can be used.	
		① The connection between PCB and controller is not well.
E08	Communication error	<ol> <li>The controller is broken.</li> </ol>
		③ The PCB is block.

# NOTE

- The diagnostic codes listed above are the most common. If a diagnostic code not listed above is displayed, please contact residential technical assistance.
- If any of E01/E02/E04 continuously appear 3 times within 30 minutes, the unit will consider it as heat pump system error, and the unit will stop running. The unit will run until the power supply is reset.

# 7. Maintenance

7.1 Maintenance

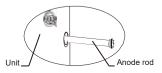
- Check the connection between power supply plug, socket and ground wiring regularly.
- In some cold area (blow 0°C), if the unit will be stopped for a long time, all the water should be released in case of freezing of inner tank and damage of boost electric heater.
- It is recommended to clean the inner tank and boost E-heater every half year to keep an efficient performance.
- Check the anode rod every half year and change it, if it has been used out. For more details, please contact the supplier or the after-sale service.
- It is recommended to set a lower temperature to decrease the heat release, prevent scale and save energy if the outlet water volume is sufficient.
- Clean the air filter every month in case of any inefficiency on the heating performance.
- Before shutting off the heat pump the system off for a long time, please:
  - Shut off the power supply;

Release all the water in the water tank and the pipeline. Close all the valves;

Check the inner components regularly.

#### 7.2 How to change the anode rod

- Turn off the power supply, and turn off the water inlet valve.
- Open hot water tap, and decrease the pressure of the inner tank.
- Open the drainage valve, and drain out the water, until there are no water flow out.
- Take out the anode rod.
- Replace it with a new one, and make sure effective sealed.
- Open cold water inlet tap untill water flows out from outlet tap then close water outlet tap.
- Power on and restart the unit.



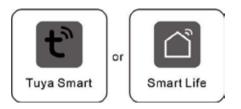
7.3 Recommended regular maintenance table

Item	Checking content	Check frequency	Action
1	Anode rod	Every 6 months	Replace it if it has been used out.
2	Inner tank	Every 6 months	Clean the tank.
3	Boost E-heater	Every 6 months	Clean E-heater.
4	PTR valve (If the unit with PTR valve)	Every 1 year	Operate the hander of the PTR valve to ensure that water can be flowed out.
		If water does not flow freely when operating the hander, replace PTR valve with a new one.	

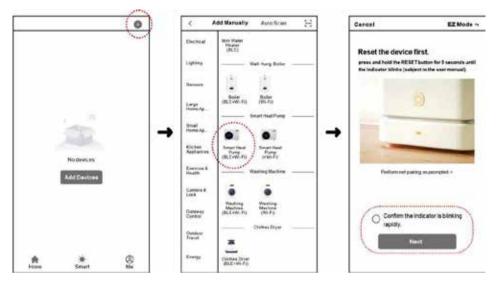
# 6. WIFI remote control (this function is only valid for some models with WIFI function)

#### Download APP

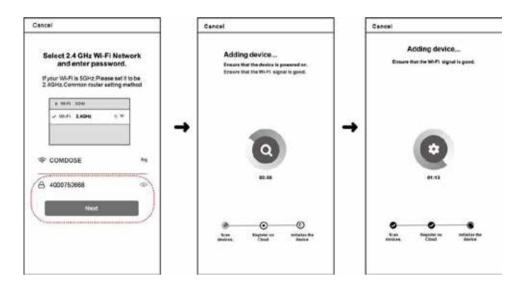
- 6.1 First ,enter the mobile phone's application store, download the "Tuya Smart" or " Smart Life" APP, and then run the APP after the download is complete .
- 6.2 .Turn on the Bluetooth function of the phone , the WIFI network needs to be in the 2 .4G band ( not the 5G band) and also ensure that the WIFI connection has a good signal;



- 6.3 Press and hold " ( "+" ( "5 seconds icon on the wire controller to enter the AP configuration network ,and the WiFi icon " 11 " on the wire controller will be flashes .
- 6.4 Turn On the APP, click the " 🔍 " in the upper right corner, then click "Large Home APP", and then click " connect the WIFI.Connect Wifi : Click " 🜒 " in the next interface to display the currently recognized WIFI name, then enter the PASSWORD of the current WIFI, and then click "NEXT".



6.5 Click to select "Confirm the indicator is blinking rapidly", and then click "NEXT", the APP will automatically search for the current UNIT, and it will show that the addition is successful after completion.



6.6 Enter the display interface of the current UNIT, click the "unit" device, you can view the water temperature and can set the set water temperature and mode of the device.

