

# Haier

## Spa Water Heater

### User's Manual

ES15V-P2  
ES25V-P2  
ES35V-P2



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

## FAQ

| Phenomenon   | Confirmation items   | Remedy  |
|--|--|---|
| No water   | No water supply or water pressure is too low   | Check   |
|  | Water use point is blocked or hot water valve is closed                                  | Check and clear   |
| Cold outlet water  | 1 Hot water access close   | Check and open  |
|  | 2 Temperature not set to desired setting   | Calibrate the heater according to the operation instructions in the manual        |
|  | 3 Heating time limit and setting temperature not obtain                                  | Calibrate the heater by referring to the operation instructions in the manual     |
|  | 4 Defective elements   | Contact with service department when 1 , 2 and 3 are excluded.                    |
| Not heated to desired temperature or insufficient outlet water | 1 Whether the current function is set to the proper mode and temperature is set too low. | Calibrate the heater according to the operation instructions in the manual        |
|  | 2 Excessive water pressure   | Use after flux of mixing valve is turned down                                     |
| Inconstant flow and temperature of water                       | Inconstant water pressure  | Use after flux of mixing valve is turned down or use with constant water pressure |
| Incapable of startup or display not lit                        | 1 No power to heater   | Check power socket  |
|  | 2 Defective elements   | Contact with service department when 1 is excluded.                               |
| Display E1   | Faulty line  | Contact with service department   |
| Display E2   | 1 Insufficient water in tank liner   | Power on after disconnection when filled with water                               |
|  | 2 Defective elements   | Contact with service department when 1 is excluded.                               |
| Display E3   | 1 Room temperature lower than -20°C  | Cut off power, then connect power when ambient temperature more than -19°C        |
|  | 2 Defective sensor   | Contact with service department when 1 is excluded.                               |

# Haier

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## Safety warning (Read carefully before use)

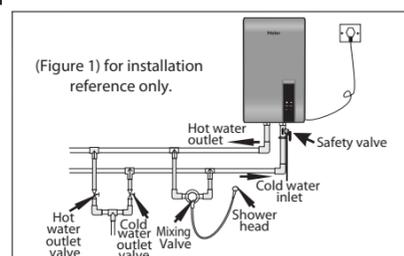
### Meanings of icons

|  |  |  |  |  |  |
|--|--|--|--|--|--|
|  | <b>Forbidden</b> These are actions which are forbidden |  | <b>Warning</b> These are actions which must be carried out |  | <b>CAUTION</b> These are matters for which attention is required |
|--|--|--|--|--|--|

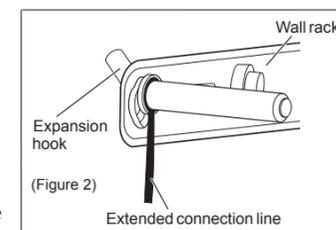
- If the water heater emits an unusual smell or a burning smell, please disconnect the power supply immediately and call the service center.
- This mark is the designation for Pre-safe Expert of Haier Water Heater Company, which indicates the use of the company's patented technology inside the product. It ensures you a safe bath while monitoring whether your house ground wire is live or not all the time. If this mark is lit, it indicates your house ground wire was come live (poor grounding and live). In this case, please immediately stop use and disconnect the power, and remember not to touch any electric appliance 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.
- Non-professional maintenance personnel shall not carry out unauthorized repair, maintenance, dismantling or re-construction of the heater.
- Be sure to use independent socket and earth it reliably.
- 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.
- If you do not need to use the heater for a prolonged period, please cut off its power and drain all water in the heater in accordance with the instructions in the chapter on cleaning and maintenance.
- Take care not to be scalded by hot water.
  - Do not touch the valve and pipe for hot water supply.
  - Please feel the water temperature before use. Use only when the temperature is ideal for you.
- Do not set at outdoor places.
- Do not install the water heater in the conditions in which ice could form. Ice formation will cause the water container and piping to crack, leading to scalds and water leakage.
- Do not connect or disconnect the power supply while your hands are wet.
- 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 an experienced electrician.
- Do not drink hot water from the heater or use it for similar purposes.
- Do not spray water or steam onto the heater.
- Please take precautionary measures during cold weather so as to prevent the heater from being frozen.
- Please mount it to firm and reliable wall.
- Do not install at places without sewage. Do not use as floorstanding appliances.

## Installation • Use

### Installation

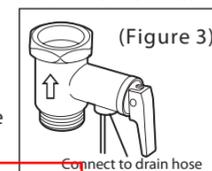


- Installation must be made by installers of or designated by our company after-service department.
- The water heater shall be wall-mounted.
- 1 Make 2 holes  $\Phi$  12mm, 65mm deep in wall with an impact drill according to the drawing of the external dimensions (See Figure 4).
- 2 Take out all accessories in packaging liner, unpack one hook, sleeve the ring end of the connection lines among the accessories into the hook tightening end and assemble the hook well.
- 3 Afterwards, Insert and fix two hooks into the holes (wherein the hook with connection lines is fixed in the right hole).
- 4 Lift the water heater and hang it with wall rack corresponding to the two hooks. Insert the connection spacer led from the rear shell wall rack of the heater into the connection terminal of the line on the hook (See Figure 2).
- To facilitate installation and removal, it is suggested a G1/2 movable nut be fitted at appropriate locations on inlet and outlet pipes respectively. Find the location requiring hot water supply. Connect inlet pipe, outlet pipe and city water pipe respectively to the use point for hot water. Fill the tank with water to check whether there is any leakage. It must be re-connected if there are signs of water leakage.
- Warning:** Do not release your grip unless the wall rack is securely hung on the hook. Otherwise the heater may fall and cause personal injury or property damage.



### Installing safety valve

- Connect the safety valve to the water inlet by following the direction of its arrow (the arrow should point towards the heater). The safety valve's rated pressure is 0.80MPa and its connection is G1/2. Once power is connected and the water is being heated, the water inside the water tank will expand. In order to relieve the water pressure inside, a very small quantity of water will flow from the pressure-relief vent at the safety valve. The pressure-relief vent must be free of any blockages.
- 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.



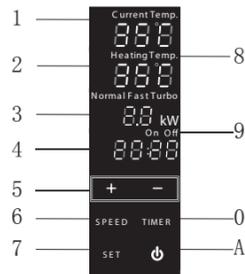
## Installation warning

- During installation, adequate space must be reserved for future maintenance and repair (at least 300 mm). If the water heater is installed within decoration boards, the right board shall be removable to facilitate removing the plastic cover during maintenance.
- Tap water inlet pressure shall be no less than 0.05MPa and the maximum pressure shall not exceed 0.75MPa.
- 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.
- Do not confuse inlet and outlet water pipes. Safety valve shall be installed at designated position with no random modification.
- Use a test pencil to check whether the live line and null line are wrongly connected. Power may only be connected after ensuring that the heater is filled with water, and there are no leakages at the respective connections. The power supply should also conform to the heater's requirements.
- To avoid danger caused by accidental reset of heating breaker, the power for the heater cannot be supplied by timer and other external switch devices or connected to circuit with frequent switching for facility use.
- In order to avoid unforeseen accidents, only install components Haier-provided. Do not switch or exchange parts yourself. If components are damaged, you must contact the company's repair center and use the parts supplied by Haier. If the user fails to follow the requirement above, Haier will not be responsible for any direct or indirect damages caused hereof.

## Introduction of control panel

- Actual temperature
- Set temperature
- Power
- Current time
- Current time/temperature increase key
- Power selection key
- Time setting key

- 8 **Heating Temp.** icon Blinking, indicates heating is in process; temperature is maintained at set temperature once it stops blinking.
- 9 Preset (On: Preset bath; Off: Preset stop-heating)
- 0 Preset bath, preset stop-heating setting key
- A On/Off key



## Real-time Heating Mode

After installation, as the tank is empty in the first usage, be sure to open the tap water inlet valve and any outlet of the heater. Adjust the mix valve to maximum hot water outlet. When the tank is filled with water or other water outlet keeps water outputting (which indicates the tank is filled with water), please close water outlet. Check if there is water leakage at the respective joints before connecting power. Once power is connected, the panel will show full display for 1 second, accompanied by a buzzer sound. The heater will then enter into shutdown state as before.

- Press **ON** key to switch on the heater  
Press **ON** key for the heater to interchange between standby state (with clock display only) and working state.
- Press **+**, **-** keys to set the temperature to (35~75°C)  
The **Heating Temp.** value icon on the control panel will blink and changes correspondingly. Once the desired value is reached press **SET** key to confirm. If no operation is carried out after 6 seconds, the system will automatically confirm the setting.
- Press **SPEED** key repeatedly to select the heating power  
This product provides three power settings for your selection. Low (1kW), Medium (2kW), High (3kW).

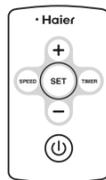
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## Remote control unit panel

⊕/⊖ Used to adjust the temperature value

**Explanation:** The use of the buttons on the remote control unit is the same as that for the buttons on the control panel.

**Note:** When using the remote control unit it is best to use it at close distance and at a perpendicular angle. When the battery in the remote control unit is completely exhausted, please remove the cover on its back using a coin to turn the knob in the direction as indicated, then remove the button battery inside and replace it with another button battery of similar specifications. Finally re-attach the cover. All used batteries must not be stored in areas under high temperature or thrown into fire to prevent explosion. They should be disposed of in accordance with regulations.



## Cleaning and maintenance

**Warning:** This water heater shall only be repaired and maintained by qualified servicemen. Improper maintenance may cause severe injury or damage.

- 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. 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.

**Friendly reminder:**

- In long-term out-of-use or maintenance of the heater, you can close the city water pipe valve and set the mixing valve to the highest water temperature rate after opening the safety valve handle. Move up the safety valve handle to drain the tank.
- To avoid injury, before next use, it is suggested to first open the 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.

## Technical data · Packing list

### Parameters

| Item              | Unit | ES15V-P2       | ES25V-P2       | ES35V-P2       |
|-------------------|------|----------------|----------------|----------------|
| Rated voltage     | V    | 230            | 230            | 230            |
| Rated frequency   | Hz   | 50             | 50             | 50             |
| Rated pressure    | MPa  | 0.80           | 0.80           | 0.80           |
| Power             | W    | 1000/2000/3000 | 1000/2000/3000 | 1000/2000/3000 |
| Net weight        | kg   | 10             | 14             | 17             |
| Rated temperature | °C   | 75             | 75             | 75             |
| Volume            | L    | 15             | 25             | 35             |

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- Press **SET** key to calibrate the clock.

Press the **SET** key, then the hour figure flashes. Press **+**, **-** to set the hour; Press the **SET** key again, then the minute figure flashes. Press **+**, **-** to set the minute; After setting, press **SET** key to confirm. If the value blinks for 6 seconds without any further operation, the system will automatically enter next setting or confirm the setting in question.

Under real-time heating mode, the heater will automatically heat the water or maintain the temperature near the set value. (If the set temperature is lower than 55°C, the heater will heat again once the temperature is lower than the set value by 5°C; If the set temperature is between 55°C and 75°C, the heater will heat again once the temperature is lower than the set value by 10°C.)

## Preset Bath Mode

This product is equipped with preset bath function. Activate the preset bath function to set the preset bath time, power and temperature. If no operation is carried out for 2 minutes after that, the heater will enter into power saving mode (display on and current time only). It will also calculate the heating time, and heat the water to the preset temperature automatically before the preset time.

- Carry out Steps 1~4 of the real-time heating mode
- Press the **TIMER** key, the preset bath icon on displays.
- Press **SET** key to set the preset time

Press the **SET** key, then the hour figure flashes. Press **+**, **-** to set the hour; Press the **SET** key again, then the minute figure flashes. Press **+**, **-** to set the minute; After setting, press **SET** key to confirm. If the value blinks for 6 seconds without any further operation, the system will automatically enter next setting or confirm the setting in question.

**Note:** If the actual temperature doesn't reach the set temperature at the preset time, the heater will extend the heating time by 30 minutes automatically. After 30 minutes the heater will stop heating no matter the temperature reaches to the set temperature or not.

If by the preset time the actual temperature is that of the set temperature, but the actual temperature drops by 5°C by the preset time, the heater will re-heat the water. Once the preset time is reached, it will stop heating whether or not the water reaches the set temperature.

## Preset Stop-heating Mode

This product is also equipped with preset stop-heating mode, i.e. the heater will automatically stop-heating at the appointed time.

- Carry out Steps 1~4 of the real-time heating mode
- Press the **TIMER** key repeatedly, the preset stop-heating icon **off** displays
- Press the **SET** key to set the preset stop-heating time

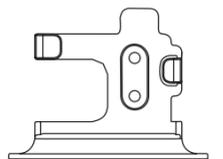
Press the **SET** key, how-to is the same as mode 3 of preset bath

Preset bath and preset stop-heating can be set simultaneously. Once the settings are activated, water heater will automatically start heating the water to reach the preset temperature before the preset On time based on the current time and preset time. In the time between On and Off, water heater is on real-time heating mode (once the water temperature drops 5 degree than the preset temperature, heating will be started again). The water heater will automatically stop heating when reaches the Off time.

**Note:** If the Off time is within the execution time of preset bath, then the Water heater will first stop heating for 1min, then continue the heating till ON time.

## Installation of remote control unit holder

- Use the correct screws in the accessories to secure the remote control unit holder onto a suitable position on the wall; and insert the remote control unit into the holder (see illustration below).



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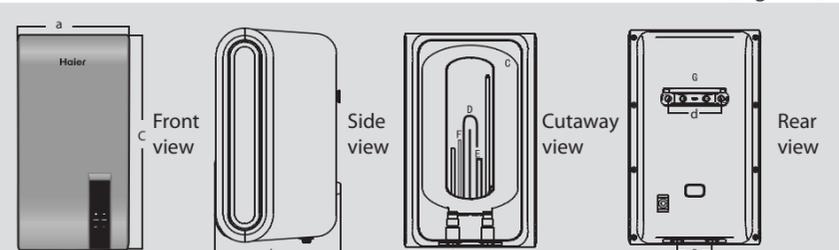
| Item   | Unit            | ES15V-P2             | ES25V-P2             | ES35V-P2             |
|--|-----------------|----------------------|----------------------|----------------------|
| Waterproof grade                             | /               | IPX4                 | IPX4                 | IPX4                 |
| Mixing factor                                | %               | 13                   | 5                    | 4                    |
| Tap water pressure                           | MPa             | No less than 0.05MPa | No less than 0.05MPa | No less than 0.05MPa |
| Average temperature of hot water outlet      | °C              | 64                   | 68                   | 64                   |
| Re-heating time (a temperature rise of 50°C) | min             | 14                   | 21                   | 41                   |
| Diameter of power wire                       | mm <sup>2</sup> | 3×1.5                | 3×1.5                | 3×1.5                |

**Remarks:** 1. The permitted error limit of net weight above is ±10%.

2. The values for mixing factor, average temperature of hot water outlet, re-heating time (a temperature rise of 50°C) are all measured under the maximum power condition.

## Dimensions

(Figure 4)



| Model    | a     | b     | c     | d     | e     |
|----------|-------|-------|-------|-------|-------|
| ES15V-P2 | 316mm | 291mm | 623mm | 152mm | 100mm |
| ES25V-P2 | 378mm | 362mm | 616mm | 152mm | 100mm |
| ES35V-P2 | 415mm | 398mm | 663mm | 152mm | 100mm |

A Hot water outlet B Cold water inlet C Tank D Heating element E Anode rod  
F Thermometer tube G Wall-mounting bracket

**Remarks:** The permitted error limit of above parameters is ±10%.

## Packing list

| Quantity | Name     | Electric water heater (Set) | Safety valve Drain hose (Unit) | Expansion hook (PCS) | User's manual (Copy) | Connecting line (PCS) | Remote control, Remote control unit holder (Set) | Accessories pack (Unit) |
|----------|----------|-----------------------------|--------------------------------|----------------------|----------------------|-----------------------|--|-------------------------|
| 1        | ES15V-P2 | 1                           | 1                              | 2                    | 1                    | 1                     | 1  | 1                       |
| 1        | ES25V-P2 | 1                           | 1                              | 2                    | 1                    | 1                     | 1  | 1                       |
| 1        | ES35V-P2 | 1                           | 1                              | 2                    | 1                    | 1                     | 1  | 1                       |

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