

# Little Sea-ox

Haier Household Electric Water Heater

User's Manual

# Haier

FCD-JTHC80A-III (E)

FCD-JTHC100A-III (E)

## Haier Group

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Rev. 01  
Specific Number 0040501612

- 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.

## Friendly Hints

1. If water supply cutoff occurs in your home, please disconnect the power. Before connecting power again, please open mixing valve to the mostest pitch of the hot water, watch the showerhead until water comes out (indicating tank is full) and close mixing valve. This can ensure a longer life of heating element.
2. If you live in high-rise apartment with water pressure beyond rated range (e.g. more than 0.7 MPa), it is suggested you purchase a pressure reducing valve, which can ensure reliable operation and normal service life of the water heater.
3. To ensure water heater life, a magnesium rod is used to resist corrosion. Like a battery, magnesium rod is consumed and needs replacement. It is suggested you contact our after-service once in two years to purchase a replacement magnesium rod. This can ensure a much longer water heater life.

Note: Above hints only apply to electric water heaters.

## Cleaning and Maintenance

- 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.
- Tank Liner Cleaning: Do pull out power plug before cleaning. To clean, close water inlet valve, open outlet valve, take down drain plug and empty the tank. Then open water inlet valve to flush for several minutes until clean water flows out. Fit the drain plug back.

## 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
Heating lamp keep lighted for long		If thermostat is out of work	Contact service station
		Water hasn't reached temperature setting	Continue heating
Outlet water flow and temperature is not steady		If thermostat is out of work	Contact service station
Outlet water flow and temperature is not steady		If city water pressure is steady	Check

## Packing List

Product Model	Qty.	Part Name	Electric water heater (set)	Safety valve (pcs)	Drain hose (ply)	Expansion bolt (pcs)	Expansion hook (pcs)	User's manual (copy)	Small piece pack (bag)
FCD-JTHC80A-III(E)			1	1	1	2	2	1	1
FCD-JTHC100A-III(E)			1	1	1	2	2	1	1

## Before Usage

Dear User,

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 figure in the manual due to the improvement of product. We apologize for the inconvenience occurred therefrom.

## Features

### 1. Safe:

High-quality imported heat-resistant stainless steel heating element, corrosion resistant and more reliable. Over-temperature protection, tank liner over-pressure protection and "Safe Care" patented design together with the function of monitoring and displaying of live ground wire have become a real safeguard for family safety.

### 2. Durable:

Specially treated shell. Elegant and durable.

Tank liner produced with 3-layer liner enameling technology. More reliable quality.

### 3. Easy to use:

Heating temperature adjustable. Easy and flexible operation.

Water temperature adjustable between inlet temperature ~ 75°C.

Product itself provided with a drain for regular tank cleaning and thus hot water of higher quality.

### 4. Multi-purpose:

Closed structure suitable to connect several outlets for water use in locations like washroom and kitchen. (outlet water is not suitable to drink) Suitable for use in homes, enterprises and institutions, and service trade like hair & beauty saloons.

### 5. Horizontal installation, elegant style and space saving.

Your water heater is an improved product of this series. Please use it as instructed in this manual.

## Parameters

Rated voltage: 220V~, 50Hz

Power: 1500 W

Rated pressure: 0.75 Mpa

Waterproof grade: Antisplash (▲)

Dimensions: (see to Fig. 1)

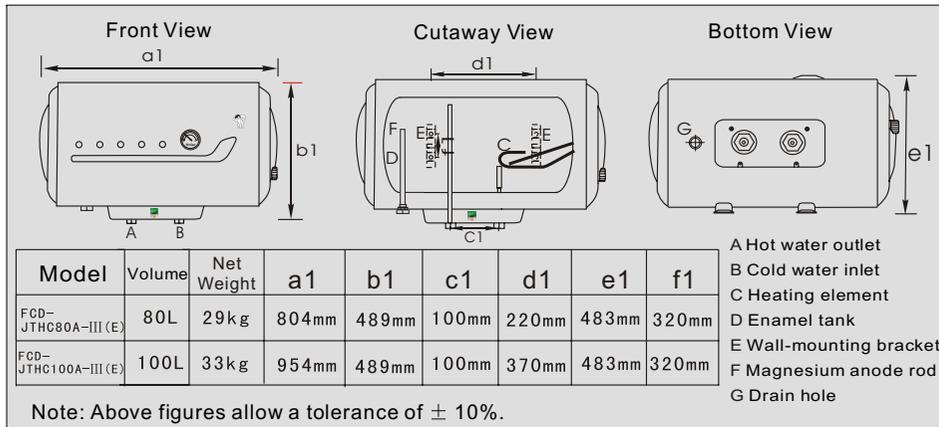
Weight: (see to Fig. 1)

Volume: (see to Fig. 1)

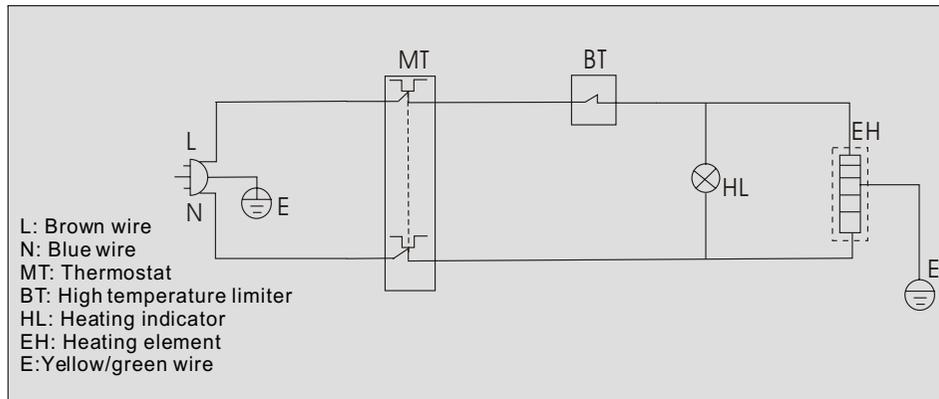
Tap water pressure: not less than 0.05 MPa

## Dimensions

(Fig. 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  $\geq 0.075$  MPa will cause much water flowing out from safety valve pressure relief vent. This is due to too big water pressure. Please ask after-sales service for correction.

## Attentions in Operation

- To avoid causing machine troubles, do not connect power before tank is full of water.
- Adjust a suitable temperature before use, for water temperature above 50°C may burn your skin.
- Check safety valve once a month as follows: move 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.
- This product is closed water heater, which can supply hot water through pipe connection to several points like bathroom (bathtub, washbasin, showerhead) and kitchen.
- 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, 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.
- 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.
- 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.

## 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.

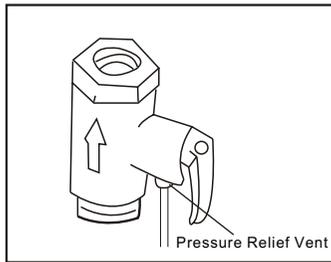
Note: Before asking for service, please refer to troubleshooting section to resolve easy problems.

- 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.

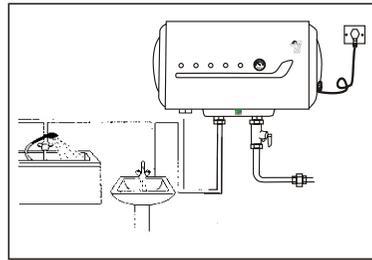
## Installation

### Connection and Use of Safety Valve:

- After switching on the water heater, a little water will drip from the safety valve pressure relief vent due to normal expansion. The vent shall always keep open to the air. Avoid being blocked.
- 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. To avoid splash, the hose shall be installed as inclined downward.
- Fix the showerhead holder at a suitable place on the wall, and place the showerhead on the holder. After making sure the tank is full of water, connections show no water leakage and power supply complies with requirement, connect the power supply and make trial operation.



(Fig.4)

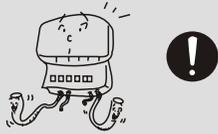
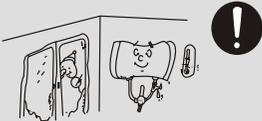


(Fig.5)

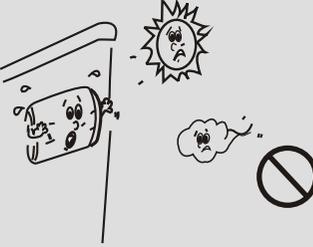
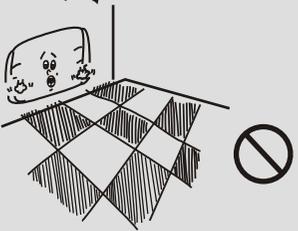
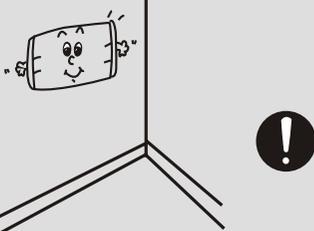
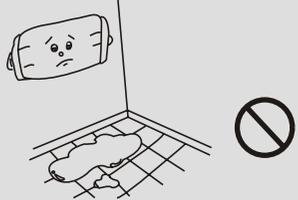
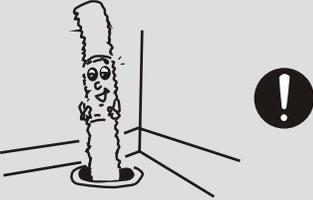
## Attentions in Installation

- 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 backboards.
- 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. The safety valve pressure relief vent shall keep open to the air. Do not block it.

## Safety Precautions

 <ul style="list-style-type: none"> <li>Check if power meter and wire size are consistent with water heater rated current. If necessary, ask experienced qualified electricians to check.</li> </ul>	 <ul style="list-style-type: none"> <li>The water heater shall use a.c. 220 V / 50 Hz power supply from a separate socket (no multi-purpose socket) and be reliably grounded. The power socket shall meet national standard requirements. Power plug pins shall be cleaned in time to avoid any contamination causing accidents like fire.</li> </ul>
 <ul style="list-style-type: none"> <li>Do not use damaged wire, socket or appliances with loose plug, otherwise accidents like electric shock, short circuit and fire may occur. Make sure power plug closely fits with power socket.</li> </ul>	 <ul style="list-style-type: none"> <li>Power socket for water heater shall be located in a dry place free of water spray. Do not insert or pull the power plug with wet hands, for accidents like electric shock or injury may happen.</li> </ul>
 <ul style="list-style-type: none"> <li>For first use after installation, the tank must be full of water before connecting the power. Otherwise, heating element overheat may cause troubles. Children taking shower must be attended by adults.</li> </ul>	 <ul style="list-style-type: none"> <li>Please do not point the showerhead towards human body when turning on or off the faucet, avoiding to be scalded by a small stream of hot water.</li> </ul>
 <ul style="list-style-type: none"> <li>In winter in cold regions, for long-term out-of-use, please lift the safety valve handle to empty the water, avoiding ice formation damaging the water heater.</li> </ul>	 <ul style="list-style-type: none"> <li>Damaged power cord must be replaced by after-service technicians with special cable (factory provided). Other persons shall not dismantle or repair. In addition, do not place flammable matters nearby the water heater.</li> </ul>
<p>The product adopts Haier "Safe Care" patented technology. In normal installation, even in severe case that ground wire is live due to wrong connection, the product "Safe Care" technology can filter and efficiently ensure your safety. However, whenever you feel a sensory current, please pull out the power plug and notify local after-service men in time. Do not dismantle by yourself.</p>	
<h3>Symbol Denotation</h3>	
<p>⊘ Do not proceed! Wrong operation may cause fatal injury or death.</p>	
<p>⚠ Do follow the instructions! Wrong operation may cause human injury or house property loss.</p>	

# Setting Environment

 <p>Do not locate in freezing places. If ice forms, tank and pipes will break, causing scalding and leakage.</p>	 <p>Do not install it outdoors.</p>
 <p>Do not install it as stand-alone.</p>	 <p>It shall be hung on firm and solid wall.</p>
 <p>Do not install it in places unable to drain water.</p>	 <p>If a drain hose is connected, it shall be connected to sewage drain, avoiding spilling the room.</p>

The tubes and pipes fitted on the product are inseparable parts of the "Safe Care" technology, and shall not be removed by yourself. Otherwise, Haier shall not be liable for any damages or injuries caused due to resulted potential risks.

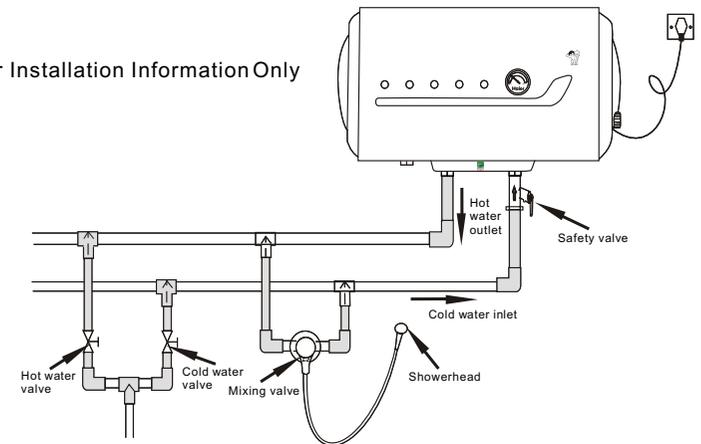
## Symbol Denotation

-  Do not proceed! Wrong operation may cause fatal injury or death.
-  Do follow the instructions! Wrong operation may cause human injury or house property loss.

# 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 12mm, 65 mm deep in the wall. Insert and 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, spring washers and nuts in turn onto the bolts. Tighten the nuts and check them firm. Install accessories such as safety valve, drain hose as shown in Fig. 2. 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. Note: To avoid heat dissipation, hot water pipe shall not be too long.
- For easy future maintenance and repair, adequate space must be reserved during installation.

(Fig.2) For Installation Information Only



(Fig.3)

