

# Little Sea-ox

Haier Household Electric Water Heater

User' Manual

# Haier

FCD—JTHA40-III (E)

FCD—JTHA50-III (E)

FCD—JTHA60-III (E)

## Haier Group

Qingdao Economic and Technological Development District  
Haier Water Heater Co., Ltd.

Haier Garden, Qianwangang Road, Economic Development Zone, Qingdao, P. R. China

Rev. 01  
Specific Number 0040501679

- Please read this manual before usage
- Retain it for future reference

Haier

## Pre-safe Expert



Mark of  
Haier **Safe** Water Heaters

This mark is the designation for Pre-Safe Expert of Haier Water Heater Company, which indicates use of the company's patented technology inside the product. It ensures you a safe bath while monitoring whether your house ground wire is live or not all the time. If this mark is lighted on, it indicates your house ground wire has come live (poor grounding and live). In this case, please immediately stop use and unplug from the power supply, and remember not to touch any electric appliance shell in your house. At the same time, immediately contact after-sales service and your property management company for professional repair until the mark goes off.

Pre-Safe Expert will become the electric safeguard for your family.

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● See to the physical product for the appearance, color or pattern.

## Packing List

Name	Electric water heater (set)	Safety valve (pcs)	Drain hose (ply)	Expansion bolt (pcs)	Expansion hook (pcs)	User's manual (copy)
Quantity	1	1	1	2	2	1

## Cleaning and Maintenance

**Statement:** This water heater shall only be repaired and maintained by qualified servicemen. Improper maintenance may cause severe injury or damage. Before opening or repairing water heater, please do pull out the power plug.

**Note:** Before asking for service, please refer to troubleshooting section to resolve easy problems.

- **External Cleaning:** Disconnect power supply before cleaning. Gently wipe with wet cloth dipped with a little of mild detergent. Do not use gasoline or other solvents. Finally dry with dry cloth. Keep water heater dry. Do not use cleansers containing grinding agent (e.g. toothpaste), acids, chemical solvents (e.g. alcohol) or polishers to clean.
- **Internal Cleaning:** To ensure high working efficiency, heating elements and tank liner of water heater shall be cleaned once in three years. Take care not to damage protection layer on heating elements and tank liner inner surface. According to different local water qualities and use habits, magnesium rod shall be periodically replaced. If maintenance is needed, please contact local service station.

## FAQ

Problems		Possible Causes to be Confirmed	Corrective Measures
No outlet water		If water supply is stopped or water pressure is too low	Check
		If use point is blocked or if hot water valve is open	Check and clean
Outlet water is cold	Heating lamp lighted	If heating element is damaged	Contact service station
	Heating lamp not lighted	If power is connected	Connect power
		If thermostat is out of work	Contact service station
Heating lamp keep lighted for long		Water hasn't reached temperature setting	Continue heating
		If thermostat is out of work	Contact service station
Outlet water flow and temperature is not steady		If city water pressure is steady	Check

## Before Usage

Dear users,

Thanks for choosing Haier water heater product.

Haier products have good quality and excellent performance. To facilitate you to use the product, please read the manual and operate accordingly. Please retain it for future reference.

The international star service of Haier Group will always accompany you. No matter what kind of problems you meet in usage, please contact with the local after-sales service agent. We are at your service all the time. Thanks again for choosing Haier Product.

The water heater you purchased may not fully comply with the manual due to the improvement of product. We apologize for the inconvenience occurred therefrom.

## Features

1、Safety:

High-quality heat proof stainless steel electric heating element, overtemperature protection; overpressure protection of tank; safe and reliable.

“Safe Care” patented design together with the function of monitoring and displaying of live ground wire has become a real safeguard for family safety.

2、Durability:

The shell adopts dusting anticorrosion treatment, handsome and durable enamel tank, with reliable quality and long operation life.

3、Convenience:

Adjustable heating temperature. Adjustable water temperature.

Adjusting range: water inlet Temperature ~75°C.

4、Multiple usage:

Enclosed structure, capable of supplying water to multiple places like toilet, kitchen etc. Suitable for family, enterprises, service trades like beauty care on hot water supply (not drinkable).

5、Nice molding, horizontal type wall-mounting design, saving space.

The water heater you purchased is the improved model of the series product. Please operate according to the user's manual.

## Parameters

Rated voltage: 220V~,50Hz

Power: 1500W

Rated pressure: 0.65/ 0.75MPa

Waterproof grade: IPX 4 (▲)

Dimension: (See to Figure 1)

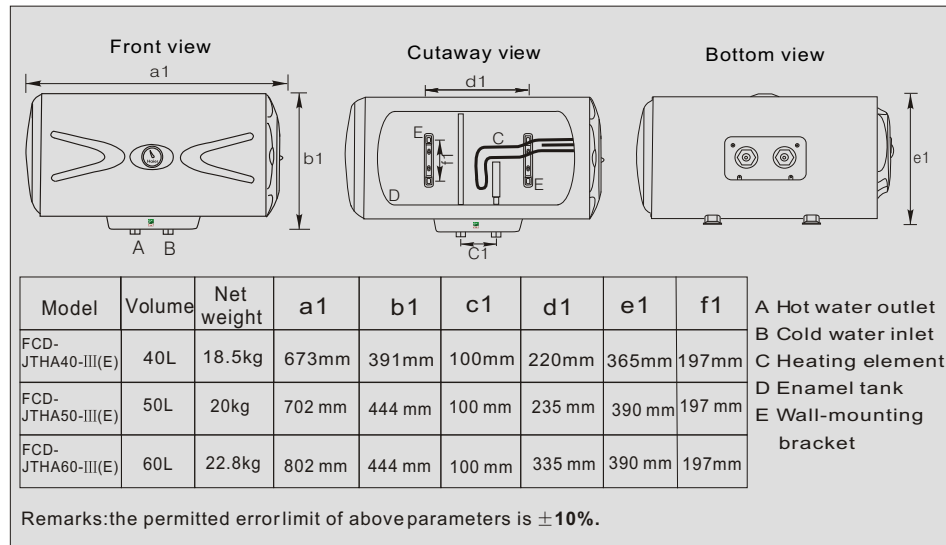
Weight: (See to Figure 1)

Volume: (See to Figure 1)

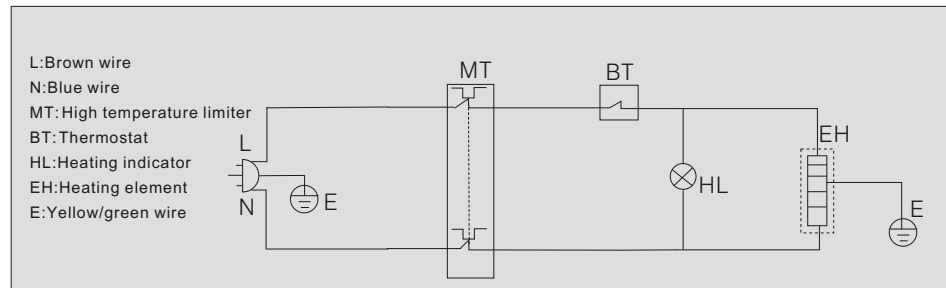
Tap water pressure: no less than 0.05MPa

## Dimensions

(Figure 1)



## Electric Circuit Diagram



## Operation Instructions

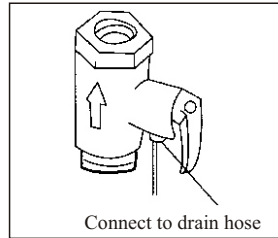
- For the first use after installation, due to there's no water within the tank, first the city water inlet valve and mixing valve must be opened. Close the mixing valve when water flows out continuously from the showerhead or other outlets (the tank is full). Check connections are free of water leakage, and insert the power plug.
- Turn the knob to set your desired water heating temperature, which can be stepless changed between cold water inlet temperature and 75°C. In heating mode, heating lamp is lighted on. Normally the knob shall be positioned at highest temperature. This machine has a thermostat function, which automatically switches off the water heater when temperature reaches the setting value, and switch on again when water temperature decreases to certain value.
- City water pressure  $\geq 0.75$  MPa will cause much water flowing out from safety valve pressure relief vent. This is due to too high water pressure. Please ask after-sales service for correction. (The rated pressure of FCD-JTHA40-III(E) is 0.65 MPa )

## Attentions in Operation

1. To avoid causing machine troubles, do not connect power before tank is full of water.
2. Adjust a suitable temperature before use, for water temperature above 50°C may burn your skin.
3. This product is closed water heater, which can supply hot water through pipe connection to several points like bathroom (bathtub, washbasin, showerhead) and kitchen.
4. Heating adjustment can be made flexibly all year round adapting to climate changes. In long-term out-of-use or maintenance, you can close city water pipe valve, open mixing valve to hot water range, and move up safety valve handle to drain the tank. To avoid injury, before next use, it is suggested to first open hot water valve before switching on the water heater, exhausting gas possibly retained in the pipeline. In this case, no smoke or fire is permitted near the open valve. Carefully check and confirm all parts are in good condition.
5. Provided hot water quantity can meet use demand, temperature setting shall be possibly low. It can minimize heat dissipation, high-temperature corrosion and sedimentation, ensuring a longer service life.
6. Regularly ask servicemen to make safety inspection, remove sediment on heating elements, and check consumption of anode bar. Too much consumed anode bar shall be replaced.

# Installation

- The water may drip from the discharge pipe of the pressure relieved device and that this pipe must be installed in a continuously downward direction and in a frost-free environment. Check safety valve once a month as follow: move the small handle of safety valve, if there's water flowing out, safety valve is normal; if there's no water flow, please contact local after-sales service station.
- The pressure relief device is to be operated regularly to remove lime deposits and to verify that it is not blocked.



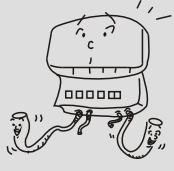
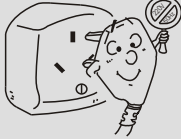
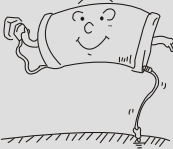



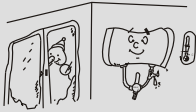
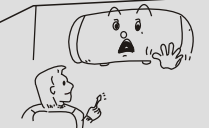
Connect to drain hose

(Figure 4)

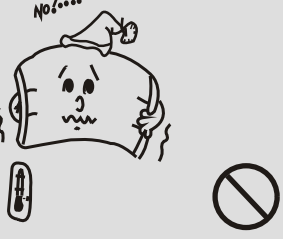
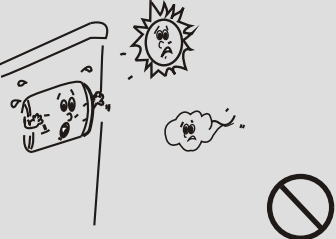
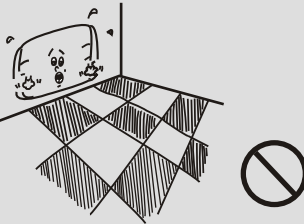
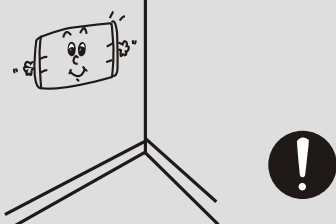
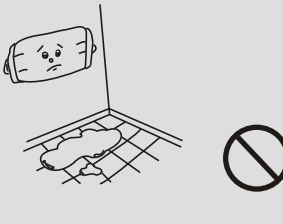
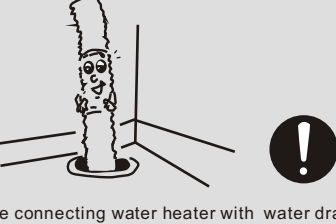
# Attentions in Installation

- During installation, adequate space must be reserved for future maintenance and repair. If the water heater is installed within decoration boards, the right board shall be removable to facilitate removing the plastic cover during maintenance.
- City water inlet pressure shall not be less than 0.05 Mpa.
- Electric water heater shall be installed indoors with ambient temperature above 0°C. The pipes shall be collectively laid. Hot water outlet shall not be too far from use points. In case farther than 8 m, hot water pipe shall have a thermal insulation to minimize heat loss.
- The mounting wall shall be firm and reliable to support twice the weight of water heater full of water. Non-load bearing walls or air brick walls must have corresponding protective measures like additional support, wall-through screws or back boards.
- Electric water heater shall be located in a place easy for use, maintenance and with a floor drainer. In case the tank or pipes leak, nearby or lower facilities shall not be damaged. The installation location shall avoid being above toilet bowl, bathtub, washbasin or doorframe, where will cause a suppressed or unsafe feeling to users.
- Power socket for water heater shall be in a dry place free of water splash. (splash-proof box is preferred)
- Do not confuse inlet and outlet water pipes. Safety valve shall be installed at designated position with no random modification.

# Safety Precautions



 <p>Check if the ammeter and the diameter of the wires are in accordance with the rated current of the water heater. If necessary please have it checked by experienced electrician.</p>	 <p>The water heater adopts power supply of 220V~ ,50Hz.</p>
 <p>Be sure to use independent receptacle and earth it reliably. The receptacle shall comply with the stipulation of national standard.</p>	 <p>Set the receptacle of the water heater at dry position away from water spraying. Do not insert and pull the power plug with wet hands.</p>
 <p>After installation, be sure to fill the heater completely with water before switching on the power in the first usage. Children must take bath under the supervision of adult.</p>	 <p>In opening and closing the water valve, do not point the shower head to human body. Otherwise it may hurt by the spraying hot water.</p>
 <p>In winter of cold area, if the heater is idle for a long period, please pull the handle of safety valve to discharge the water. Otherwise it may freeze inside the water heater and cause damages.</p>	 <p>In case the power cord of the water heater is damaged, be sure to have it replaced by after service technicians with special cord offered by the manufacturer.</p>
<p>The product adopts the patent "Safe Care" technology of our company. As long as adopting civil power supply, even if the earthing wire is electrified by mistake, the "Safe Care" technology still can block the dangerous electricity, and ensure your personal safety. But if you find perceptible current, please pull off the power plug and contact local after service department for maintenance. Do not disassemble by yourself.</p>	
<h3>Description of the Symbols</h3> <ul style="list-style-type: none"> <li> Never do that</li> <li> Be sure to act as per instructions</li> </ul>	

## Setting Environment

 <p>Do not set it at place where is too cold and may freeze.</p>	 <p>Do not set at outdoor places.</p>
 <p>Do not use as floorstanding appliance.</p>	 <p>Please mount it to firm and reliable wall.</p>
 <p>Do not install to places without sewer.</p>	 <p>In case connecting water heater with water drain hose, connect the drain hose to the inlet of the sewer to avoid polluting by splashing.</p>

The original pipeline of the water heater is an organic part of "Safe Care". Do not remove it by yourself. Otherwise we will not take responsibility for the injury and loss caused by the safety trouble occurred therefrom.

### Description of the Symbols

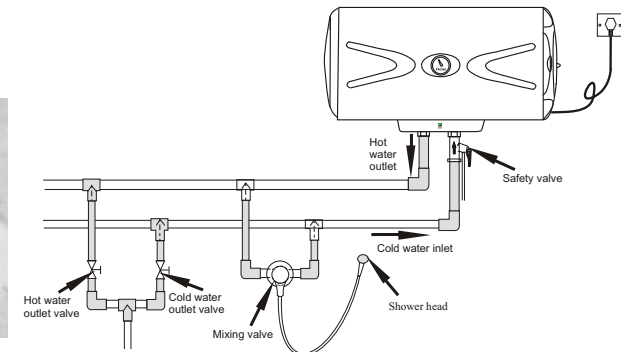
-  Never do that
-  Be sure to act as per instructions

## Installation

- Installation must be made by installers of or designated by our company after-service department. The water heaters shall be wall-mounted.
- Before installation, make sure water heater rear wires are fit firmly. Determine an installation location. Make four holes  $\Phi 12\text{mm}$ , 65 mm deep in the wall with an impact drill according to installing dimension. Insert fix expansion hooks and expansion bolts in corresponding wall holes. Lift the water heater. Insert wall rack onto the hooks and bolts. Fit flat washers, rear wires and nuts in turn onto the bolts (see Figure 2). Tighten the nuts and check them firm. Install accessories such as safety valve, drain hose as shown in Figure 3. Use sealing compound to prevent water leakage.
- To facilitate installation and removal, it is suggested a G 1/2" movable nut is fitted at appropriate locations on inlet and outlet pipes respectively. Find water supply location. Connect inlet pipe, outlet pipe and city water pipe respectively to the use point.
- The hot water pipe shall not be too long to reduce the heat losses.
- Please reserve some space in installation for the future maintenance.



(Figure 2)



(Figure 3) for reference in installation only

Connection and use of safety valve:

- The safety valve should be connected to the cold water inlet pipe. Please check carefully if the direction is correct after installation. The correct direction of installation is that the arrowhead on the safety valve should point to the water heater.
- Please connect the drain hose to the safety valve. Connect one end of the hose to the safety valve vent and the other end to the sewage drain. The hose can be cut short or extended as necessary. The hose shall be installed as inclined downward. (see to Figure 4)

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