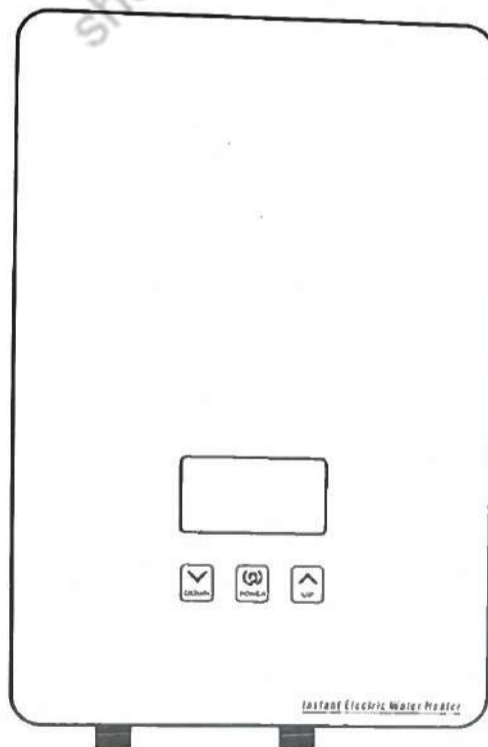


Instant Electric Water Heater

Instruction Manual



Model:KR-55/YK-55

Thank you for purchasing our instant electric water heater. To enjoy the service of this unit, please read and follow the manual carefully.

Precautions

- The instant electric water heater must be installed by qualified professional.
- Please take time to read this manual carefully and familiarize yourself with the function of this production!
- Before installing, the expert should check the wire of the power supply circuit and the capacity of electric meter carefully, to see if this can meet this machine's requirement.
- A reliable grounding wire must be installed, if there is no qualified grounding wire or it is invalid, do not use this machine.
- The electric leakage proof valve and the secure accessories must be installed along with this machine.
- Should install dedicated earth leakage circuit breaker, please switch off the earth leakage circuit breaker and close the inlet valve when not use.
- If the power line is damaged, please use the dedicated wire supplied by the factory, and replace it by professional.
- The water heater must be installed vertically, put through the waterway first, then turn on the electricity way to test the machine. Do not install where flammable and strong magnetic field is too close.
- If the water pressure is over 0.6MPa, should install pressure relief valve device to make sure security.
- The water inlet must loaded with strainer, the shower head and strainer must be cleaned regularly to remove scale and debris.
- The water outlet can not connect with non-standard water valve.
- In the cold area, if the water heater is not used for a long time, it should drain all the water off to prevent freezing, if there is ice, do not turn on the electricity.
- When the installment pipe line is new, firstly must clean the pipe line to remove debris, then connect with the water heater.
- To avoid the scald, please test the water temperature with your hand before taking shower, make sure if it is appropriate for you.
- In winter, if you can not get needed temperature when it is run with the highest power, please reduce the water flow to increase the temperature.
- Please according to the environmental protection standard to deal with the packing materials and the old machine.
- This appliance is not intended for use by persons (Including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
- Children should be supervised to ensure that they do not play with the appliance.

Product Introduction

- ◆ Switch on the water supply, then turn on the machine, the water will be heated instantly.
- ◆ The water and electricity are separated completely, and install the electric leakage proof valve to ensure safety.
- ◆ The frequency conversion function makes the power adjusted automatically according to the water flow and the water temperature.
- ◆ 55°C over temperature protection: when the temperature is over 55°C, it will stop heating to avoid scald. Increase the water flow or set the power lower to reduce the water temperature. It will restart when the temperature go down to below 50°C.
- ◆ 85°C dry heating protection: when the temperature achieves 85-93°C, the power will cut-off automatically.
- ◆ Leakage protection: when leakage, the protection device will cut off the power supply immediately, and the screen will show the fault code.
- ◆ Sensor fault protection: when the sensor failure, the machine will stop working and send out an alarm.
- ◆ The unique heating element can control the temperature automatically.
- ◆ No need to preheat, avoid losing heat during the long preheating process. It's energy saving and time saving.
- ◆ Using the advanced flow sensitive technology to solve the lower water pressure problem which make the machine be not used normally.
- ◆ Setting withstand 1500V insulation protection.
- ◆ Intelligent memory function, avoid repeated operation.
- ◆ Setting inside or outside "Electric Leakage Proof Valve", double protection to ensure secure.

Technical Parameter

TABLE 1-ELECTRICAL LOADING TABLE

Rated Power(kW)	5.5	4.5	3.5/3.0
Recommended cable size(mm ²)	≥2.5	≥2.5	≥1.5
Recommended Amps	32	32	20
Specification Of Electric Meter	Mechanical electric meter 5(20)A Digital electric meter 10(40)A		
Rated Voltage	AC220-240V~		
Frequency	50/60Hz		
Operating Water Pressure	0.02~0.6MPa		
Waterproof Degree	IPX4		
Rated Pressure	0.6MPa		
Protection Against Electric Shock	Class I		

TABLE 2-ELECTRICAL LOADING TABLE

Rated Power(kW)	3.0	2.5
Recommended cable size(mm ²)	≥4.0	≥2.5
Recommended Amps	32	25
Specification Of Electric Meter	Mechanical electric meter 5(20)A Digital electric meter 10(40)A	
Rated Voltage	AC110V	
Frequency	50/60Hz	
Operating Water Pressure	0.02~0.6MPa	
Waterproof Degree	IPX4	
Rated Pressure	0.6MPa	
Protection Against Electric Shock	Class I	

Remarks: The above power line and electric meter are only for this machine. If you want to use other high-power appliances concurrently, please consider carefully.

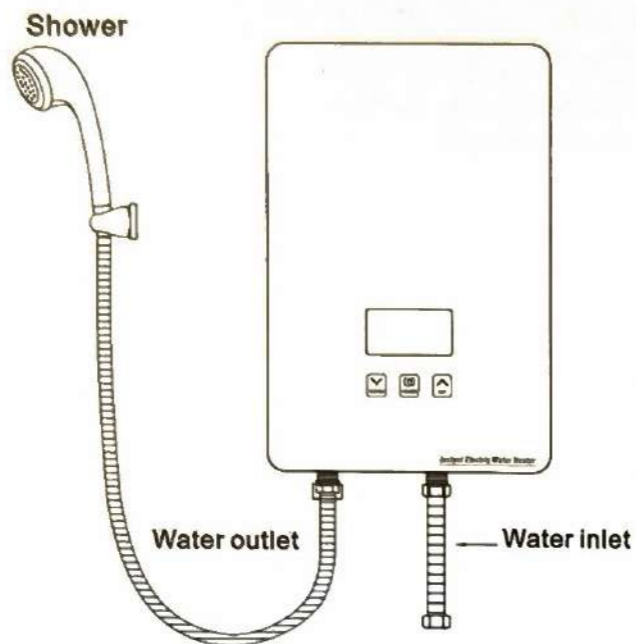
Installation Steps

1. The instant electric water heater must be installed by a qualified professional.
2. Prepare the drill (Φ6mm), monkey wrench, screwdriver, electrician knife, electroprobe, multimeter, pincher, pencil, hammer, adhesive tape and so on.
3. Check the ammeter, air switch and the wire meet the demand or not, make sure if the ground wire is really into the underground.
 - 1) The ground wire should be connected to the underground fully, otherwise, it will cause accident.
 - 2) The ELCB(Earth Leakage Circuit Breaker) must be installed, otherwise, it will cause accident.
4. According to the length of the wire and the position of the ELCB to make sure the position of the machine, then according to the installation drawing to mark the location of the screw holes on the wall in pencil. (As shown) Installing the hanging board on the wall.
5. (As shown) Put the show bar at the specified position, firstly, use the pencil to make a notation for the screw holes, then carefully drill the holes, at last, use the screw to install it.
6. Hang up the machine, put the buckles of the machine into the fixed sheet steel, then pull down to install well.
7. According to the installation drawing, the power line must be connected to the corresponding wire of ELCB. Live wire is red or brown, neutral wire is blue or black, and earth wire is yellow-green. (Before installing, make sure the main switch has been cut off.)
8. Connect the water supply pipe (install the water valve and electric leakage proof valve) with the water inlet pipe and water outlet pipe. One end of the water outlet pipe connects with the electric leakage proof valve, its another end connects with the shower head.

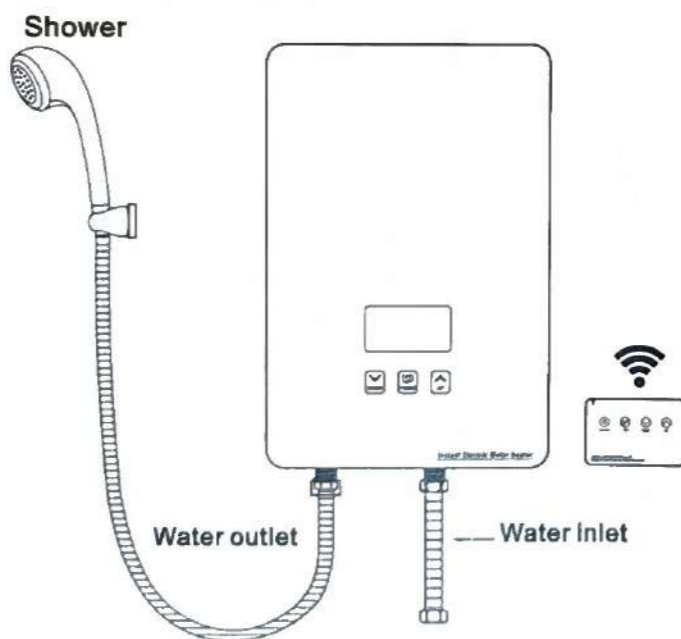
Attention: Every pipe should use gasket, among them, water inlet pipe and relief pressure valve should use strainer. Please be careful when use a wrench to screw water pipes, force can't be too hurry and fierce, in order to avoid damaging the water heater.

Installation Diagram

KR-55



YK-55



This cable can be surfaced clipped, hidden or via 20mm conduit.

Connect the live cable (red/brown) to the terminal marked **L**.

Connect the neutral cable (blue/black) to the terminal marked **N**.

Connect the earth cable (yellow-green) to the terminal marked **E** on the back plate.

Usage

1. 3 Function keys

- 1) "ON/OFF" is power switch <The middle key>;
- 2) "▼" is to reduce the temperature <The left key>;
- 3) "▲" is to increase the temperature <The right key>.
- 4) When the machine is not turned on, put two fingers to press "▼" and "▲" for a moment at the same time, then it will show the power, can press "▼" or "▲" to adjust the power.

2. Usage

- 1) First, switch on the power supply.
- 2) Turn on the water switch, then press "ON/OFF" key.
- 3) Press "▼" or "▲" key to adjust the water temperature for getting the appropriate temperature.
- 4) Using the water valve to control the water flow. The water temperature will go down when the water flow is large, conversely, the water temperature will go up.
- 5) Press "ON/OFF" key to make the machine standby, when not using the machine.
- 6) When the machine is not in use for a long time, please switch off the main power supply.

3. The use and screen display

- 1) When switch on the power supply and turn on the machine, the screen will display the temperature.
- 2) Setting the temperature through the "▼" or "▲" key, also can change the water flow by the water valve.
- 3) When the temperature is over 55°C, it will stop heating automatically to protect from scald.
- 4) When stop using hot water, the water temperature of inner machine still goes up, so the temperature will very hot when use it again, please avert it.
- 5) When stop using the machine, firstly turn it off, then close the water after a few seconds, in order to protect the machine.
- 6) Always switch OFF at the isolating switch when not in use.

Failure Phenomenon	Possible Reason	Treatment
Leakage in the joint of inlet and outlet pipe.	A.Bad connection of inlet and outlet pipe. B.The rubber washer is damaged.	A.Reconnect the pipe. B.Replace the washer.
The water temperature is too high.	A.Water flow is too small. B.Pipeline jam. C.The power or temperature is set too high.	A.Adjust the valve to increase the water flow. B.Clear the inlet filter and shower. C.Select lower power level or turn down the temperature.
The water is too cold.	A.The water flow is too large. B.The voltage is too low. C.The power is too low.	A.Adjust the valve to decrease the water flow. B.Check if the voltage is too low or not. C.Select higher power grade.
Water temperature is unstable.	The voltage or water pressure is unstable.	The voltage & water pressure are back to normal.
The water is smaller and smaller.	The inlet filter or shower is blocked by water impurities.	Remove the water pipe , clean the inlet filter/shower.
ELCB (Earth leakage circuit breaker) switch off the power.	A.Leakage of electricity. B.ELCB aging. C.The current of ELCB is too little.	A.Don't use it. Send to after-sale service to repair. B.Change the ELCB. C.Using ELCB with high current.
The screen has no display.	A.Power is not connected. B.The screen is damaged.	A. Close the switch to connect the power. B. Replace the screen.

Malfunction Code		
Show	Failure analysis	Solution
E1	Leakage of electricity	Send to after-sale service
E2	Exceed 55°C	Select lower power level or turn down the temperature.
E3	Temperature probe of water outlet is wrong.	Replace the temperature probe of water outlet.
E4	Dry burn	Restart machine and adjust lower power.

1. One year warranty.

2. If there is something wrong with your machine, please send it to the factory or your agents, don't open it by yourself.

3. You can give a letter or call, but should provide following information:

- 1) The product's name, model, the actual purchase time.
- 2) The detailed problem of the product.

We will offer the best service to satisfy you.

4. Please read the warranty card for more details.

5. To protect your right of after-sale service, please fill in the warranty card carefully.

Product packing list

Number	Product Name	Unit	Quantity
1	The main body	pcs	1
2	Hanging boards and screws	set	1
3	Shower accessories(selected)	set	1
4	Electric leakage proof valve(selected)	pcs	1
5	Manual and warranty card	pcs	1

Note: Should install safe care and other secure accessories.

Product warranty

Warranty Card

Contact				Telephone	
Product Model		Purchase Date		Installation Date	
Machine Code		Purchase Location			
Charge or not	<input type="checkbox"/> Yes <input type="checkbox"/> No		Reason:	Amount:	
Check power or not		Check leakage or not		Tell how to use or not	
Installation Personnel (signature)			Customer (signature)		
Maintenance Date		Maintenance Personnel (signature)			
Maintenance Situation					
Replacement Of Parts					

Customer Need To Know

1. After finishing installing the water heater, the customer should check and make sure it's well, then fill in the warranty card and sign.
2. If there is any quality problem in one year, depend on this card, can send it to our company or the retailer to repair for free.