

# Instant Electric Water Heater

LF-311



## PRODUCT SPECIFICATION >>

Please read this manual carefully before use

## 1. Product dimensions

135x65x245mm



### 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.

## 2. Main technical parameters of the product

Power	Voltage	Frequency	Wire Requirements	Trip Switch
3000W	AC 110V	50-60Hz	wire cross section 2.5mm <sup>2</sup>	≥32A
4000W	AC 110V	50-60Hz	wire cross section 4mm <sup>2</sup>	≥40A
5500W	AC 220V	50-60Hz	wire cross section 4mm <sup>2</sup>	≥32A

### 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.

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

Flow Rate Power	1-2L	2-3L	3-4L	4-5L	5-6L
3000W	46°C	36°C	31°C	27°C	24°C
4000W	50°C	40°C	34°C	29°C	26°C
5500W	55°C	50°C	42°C	36°C	30°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.

## 3. Installation instructions

1. Select the appropriate installation location and mark it through the mounting holes of hook as per the length of power cord and water tubes.
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 waterway, please have water supply test.
4. Connect the live wire L (brown), neutral wire N (blue) and the (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 water properly, then installation is completed.

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## 4. Instructions for use

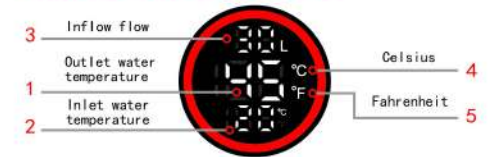


Figure 1 shows the outlet flow of the current device at 3.0 litres per minute.

Figure 2 shows that the outlet water temperature of the current equipment is 45 °C .

Figure 3 shows the current intake temperature of tap water at 20 °C .

Figure 4 shows the degree C

Figure 5 shows the degree F

1. The power lamp shows (- -) in standby state, and the power on state shows the water temperature. After the water flow is turned on, it begins to work, and the red circle turns.
2. Switch between F ° F or C ° C by pressing the cool button for 6 seconds while standby. Switch between Fahrenheit and Celsius.
3. The touch screen can adjust the temperature to 30-55 degrees C and 86-131 degrees F. Also can use remote control to set the temperature and boot, shutdown.

ON/OFF

UP

DOWN

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4. The flow rate shows the water output per minute when the current equipment is running. As shown in figure, the water output of current equipment is 3.0 liters per minute.
5. Switch between F ° F or C ° C by pressing the cool button for 6 seconds while standby. Fahrenheit and Celsius switch meet each country.
6. In standby state, press the heating key for 6 seconds, then switch the power, 35 for 3500W, 45 for 4500W, 55 for 5500W.

## 5. 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 ≤ 0°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.

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## 6. Trouble shooting

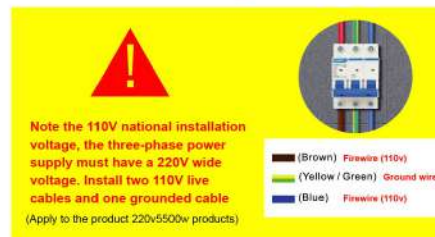
Problem	Reason	Solution
No display on screen after power on	1. Power connector is not powered 2. Circuit board of water heater is broken	Check the power connector and connection. Ask professionals to repair or replace parts.
The display shows the temperature, but there's no hot water	1. Heating element 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.

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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.

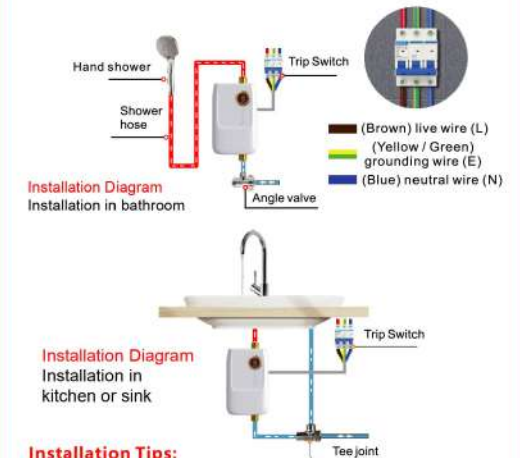
## 7. Installation diagram



Note the 110V national installation voltage, the three-phase power supply must have a 220V wide voltage. Install two 110V live cables and one grounded cable (Apply to the product 220V5500w products)

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## 220V wide voltage installation diagram



### Installation Tips:

1. The instantaneous electric water heater is powered on after water supply, and the applicable water pressure is 0.04-0.6mpa.
2. The power switch should be installed at a place where water is not easy to be touched.
3. It should be installed at a place where the indoor ambient temperature is above 0 °C, and the hot water outlet should not be too far away from the place where the hot water is used.

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