



Instant Electric Water Heater

PRODUCT SPECIFICATION >>
Please read this manual carefully before use

6. Matters needing attention

1. Before installation, please ask professionals to check the cable size of house, circuit breaker capacity, and capacity of electricity meter, ensuring all meets the installation requirement of water heater.
2. Water heater must be well grounded.
3. Maintenance of water heater must be done by professionals.
4. Do not use any socket converter or power strip for power connection.
5. Do not put flammable materials around the water heater.
6. Do not install the water heater outdoors. Just use it indoors only.
7. Please stop using the water heater in the environment $\leq 0^{\circ}\text{C}$.
8. Do not use acidic or alkaline detergent to clean water heater. Please use neutral detergent for scrub. Before scrubbing, the water heater needs to be disconnected from the power supply.

Special notes:
Due to the limitation of maximum power of water heater, if the inlet water temperature is low in winter, the outlet water temperature may not reach the setting temperature. Then please adjust water flow. Low flow rate leads to higher temperature. High flow rate leads to lower temperature.

7. Electrical schematic diagram

3. Main technical parameters of the product

Power	Voltage	Frequency	Wire Requirements	Trip Switch
4000W	AC 110V	50-60Hz	wire cross section 6mm ²	$\geq 40\text{A}$
6000W	AC 220V	50-60Hz	wire cross section 2.5mm ²	$\geq 32\text{A}$

Attention:
This product has certain requirements for the installation and use of circuits. To ensure safe use please have professional personnel check whether the wiring at home meets the requirements. The installation environment must be connected with reliable grounding wire.

Hot water temperature below is based on inlet water temperature of 12 degrees Celsius

Flow Rate	1-2L	2-3L	3-4L	4-5L	5-6L
4000W	50°C	40°C	34°C	29°C	26°C
6000W	55°C	51°C	42°C	36°C	32°C

It varies by region.

Water heater starts heating within 3 - 4 seconds while water is flowing. It takes around 15 - 20 seconds for the hot water temperature to become more stable. After water flow is turned off, the residual temperature inside the heating element is still rising due to the relatively small space inside it for slow heat dissipation. Such rise temperature is about 10 degrees Celsius increased based on the original temperature of hot water. When water flows again, temperature will be slightly warmer. And the hot water temperature will be stable after about 10 seconds.

1. Product overview and functional features

This series of products have advanced technology of flow control switch to ensure instant hot water supply or stop, power on or off. It's no electromagnetic radiation, but environmental friendly. It has automatic microcomputer control system and automatic fault detection function. Led screen displays working state which is convenient and worry free. Unnecessary thermal energy loss will be avoided due to instant heating, endless hot water capacity and no preheating required. In order to save energy and cost. Safety is ensured by multiple protection, such as double smart temperature control system, temperature excursion prevention, dry heating prevention and leakage protection.

2. Product dimensions

22. 3x6. 5x17. 5cm

Remarks:
In order to ensure product quality, each water heater will be tested before shipment. Therefore, it's normal that each product's inlet, outlet and package may contain a little water after testing. It's not a quality problem. We'll appreciate for your understanding.

4. Installation instructions

Kitchen, toilet, shower room, etc.
Wire cross section of house cable should be $> 4\text{ MP}$. The capacity of branch circuit breaker should be 40 A.

1. Choose a suitable location and mark it. The distance between the installation holes on the back of the water heater is 120 mm.
2. Electric drill (drill bit diameter 6mm), adjustable wrench, cross screwdriver, waterproof tape is needed for installation.
3. Please make installation and connection between water heater and water tubes in view of the installation diagram. After the installation of the water-way, please have water supply test.
4. Connect the live wire L (brown), neutral wire N (blue) and the grounding wire E (yellow / green) on the water heater power cord to wall switch or circuit breaker. Before connection, please disconnect the power.
5. After finish of installation, run the water first, then the electricity if the water heater can heat properly, then installation is completed.

5. Instructions for use

- ② Exchangeable power mode
- ① Outlet water temperature
- ③ Inlet water temperature
- ④ Flow rate

1. The current hot water temperature on picture is 50°C. Water heating will be monitored by water heater. Water will be heated in a smart way based on different flow rate and power automatically, in order to ensure the setting constant temperature.
2. 5 exchangeable power levels available. Currently it is a mode of constant temperature.
3. The current display of 24°C refers to the inlet water temperature.
4. The current display 2.2L refers to the water flow rate 2.2 L per minute.
5. All fan blades are displayed when water heater is in standby. Two fan blades are displayed when water heater starts working. As shown in the picture, water heater is working.

8. Trouble shooting

Problem	Reason	Solution
No display on screen after power on	1. Power connector is not powered 2. Circuit board of water heater is broken	Check the power connector and connection. Ask professionals to repair or replace parts.
The display shows the temperature, but there's no hot water	1. Heating element is damaged 2. Circuit board is damaged	Ask professionals to repair or replace parts.
E1 on screen	1. Temperature excursion 2. Circuit board failure	Ask professionals to repair or replace parts.
E2 on screen	Leakage caused by damaged heating element or circuit board	Ask professionals to repair or replace parts.
E3 on screen	Failure of inlet water temperature sensor	Ask professionals to repair or replace parts.
E4 on screen	Failure of outlet water temperature sensor	Ask professionals to repair or replace parts.

If water temperature is displayed on screen, but water heater doesn't heat water, please check the below for troubleshooting.

1. Please check whether the water flows through the water heater. If the water does not flow through the water heater, please check inlet water connection.
2. Please check the water pressure. If water pressure is too low, the water heater will not start.
3. Please check whether the water inlet or outlet is connected correctly. Water inlet with blue rubber ring. Water outlet with red rubber ring.
4. If water pressure is normal and installation is correct, but water is still not heated, please check whether the water inlet is blocked, or whether there is dirt on the turbine located in water inlet.

Touching ON for standby, and then press the key ON/OFF for 6 seconds for transformation between constant temperature mode and exchangeable power mode. The temperature can be set by touching UP and DOWN under the constant temperature mode.

The temperature range is 30°C-55°C. After temperature setting, the screen will display outlet water temperature automatically within 3 seconds. Water heating will be monitored by water heater. Water will be heated in a smart way based on different flow rate and power automatically, in order to ensure the setting constant temperature.

There are 5 exchangeable power levels in total. Each power level is around 20% of the total power of water heater. As shown in Figure 1, the setting constant temperature is 50°C which is displayed at the outlet water temperature. No exchangeable power mode displayed.

Figure 2 shows power level 4 occupying 80% of total power. Due to the difference in current, voltage and other power consumption at different applicable places, it's normal that there may be some errors in the actual output power rate of water heater. We'll appreciate for your understanding.

As shown in Figure 3, touching ON for standby, and then press the key DOWN for 6 seconds for transformation between degrees Fahrenheit & Celsius. As shown in Figure 4, touching ON for standby, and then press the key UP for 6 seconds for changing power. 30 means 3000W, 40 means 4000W, and 50 means 5000W.

Special warning:

1. House circuit and circuit breaker capacity must be well matched as per the rated power of water heater. Installation must be done by professionals.
2. It is forbidden to connect water heater to the power supply once the water inside of water heater is frozen.
3. If the power cord of water heater is broken, it must be replaced by professionals.