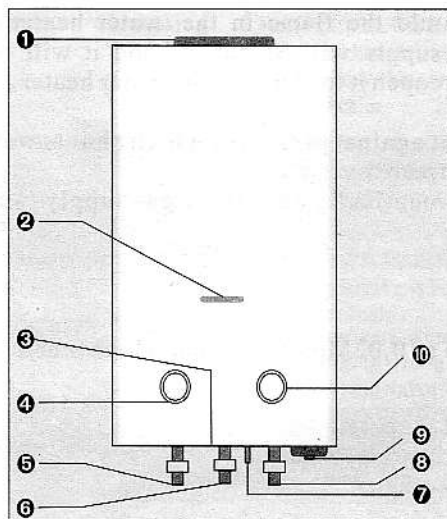


**INSTANT GAS WATER HEATER  
INSTRUCTION MANUAL**

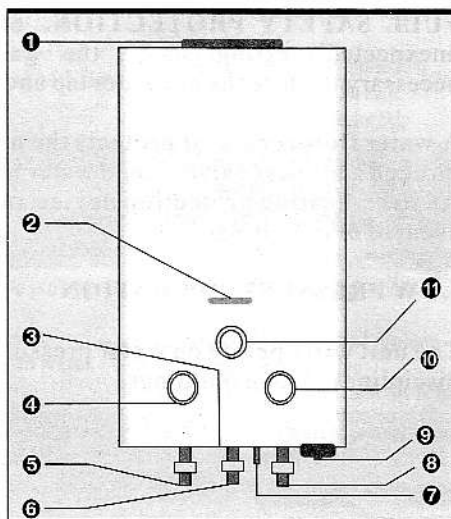
## Feature and description

### Functional part description

- |                            |                           |
|----------------------------|---------------------------|
| 1.Flue pipe joint          | 7. Water discharge valve  |
| 2.Flame observation window | 8. Water inlet            |
| 3.Battery indicator        | 9.Battery box             |
| 4.Flame adjustment knob    | 10. Water adjustment knob |
| 5. Gas inlet               | 11. Winter/summer switch  |
| 6. Water outlet            |                           |



Ordinary Model



Winter/Summer Model

Your KEXIN Water heater

## **HAIL, THIRD MILLENNIUM TECHNOLOGY**

Third millennium technology brings you innovations in design and operation of the burner and heat exchanger unit, and introduces an electro automatic control device in place of a pilot light, together with an enhanced safety protection device. The new exterior design is compact and elegant as well as space saving and in harmony with modern day living.

## **OPERATIONAL FEATURES**

**WINTER/SUMMER FUNCTION**(where fitted) provides a flexible temperature control.

**AUTOMATIC OPERATION.** There is no pilot light to ignite provided the gas and water supplies are present and connected, merely opened. The water tap will ignite the gas in the water heater and provide instant hot water. Closing the hot water tap will stop the water flow through the water heater which will cut off the gas supply and extinguish the flame.

**FULL SAFETY PROTECTION.** Should the flame in the water heater be unexpectedly extinguished, the gas supply will be cut off and it will be necessary to close the hot water tap and reopen it to re-ignite the water heater.

A water flow regulator protects the unit against pressures which shunt water through a by-pass valve should water pressure be too high. An over-heating protection device automatically cuts off the gas supply in the event of over heating.

## **LOW PRESSURE OPERATION**

The unit will operate on water pressure of 0.02Mpa-0.03Mpa, which meets the disciplines of high buildings.

Your KEXIN Water heater

## **INSTALLATION**

### **PAY SPECIAL ATTENTION TO THE FOLLOWING:**

- The installation of your water heater should be effected by a qualified person.
- Only use the type the of gas which is specified for your water heater.
- Installation of the water heater inside the bathroom is not recommended.
- Install an exhaust flue to exhaust the burnt gases to the outside of the building
- Do a safety check on your installation every six months

### **The installation:**

1. The unit should be mounted at a height that places the flame observation window at approximately the same height as the human eye(150-165cm above the floor)
2. The mounting wall should be of flame retardant material. Clear space of at least 30cm must be allowed on both sides of the unit if the mounting wall is not flame retardant, a flame retardant insulation board must be installed between the unit and the all. This insulation board must exceed the size of the unit by 10cm on Each Side as well as top and bottom.
3. The flue pipe must accommodate the size of the water heater's chimney, and should be of flame retardant anti-corrosive material, The flue pipe should be fitted with an H-type hood, or similar, to prevent blow back of burnt gases and the entry of rain into the flue.
4. The gas connections should be done with approved gas hosing(9.5mm)and secured at the joints with hose clamps. A suitable gas pressure regulator must be installed at the gas bottle(Not supplied) Install a gas open and close valve(Optional-not supplied)on the gas supply pipe just before it enters the water heater. This will facilitate the opening and closing of the gas supply to the unit. After making the gas connection, open the gas valves and check the connections for leaks. A liquid, soapy detergent is ideal for this purpose.
5. Water Supply connection. This may be effected with the rubber hose supplied or with steel or copper piping. It is advisable to install an isolation water valve into the water supply line to the water heater to facilitate maintenance or repair.
6. Hot water out connection Proceed for(5)above
7. Battery The ignition system of the water heater is electric(3 volts). Install two#1 batteries (not provided)into the battery box and ensure that the polarity is correct . Close the battery box

Your KEXIN Water heater

## YOUR WATER HEATER IS NOW READY FOR USE

1. Open the gas valve supplying gas to the unit . Open the water supply valve to the unit . Open the water out valve on the unit . The flame will ignite {observe through the flame window } and hot water will flow out of the unit.
2. The water temperature selection knob adjusts the rate of flow of the water through the unit and thus the temperature of the water. The faster water flows through the water heater, the less heat it will absorb and the cooler it will be. Adjust the temperature to the desired level.
3. The flame adjustment knob allows you to increase the size of the flame, and so the water temperature.
4. Switch off the water out valve and water heater will instantly cease to operate.
5. Caution: When the water heater is switched off, the water remaining in the unit is hot, and will gradually cool. If the water heater is re-ignited within a short time the hot water in the unit will be heated again resulting in abnormally hotter water. Check the water temperature with your hand initially to avoid scalding.

## SAFETY ADVICE

1. **PROPER INSTALLATION:** The basic premise of safety is correct installation your water heater has built in safety features to provide you with long-term safe operation. Shoddy installation can negate some of these features. If you are not confident of your ability to properly install your water heater, have a qualified person do the installation.
2. **TAKE PRECAUTIONS AGAINST FIRE.** Do not place flammable goods or volatile substances near the water heater
3. **TAKE PRECAUTIONS AGAINST GAS LEAKAGE.** When your water heater is not being used it is preferable to close the gas supply.
4. Remember that the water heater heats the water with a flame, and , after use the outer cover could be hot . Do not touch it until it has cooled down.
5. **PAY ATTENTION TO VENTILATION.** The water heater should be installed outside of your bathroom in a well-ventilated area. The water heater should be mounted on the inside of an external wall to allow for the fine installation. As an additional precaution an airbrick could be installed at floor level. Gas is heavier than air and any gas leak from an accidentally ruptured gas pipe will be able to flow to the outside before rising too high inside the building.
6. **HYGIENE.** Do not drink the water has passed through the water heater.
7. **PREVENT ACCIDENTS.** If you detect a gas odour, close the gas supply and ventilate the room by opening windows , etc. **DO NOT** activate any electrical or operate the water heater (even though you have turned off the gas the electric igniter in the water heater operated by water pressure and flow). If you are not sure that you can correct the gas leak call in a qualified person . If you detect a odour during use of the water heater, Turn it off immediately and call a qualified person to attend to the problem.

Your KEXIN Water heater

8. PREVENT UNEXPECTED WATER LEAKAGE. Unexpected surges in water pressure can take place thereby placing under pressure on the water components of your water heater. If you do not have adequate pressure control on the incoming water supply to your building, close off the water supply to your water heater when not in use to avoid possible damage. (The water heater is protected against a pressure surge during use.)

9. FREEZING CLIMATES. When the temperature of water drops below 4 degrees Celsius, it starts to expand. At 0 degree Celsius it becomes ice and continues to expand as the temperature drops. This could rupture the inside of your water heater. If you expect freezing temperatures, after use, turn your water heater off, close the gas valve and drain the water out of the unit.

To drain the water close the water supply to the unit; open the water outlet valve; turn the water temperature selector to "low"; open the water outlet valve and drain the unit completely, then close the water outlet valve.

## MAINTENANCE

1. Check the gas hose between the gas supply and the water heater regularly. Check for leaks with liquid detergent. If there are any signs of ageing or cracking, replace the hose.
2. Check for any water leaks at the unit and on all water connections. Solve any problem timeously.
3. Be aware of any unusual burning and call in qualified help.
4. Check and clean out any dust or carbon residue in the heat exchanger every six months.
5. Use a neutral detergent to clean the outside of your water heater. Do Not use solvents, thinners or petroleum, or its by products.

YOUR KEXIN WATER HEATER HAS BEEN MANUFACTURED WITH THE GREATEST CARE AND ATTENTION TO DETAIL TO THE HIGHEST INTERNATIONAL

STANDARDS AND WITH THE UTMOST REGARD FOR YOUR SAFETY, AND, WITH STANDARDS AND WITH PROPER CARE AND ATTENTION, IS DESIGNED TO GIVE YOU YEARS OF TROUBLE FREE SERVICE.

AS THIS WATER HEATER IS BEING INSTALLED AND USED OUTSIDE OF OUR CONTROL, WE CAN NOT BE HELD RESPONSIBLE FOR FAIL USE OF THE UNIT. OR ANY CONSEQUENCE DAMAGE, AS THE RESULT OF SHODDY INSTALLATION ABUSE OF THE UNIT DISREGARD OF THE INSTRUCTIONS OR INEFFICIENT GAS REGULATORS OR THE USE OF IMPURE OR DIRTY WATER AS WELL AS UNCONTROLLED WATER PRESSURE

Your KEXIN Water heater

**Technical parameter****Main technical performance parameter**

Name	Household Quick Gas Water Heater	
Type	JSD18-XX JSD20-XX JSD24-XX JSD32-XX JSD12-XX JSD13-XX JSD14-XX JSD16-XX	
Gas type	Liquefied Petroleum Gas	Natural Gas
Rated Pressure	2800Pa	2800 Pa 2000Pa
Heat Load	12KW(6L) 13KW(6.5L) 17KW(7L) 16KW(8L) 18\KW(9L) 20KW(10L) 24KW(12L) 32KW(6L)	
Control Mode	Water-out Ignition Control	
Smoke Exhaust mode	Secondary Flue	
Ignition Mode	Water controlled pulse ignition	
Suitable Pressure	0.025-05Mpa	
Gas-connection	G1\2 tube or 905mm inner Diameter anti oil rubber tube	
Water-in connection	G1\2 tube	
Water- in out connection	G1\2 tube	
Power Supply	3V(Two1# battery)	
Water Output( $\Delta t=25^{\circ}\text{C}$ )	6L\Min 6.5\Min 7L\Min 8L\Min 9L\Min 10L\Min 12L\Min 16L\Min	

Your KEXIN Water heater

## Trouble-Shooting

### Ordinary trouble-shooting

Symptom	reason	Methods
Start Water valve no Fire	<ol style="list-style-type: none"> <li>1.Havent turned on the general gas valve Or gas tank is empty</li> <li>2.Some air in the gas tube</li> <li>3.Inside water frozen</li> <li>4.Low water pressure</li> <li>5. Safety device started</li> <li>6. Wrong battery direction or low battery</li> <li>7.there is something wrong with the water heater.</li> </ol>	<ol style="list-style-type: none"> <li>1.turn on the general gas valve or change gas tank</li> <li>2.Continuously turn on the water valve until there is fire (Attention turn off the water valve then turn on again in five seconds.)</li> <li>3.Wait until the ice melted</li> <li>4.Switch water knob to "high", if no fire, try to raise water pressure and ask professional persons to help</li> <li>5.Please refer to: How to deal with safety-protection.</li> <li>6.Fix or change the battery.</li> <li>7.Ask the professional persons for help.</li> </ol>
Flame out when using	<ol style="list-style-type: none"> <li>1.The general gas valve is not turned on thoroughly or gas tank is empty.</li> <li>2.The gas pressure is too low</li> <li>3.sate-installation is effective</li> <li>4.Heat exchanger is blocked up.</li> <li>5.theres something wrong with the water healer</li> </ol>	<ol style="list-style-type: none"> <li>1.Turn on the general gas valve Thoroughly or change gas tank.</li> <li>2.raise the general gas valve(better ask professional persons for help)</li> <li>3.Please refer to: How to deal with safety-protection</li> <li>4.Ask profession person for help.</li> <li>5.Ask professional person for help.</li> </ol>
Fire on suddenly	<ol style="list-style-type: none"> <li>1. The general gas valve isn't turned on thoroughly</li> <li>2. Gas pressure is to low</li> </ol>	<ol style="list-style-type: none"> <li>1.Turn on the general gas valve thoroughly.</li> <li>2.Raise gas pressure and replace the gas pressure valve</li> </ol>
Adjusting to "high" place but temperature is not high	<ol style="list-style-type: none"> <li>1. The general gas valve isn't turned on thoroughly</li> <li>2. Gas pressure is too low</li> <li>3. Something wrong with water adjustment valve</li> </ol>	<ol style="list-style-type: none"> <li>1. Turn on the general gas valve thoroughly</li> <li>2. Raise gas pressure and replace the gas pressure valve</li> <li>3.Ask professional person for help</li> </ol>
Adjusting "Low" Its too hot	<ol style="list-style-type: none"> <li>1. Gas pressure is too high</li> <li>2.something wrong with water adjustment valve</li> </ol>	<ol style="list-style-type: none"> <li>1.Reduce gas pressure or place the gas pressure valve.</li> <li>2.Ask the professional person for help.</li> </ol>
When flame goes out	Low water pressure	Try to raise the water pressure
Turn off the water valve but fire is still on	something wrong with water adjustment valve	Ask professional person for help
Flame is unusual and have a smell	<ol style="list-style-type: none"> <li>1.Burner is blocked up</li> <li>2.Heat exchanger is blocked up</li> </ol>	Ask professional person for help
Unusual sound when burning	<ol style="list-style-type: none"> <li>1. Water pressure is too high</li> <li>2.Burner is blocked up</li> </ol>	Ask professional person for help

Your KEXIN Water heater

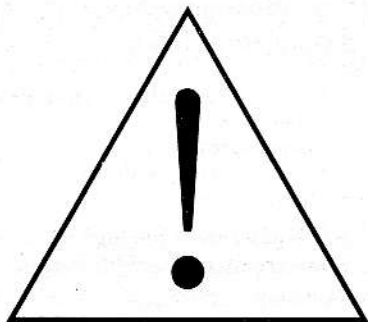


## POSRIPT.

The heater is equipped with various safety protection devices , including excess water press safety devices and an overheating device . These will automatically activate the electromagnetic valve which will cut off the gas supply. Your water heater is also fitted with a flue sensor safety device which will prevent the spillage of exhaust gases into the building .

The following situations are Normal and do not indicate a problem with the water heater .

- 1.Low water pressure supply to the water heater., the gas valve is turned on by water pressure . Therefore , if the water pressure is too low ,the water heater will not work .
2. With more than one hot water outlet is opened at the same time , the flow of water through the water heater will be faster , and the water temperature will drop .
- 3.If hot water is white it means that there is air the system Leave the hot water outlet opened . The hot water will turn clear in a short time.



**USE ONLY LIQUID PETROLEUM GAS**

Safety=a good choice+A proper installation+ A proper usage  
Please read handbook carefully before use

Your KEXIN Water heater