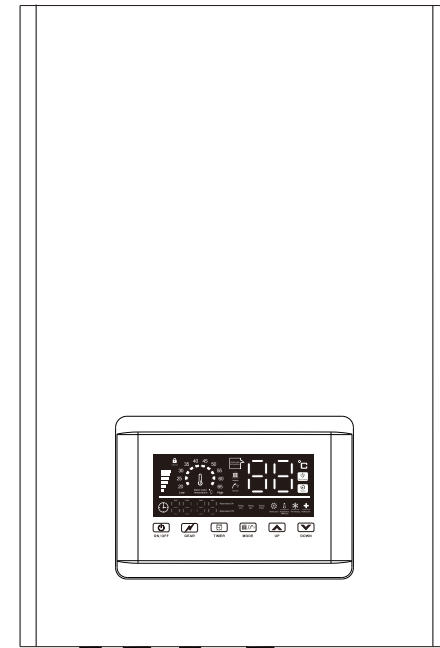


# Instant Electric Water Boiler

## Installation Instructions

This product is strictly prohibited to be installed outdoors or in unheated rooms



All the contents of this material have been carefully checked. If there is any printing mistake or misunderstanding, please consult our company. Product appearance/color shall be subject to change. The company shall not be responsible for any damage or loss caused by not using the product according to this manual.

Thank you for purchasing our products. Please read the installation instructions carefully before using them.



Electric Heating Furnace Product Warranty Card (Subcard)  
(Distributors Please keep them properly)

Customer name	
Phone number	
Address	
Products name	
Products number	
Purchase price	
Purchase date	year month day
Purchase address	
Manufacture date	year month day

Electric Heating Furnace Product Warranty Card (Subcard)  
(Distributors Please keep them properly)

Customer name	
Phone number	
Address	
Products name	
Products number	
Purchase price	
Purchase date	year month day
Purchase address	
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## Catalog

<b>Preface</b> .....	1
1. Installation and operation precautions.....	2
2. Technical parameters .....	3-4
3. Product function and description .....	5-6
4. Product appearance drawing .....	7
5. Product structure diagram.....	8
6. Product Installation drawings.....	9
7. 220V wiring diagram .....	10
8. 380V wiring diagram .....	11
9. Installation diagram of external heating system .....	12
10. Pre-installation debugging .....	13
11. Operational instructions .....	14
12. Wireless WIFI control process .....	15-16
13. Possible failures and troubleshooting .....	17
14. User service guide .....	18
Warranty card .....	19

Warranty Card for Electric Heating Furnace Products (Main Card)  
(Please save it properly by the user himself)

Product name		Inspector		Manufacture date	
Purchase address		Purchase date		Installer signature	
Maintenance of telephone		Products number		Customer signature	
Power cords	MM <sup>2</sup>	Check the line/ Electricmeter	<input type="checkbox"/> YES <input type="checkbox"/> NO	Text Machine	<input type="checkbox"/> YES <input type="checkbox"/> NO
<p align="center"><b>User's Notice for Repair</b></p> <p>1. Please fill in this form and submit it to the sales unit for seal and approval.I.</p> <p>2. Please keep the warranty card and the purchase ticket together as the warranty certificate. The following areas do not fall within the scope of free services;</p> <p>1) Over the validity period of the three-package service;</p> <p>2) Damage caused by failure to use, maintain and keep the product in accordance with the require ments of the instructions for use;</p> <p>3)The repairman who does not undertake the quality guarantee demolishes the damages without permission;</p> <p>4) Altering three packages of vouchers without authorization;</p> <p>5. The type or number of the product on the three-package certificate does not conform to the physical object of the commodity</p>					

## To Users

### Respected users:

Thank you for choosing the intelligent Instant Electric Water Boiler produced by our company. We are deeply honoured for this.

In order to get the best effect, please read the instructions carefully before installing and using this product, and install and use it as required. For the operations and precautions listed in the instruction.

To achieve the most comfortable and safe use effect, we should master it skillfully. Please keep this instruction properly for future reference.

The first installation and debugging of this product should be operated by professional and qualified personnel. Consumers should not install and debug themselves. (There may be some difference between illustrations and objects in this manual. When installing and using, please refer to the actual objects.)

## 14. User service guide

"Integrity, hard work, innovation, win-win" is our company's service purpose. When you need it, please contact. Our company distributors, special repair points or direct contact with our company, we will serve you wholeheartedly. In order to serve you better, please pay attention to the following matters:

1. When purchasing this product, please ask the sales unit to fill in three packages of vouchers carefully, stamp the official seal and keep them properly for after-sales service vouchers. The user can change the new machine in three months from the purchase because of the function quality problem of the product itself.
2. Users will enjoy free warranty service due to the quality problems of the products themselves during the warranty period from the purchase. For products beyond the warranty period or damaged due to other reasons, our company gives maintenance and charges material costs and manual maintenance service fees, all accessories are not within the scope of warranty.
3. If one of the following happens, it will not enjoy free maintenance service during the warranty period, but it can only charge material cost and manual maintenance service fee.  
Failure caused by failure to install or use in accordance with the instructions.  
(2) Man-made damage caused by external causes such as falls and falls, and failure caused by self-disassembly.  
(3) There is no complete and clear "three-package certificate" product.

Products package list

Name	No.	Units
Electric water boiler machine	1	pcs
Expansion tube, screw	1	bag
Hangs board	2	pcs
Instruction book	1	pcs

## 13. Possible failures and troubleshooting

The Fault	Fault Analysis	Fault Factor	Solution
F0	Communication fault	1. The connection between the display screen and main PCB is loose 2. Display screen broken	1. Re-insert the wiring port 2. Replace the display screen
F2	Shower: inlet temperature sensor fault	1. Shower: inlet temperature sensor line is loose 2. Shower: inlet temperature sensor broken	1. Re-tighten the wiring port 2. Shower: Replace the inlet temperature sensor
E0	Pump fault	1. The water pump is running but no water flow 2. The water pump stuck 3. The water pump broken	1. Clean and replace the water flow switch 2. Unscrew the water pump with a large flat-blade screwdriver Large slotted screw for front sign, working Tighten the screws after normal 3. Replace the water pump
E1	Leakage fault	Leakage	Call after-sales service
E2	Shower: outlet over-temperature fault	1. Shower: Outlet temperature is too high 2. Shower: Water flow is too low 3. Shower: Pipe blockage	1. Shower: Reduce outlet water temperature and reduce the gear power 2. Shower: Increase water flow 3. Shower: Clear filter
E3	Shower: outlet temperature sensor fault	1. Shower: Outlet temperature sensor line is loose 2. Shower: Outlet temperature sensor broken	1. Shower: Re-tighten the wiring port 2. Shower: Replace the outlet temperature sensor
E4	Water pressure sensor fault	1. Water pressure too small or too large 2. The wiring of the water pressure switch wiring is loose 3. The water pressure switch broken	1. Adjust the water pressure within 0.05-0.3MPa 2. Re-insert the wiring port 3. Replace the water pressure switch
E5	Heating: outlet over-temperature fault	1. Heating: Outlet temperature it too high 2. Heating: Water flow is too low 3. Heating: Pipe blockage 4. There is a lot of air in the heating water system 5. Heating: over-temperature small thermostat wire is loose 6. Heating: over-temperature small thermostat broken	1. Heating: Reduce outlet water temperature and reduce the gear power 2. Heating: Increase water flow 3. Heating: Clear filter 4. Open the exhaust valve to exhaust the air 5. Heating: Re-insert the wiring port 6. Heating: Replace the over-temperature small thermostat
E6	Heating: outlet temperature sensor fault	1. Heating: inlet temperature sensor line is loose 2. Shower: inlet temperature sensor broken	1. Heating: Re-tighten the wiring port 2. Heating: Replace the inlet temperature sensor
E7	Heating: inlet temperature sensor fault	1. Heating: Outlet temperature sensor line is loose 2. Heating: Outlet temperature sensor broken	1. Heating: Re-tighten the wiring port 2. Heating: Replace the outlet temperature sensor
E8	Call after-sales service	/	/
E9	Freeze protection fault	Frozen pipes	Manual thawing (air conditioners, heaters, boiling water, etc. thaw pipes)

## 1. Installation and operation precautions

1. Installation of this product must be done by professionals.
2. This product is strictly prohibited to be installed outdoors or in idle rooms.
3. There must be reliable and effective grounding conductors. And access to the product equipped with power supply before leakage-proof circuit breaker. Copper core conductors must be equipped, and the cross-sectional area matches its power, voltage and current. The household power is greater than the local power requirement.
4. The external power supply must be connected with qualified leakage-proof switch or DZ series air switch. **Common switches or sockets are strictly prohibited.**
5. For the Power cable and Electricity , please install it according to the requirements in the P3-P4 technical data sheet.
6. When you first install or replace the water system, please debug according to the method of "pre installation debugging".
7. After installation, the system must be filled with water and exhausted air before the test machine can be turned on.
8. If the wall-mounted furnace needs power cut because of long-term unattended use, it must drain the water in the heating system before it can be power cut, in order to prevent the water from freezing and expanding to damage the product and heating system equipment.



Note Antifreeze

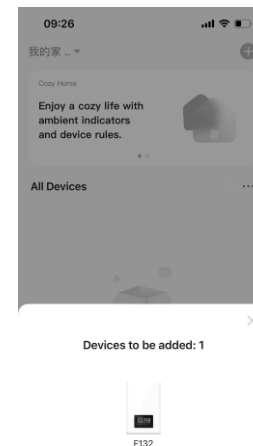
The system has anti-freezing mode, when the tap water may freeze, the anti-freezing mode is activated; when the machine temperature is lower than the anti-freezing start-up temperature, start-up heating; when the temperature reaches 10 degrees Celsius, stop heating.

## 2. Technical parameters

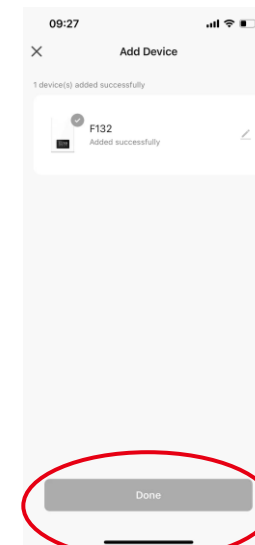
Technical parameter table of CD13(water boiler) single-function : Heating

NO.	Voltage	Rated power	Copper core wire	Rated power	Air switch	Heating area	Product model
1	220V	4kW	≥2.5mm <sup>2</sup>	18.18A	≥32A	≤40m <sup>2</sup>	CD13-2204D
2		6kW	≥4mm <sup>2</sup>	27.27A	≥40A	≤60m <sup>2</sup>	CD13-2206D
3		8kW	≥6mm <sup>2</sup>	36.36A	≥60A	≤80m <sup>2</sup>	CD13-2208D
4		10kW	≥10mm <sup>2</sup>	45.45A	≥60A	≤90m <sup>2</sup>	CD13-22010D
5		12kW	≥10mm <sup>2</sup>	54.55A	≥60A	≤100m <sup>2</sup>	CD13-22012D
6	380V	6kW	≥3*1.5mm <sup>2</sup>	3*9.09A	≥3*20A	≤60m <sup>2</sup>	CD13-3806D
7		8kW	≥3*1.5mm <sup>2</sup>	3*12.12A	≥3*20A	≤80m <sup>2</sup>	CD13-3808D
8		10kW	≥3*2.5mm <sup>2</sup>	3*15.15A	≥3*20A	≤90m <sup>2</sup>	CD13-38010D
9		12kW	≥3*2.5mm <sup>2</sup>	3*18.18A	≥3*40A	≤100m <sup>2</sup>	CD13-38012D
10		16kW	≥3*4mm <sup>2</sup>	3*24.24A	≥3*40A	≤120m <sup>2</sup>	CD13-38016D
11		20kW	≥3*6mm <sup>2</sup>	3*30.30A	≥3*60A	≤140m <sup>2</sup>	CD13-38020D
12		24kW	≥3*6mm <sup>2</sup>	3*36.36A	≥3*60A	≤160m <sup>2</sup>	CD13-38024D
Heating temperature range: 30-75℃							
Heating water pressure range: 0.05-0.3MPa							
Heating pipe size: G3/4							
the above data are for reference.							

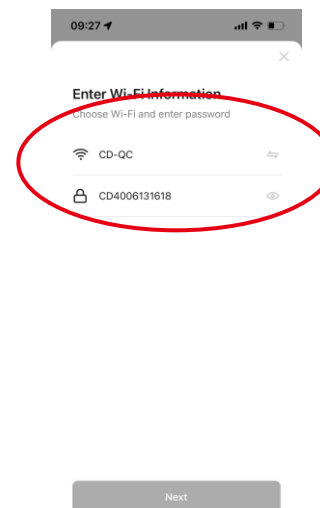
4)Click to add



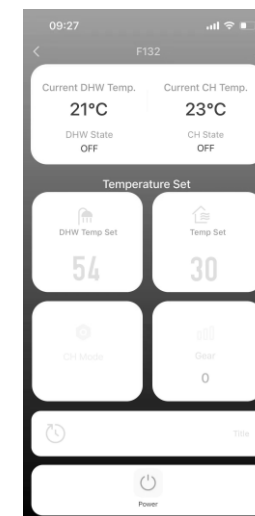
5)Click to Done



6)Select WiFi and enter password



6)Connection successful



If the connection is unsuccessful, hold the power button for 5 seconds, clear the WiFi matching settings and re-enter the configuration state.

# 12.Wireless WIFI control process

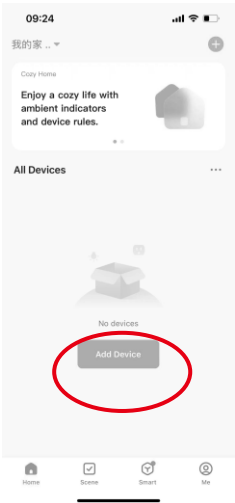
## 1) Mobile Scanning 2-D Code Download APP Intelligent Life



## 2)Turn on Bluetooth on your phone



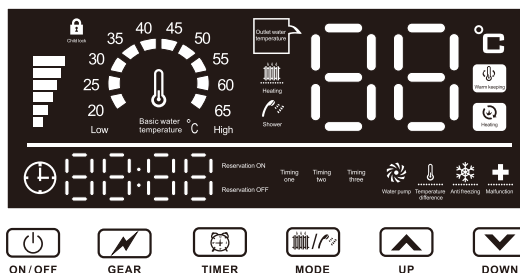
## 3)Click to add device



Technical parameter table of CD13(water boiler) Combination function : Heating AND Shower

NO.	Voltage	Rated power	Copper core wire	Rated power	Air switch	Heating area	Product model
1	220V	4kW	≥2.5mm <sup>2</sup>	18.18A	≥32A	≤40m <sup>2</sup>	CD13-2204S
2		6kW	≥4mm <sup>2</sup>	27.27A	≥40A	≤60m <sup>2</sup>	CD13-2206S
3		8kW	≥6mm <sup>2</sup>	36.36A	≥60A	≤80m <sup>2</sup>	CD13-2208S
4		10kW	≥10mm <sup>2</sup>	45.45A	≥60A	≤90m <sup>2</sup>	CD13-22010S
5		12kW	≥10mm <sup>2</sup>	54.55A	≥60A	≤100m <sup>2</sup>	CD13-22012S
6	380V	6kW/6kW	≥3*1.5mm <sup>2</sup>	3*9.09A	≥3*20A	≤60m <sup>2</sup>	CD13-3806S
7		8kW/8kW	≥3*1.5mm <sup>2</sup>	3*12.12A	≥3*20A	≤80m <sup>2</sup>	CD13-3808S
8		10kW/10kW	≥3*2.5mm <sup>2</sup>	3*15.15A	≥3*20A	≤90m <sup>2</sup>	CD13-38010S
9		12kW/12kW	≥3*2.5mm <sup>2</sup>	3*18.18A	≥3*40A	≤100m <sup>2</sup>	CD13-38012S
10		16kW/12kW	≥3*4mm <sup>2</sup>	3*24.24A	≥3*40A	≤120m <sup>2</sup>	CD13-38016S
11		20kW/12kW	≥3*6mm <sup>2</sup>	3*30.30A	≥3*60A	≤140m <sup>2</sup>	CD13-38020S
12		24kW/12kW	≥3*6mm <sup>2</sup>	3*36.36A	≥3*60A	≤160m <sup>2</sup>	CD13-38024S
Heating temperature range: 30-75℃							
Shower temperature range: 25-55℃							
Heating water pressure range: 0.05-0.3MPa							
Shower water pressure range: 0.02-0.6MPa							
Heating pipe size: G3/4							
Shower pipe size: G1/2							
the above data are for reference.							

### 3.Product function and description



Key Operation Instructions		
PATTERN	NAME	ILLUSTRATION
	ON/OFF Key	1.Power-on state, each press is on or off. 2.Power-on state, long press ON/OFF button to enter the Child Lock or remove the Child Lock. 3.In shutdown state, press and hold the 15S ON/OFF button to restore the factory settings.
	Power Setting	1.Power-on state: short press to select the power adjustment, touch UP and Down key to adjust the gear. (In shower mode, if the temperature does not reach the setting, the gear can be raised. It is recommended to run in low gear in summer to save energy.) 2.Power on/off state: long press the power button for 5 seconds, press the mode button to select the heating/shower mode, the screen will display the highest power in the current mode, and limit the highest power of the current mode (press the up-down button to adjust the highest gear 1-6, press the on-off button confirm)
	Timer Button	1.Power off state: press the timer key to set Beijing time, current heating temperature and temperature difference.; 2.Power on state: Press the timer key to turn on or off the timer function. 3.Power-on state: Press and hold the timing button for 5 seconds to set the three-stage timing on/off time of the heating mode, the temperature and temperature difference in each time period, and press the on-off button to confirm.(When both the power-on and power-off time periods are 00:00, the timing function is disabled.)
	Mode button	1.Power-on state: Press the mode button to switch between heating and shower (when the water flow is started, it will automatically switch to shower mode, heating mode stops working; When the water flow is stopped, it will automatically switch to heating mode. )
	UP Key	1.Use with function keys: press to adjust the time, temperature, gear and other values; 2.Regardless of the switch status: long press the 5S UP key to view the water inlet temperature in the current mode.
	Down Key	1.Use with function keys: press to adjust the time, temperature, gear and other values; 2.Regardless of the switch status: long press the 5S UP key to view the water flow in the current mode.

### 11. Operational instructions

#### Other instructions

#### 1.Pump

A: To protect the heater: Turn on the water pump and run it for 30 seconds before starting the heating; turn off the heating water pump first and then stop it after a delay of 30 seconds.

B: Normal operation: After reaching the set temperature, the pump will be disconnected after a delay of 30 seconds.

C: Normal operation: The circulating pump works for 30 seconds in the heat preservation state and stops for 15 minutes, and circulates in this way; if it is detected that the outlet water temperature is lower than the "set temperature-temperature difference", the pump will be started immediately and then heated.

D: Protect the water pump from sticking: in the heating mode, the machine will stand by for 24 hours, and the water pump will automatically run for 30 seconds.

E: To protect the water pump: the water pump stops working when the water flow signal is not detected when the water pump is turned on for 30 seconds, and the E0 code is displayed.

#### 2.Heating

A: Heating mode: Heating to the set water temperature, stop heating, and reheat when it is detected to be lower than (set temperature - temperature difference), and the water temperature can be adjusted from 30 to 75 degrees.

B: Shower mode: 25-55°C can be adjusted according to user needs, and the set temperature can be maintained at a constant temperature.

#### 3.Freeze protection (power on)

A: First-level antifreeze: the temperature of the water outlet/return sensor detects that the temperature is lower than 5 degrees, the antifreeze icon is on, the system runs automatically, and the operation stops when the temperature is higher than 10 degrees, and the pump stops after a delay of 30 seconds;

B: Level 2 antifreeze, the system automatically runs for half an hour when the temperature is detected to be lower than 2 degrees.

4.Temperature difference: The temperature difference setting range is 5-20 degrees.

5.Screen saver: The screen saver will enter the screen saver without any operation for 15 minutes in the power-on state, and only display the Beijing time. Press any key to restore.



## 10. Pre-installation debugging

### Notes for debugging before use of the product

1. The first exhaust: After the electric water boiler is installed, it is forbidden to energize at this time. First, use the tap water pressure or use the water pump to inject water into the water supply port to exhaust the pipeline once through the external exhaust valve. Install an exhaust valve on the diverter and connect the exhaust pipe. When the water exhaust valve flows out of the solid water column, close the exhaust valve, and the exhaust valves of all water channels flow out of the solid water column to close the exhaust valve, and the exhaust is finished once.

2. Secondary exhaust: After the primary exhaust, the machine is powered on, adjusted to 0 gear, let the water pump run, and at the same time use the external exhaust valve for secondary exhaust. When the exhaust valves of all water circuits flow out of the solid water column, close the exhaust valves, and the secondary exhaust ends.

3. Third exhausts: After the second exhaust, turn the heating water boiler to 1 gear, set the temperature to 30 degrees Celsius, and work to keep warm (or 15 minutes). Then adjust heating water boiler to gear 2, set the temperature to 40 degrees Celsius, and work to keep warm (or 15 minutes). Then adjust heating water boiler to gear 3, set the temperature to 50 degrees Celsius, and work to keep warm (or 15 minutes). Then adjust heating water boiler to gear 4, set the temperature to 60 degrees Celsius, and work to keep warm (or 15 minutes). Then adjust heating water boiler to gear 5, set the temperature to 70 degrees Celsius, and work to keep warm (or 15 minutes). Then adjust heating water boiler to gear 6, set the temperature to 75 degrees Celsius, and work to keep warm (or 15 minutes). During the heating process from gear 1 to gear 6, a large amount of gas will be generated, which should be drained through the external exhaust valve and replenished in time. Pay attention to observe whether the heating furnace is working normally, such as the normal operation of the machine, close the water supply valve after the water supply is completed, shut down, and the installation and debugging are completed. After 3 exhausts, the machine can work normally. you can set any gear or run at any temperature. 3-4 gears are recommended, and the outlet water temperature is 55-70. The heating effect is better.

### Problems and Solutions Possible in Debugging Process

1. After the Machine is formally heated, the water outlet temperature rises rapidly to 60-80℃ in 30-seconds ,prove that waterways are closed or blocked or the air in the pipe is not cleaned.  
At this time should close the machine, re - exhaust and check the pipeline.
















2. Electric water boiler heating fast:  
After the Machine is formally heated, the water outlet temperature is shown to rise rapidly to 60-80 ℃ within 1-5 minutes ,and the machine will stop working. which prove that  
1)the water resistance is too large or  
2)the pipeline has part of the air or  
3)Insufficient pump lift  
Check whether all water passages are open and whether water passages are installed in parallel. This problem still exists after re-venting and checking the pipeline. It is proved that the pump head is not enough and additional heating water booster pump or hot water circulation pump is needed. (it is recommended that the heating area is larger than 100 m<sup>2</sup> or the length of a single pipe is longer than 120 m, assisted by an external heat pump. The heat pump shall be installed in the middle section of the circulating water circuit system, and shall not be installed in the inlet and outlet of the machine.)

3. Air switch trips after working for a period of time:  
Check whether the current load of the air switch meets the installation requirements of the power. If not, please replace the air switch (refer to the technical parameter table of this instruction).

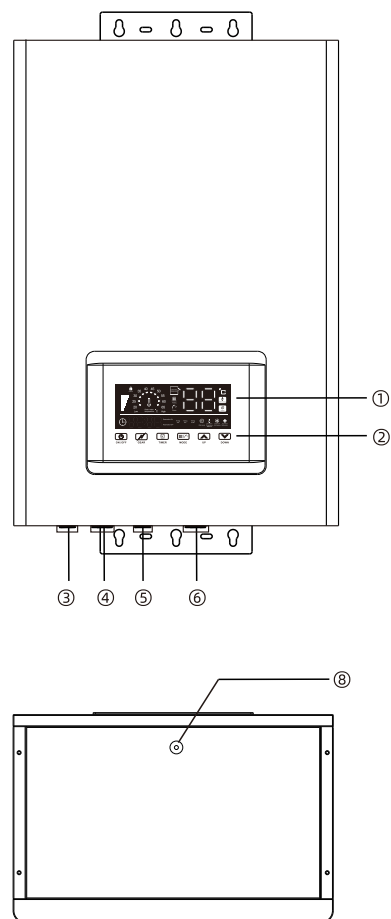
4. The air switch can't push the switch, or trips when it is pushed:  
The power line connection method is wrong or short circuit is formed. Check to confirm whether the connection is correct.

5. The machine works normally, but the room is not hot all the time.  
Measure whether the working current and voltage of the machine conform to the data of the parameter table and whether the three-phase electrical products are absent. If there is no problem with the circuit data, it proves that the room thermal insulation is not enough to replace more power products.

6. When the pressure of this product is lower than 0.5 bar, it shows "E4", and the electric water boiler machine will not be heated. At this time, it is necessary to increase the water pressure. The machine must operate within the water pressure range of 0.5-3 bar.

DISPLAY CONTENT		
ICON	NAME	DESCRIPTION
	Child Lock	The child lock status icon is always on, and the unlocked screen icon is off.
	Power column	Display the current heating furnace power usage status.
	Basic water temperature + thermometer icon	Always on, real-time display at 20-65℃, lower than 20℃ shows " low temperature ", higher than 65℃ shows " high temperature ".
	" 88 " icon	Normal display temperature. Display date when the date is adjusted. Display water flow when check water flow. Display fault code when meet fault Combination display of numbers and other function icons.
	Heating icon	It means the machine is working for heating.
	Shower icon	Displayed in Shower mode (some models or single-function Heating machine have no Shower function).
	Keeping warm	In the heating mode, the heat preservation with water flow lights up, and the heat preservation without water flow keeps flashing.
	Heating icon	The electric heater is heating, the screen will stay on. In the Shower mode, if the power is exhausted and the set power is still not reached, the icon will continue to flash.
	Long bar	Standby (or keep warm) state static display; Heating status will dynamic display.
	Time icon	The actual time is displayed normally, and the setting timing is to display the time to be set.
	Reservation ON Reservation OFF Timing one Timing two Timing three	Appointment On, Appointment Off, Timing 1, Timing 2, Timing 3 icon
	Pump icon	When the pump is always on, the pump is working normally, when the pump is off, the pump is not working, and the pump is faulty when flashing.
	Temperature difference icon	When the temperature difference is set, it is always on, and it is normally off.
	Anti freezing icon	The icon flashes when the antifreeze protection is activated, the antifreeze fails (the water temperature is lower than 2 degrees), and the antifreeze + fault code will lights up.
	Fault icon	When the electric water boiler fault: Fault function light + fault code + fault icon lights up

## 4.Product appearance drawing

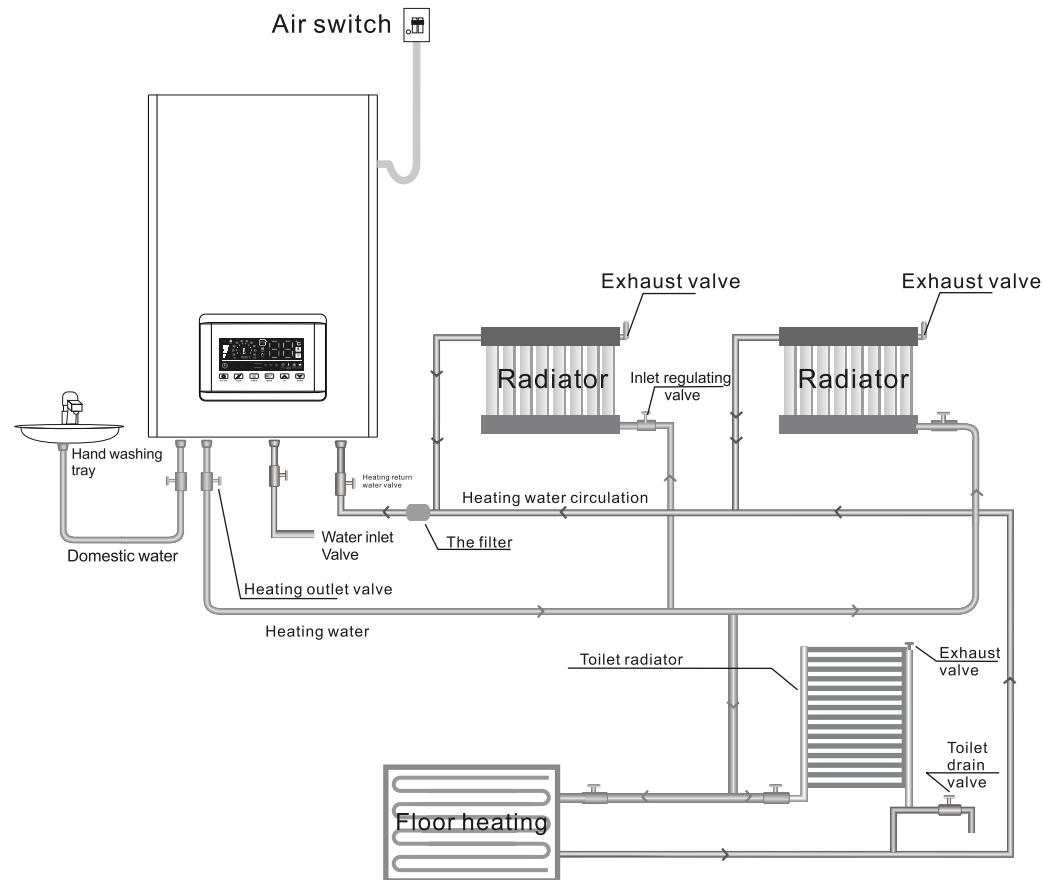


- ① LED Display Screen
- ② Functional Keys
- ③ Shower Hot Water Outlet
- ④ Heating Water Outlet
- ⑤ Tap Water
- ⑥ Return Port
- ⑦ Power Wire Access Port
- ⑧ Reset button for thermostat of shower

Product Size: 60\*40\*26cm (the above dimensions are for reference only)

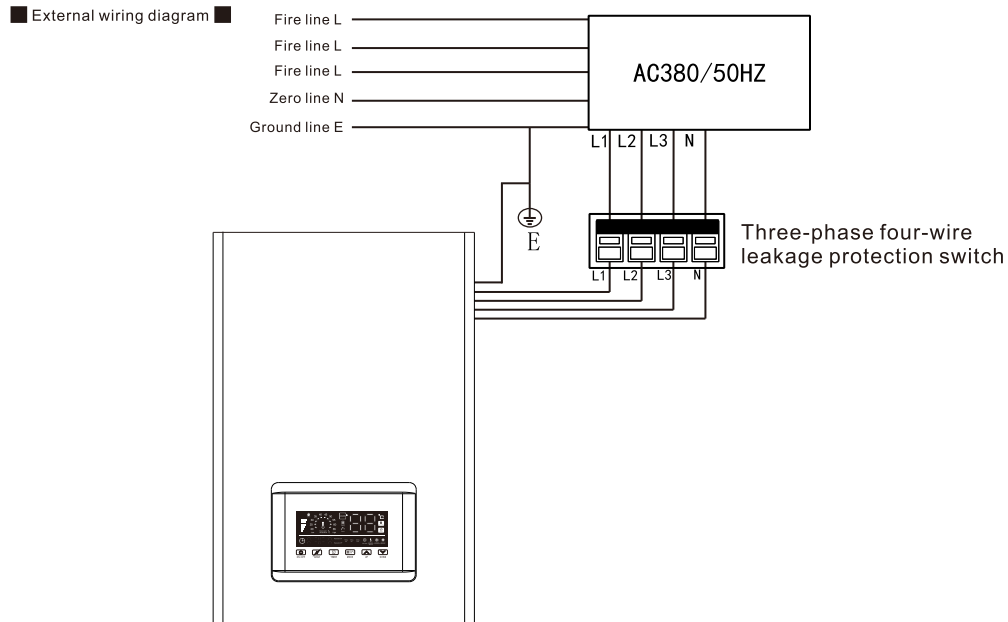
## 9.Installation diagram of external heating system

### Product Installation Diagram

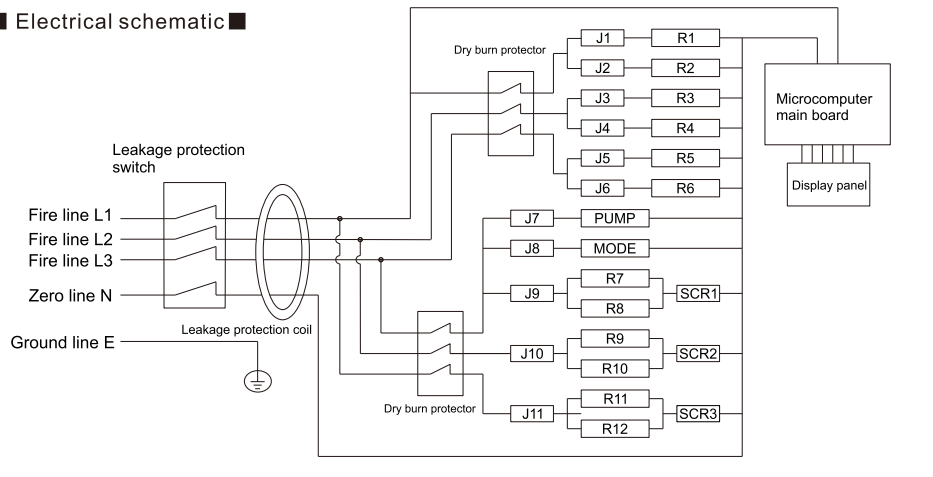


For reference only

## 8.380V wiring diagram

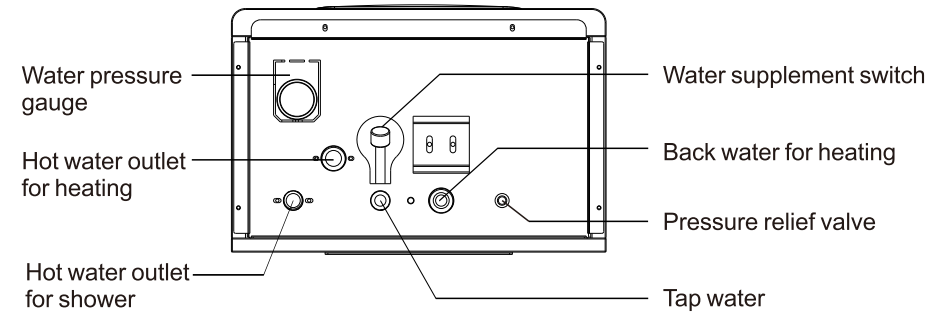
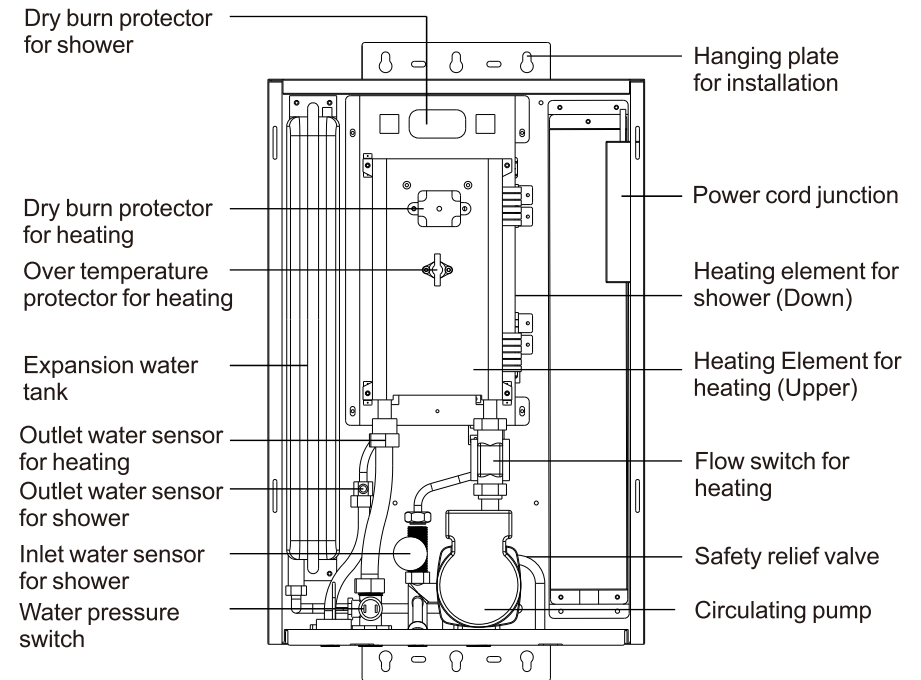


## ■ Electrical schematic ■



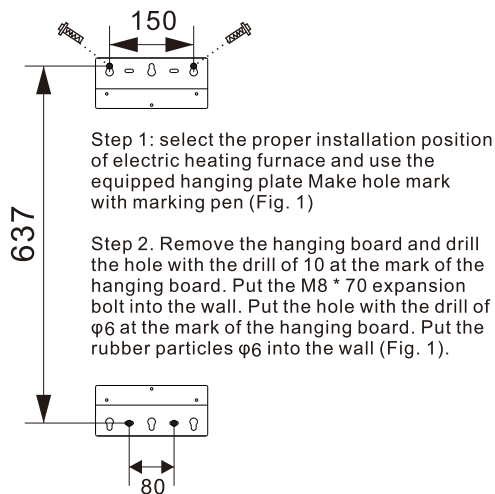
Note: Heating blocks may change according to power

## 5.Product structure diagram

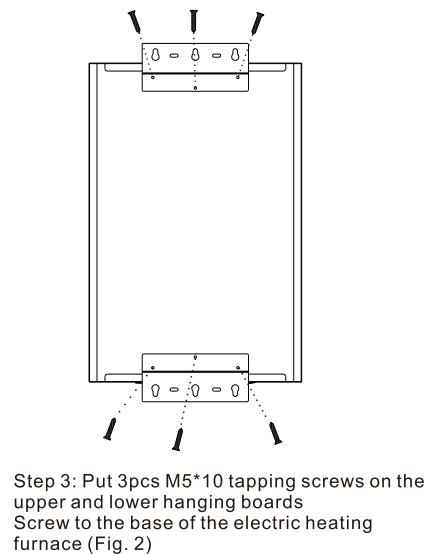


## 6.Product Installation drawings

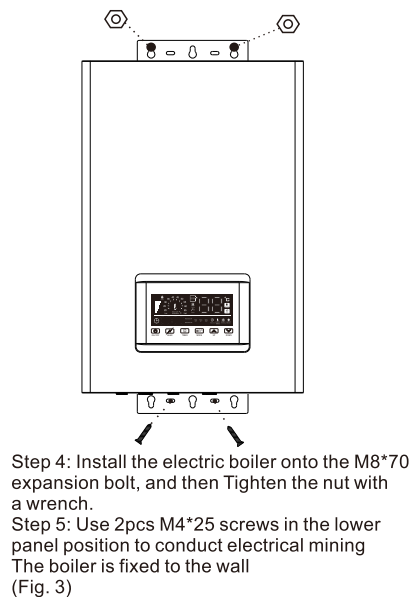
### 1) Location of punch



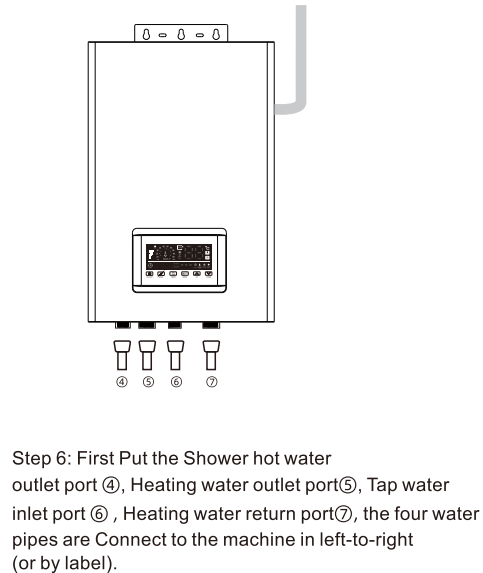
### 2) Fixing rail



### 3) Fixed Electric water boiler

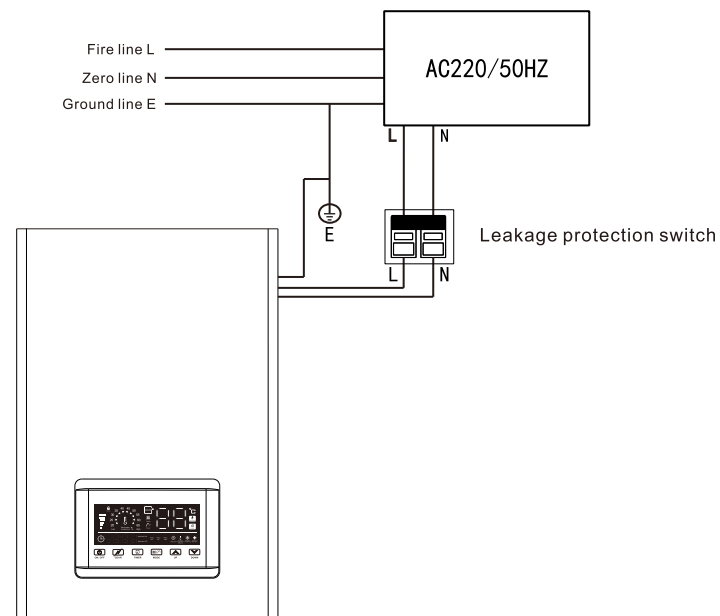


### 4)Connect water and electricity

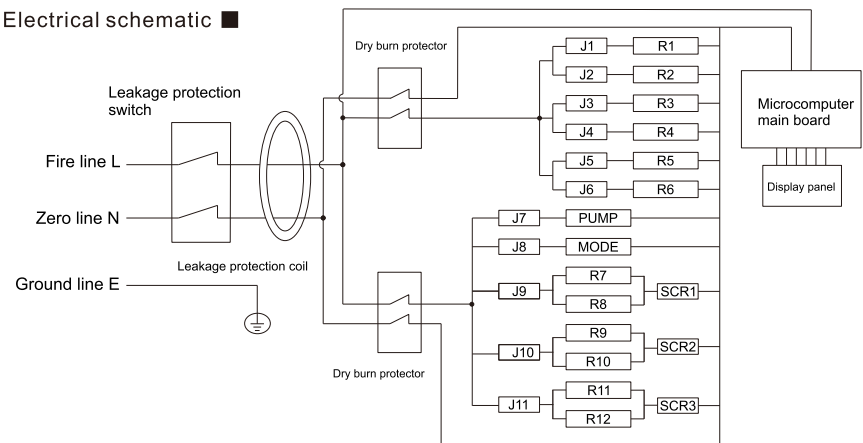


## 7.220V wiring diagram

### ■ External wiring diagram ■



### ■ Electrical schematic ■



**Note: Heating blocks may change according to power**