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GARANTIE**



# USER'S MANUAL

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Electric water heater



**CB CE G**  
Made BY MLELECTRONICS

✘ **SVM-3-15L**

Dear customers

Sincerely thank you for choosing this electric water heater, please read before use and properly keep this manual, correctly grasp the installation and use of electric water heater, in order to make full use of its excellent performance. Thank you for your cooperation!

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## Precaution

1. The electric water heater shall be installed, inspected, debugged and operated in accordance with the requirements of this manual. The water heater which is used for the first time must be filled up with water before you switch on the current. Do not use this product when no water is supplied to the electric water heater.
2. This electric water heater is only used under the power supply specifications listed in the parameter table.
3. ~~Must use the socket that matches the plug of the power cord of the electric water heater, and the socket should meet the relevant national standards, and it is strictly prohibited to plug 10A into the 16A socket. The live line and neutral line in the socket must be correctly connected by pressing the left zero right fire. Do not use mobile sockets.~~
4. The electric water heater must be correctly and reliably grounded. The power supply provided by the user must be grounded according to the national electricity safety regulations, and the water pipe or null line cannot be used as the grounding conductor, otherwise it may cause safety accidents.
5. If you find abnormal conditions such as abnormal noise, odor, smoke, high temperature, leakage and other phenomena, you should immediately stop using the electric water heater, disconnect the power supply, and contact the company's after-sales department for treatment. The continuous operation of the water heater in an abnormal state may lead to serious accidents such as electric shock or fire.
6. It is prohibited to use electric water heaters in environments where volatile and corrosive chemicals are placed or used.
7. Before using this product, the safety valve provided with the product must be installed at the water inlet of the electric water heater. During the electric heating period, the relief valve pressure port may have water drops, this is a normal phenomenon. Do not block the pressure relief port, so

as to avoid the electric water heater cannot relieve pressure and cause serious safety accidents.

8. If the tap water pressure used by the user is too large, the pressure relief port of the safety valve may often cause pressure relief and water discharge. At this time, the pressure reducing valve should be installed on the inlet pipe, and the pressure reducing valve should be installed in a place far away from the water heater, such as the main gate of the house water supply inlet pipe.

9. In frost-prone areas, when the electric water heater is not used for a long time, the water in the water heater should be drained (as shown in "Maintenance"). If the water in the electric water heater may freeze, do not connect the water heater to the power supply at this time.

10. If the power cord is damaged, it must be replaced by the manufacturer, its maintenance department or similar professionals to avoid danger.

11. Children and the elderly must operate under the guidance of parents or caregivers when using electric water heaters. Do not let children play with electric water heaters

## **Product description**

### Application and characteristics

This electric water heater is a storage electric water heater. It can apply to the needs of different users, is for home, factory, salon, hotel, restaurant, hospital and other different accommodation and occasions , mainly used for bathing , washing and other occasions where hot water is needed (not drinkable).

Characteristics as below:

1. Water and electricity separation, stainless steel heating element, fast heating speed. The outlet water temperature is stable and comfortable.

2.High-density polyurethane integral foaming process was adopted. The inner tank is heated evenly. The insulation effect is remarkable.

3. Strictly implement national standards. Anti-dry burning, anti-temperature protection, safe and reliable.

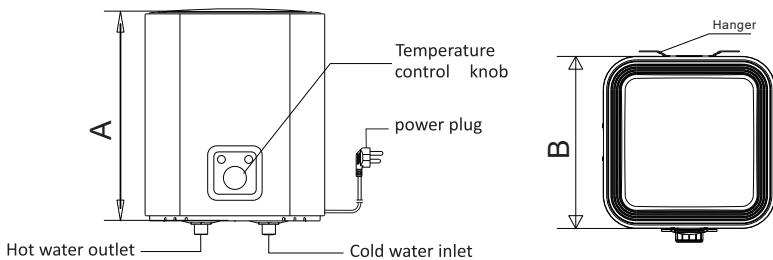
4. Anode magnesium rod, anticorrosive and durable

### Technical specification

model		
voltage	220V~/50Hz	
rated power	1500W	
capacity	15 L	30 L
Overall dimensions (mm)	300x300x419	365x365x503
waterproofing grade	IPX4	
rated pressure	0.7MPa	
Electrical appliance category	Type I	

### Product diagram

Liter	SIZE A	SIZE B
15L	419	300
30L	503	365



## Installation Notes

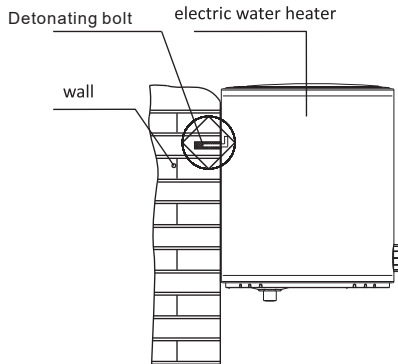
### Installation precautions

1. It is strictly forbidden for users to install electric water heaters by themselves! When installing, please contact the local dealer or the after-sales department of the company to arrange for professionals with qualifications for electric water heater installation.
2. When installing the electric water heater, the grounding must be absolutely guaranteed! For those that do not meet the installation requirements of electric water heaters, the installer should clearly inform the user, explain the reasons and put forward rectification suggestions. The user should ask professionals to eliminate the safety hazard before installation. For those that cannot be rectified, the installation should be refused!
3. This product should be installed indoors, avoid direct sunlight, and the ambient temperature is above 0 °C; avoid places where flammable gas leaks or environments with strong corrosive gases; avoid places with strong electromagnetic field interference; try to avoid Places prone to vibration; try to shorten the connection length between the water heater and the water intake point.
4. Assemble the safety valve in the accessories during installation! The drain hose connected to the pressure relief port of the safety valve should be continuously inclined downward and kept open to the atmosphere. The drain hose and safety valve should be installed in a frost-free environment to avoid ice blockage. There should be a well-drained floor drain near the drain hose to avoid water accumulation.
5. Safety valves should be periodically checked for effectiveness to ensure that calcium carbonate deposits are removed and that they are not blocked. The method is: lift the handle of the safety valve up to see if there is water flowing out of the drain hose. If the pressure relief function is normal, the water will flow out of the drain hose, otherwise the pressure relief is not normal. When abnormal pressure relief occurs, stop using this product and contact the after-sales department for processing.
6. Before installation, check whether the wall on which the electric water heater is installed is firm. There should be no pre-buried cables in the wall. It is strictly forbidden to install the electric water heater on a hollow wall. The bearing capacity of the wall should not be lower than 4 times the mass of the electric water heater after it is filled with water, and the installation position should ensure that there is at least a 30 cm wide space on the right side of the electric water heater.
7. The power socket must be installed in a place that is not exposed to water or out of reach of children.

### Installation steps:

- 1.The installation of the electric water heater should use the following accessories, and professional installers should not replace, omit and restructure at will.
- 2.When installing, be care not to damage the safety guarantee structure of the building.
3. The pipes and fittings used for the installation of the connection to the user must meet the relevant national standards, and the pipes and fittings agreed or designated by the electric water heater manufacturer.
- 4.If a one-way valve is added to the pipeline, an expansion tank that meets the standard volume and pressure must be installed behind the one-way valve.

5. Confirm the installation position of the electric water heater. Bypass the steel bars and embedded pipelines in the wall, drill two 30mm deep and  $\phi 8$ mm holes in the solid wall with a hammer drill, requiring the two holes to be on the same horizontal line and the hole spacing is 65mm.
6. Put the plastic expansion tube in the following machine attachment correctly in the wall hole, screw the self-tapping screw (with hook) into the plastic expansion tube, and make the hook upward
7. Lift the electric water heater, align the two wall holes on the back of the water heater with the bending hook of the tapping screw and hang it securely.
8. Install an inlet valve at the inlet end of the electric water heater. The one-way safety valve must be installed on the water inlet pipe of the electric water heater. The direction must be correct. The pressure relief port of the one-way safety valve should be installed downward or horizontally, and the pressure relief drainage tube should be installed on the pressure relief port of the one-way safety valve. When the electric water heater is installed on the ceiling, the pressure relief port should be led to the floor drain with a hose of appropriate length, and sufficient maintenance space should be reserved for future repair and maintenance.



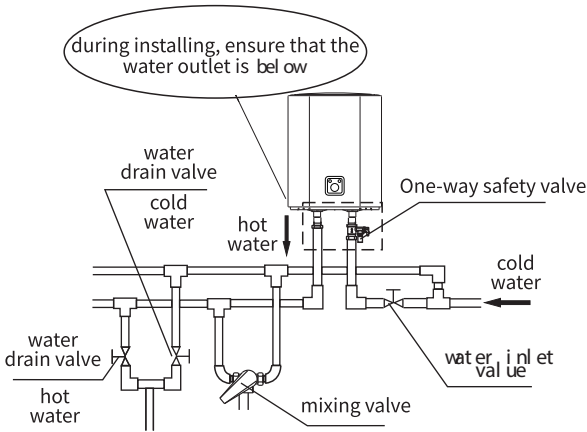
The appearance pattern depends on the actual machine

9. All pipe threads are G1/2. Install a filter at the water inlet of the one-way safety valve (if a mixing valve is installed, install a filter at the water inlet of the mixing valve), and install a sealing washer and raw material belt at the connection between the one-way safety valve and the pipe thread, as well as the connection of the water pipe to ensure the sealing.

Note: All mentioned to install the filter, the filter must be installed and cannot be leaked

10. After installation, the electric water heater container is filled with water. First, open the water outlet of the electric water heater, and then open the inlet valve (if there is a mixing valve, please adjust the handle of the mixing valve to a high temperature position), at this time the electric water heater begins to fill in water. When the water outlet normally flows out, it means that the water is full. The water outlet can be closed

11. If users want to supply water to multiple places, refer to the following figure.

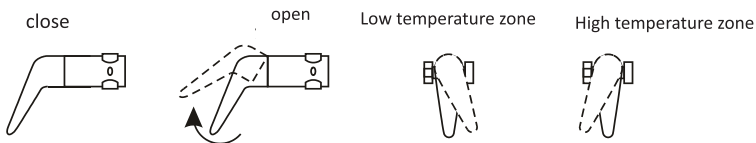


The appearance pattern depends on the actual machine

## Instructions

### Preparation before use

1. Water injection: Open the water mixing valve, lift the handle of the mixing valve, turn it clockwise to the highest point in the high temperature zone, and then open the water inlet valve. At this time, water will be injected into the inner tank until the hot water outlet is normal. At this time, it indicates that the inner tank has been filled with water, close the water mixing valve, and turn the handle counterclockwise to the lowest point in the low temperature zone. The operation diagram of the water mixing valve is as follows:



2. Connect to the power supply, in the case of power on, the display lights, indicating that the electric water heater can be powered on normally. At this time the user can follow the following function description to set the relevant functions.
3. When the water temperature reaches the set temperature, the indicator or display will prompt



you, and the water heater will automatically stop heating. The water temperature has reached the set temperature and enters the heat preservation state. At this time, the user can turn on the switch of the mixing valve and slowly turn from the low temperature zone to the high temperature zone. Carefully test the water temperature with your hands, adjust it to the water temperature you need, and then you can use it with confidence. When the water temperature drops to a certain temperature, the water heater will automatically reheat.

Note: the outlet water temperature may be slightly higher than display temperature, please test the water temperature before use, do not test the water temperature on the human body, so as to avoid burns!

### **Function specification**

- (1) Water injection: It is used for the first time or after emptying, and it needs to be filled with water before powering.
- (2) Power on: Plug in the power cord, power on, "power" indicator light on.
- (3) Heating/insulation: When the temperature control knob reaches "Low", "Eco", "High", the water heater starts to add heat. When the water temperature in the water heater reaches the set temperature, it enters the heat preservation state. If the water temperature drops to one To a certain extent, the water heater is reheated, and so on. When Heating, "heating" the light point On. When keeping warm, the "Heating" light is turned off.
- (4) Water temperature adjustment: the temperature control knob is rotated clockwise to set the water temperature up, and the counterclockwise rotation is set When the water temperature is lowered, when the knob is stopped at "Off", the electric water heater will no longer heat.

## **Maintenance**

1. Before cleaning the surface of the electric water heater, make sure that the water heater is disconnected from the power supply. When cleaning, use a damp towel dipped in a little neutral detergent to gently wipe the surface of the product, and then dry it with a dry towel. Do not spray directly with water, and do not use gasoline, polishing powder and other volatile substances or strong acid and strong alkaline cleaners for cleaning.
2. When the electric water heater is not used for a long time, please disconnect the power supply, unplug the power plug, and drain the water in the inner tank.
3. The method of draining the water in the inner tank: make sure to unplug the power plug and let the water temperature in the inner tank drop to the natural temperature, or turn the water mixing valve to the hot water state to let the cold water into the inner tank until the water temperature drops to the natural temperature. Close the water inlet valve, remove the water inlet pipe and safety valve, turn the water mixing valve to the hot water state, or remove the water outlet pipe, the water inside the inner tank can be discharged from the water inlet pipe. Warning: Be careful not to touch the water discharged from the outlet, so as not to be scalded by the remaining hot water.
4. Regularly (about one year) clean the scale on the electric heating tube and the sediment in the inner tank. In areas with hard water, users can install an anti-scaling device at the front end of the

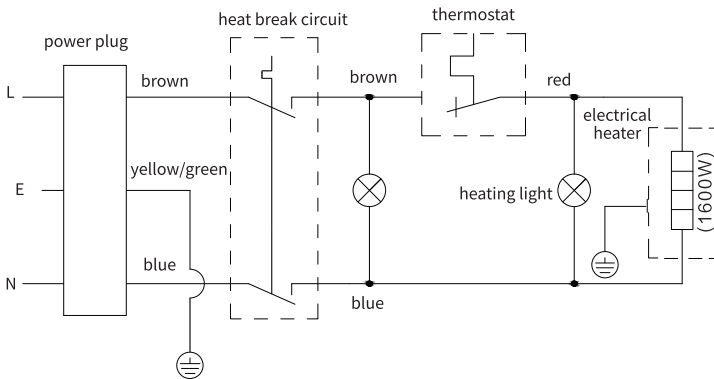
water inlet pipe. Regular replacement of magnesium rods according to local water quality conditions. Please contact the local dealer or after-sales department for the assistance of professional technicians.

## Troubleshooting

Problem	Cause	Solution
The indicator is off	1. Internal circuit failure	Please notify the after-sales department for maintenance
	2. The power supply is disconnected	Check whether the power supply line is normal
low outlet water temperature (The heating indicator is off.)	1. The set temperature is too low	Set the temperature to higher level
	2. Internal circuit failure	Check and confirm whether there is a power supply
	3. Thermostat failure	Please notify the after-sales department for maintenance
low outlet water temperature (The heating indicator is on.)	1. Short heating time	wait for heat preservation before use
	2. Malfunction of mixing valve	Replace the mixing valve
	3. heating element is faulty	Please notify the after-sales department for maintenance
	4. Internal circuit failure	
Water leakage	1. The inner tank is not well sealed	Please notify the after-sales department for maintenance
	2. The inner tank leaks	

■ If the electric water heater cannot be used normally due to abnormal conditions, please check according to "Troubleshooting". If the above fault is the problem of the electric water heater itself, it must be repaired by professionals.

## Electrical Schematic



Please understand that the route is subject to change without prior notice

## Packing list

Item name	Quantity	Item name	Quantity
storage electric water heater	1 set	hook screw	2 pcs
safety valve	1 pcs	drain hose	1 pcs
instruction book	1 pcs	colloidal particle	2 pcs
sealing washer	2 pcs		

