

ELECTRIC GEYSER



# INSTRUCTION MANUAL

Read this manual carefully before operation

Pictures in this manual are for reference only, the product in kind prevail.



Model : CG-EW30I02

This instruction manual contains important information & recommendations that we would ask you to comply with to obtain best results from your products.

## General Remark

- The installation and maintenance has to be carried out by qualified professionals or Midea authorized technicians.
- The manufacturer shall not be held responsible for any damage or malfunction caused by wrong installation or failing to comply with following instructions included in this pamphlet.
- For more detailed installation and maintenance guidelines, please refer to below chapters.

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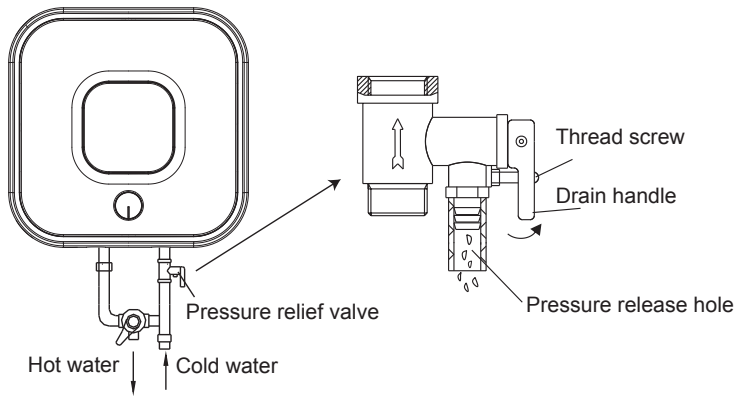
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## 1. CAUTIONS

Before installing this water heater, check and confirm that the earthing on the supply socket is reliably grounded. Otherwise, the electrical water heater can not be installed and used. Do not use extension boards. Incorrect installation and use of this electrical water heater may result in serious injuries and loss of property.

### Special Cautions

- The water heater 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 instructions 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 heater.
- The wall in which the electrical water heater is installed must be able to bear the load more than two times of the heater filled fully with water without distortion and cracks. Otherwise, other strengthening measures must be adopted.
- The supply socket must be earthed reliably. The installation height of the supply socket must not be lower than 1.8m. The rated current of the socket must not be lower than 16A. The socket and plug must be kept dry to prevent electrical leakage. If the flexible power supply cord is damaged, the special supply cord provided by the manufacturer must be selected, and replaced by the professional maintenance personnel.
- The maximum inlet water pressure is 0.5MPa; the minimum inlet water pressure is 0.005MPa, if this is necessary for the correct operation of the appliance.
- When using the heater for the first time (or the first use after maintenance), the heater can not be switched on until it has been filled fully with water. When filling the water, at least one of the outlet valves at the outlet of the heater must be opened to exhaust the air. This valve can be closed after the heater has been filled fully with water.
- The pressure relief valve attached with the heater must be installed at the cold water inlet of this heater, and make sure it is not exposed in the foggy. The water may be outflowed from pressure relief valve, so the outflow pipe must open wide in the air. In order to drain away the water inside the inner container, it can be drained away from the pressure release valve. Twist the thread screw of the pressure release valve off, and lift the drain handle upwards(See Fig.1) . The drainage pipe connected to the pressure release hole must be kept sloping downwards and in a frost-free environment. The water may drip from the discharge pipe of the pressure-relief device and that this pipe must be left open to the atmosphere.
- During heating, there may be drops of water dripping from the pressure release hole of the pressure relief valve, this is a normal phenomenon. The pressure release hole shall not be blocked under no circumstances, otherwise, the heater may get damaged, even resulting in accidents. If there is a large amount of water leak, please contact customer care center for repair.
- The pressure relief valve need to be checked and cleaned regularly, so as to make sure it will not be blocked.
- Since the water temperature inside the heater can reach up to 75℃, the hot water must not be exposed to human bodies when it is initially used. Adjust the water temperature to a suitable temperature to avoid scalding.
- If any parts and components of this electrical water heater are damaged please contact customer care center for repair.



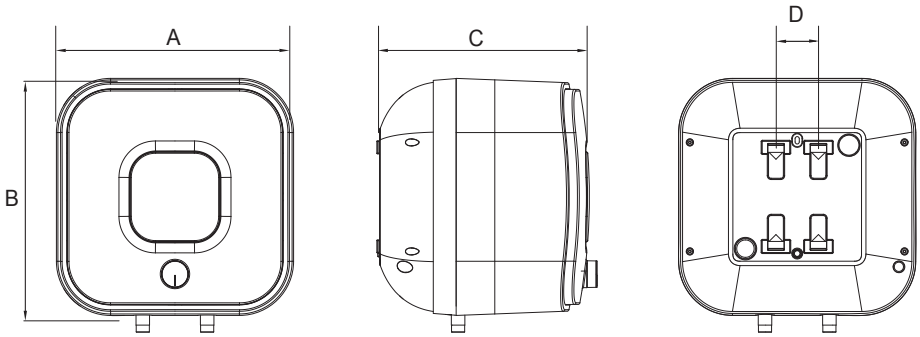
(Fig.1)

## 2. PRODUCT INTRODUCTION

### 2.1 Technical Performance Parameters

Model	Volume (L)	Rated Power (W)	Rated Voltage (ACV)	Rated Pressure (MPa)	Rated Water Temperature (°C)	Protection Class	Waterproof Grade
CG-EW30I02	30	2000	220-240	0.8	75	I	IPX4

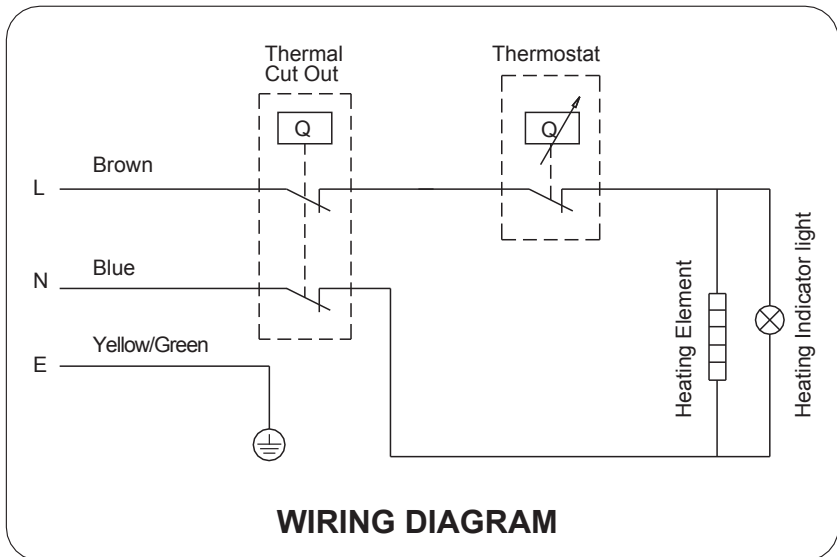
## 2.2 Brief introduction of product structure



	CG-EW30102	
A	440	
B	440	
C	420	
D	66	

(Note:All dimensions are in mm)

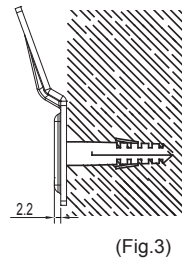
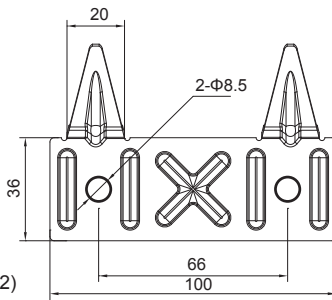
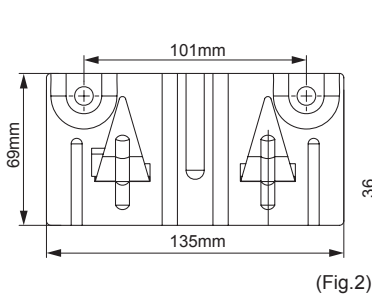
## 2.3 Internal Wire Diagram



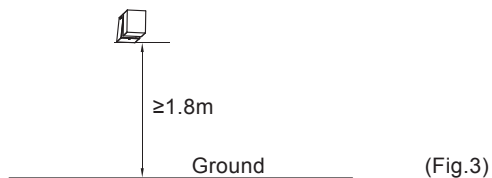
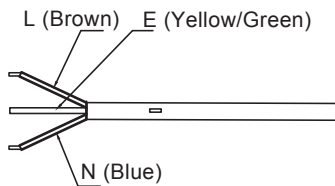
### 3. UNIT INSTALLATION

#### 3.1 Installation Instruction

- ① This electrical water heater shall be installed on a solid wall. If the strength of the wall cannot bear the load equal to two times of the total weight of the heater filled fully with water, it is then necessary to install a special support. In case of hollow bricks wall, ensure to fill it with cement concrete completely.
- ② After selecting a proper location, determine the positions of the two install holes used for expansion bolts with hook (200mm), Make two holes in the wall with the corresponding depth by using a chopping bit with the size matching the expansion bolts attached with the machine, insert the screws, make the hook upwards, tighten the nuts to fix firmly, and then hang the electrical water heater on it (see Fig.2).



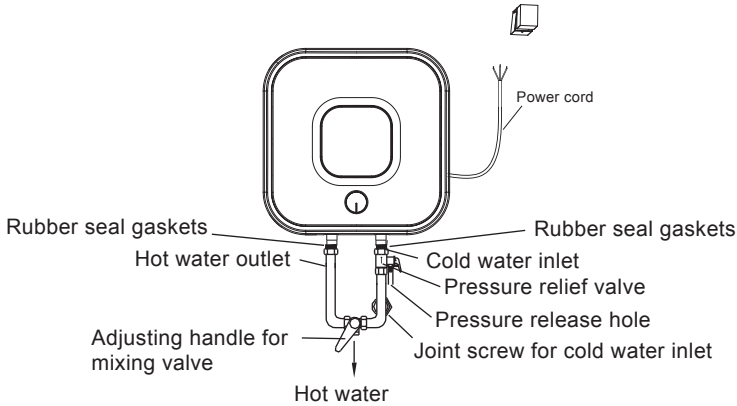
- ③ Install the supply socket in the wall. The requirements for the socket are as follows: 250V/10A, single phase, three electrodes. It is recommended to place the socket on the right above the heater. The height of the socket to the ground shall not be less than 1.8m (see Fig.3).



- ④ If the bathroom is too small, the heater can be installed at another place. However, in order to reduce the pipeline heat losses, the installation position of the heater shall be closed to the location shall be as near as possible to the heater.

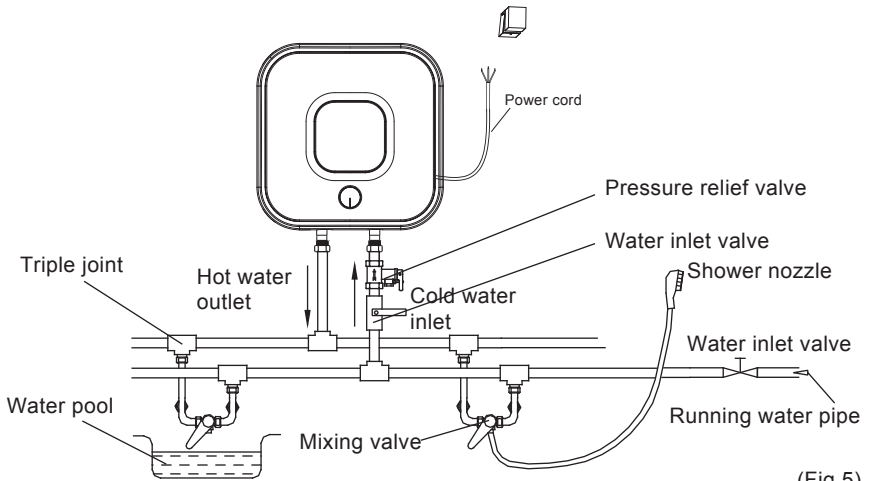
#### 3.2 Pipelines Connection

- ① The dimension of each pipe part is G1/2"; The massive pressure of inlet should use Pa as the unit; The minimum pressure of inlet should use Pa as the unit.
- ② Connection of pressure relief valve with the heater on the inlet of the water heater.
- ③ In order to avoid leakage when connecting the pipelines, the rubber seal gaskets provided with the heater must be added at the end of the threads to ensure leak proof joints (see Fig.4).



(Fig.4)

- ④ If the users want to realize a multi-way supply system, refer to the method shown in fig.5 for connection of the pipelines.



(Fig.5)



## NOTE

Please be sure to use the accessories provided by our company to install this electric water heater. This electric water heater can not be hung on the support until it has been confirmed to be firm and reliable. Otherwise, the electric water heater may drop off from the wall, resulting in damage of the heater, even serious accidents of injury. When determining the locations of the bolt holes, it shall be ensured that there is a clearance not less than 0.2m on the right side of the electric heater, to convenient the maintenance of the heater, if necessary.

## 4. METHODS OF USING

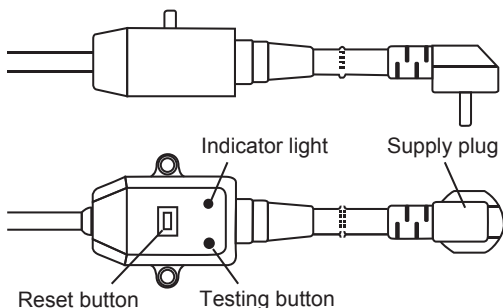
- First, open any one of the outlet valves at the outlet of the water heater, then, open the inlet valve. The water heater gets filled with water. When water flows out of the outlet pipe it implies that the heater has been filled fully with water, and the outlet valve can be closed.



### NOTE

During normal operation, the inlet valve shall be always kept open.

- Insert the supply plug into the socket and check the reliability of the leakage protection device. Press the testing button, the indicator light on the plug shall turn off, and the reset button shall bounce up; then push down the reset button, the indicator light turns on, thus verifying that the leakage protection works well(see Fig.6). During process of using, if the reset button can't be pressed, it shows the leakage protection device fails; if the reset button is pressed down and bounce up again, then it shows the circuit leaks or power supply fails.



(Fig.6)

- If the indicator lights up, the thermostat will automatically control the temperature. When the water temperature inside the heater has reached the set temperature, it will switch off automatically, when the water temperature falls below the set point the heater will be turned on automatically to restore the heating.



(Fig.7)

- ① Rotate the knob according to the marking on the knob to increase or decrease the setting temperature.
- ② In a power-on state, the machine is heating when the indicator light is blue. The indicator light goes out when the heating process is finished, in the insulating state.



## 5. MAINTENANCE

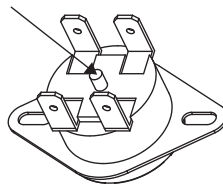


### WARNING

Do cut off power supply before maintenance, to avoid danger like electric shock.

- Check the power plug and outlet as often as possible. Secure electrical contact and also proper grounding must be provided. The plug and outlet must not heat excessively.
- If the heater is not used for a long time, especially in regions with low air temperature (below 0 °C), it is necessary to drain water from the heater to prevent damage of the water heater, due to water freezing in the internal tank. (Refer Cautions in this manual for the method to drain away the water from the inner container).
- To ensure long reliable water heater operation, it is recommended to regularly clean the internal tank and remove deposits on the electric heating element of the water heater, as well as check condition (fully decomposed or not) of the magnesium anode and, if necessary, replace it with a new one in case of full decomposition. Tank cleaning frequency depends on hardness of water located in this territory. Cleaning must be performed by special maintenance services. You can ask the seller for address of the nearest service center.
- The water heater is equipped with a thermal switch, which cuts off power supply of the heating element upon water overheating or its absence in the water heater. If the water heater is connected to the mains, but water is not heated and the indicator doesn't light up, then the thermal switch was switched off or not switched on. To reset the water heater to the operating condition, it is necessary to:
  1. De-energize the water heater, remove the plate of the side/lower cover.
  2. Press the button, located at the center of the thermal switch, see Fig.8;
  3. If the button is not pressed and there is no clicking, then you should wait until the thermal switch cools down to the initial temperature.

Manual reset button



(Fig.8)



### WARNING

Non-professionals are not allowed to disassemble the thermal switch to reset. Please contact professionals to maintain. Otherwise our company will not take responsibility if any quality accident happens because of this.

## 6. TROUBLESHOOTING

Failures	Reasons	Treatment
The heating indicator light is off.	Failures of the temperature controller.	Contact with the professional personnel for repair.
No water coming out of the hot water outlet.	<ol style="list-style-type: none"><li>1. The running water supply is cut off.</li><li>2. The hydraulic pressure is too low.</li><li>3. The inlet valve of running water is not open.</li></ol>	<ol style="list-style-type: none"><li>1. Wait for restoration of running water supply.</li><li>2. Use the heater again when the hydraulic pressure is increased.</li><li>3. Open the inlet valve of running water.</li></ol>
The water temperature is too high.	Failures of the temperature control system.	Contact with the professional personnel for repair.
Water leak.	Seal problem of the joint of each pipe.	Seal up the joints.



### NOTE

Parts illustrated in this use and care manual are indicative only, parts provided with the product may differ with illustrations. This product is intended for household use only. Specifications are subject to change without notice.

## A Quality Product Of



### **IMPORTANT INFORMATION FOR CORRECT DISPOSAL OF THE PRODUCT IN ACCORDANCE WITH EC DIRECTIVE 2002/96/EC.**

At the end of its working life, the product must not be disposed of as urban waste. It must be taken to a special local authority differentiated waste collection centre or to a dealer providing this service.

Disposing of a household appliance separately avoids possible negative consequences for the environment and health deriving from inappropriate disposal and enables the constituent materials to be recovered to obtain significant savings in energy and resources. As a reminder of the need to dispose of household appliances separately, the product is marked with a crossed-out wheeled dustbin.