

Haier

Inspired Living

English

Electric Water Heater Instruction manual

ES10V-SQM1(EU)
ES10V-SQM2(EU)
ES15V-SQM1(EU)
ES15V-SQM2(EU)
ES30V-SQM1(EU)
ES30V-SQM2(EU)

- This manual was originally written in English. All other versions are translations of the original.
- Please read this Manual carefully before use
- Please keep this manual for future reference
- Look at the physical product for the appearance,color or pattern.

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Safety Instructions (Please read before use)

Meanings of Icons



Forbidden

Prohibited



Warning

Compulsory Matters



Caution

Essential Matters



If the water heater does not work properly or emits a burnt smell, immediately disconnect the power supply and contact our Service Centre.



Warning

The product is only available for alternating current 220V-240V 50Hz.



Earthing

For safety reasons, the water heater should be connected to independent sockets (do not use adapters), with a reliable earthing. In addition the socket outlet must comply with national standards.

The use of a water heater without a reliable earthing is strictly prohibited. Use a pen multimeter to check that the live and neutral wires are reversed.



Warning

Do not use damaged cables and sockets. Clean the dust from the plug and socket immediately.



Warning

Check the amperemeter and the diameter of the electric cable to ensure that they match the rated current of the water heater. If necessary, contact a qualified electrician to check the circuit.



Forbidden

It is strictly forbidden for non-professionals to repair, service, dismantle or modify the water heater.



Forbidden

It is strictly forbidden to install the water heater outdoors.



Forbidden

Do not install the heater in an environment prone to ice formation.

Ice will cause the tank and water pipe to rupture, resulting in scalding and water leaks.



Warning

To prevent damage to the water heater from freezing, take precautions in cold weather.



Warning

If the power cord is damaged, it must be replaced by the manufacturer, its agent or similarly qualified persons in order to avoid danger.



Warning

The appliance is intended to be permanently connected to the water supply and not to be and not connected by a hose set.

Safety Notices(Please read before use)

Meanings of Icons



Forbidden

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Warning

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Caution

Essential Matters



Forbidden

Do not touch the plug with wet hands, and ensure that the water heater and socket do not come into contact with water. If they are accidentally wet, they must be checked by professions appointed by our company before using, in order to prevent electrocution.



Forbidden

It is strictly forbidden to store flammable and explosive materials near the heater.



Caution

This appliance can be used by children aged from 3 years of age and by persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge, if they are given supervision or instruction in the safe use of the appliance in a safe way and are aware of the hazards involved. Do not allow children to play with the appliance. Do not allow children to clean or maintain the appliance without supervision. Children between the ages of 3 and 8 may only operate the tap connected to the water heater.



Caution

Take care not to be scalded by hot water.

- It is strictly forbidden to touch the hot water valve and pipes.
- Always check the water temperature before use and only use the appliance when it feels comfortable.



Forbidden

Do not use water from the water heater for drinking or similar purposes.



Caution

The water may drip from the discharge pipe of the pressure relief device and that this pipe is open to the atmosphere. The discharge pipe connected to the pressure relief device must be in a continuously downward direction and in a frost-free environment.



Caution

The pressure-relief device must be operated regularly to remove limescale deposits and to check that it is not blocked.



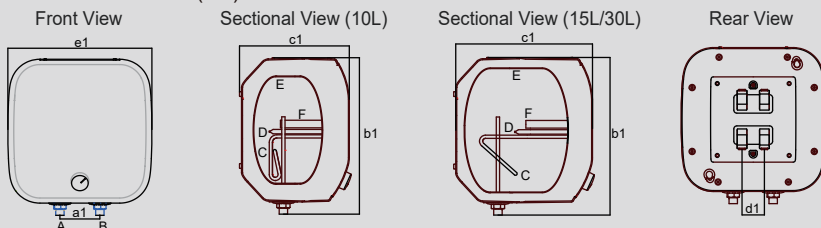
Forbidden

Do not disconnect the power supply during installation or repair work.

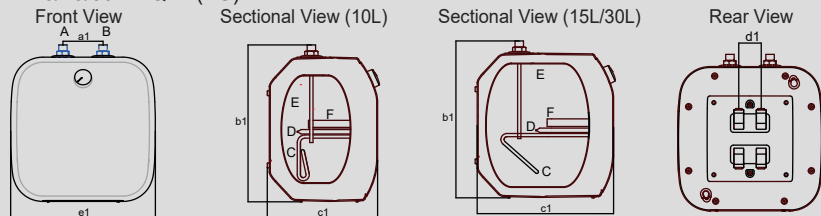
Specification

Introduction of exterior and accessories

ES10/15/30V-SQM1(EU)



ES10/15/30V-SQM2(EU)



Model	Tank volume	a1 (mm)	b1 (mm)	c1 (mm)	d1 (mm)	e1 (mm)
ES10V-SQM1(EU)	10L	100	400	270	55	360
ES10V-SQM2(EU)	10L	100	400	270	55	360
ES15V-SQM1(EU)	15L	100	400	340	55	360
ES15V-SQM2(EU)	15L	100	400	340	55	360
ES30V-SQM1(EU)	30L	100	485	380	55	445
ES30V-SQM2(EU)	30L	100	485	380	55	445

- A Hot water outlet
 B Cold water inlet
 C Heating pipe
 D Temperature gauging pipe
 E Inner chamber
 F Anode rod

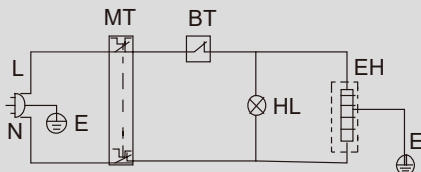
Notes: The allowable error range for the above parameters is $\pm 10\%$.

Technical data

Model	Rated voltage/frequency	Rated power	Rated temperature	Waterproof rating	Rated pressure	Net weight
ES10V-SQM1(EU) ES10V-SQM2(EU)	220V-240V~/50Hz	1500W	75°C	IPX4	0.75MPa	7kg
ES15V-SQM1(EU) ES15V-SQM2(EU)	220V-240V~/50Hz	1500W	75°C	IPX4	0.75MPa	8.5kg
ES30V-SQM1(EU) ES30V-SQM2(EU)	220V-240V~/50Hz	1500W	75°C	IPX4	0.85MPa	14kg

Electrical Diagram

- L: Brown wire
 N: Blue line
 MT: High temperature limiter
 BT: Thermostat
 HL: Heating indicator
 EH: Heating element
 E: Yellow/green wire



Installation

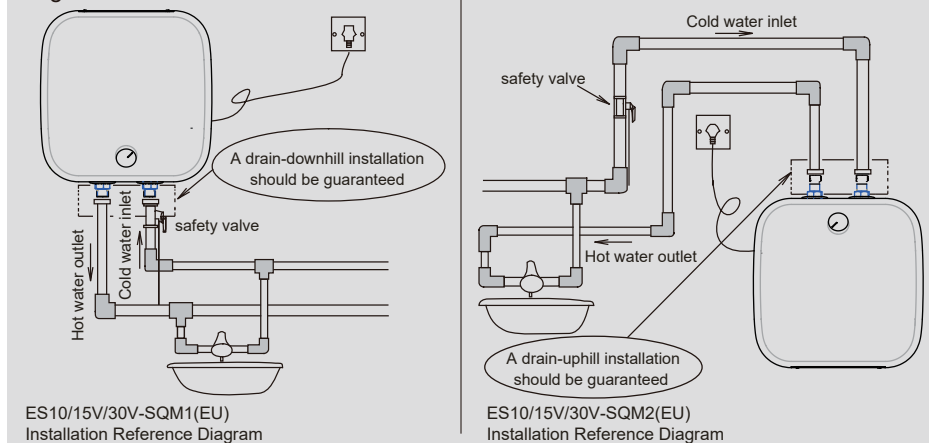
Installation precautions

- Before installation, select the correct installation method according to the actual water inlet and outlet of the water heater. The water heater is wall mounted. The wall on which the water heater is to be mounted must be solid and strong enough to support the weight of the water heater with two full tanks of water.
- When installing, leave some space for future maintenance. During installation, ensure that there is a safe distance between the water heater and the gas pipework. There must be at least half a metre between the water heater and the gas appliance/gas pipeline/gas meter and other gas sources.
- The tap water inlet pressure must be at least 0.05MPa and at most 0.7MPa (10L/15L), 0.8MPa (30L).
- The water heater should be installed indoors where the ambient temperature is above 0°C and the pipework should be in an integral layout. The hot water outlet should not be too far from the point of use. Use thermal insulation on the hot water pipes to reduce heat loss if they are more than 8m long.
- Never reverse the water inlet and outlet pipes. Install the safety relief valve in the specified position and do not change it at random. Keep the pressure relief hole of the safety valve connected to the atmosphere and never block it.
- To ensure safety, use an independent socket on the water heater (do not use a multi-function socket) and ensure that the socket is securely earthed and of a quality that complies with national standards. Check the live and neutral wires for correct connection using an electroprobe. Only when it has been confirmed that the tank is fully filled with water and that there is no water leakage from any of the connections, and that the power source is up to standard, can the heater be switched on for heating.
- The power switch should be mounted on a cabinet where it will not be easily affected by water.
- Note: The pipes must be installed by a qualified plumber. The pipework must comply with the applicable national standard to prevent non-drinking water in the appliances from being siphoned back to the water source, as well as local building regulations.
- Safety warning: to avoid accidents, use only the attachments supplied by our company and do not make any unauthorised changes or substitutions. If the piping is damaged, contact our service department to have it repaired and replaced with the one supplied by us. Failure to observe the above points and causing accidents will be beyond our responsibility and we will not be liable for any direct or indirect loss caused by them.

Installation

Installation Methods

Fig.2



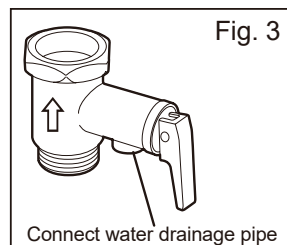
Installation warning: Before installation, carefully check the model you have purchased. Installation should be carried out in accordance with the direction of the inlet and outlet pipes as shown in the diagram, otherwise incorrect installation may result in the overheating protection device malfunctioning and causing damage.

- The installation should be carried out by technicians or those designated by our after sales department. The water heater is designed for wall mounting.
- Position the water heater according to the requirements of the application. Use a water pipe (PP-R pipe is recommended) to install the pipework. For ease of maintenance and disassembly, install loose joints at appropriate locations on the water inlet and outlet pipes.
- According to the requirements of the installation dimensions, use the churn drill to drill two holes in the wall with a depth of 65 mm and 12 mm diameter, insert the expansion hooks into the holes and fix them firmly, and hang the water heater vertically on the expansion hooks. Check for tightness. Install accessories such as safety valve, water outlet pipe as shown in Fig. 2. Ensure that the raw material tape is fitted to prevent water leakage.
- Confirm the location of the water supply and connect the water inlet and outlet pipes and the tap water pipe to the desired location. Fill the inner pot with water and check for leaks; reconnect if there are any.
- Warning: Do not unhook until the frame is securely attached to the hook to prevent the heater from falling and causing personal injury or property damage.

Installation

Installation of Safety Valve

- Install the safety relief valve with a nominal pressure of 0.75MPa (ES10V/15V-SQM1/SQM2(EU)) 0.85MPa (ES30V-SQM1/SQM2(EU)) (whose interface is G1/2) to the water inlet pipe in accordance with the direction of the arrow on the safety relief valve (the arrow points towards the boiler) (See Fig. 3).



When the water heater is switched on to heat up, a small amount of water may drip out of the relief hole of the safety valve to reduce the pressure. This is a normal phenomenon caused by the expansion of the water inside the heater. The drain hole must be kept clear at all times.

- The pressure relief device must be operated regularly to remove limescale deposits and to check that it is not blocked.
- Tighten one end of the water outlet pipe to the pressure relief hole on the safety valve, shorten or lengthen the water outlet pipe by yourself according to actual conditions; connect the other end of the water outlet pipe to the manhole to prevent the drips from splashing around the room.
- The water outlet pipe connected to the safety valve should be installed in a frost-free environment with a continuous downward slope. Switch on the power supply for a trial run after confirming that the reservoir is fully filled with water, that there are no leaks at any of the connections and that the power source is up to standard.
- You also can drain the water heater through the safety valve.

Packing list

Quantity Model	Name of parts	Electric Water Heater (unit)	Safety Valve (pcs)	Instruction Manual (copy)	Expansion Hook (pcs)	Wall-mounting plate (pcs)	Expansion bolt (pcs)
ES10V-SQM1(EU) ES10V-SQM2(EU)		1	1	1	2	/	/
ES15V-SQM1(EU) ES15V-SQM2(EU)		1	1	1	2	/	/
ES30V-SQM1(EU) ES30V-SQM2(EU)		1	1	1	2	/	/

Use

Method of operation

- For the first use after installation, the tap water inlet valve should be opened first as there is no water in the inner pot, and the valve should be closed when the inner pot is filled with water and water is continuously coming out of the water outlet.
- Check each connection for leaks. Switch on the appliance (if there is a mains switch on the appliance, it must be closed), the heating indicator lights up and the electric water heater starts to heat. Turn the knob to set the desired hot water temperature. The heating temperature can be selected continuously from the water inlet temperature to 75°C in a low to high order by means of the knob mark, and the indicator will light up in the heating condition.
- The heater automatically regulates the temperature. It switches off the power supply when the temperature reaches the set value. When the water temperature has dropped to a certain level, the red indicator lights up again and heating continues. This circulation ensures a constant supply of hot water.
- During normal heating, a small amount of water may come out of the water outlet pipe of the safety valve. This is normal; if a large amount of water comes out of the safety relief valve water outlet pipe, it means that the cold water pipeline pressure is $\geq 0.7\text{MPa}$ (ES10V/15V-SQM1/SQM2(EU)) / 0.8MPa (ES30V-SQM1/SQM2(EU)) and the user is advised to turn down the water inlet valve or contact our after sales service to purchase a pressure relief valve.

Precautions for use

- Never switch on the machine until the inner pot is completely full to avoid damage to the machine.
- When using, ensure that cold water is released before hot water to avoid burns.
- During use, check the safety valve once a month by turning the small handle on the safety valve. If there is water comes out, it means the safety valve works normally. If no water comes out, please contact your local after-sales department.

Use

Precautions for use

- If water heater is not to be used for an extended period, close the tap water valve and open the handle of the safety valve to drain the water from the inner pot. The specific method is as follows:
ES10/15V/30V-SQM1(EU): Turn the mixing valve to the position for maximum hot water output, then open the safety valve handle to allow water to flow out of the safety valve water outlet pipe.
ES10/15V/30V-SQM2(EU): Remove the water heater from the pipe, then turn the water heater upside down and make the water pipe connection downward to drain the water from the hot water outlet (this operation is quite complicated, please contact our aftersales department for assistance).
Before reuse, it is recommended to open the hot water valve before turning on the power switch of the water heater to avoid injury or other accidents. Do not allow smoking or other naked flames in the vicinity of the open valve. Meanwhile, carefully check that each component of the water heater is in good condition and then put it into use after confirming that the inner pot is filled with water.
- Notes: The water outlet pipe connection must not be higher than the pressure relief hole of the safety valve and the water outlet pipe must be inserted in a position, such as a floor drain, where water can be easily drained.
- Set the set temperature to the lowest value, provided that there is sufficient hot water.
This will reduce heat radiation and high-temperature corrosion and scale, thus prolonging the life of the heater.
- Regular safety checks should be carried out by service personnel. Clean incrustations in the heating tube in good time. Check the anode rod for wear and replace if excessive loss occurs.
- Friendly tips: This product is a small capacity water heater. Do not set the flow rate to maximum when using. Set the opening valve as low as possible (if the tap water pressure is too high, the heat and cold exchange in the inner pot will accelerate and eventually affect the hot water output) to ensure more hot water supply.

Cleaning and Maintenance

Warning!

The water heater must be repaired or serviced by qualified personnel. Improper methods may result in serious injury or damage to property.

Cleaning

1 External cleaning

- Before cleaning the water heater, it must be switched off.
- Take a damp cloth and dab with a small amount of neutral detergent. Wipe the heater lightly. Do not use petrol or other solvents. Finally, wipe with a dry cloth; make sure to dry the heater thoroughly. Do not use detergents containing abrasives (e.g. toothpaste), acidic substances, chemical solvents (e.g. alcohol) or polish to clean the water heater.

2 Internal cleaning

To ensure that the water heater operates at high efficiency, the heating tube and inner chamber should be cleaned every two years. Take care not to damage the outside of the heater tube or the protective coating on the surface of the inner chamber. Depending on local water quality and usage habits, the anode rod should be replaced periodically. If maintenance is required, please contact your local service centre.

Check

- When the heater is in use, the safety valve should be checked once a month. To check it, turn the small handle of the safety valve on the side of the water inlet (take care not to injure your hand). If water comes out, the safety valve is working normally. If no water comes out, contact your local service centre. If the safety valve is damaged, please replace it with a safety valve of similar specification.
- Regularly call in the service personnel to carry out safety checks and to clean the water heating pipes of the scale immediately. Also check the consumption of the anode rod and replace it if it becomes excessive.

Cleaning and Maintenance

Not used for a long period of time

If the heater is not going to be used for a long period of time, please follow the steps below:

- 1 Turn off the water pipe valve.
- 2 Screw the water drain pipe to the pressure relief hole of the safety valve; turn on the handle of the safety valve.
- 3 Turn the hot water valve to the maximum position (at the same time unscrew the soft sprinkler pipe from the water outlet valve; be careful not to be scalded by the hot water).

Before re-use, it is recommended to open the hot water valve before switching on the heater to avoid injury or accidents. Allow any gas that may be trapped in the pipe to escape, and do not allow smoking or other open fires in the vicinity of the open valve. Meanwhile, carefully check that each component of the water heater is in good condition and then put it into use after confirming that the inner pot is filled with water.

Product fiche

Trade mark	Haier					
Model	ES10V-SQM1(EU)	ES10V-SQM2(EU)	ES15V-SQM1(EU)	ES15V-SQM2(EU)	ES30V-SQM1(EU)	ES30V-SQM2(EU)
Load profile	XXS	XXS	XXS	XXS	S	S
Energy efficiency class	A	A	A	A	C	C
Energy efficiency(%)	36	35	35	36	34	32
Annual electricity consumption(kWh)	508	527	520	507	547	571
Thermostat temperature setting(°C)	75					
Sound power level indoors(dB)	15					
Specific precautions	Refer to the manual					
Daily electricity consumption(kWh)	2.378	2.488	2.45	2.37	2.607	2.749

The power consumption data in the table are defined in relation to EU Directives 812/2013 and 814/2013.

The products without the label and the data sheet for water heaters and solar appliances, as defined in regulation 812/2013, are not intended for used in such installations.

This appliance complies with the international electrical safety standards IEC 60335-1 and IEC 60335-2-21. The CE marking of the equipment certifies its conformity with the following EC Directives, for which it fulfils the essential requirements:

- LVD Low Voltage Directive: EN 60335-1, EN 60335-2-21, EN 60529, EN 62233, EN 50106.
- EMC Electro-Magnetic Compatibility: EN 55014-1, EN 55014-2, EN 61000-3-2, EN 61000-3-3.
- RoHS2 Risk of Hazardous Substances: EN 50581.
- ErP Energy related Products: EN 50440.

Troubleshooting

Phenomenon	Items to be confirmed	Solutions
No water outlet	1 If the water supply system has been cut off or the water pressure is too low	Check
	2 If the water outlet is blocked or the hot water valve is open	Check and clean
Only outputs cold water but indicator is on when heated	1 When the hot water outlet is open	Check and open
	2 If the water temperature is set correctly	Adjust water temperature
	3 The heating time is too short and the set temperature has not been reached.	Continue heating
	4 The heater tube is damaged	Contact the service department after confirming that it is not due to Items 1, 2 and 3
Cold water only and indicator does not light up when heating	1 If there is a good connection to the power supply	Check the power socket
	2 Confirm that the power switch is on or off.	Check the power switch
	3 When the thermostat is out of control	Contact the service department after confirming that items 1 and 2 have not occurred.
Heater indicator light is always on	1 Water not at set temperature	Continue heating
	2 If the thermostat is out of control	Contact Service after confirming that point 1 has not occurred.
Water outlet is unstable in volume and temperature	If the tap water pressure is stable	Adjust or reuse the water output when the water pressure is stable.
Less hot water supply	1 If the current set temperature is too low or not	Set temperature readjustment
	2 When the tap water pressure is too high or too low	Reduce the flow of the water outlet valve as much as possible when using, for details see the friendly tips in the Precautions.