

# Haier

## Home Water Heater Instruction Manual

ES30V-A3  
ES50V-A3  
ES80V-A3  
ES100V-A3  
ES30V-A3Q  
ES50V-A3Q  
ES80V-A3Q  
ES100V-A3Q  
ES50V-A3 HS  
ES80V-A3 HS  
ES100V-A3 HS  
ES50V-Color(S)  
ES80V-Color(S)



## Meanings of Icons



Forbidden

These are actions which are forbidden



Warning

These are actions which must be carried out



Caution

These are matters for which attention is required



Immediately cut off power supply and contact our Service Center once the water heater does not work properly or emits burnt smell.



Forbidden

Storing of inflammable and explosive items near the water heater is strictly prohibited.



Warning

The product is only available for alternating current.



Forbidden

Do not connect to power when installing or repairing the water heater.



Earthing

To ensure safety, the water heater should be connected to independent sockets (do not use adapters), with reliable earthing. In addition the power socket must conform to national standards. Use of water heater without reliable earthing is strictly prohibited. Use pen multimeter to check whether the live line and zero line are reverse.



Forbidden

Non-professionals are strictly prohibited from carrying out repairs, maintenance, dismantling or revamping of the water heater.



Forbidden

Installation of water heater outdoors is strictly prohibited.



Forbidden

Do not install the water heater in an environment which is susceptible to ice-formation. Ice will cause the container and water pipe to break, leading to scalding and water leakage.



Warning

Do not use damaged wire and power socket. Promptly clean the dust on the power plug and socket.



Warning

Please take precautionary measures during cold weather, in order to prevent damage to water heater from freezing.



Warning

Check the power meter and the electric wire's diameter to ensure that they comply with the rated current for the water heater. Where necessary engage qualified electrician to check the electric circuit.



Warning

If the soft power cable is damaged, it must be replaced by professional staff from the manufacturers or Maintenance Department in order to avoid danger.



Forbidden

Do not touch the plug with wet hands, and make sure that the water heater, plug 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 electricution.



Caution

Take care not to be scalded by heated water.  
 • Touching of hot water valve and pipes is strictly prohibited.  
 • Make sure to check the water temperature before use; use only when it feels suitable.



Forbidden

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



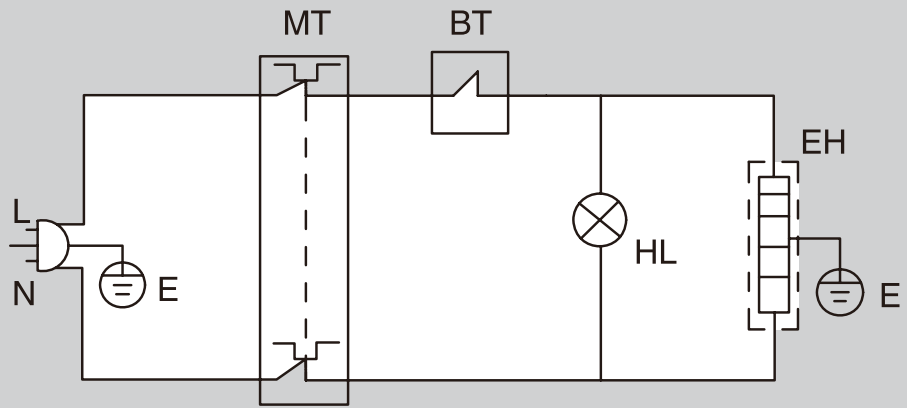
Caution

Please cut off the power supply if the water heater was not used for an extended period of time. Drain the water heater of all water according to the instructions in the chapter on Cleaning and Maintenance.

# Electrical diagram

EN

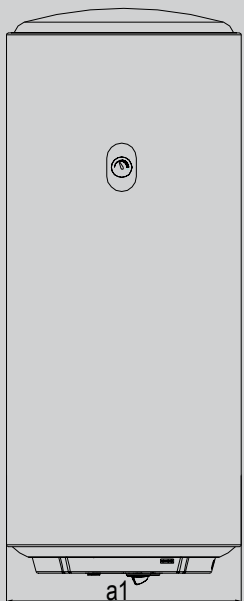
- L: Live wire (brown)
- N: Neutral line (blue)
- MT: Manual-reset thermostat
- BT: Adjustable thermostat
- HL: Heating indicator light
- EH: Heating tube
- E: Earth line (yellow-green; dual color)



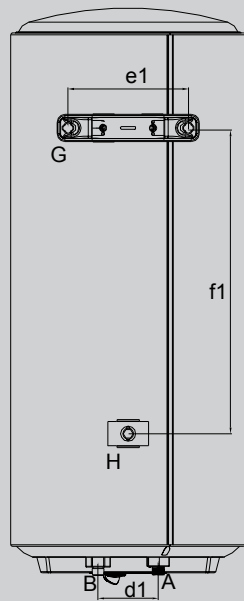
# Exterior and accessories

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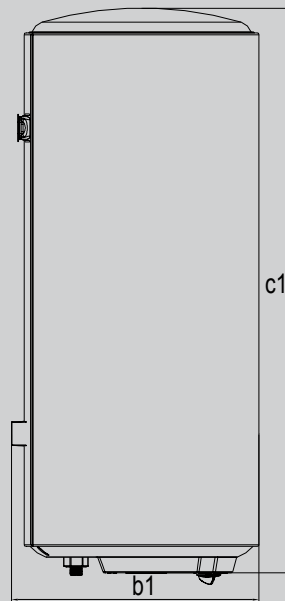
Front view



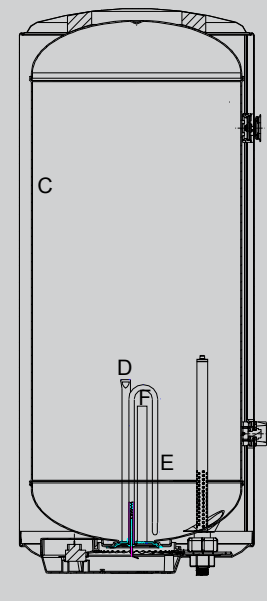
Rear view



Side view



Cross-section view



A: Hot water outlet    B: Cold water inlet    C: Inner chamber    D: Temperature measurement pipe  
 E: Heating pipe    F: Magnesium rod    G: Wall hook    H: Support block

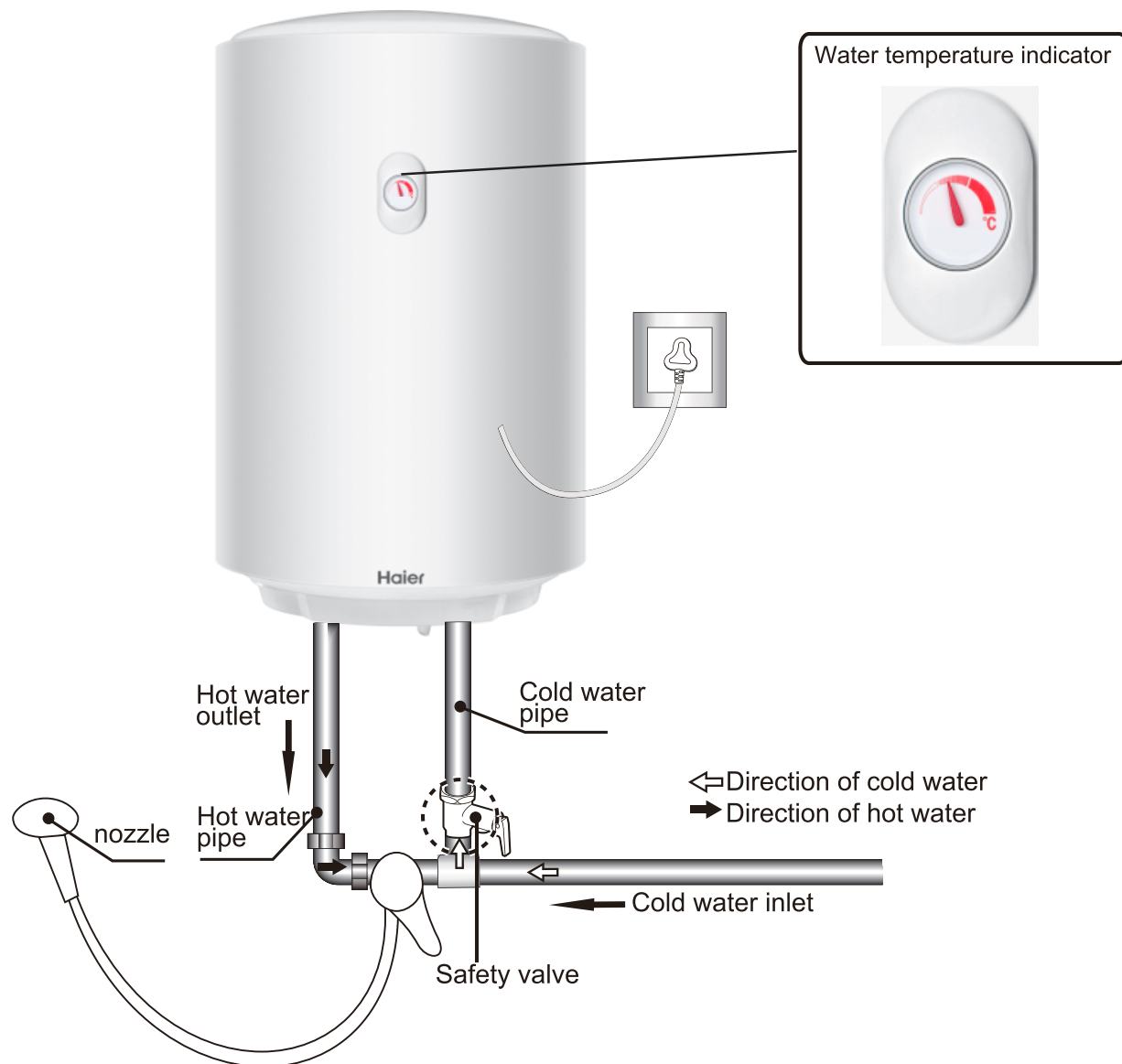
Model No.	Capacity (L)	Net weight (kg)	a1 (mm)	b1 (mm)	c1 (mm)	d1 (mm)	e1 (mm)	f1 (mm)
ES30V-A3/A3Q	30	12	390	400	447	100	200	157
ES50V-A3/A3Q ES50V-A3 HS/ Color(S)	50	15	390	400	650	100	200	198
ES80V-A3/A3Q ES80V-A3 HS/ Color(S)	80	24	390	400	930	100	200	508
ES100V-A3/A3Q ES100V-A3 HS	100	30	390	400	1160	100	200	568

Note: 1. The margin of error for the above parameters (measurements, weight) is  $\pm 10\%$ .  
 2. The thermometer is not a precision instrument.

# Technical parameters

EN

Model	Voltage	Rated power	Rated temperature	Rated pressure	Waterproof rating	Water pressure
A3/A3Q/Color(S) series	220-240V, 50Hz	1500W	75°C	0.80MPa	IPX4	Not less than 0.05MPa
A3 HS series	220V, 50Hz	2500W	75°C	0.80MPa	IPX4	Not less than 0.05MPa

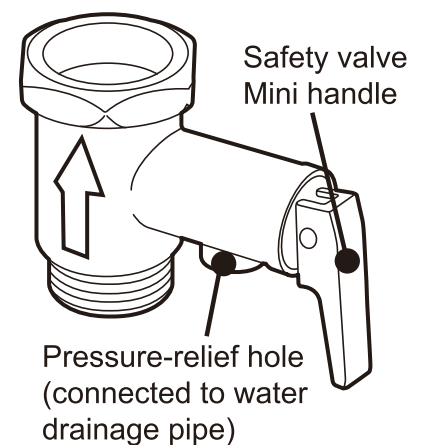


Note: category of power line plugs in schematic diagram is only used for sketch.

## Installing safety valve

Install the safety valve which has a rated pressure of 0.80MPa (its connection is G1/2) into the water intake pipe with the arrow on the safety valve pointing at the water heater. When the water heater is heated by electricity, a small amount of water will flow from the safety valve's pressure relief hole due to the expansion of water in the heater. This is normal. The pressure-relief hole should be connected to the atmosphere and free from blockage at all times.

Installation method for safety valve's drainage pipe: Attach an end of the water drainage pipe onto the pressure relief hole on the safety valve. You may cut the water drainage pipe to make it shorter, or extend it depending on the situation. Connect to the other end of the water drainage pipe to the lower water outlet. This will prevent the water from the pressure relief hole from splashing. The water drainage pipe connected to the safety valve is to be installed in a continuously downward direction and in a frost-free environment.



Note: If your water heater is not installed in a bathroom with sewer, our recommendation would be that you add safety valve water drainage pipe.

Note: The water may drip from the discharge pipe of the pressure-relief device (safety valve) and that this pipe must be left open to the atmosphere.

## Installation Precautions

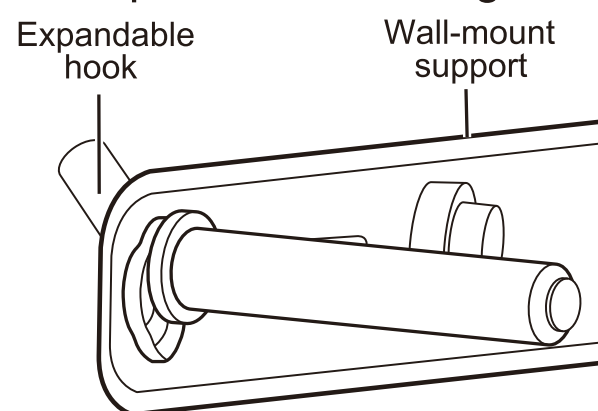
- When installing the water heater, certain space should be reserved (not less than 250mm from the top and bottom, and not less than 700mm from the front and the sides) for ease of subsequent maintenance and repair. If the water heater was to be built into clip boards, the bottom section of the clip board should be movable for ease of removal of plastic cover during maintenance.
- Make sure the pressure on the water intake is not less than 0.05MPa, and not more than 0.80MPa.

## Installation Precautions

- The water heater should be installed indoors in a place where the ambient temperature is above 0°C. The pipes should be closely laid out. The hot water outlet should be too far away from the point of usage. If the distance exceeds 8 meters, the hot water pipe should have insulation protection, in order to prevent heat loss.
- The wall on which the water heater should be strong such as it is able to withstand twice the weight of the water heater when filled with water. If the wall was not weight-bearing wall or made of hollow bricks, adequate protective measures such as addition of support and high-strength wall screw with back panel should be adopted.
- The water heater should be installed in places such as it is easy to use and maintain and with floor drain. In order that it will not cause damage to nearby facilities or those in the lower levels during a leakage of the water tank or water pipe. It should not be installed over toilet bowls, bathtub, wash basin or door frame in order that users do not feel oppressed or insecure.
- Power socket for the water heater should be installed in dry places which do not easily come into contact with water, in order not to affect the heater's normal operation (it would be best equipped with protective cover).
- Do not reverse the installation for the water intake and outlet. The safety valve should be installed in the designated position and not moved without permission. The safety valve's pressure-relief hole should be connected to the atmosphere and free from blockage at all times.
- Use pen multimeter to check whether the live line and zero line are reverse. Turn on power supply only when you have ensured that the heater is filled with water and that there is no water leakage. The power supply should also conform with requirements.
- Safety reminder: In order to prevent accidents, please use our company's accessories during installation. Do not replace them on your own or use substitutes. Please make sure to contact our Maintenance Department if the pipes or accessories are damaged and replace them with the accessories supplied by our company. Our company shall not be liable for any direct or indirect losses caused as a result of accidents for failure to comply with the aforesaid.
- All water pipes should be installed by qualified water pipe installation workers. The pipelines should comply with the national standards and regulations on the prohibition of prevention tools to draw water to water source pipelines by way of inverse siphon, as well as local building codes.

## Installation method

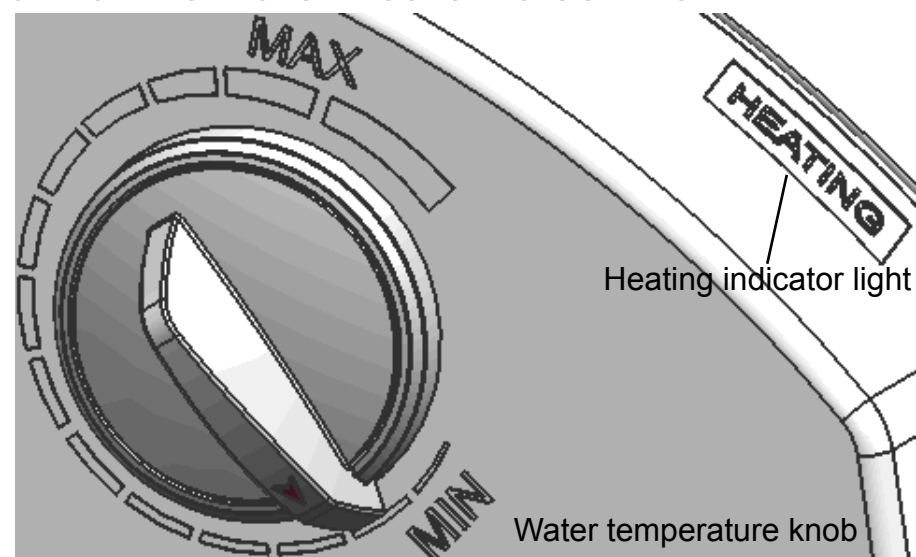
- Must be installed by personnel in our company's After-sales Department or designated installation personnel.
- The water heater is wall-mounted type.
- Determine the installation position of the water heater. Based on the measurements indicated in the technical data form, use impact drill to drill two holes of 12mm in diameter and 65mm in depth. Insert the expandable hooks into the said holes and ensure that they are securely fixed. Lift the water heater and slip its wall hook onto the expandable hooks. For accessories such as safety valve, please refer to the "Installation of Safety Valve" (for reference only). Make sure to seal the joints with Teflon tapes to prevent water leakage.
- For ease of installation and removal of water heater, we would recommend that G1/2 loose joints be installed at appropriate locations on the water inlet and outlet pipes of the water heater. Determine the position of the hot water supply. Connect the water intake and outlet pipe together with the water pipe to the positions reserved for use of hot water. Hot water pipe should preferably not be too long in order to prevent heat loss. Note: Make sure that the water heater is securely attached to the hook before letting it go; otherwise it may drop and cause injury or property damage.



After completion of installation, make sure to turn on the water intake valve and mixing valve since there is no water in the inner chamber. Turn the mixing valve to the maximum for hot water outlet. Turn off the out-flow valve when water flows out from the sprinkler or the water outlet (indicating that the container is filled with water). Turn off the water outlet valve. Inspect all connections to ensure that there is not water leakage before connecting to power.

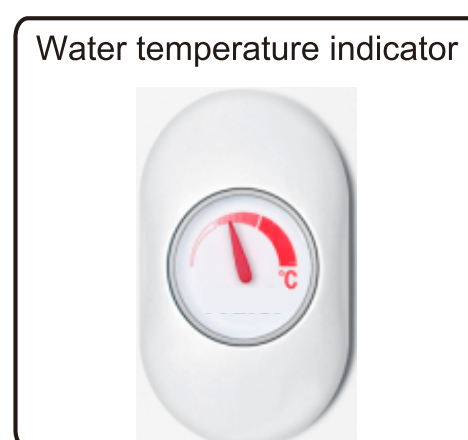
1. Adjust the water temperature knob at the bottom of the water heater to set the temperature.

- The maximum temperature setting is 75°C. Temperature adjustment knob: Turn the knob gradually clockwise to raise the temperature setting. The knob will not continue to turn once it reaches maximum temperature setting. Turn it anti-clockwise gradually to reduce the temperature setting. Once the minimum temperature setting is reached, the water heater's power will be cut off if you continue to turn the water temperature knob.



- If the heating indicator light is lit, it means that the water heater is heating.
- If the heating indicator light is off it means that heating is complete and that the water heating is on standby.

2. Observe thermometer the current water temperature.



- Power will be automatically cut off when the water temperature reaches the set temperature. Once it lowers to certain temperature power will be automatically connected.
- When the water pressure is  $\geq 0.80\text{MPa}$  and the pressure-relief hole on the safety valve emits large volume of water, it means that the water pressure is excessive. In such case, please notify the After-sales Department.

### Things to note during use

- 1 Do not connect the power before filling the inner chamber with water in order to prevent damage to the water heater.
- 2 Adjust the water temperature to the suitable level before use in order to prevent scalding.
- 3 As long as the hot water is adequate, set a lower temperature to reduce heat loss, high temperature corrosion and scaling, thus extending the water heater's lifespan.
- 4 Do not place inflammable substances such as petrol near the water heater; otherwise it may cause fire.
- 5 This appliance 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 instruction concerning use of the appliance by a person responsible for their safety.
- 6 Children should be supervised to ensure that they do not play with the appliance.



The water heater must be repaired or maintained by qualified professionals. Improper methods may cause serious injury or damage to property.

Warning

● **Cleaning**

1. External cleaning

- Power must be switched off before cleaning the water heater.
- Take a wet cloth and dab it with small quantity of neutral detergent. Lightly wipe the water heater. Do not use petrol or other solvents. Finally use a dry cloth to wipe; make use to dry the water heater thoroughly. Make sure not to use detergents containing abrasive agents (e.g. toothpaste); acidic substances; chemical solvents (e.g. alcohol) or polish to clean the water heater.

2. Internal cleaning

In order to ensure that the water heater will work with high efficiency, clean the heating tube and inner chamber once every three years. Take care not to damage the exterior of the heating pipe and the protective layer on the surface of the inner chamber. Depending on the local water quality and usage habit, the magnesium rod should be regularly replaced. If maintenance is required, please contact the local Maintenance Department.

● **Check**

- When the water heater is in use, the safety valve should be checked to remove lime deposits and to verify that it is not blocked once a month.  
To check it, turn the safety valve's small handle on the side of the water intake (take care not to hurt your hand). If there is water flowing out, the safety valve is working normally. Please contact the local After-sales Department if no water flows out. In the event of damage to the safety valve, please replace it with a safety valve of similar specifications.
- Regularly engage service personnel to carry out safety inspection and promptly clear the water heating pipes of the scale. Check also the consumption of the magnesium rod; change it if consumption becomes excessive.

● **Not in use for an extended period of time**

If the water heater is not used for an extended period of time, please carry out the following steps:

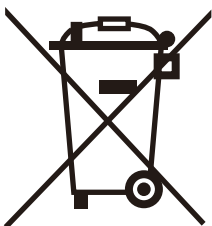
1. Turn off the water pipe valve.
2. Screw the water drainage pipe to the safety valve's pressure-relief hole; turn on the safety valve handle.
3. Turn the hot water valve to the maximum (at the same time unscrew the soft sprinkler pipe from the water outlet valve; take care not be scalded by hot water), drain the inner chamber of water.

When the water heater needs to be used again, our recommendation is to open hot water valve before switching on the power in order to prevent accidents. Allow any gas that may be trapped in the pipe to be discharged. Do not smoke or allow other exposed fire to be near the opened valve. At the same time, make sure to carefully examine all the parts of the water heater and ensure that they are in a perfect condition. Make sure to fill the inner chamber with water before use.

## Packing list

Name of Parts	Electric water heater (Unit)	Safety valve (Set)	Expandable Hook (pc.)	Instruction Manual (unit)
Quantity	1	1	2	1

Symptom	Things to Check	Solutions
No water	1. Whether the water supply has stopped or whether the water pressure is too low	Check
	2. Whether the water-usage point is blocked or whether the hot water valve is opened	Check and clear
Only cold water but the heating indicator lamp is lit	1. Whether hot water outlet is opened	Check and open
	2. Whether the water temperature is adjusted	Increase the temperature to the required value. Once the water is heated to the pre-set temperature, control flow volume of cold and hot water using the moderating mixing valve.
	3. Heating time is too short and set temperature is not achieved	Adjust water temperature
	4. Whether heating pipe is damaged	Confirm it is not due to the reasons under 1, 2 and 3, then contact Maintenance Department
Only cold water and the heating indicator lamp is not lit	1. Whether power is properly connected	Check power socket
	2. Whether thermostat is out of control	Confirm that this is not due to reason 1, then contact Maintenance Department
Heating indicator light is on all the time	1. Water has not reached the set temperature	Continue heating
	2. Whether thermostat is out of control	Confirm that this is not due to reason 1, then contact Maintenance Department
Water volume is sometimes large or small, or water is sometimes hot or cold	Whether water pressure is stable	Set lower mixing valve or ensure water pressure is stable before use
Small hot water outflow volume	1. Whether the present temperature setting is too low	Calibrate using the method stipulated in the Instruction Manual
	2. Whether water pressure is too much	Set lower mixing valve



Correct Disposal of this product

This marking indicates that this products should not be disposed with other household wastes throughout the EU. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. To return your used device, please use the return and collection systems or contact the retailer where the product was purchased. They can take this product for environmental safe recycling.

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