※ Please keep this operating instructions properly

Soon-hot Type Electric Water Heater

Operating Instructions

Executive standards: GB4706.1 -2005
GB4706.11-2008

Please read this operating instructions carefully before use

V. Operating Instructions

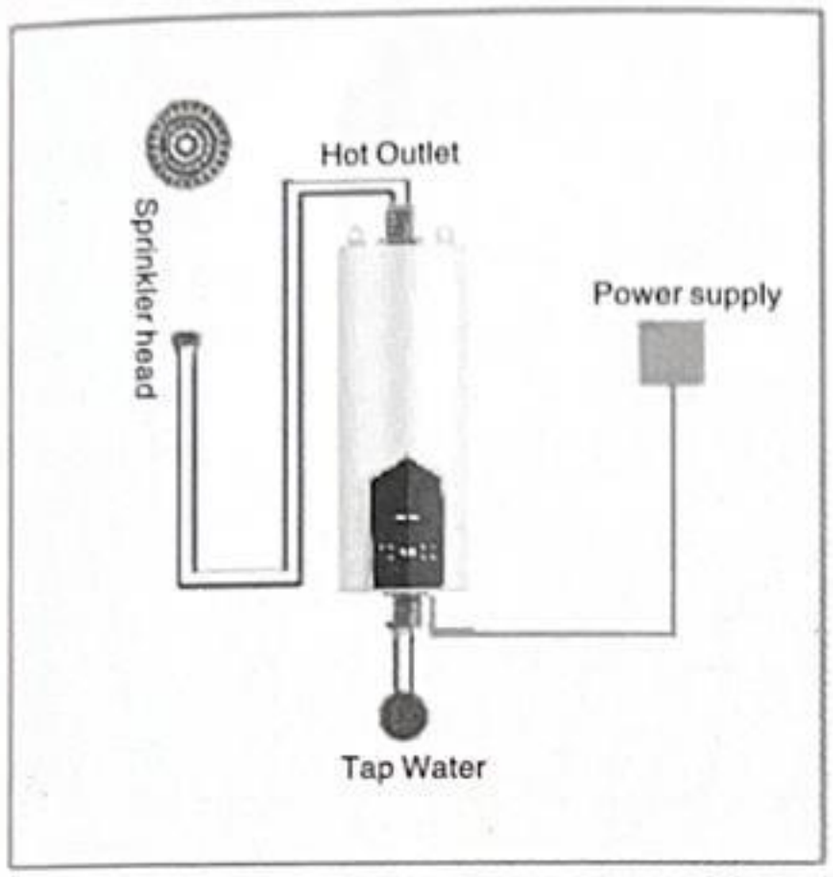
(Note: this is the general instructions, may not be applicable to some models. Please consult your local dealer for details)
After the first use or water cut-off, the power shall be cut-off first, and then the water valve shall be opened.
Only when there is continuous water in the water outlet pipeline can it be powered on for use; (failure to do so may damage the product)
1). LED digital display:
During standby, the digital tube is off. The outlet water temperature is displayed when it is on for a long time, and the set temperature is displayed when it is flashing.
The "lower left decimal point" flashes, indicating that the machine is in the heating status. Otherwise, it means that the machine is not heated.
"Two decimal points" flashes and there is water flow after shutdown, which is displayed as the current water flow.
"Er" indicates that the machine is installed in the wrong direction. Please install it vertically.
"E0/E1" indicates that the machine sensor is faulty and the heating shall be stopped at this time.
"--" indicates shutdown status.
Temperature setting range: 20℃-55℃, the last setting temperature will be saved after power-off and recovery.
2). Key:
"⊕" and "∧"are temperature rising keys. Short press to increase the temperature by 1℃, long press to continuously increase the temperature;
"⊖" and "∨"are temperature decreasing keys. Short press to decrease the temperature by 1℃, long press to continuously decrease the temperature;
"⟲" is a cycle heating key. Short press to increase the temperature by 1℃, long press to continuously increase the temperature;
"⏻" is the power/standby key. Press and hold for 2 seconds to power-on or standby;
3). The machine is turned on by default after power-on. To shut down, press the "power/standby" key for 2 seconds.
4). This product is equipped with power nap function. When there is no operation and water flow, it will enter the power nap status after 30 seconds, that is, the screen will be off. When there is operation and water flow, it will display immediately.
5). This model cannot work when installed upside down or horizontally. Please install the machine vertically after "Er" is displayed.

VI. Precautions

1. Before installation, ask professional personnel to check whether the wire and electric meter capacity of the power supply line meet the requirements of the machine.
2. Reliable grounding wire must be installed. If there is no qualified grounding wire or the grounding wire is invalid, do not use the machine.
3. The wiring must be fixed in accordance with the wiring rules: Equipped with contact separation, which can provide a leakage protection switch with full level disconnection under overvoltage level III. Please turn-off the leakage switch when it cannot be used for a long time.
4. The damaged wire must be replaced by professionals from the manufacturer's maintenance department or similar departments to avoid risk.
5. Do not use any socket converter, etc. to adapt to the installation of electric water heater, and do not use power board.
6. The machine must be installed vertically, and can be powered on and tested only after the waterway is connected; Do not place the machine too close to inflammables and strong magnetic fields.
7. It is forbidden to install this product outdoors and should only be used indoors.
8. It is forbidden to connect the water outlet of the machine with any water valve or connector with water switch not approved by the manufacturer. 9. It shall be stopped in the environment of ≤0℃, and the water inlet valve shall be closed. It is strictly prohibited to supply water and electricity to the machine.
10. It is forbidden to scrub the machine shell with acidic or alkaline cleaning solution. Neutral cleaning agent shall be selected to scrub the enclosure and disconnect the power supply.
11. Children and the elderly must be guided by people familiar with the operation of the product during their uses.
12. Models equipped with installation hoses must use the new hose assemblies attached with machine, and the old hose assemblies cannot be reused.
13. The outlet end of water heater with sprinkler must be descaled regularly.
14. If it is necessary to increase the use of partition wall, the partition wall with random configuration must be installed.
15. Do not spray water on the machine body during use to avoid moisture on electrical parts.
16. Do not turn the water outlet direction towards the human body while opening the valve.
17. Do not disassemble the machine or replace the parts on the water heater without authorization.
18. It shall be powered on after water-on while using for the first time, so as to prevent dry burning and overheating.
19. Do not use the water heater upside down. See the installation drawing for the correct method.
20. The water outlet shall not be connected to any faucet and any flow blocking element.
21. The power supply must be disconnected by full pole disconnecting devices (current contactors, air switches), and shall be directly connected to the power terminal, with a contact opening distance of at least 3mm on each pole.

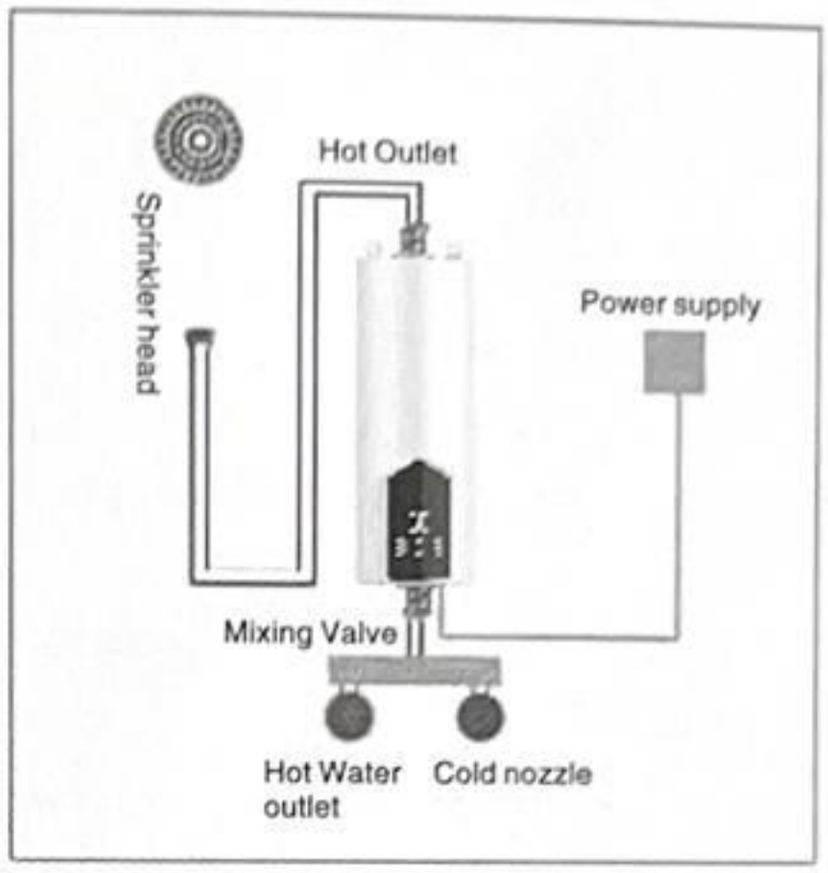
Small Versatile

Simple installation, compact size,
good-bye hot water is not enough



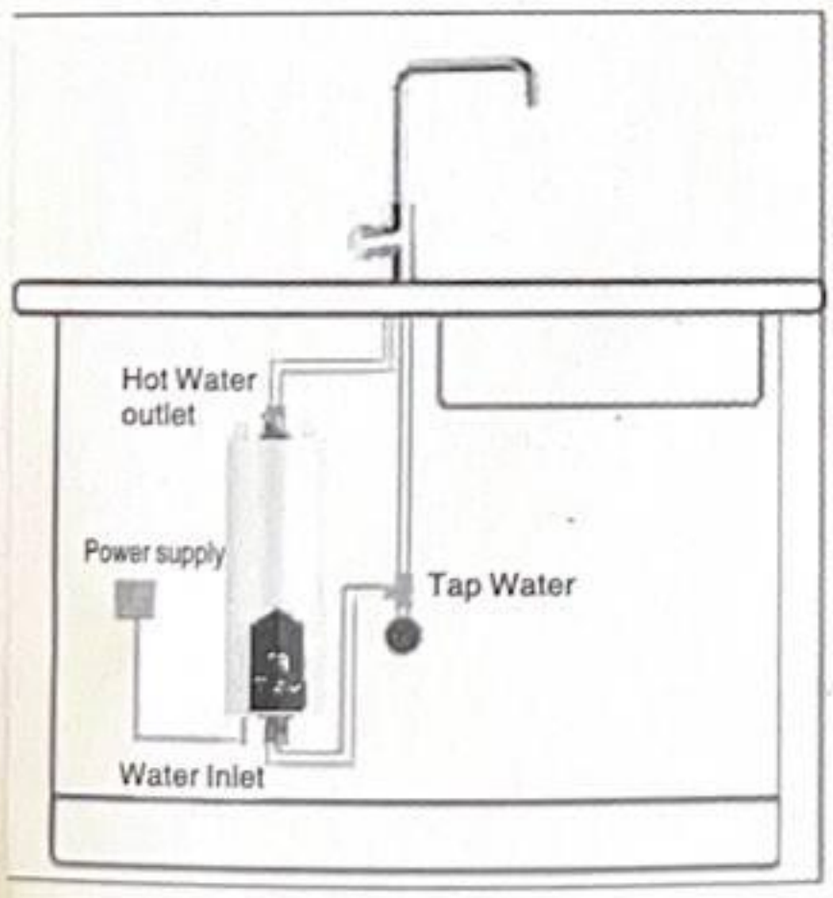
Mini water heater

Suitable for bathing in spring, summer and autumn
(water pipe should be smaller in winter)



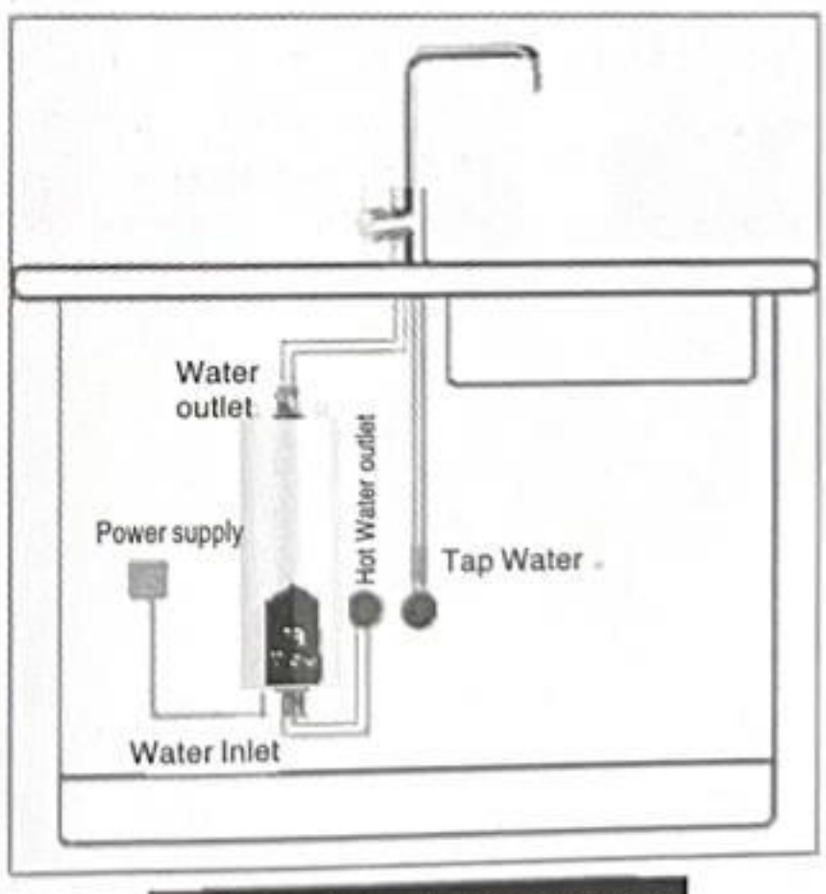
Water heater, solar heating

Solve the problem of water heater or solar hot water pipe is too long or water temperature is not enough



Off-stage hot water

Solve the hot water problem in the kitchen and bathroom



Off-stage hot water tonic treasure

Solve the problem that the water heater pipe is too long or the hot water is not enough

IV. Installation Instructions

1. **Please be sure to install the product vertically.** This product must be installed by qualified professionals.
2. Prepare percussion drill (drill diameter is 6mm), adjustable spanner, cross screwdriver, electrician's knife, etc. 3. Check whether the electric meter capacity, air switch and wire meet the requirements, and whether the ground wire is really introduced underground. 1) The ground wire must be fully grounded. 2) Air switch with leakage protection must be installed.
4. The product installation position shall be determined in accordance with the length of the power line and the position of the air switch. According to Figures 1 and 2, mark the position of 2 machine mounting screw holes on the wall with a pencil, and install the product on the wall.
5. Connect the live wire L of copper core power cord (brown wire), null wire N (blue wire) and grounding wire (yellow and green wire) to the corresponding air switch or wiring terminal and tighten it to ensure reliable connection.
6. Closely connect the tap water pipeline with the water inlet of the machine; Then connect the water outlet with hose to other terminal equipment.
7. If it is the first installation of a newly installed pipeline, connect the machine after emptying the pipe.

Note: Each water pipe interface must be covered with sealing gasket. When screwing the water pipe with handle, the force shall be moderate and not too tight to avoid damaging the thread and causing water leakage.

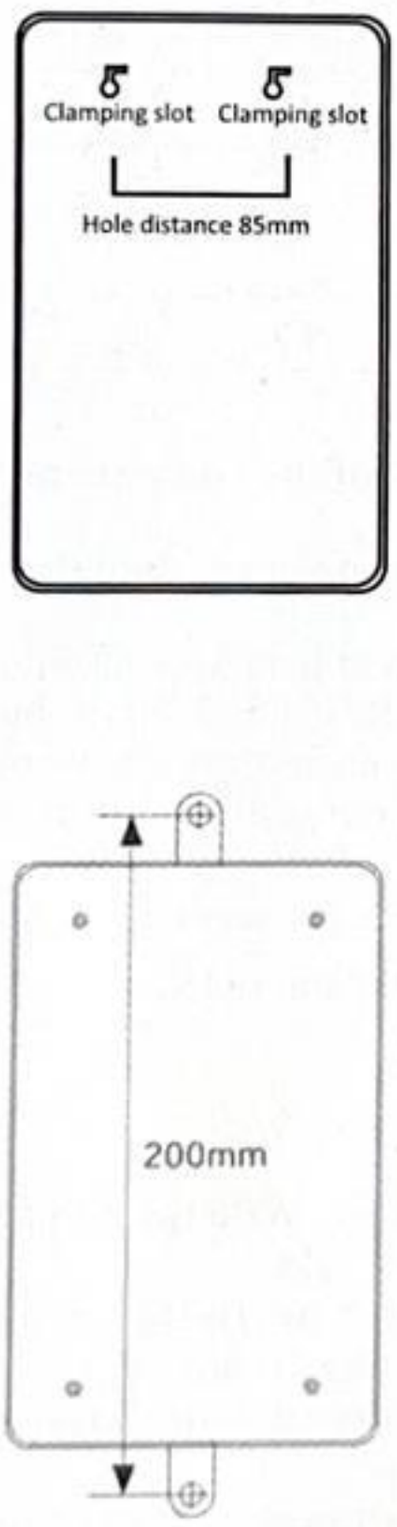


Figure 1

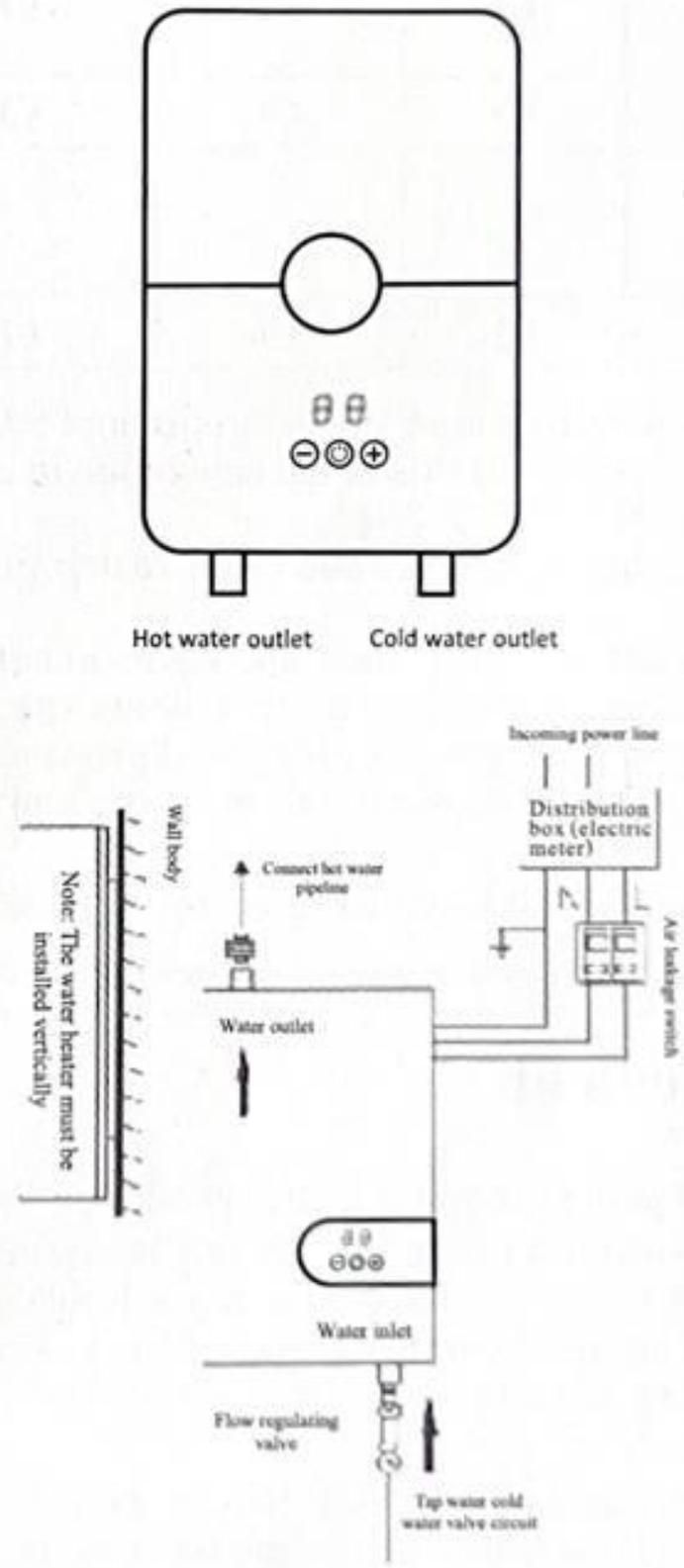


Figure 2

Note: This installation diagram is not necessarily consistent with the actual product you purchased, but only a schematic diagram of installation instructions.

I. Product Overview and Functional Features

This product abides by the GB4706.1-2005 General Requirements for the Safety of Household and Similar Electrical Appliances, GB4706.11-2008 Particular Requirements for Safety Soon-hot Type Water Heater of Household and Similar Electrical Appliances and has passed China's compulsory CCC product safety certification.

This series of products adopt advanced water flow control switch technology to ensure instant water-on, power-on, water-off and power-off; Without electromagnetic radiation, which is green and pollution-free. The product is equipped with microcomputer automatic control system and fault self-test function, with a LED digital screen that can display current working status, which can be convenient and worry-saving, heat quickly, open and use immediately, no capacity limit, no preheating, avoid unnecessary heat loss in the long preheating process, and save power and energy; Equipped with intelligent control over temperat ure dry burning protection device, built-in multiple protection to ensure safety.

II. Main Technical Parameters of the Product

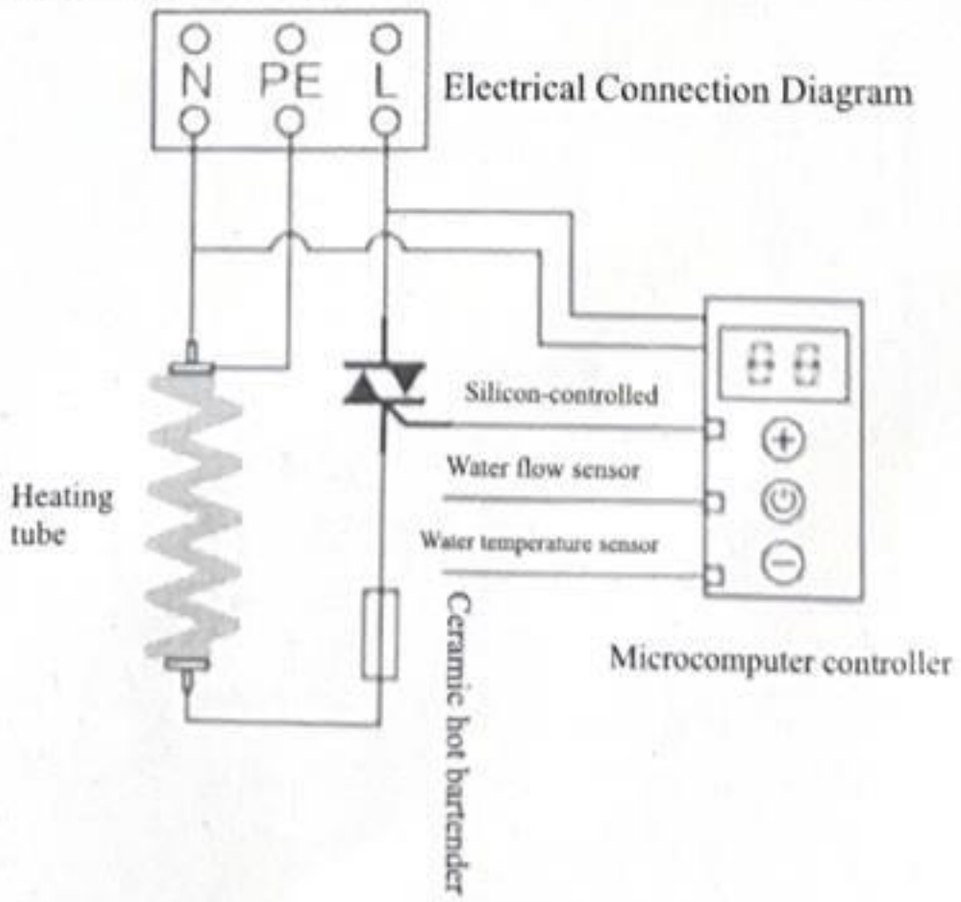
Model	Rated power	Rated voltage	Rated water pressure	Wire requirements
RYK-001/RYK-002 RYK-003/RYK-004 RYK-005/RYK-006 RYK-007/RYK-008 RYK-009/RYK-010	3500W	220V~	0MPa	1.5mm²
	4500W	220V~	0MPa	2.0mm²
	5500W	220V~	0MPa	2.0mm²
RYK-001/RYK-002 RYK-003/RYK-004 RYK-005/RYK-006 RYK-007/RYK-008 RYK-009/RYK-010	3500W	110V~	0MPa	1.5mm²
	4500W	110V~	0MPa	2.0mm²
	5500W	110V~	0MPa	2.0mm²
RY-LZT-1/RY-LZT-2	8500W	220V~	0MPa	4.0mm²
RY-LZT-3	6000W	220V~	0MPa	2.5mm²
RY-LZT-3	6500W	220V~	0MPa	2.5mm²
RY-LZT-3	7000W	220V~	0MPa	2.0mm²
RY-LZT-4	5500W	220V~	0MPa	2.0mm²
RY-LZT-4	6000W	220V~	0MPa	2.5mm²
RY-LZT-4	6500W	220V~	0MPa	2.5mm²

Note: Taking RYK-00XX series as an example, it can correspond to models with the same power, such as RYK-001 or RYK-002.

III. Electrical Schematic Diagram

(The route is subject to change without notice)

Input voltage: 220V~



Warnings:
If the operating environment of the water heater is likely to freeze, please close the water inlet valve and do not connect the power supply to the product, so as to prevent safety and property losses caused by frost crack and water leakage. In order to avoid the danger caused by the false reset of the thermal circuit breaker, the appliance cannot be powered by an external switching device, for example, timer or electrical circuit which is used to connect to GM parts for power on and off.

VII. Common Fault Analysis and Handling Methods

Fault phenomenon	Fault causes	Handling method
Water leakage	A. Poor connection of inlet and outlet water pipes; B. Damaged rubber gasket at the connection part; C. Internal water leakage of the water heater;	A. Reconnect; B. Replace rubber gasket; C. Contact customer service or vendor;
Key failure	Damp or disturbing working environment;	Ventilation and drying or restart after power failure;
Too hot water temperature	A. Too small water flow rate or too high gear; B. Blocked pipeline;	A. Adjust the water valve to increase the water flow or lower the gear / temperature; B. Clean the inlet filter screen and shower;
Too cold water temperature (without heating)	A. Too large water flow rate or too low gear; B. Low grid voltage; C. Do not start or just keep heating for a short time;	A. Adjust the water valve to reduce the water flow or higher the gear; B. Check whether the power supply voltage is too low; C. The water flow sensor is stuck or entangled by foreign matters, which shall be sent to the mainte nance point for cleaning;
The water temperature fluctuates between cold and hot.	Voltage or water pressure is unstable;	When the voltage or water pressure returns to normal, the water temperature can return to normal;
The water yield is getting smaller and smaller.	The water filter or the shower head is blocked by sundries in the water;	Remove the water pipe to clean the water filter/shower head;
The incoming leakage switch has tripped.	A. Electric leakage; B. Aging of leakage switch; C. The leakage switch current is too small; D. Whether the upside-down installation leads to water leakage,which leads to elec tric leakage;	A. Don't use it, and send it to after-sales service for repairing; B. Replace the leakage switch; C. Switch to high current leakage switch; D. Send it to the after-sales service for repairing;
Display code	E0-NTC short circuit; E1-NTC open circuit; LL-Excessive water flow; Er-Reminder of incorrect installation direction;	Contact customer service or retailer; Adjust the water valve to reduce the water flow; Please install it vertically;
The display has no display	A. The power supply is not connected; B. Water depletion/overheat protection;	A. Close the switch to turn on the power supply; B. Contact customer service or vendor;

Warning: If the fault cannot be excluded in accordance with this prompt, please stop using it, turn off the control power and contact the distributor timely or send it to the local after-sales service for repairing.

VIII. Signage and content description of toxic substances

Component name	Toxic and harmful substances or elements					
	Plumbum (Pb)	Mercury (Hg)	Cadmium (Cd)	Hexavalent chromium (Cr(VI))	Polybrominated biphenyls (PBB)	Polybrominated diphenyl ether (PBDE)
PCB	X	X	O	O	O	O
PCBA welding point	X	O	O	O	O	O
Components	X	O	O	O	O	O
Metal parts	O	O	O	O	O	O
Plastic part	O	O	O	O	O	O
Paper	O	O	O	O	O	O
accessories						
Cable	O	O	O	O	O	O

This Table is formulated in line with the provisions of SJ/T11364.
O: It indicates that the content of this toxic substance in all material of the component is within the limits specified in GB/T26572-2011.
X: Due to industrial technology level and other restrictions, it has not yet reached the standard requirements.
It also means that the content of the toxic and harmful substances in at least one homogeneous material of the component exceeds the requirements specified in GB/T26572-2011, but it is only used in a small amount in inventory or processed products, and it is undergoing environmental protection switching as planned, and it will meet the above requirements after switching.



This environmental service life is only applicable when the product is operated under the conditions specified in the User's Manual.

IX. Warranty Statement

Distinguished users,
Thanks for purchasing and using the water heater produced by our company. With the purchase documents or invoices, we will provide you with the following services from the date of sale:
1. The one-year free warranty is provided for the household complete machine; Half a year free warranty is pr ovided for the commercial complete machine (in public, business and office premises).
2. If it is one of the following circumstances, it is not within the scope of free maintenance, and compensated maintenance is implemented.
a. The losses caused by the improper installation, use, maintenance and storage by the consumers;
b. Not being repaired and disassembled by the special maintenance department designated by our company;
c. Unable to provide valid certificates for purchasing the machine;
d. The damages caused by force majeure;
e. Expired warranty;
f. The product is inconsistent with or modified from the warranty card and invoice;
3. The use of this electric water heater shall be subject to the relevant national provisions, and no warranty shall be granted if it exceeds the service life.

Certificate

Tested by: _____

Manufacturing date: _____