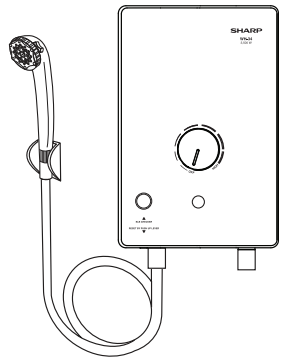


SHARP

OPERATION MANUAL



ELECTRIC WATER HEATER MODEL WH-34

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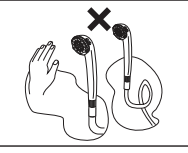
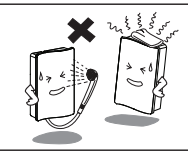
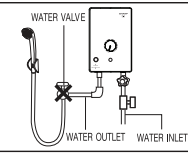
Please see the date of manufacture marked on the product
Thank you for your trust in products of Thai City Electric Co., Ltd.
In order to use electric water heater in efficiency way. Please read the instructions manual carefully before using this appliance.

USAGE PRECAUTIONS

Please read the warning and cautions carefully before using this appliance and comply strictly for your own safety and to prevent the damage that may occur on your property.

WARNING

- Always turn off the main breaker before making any repairs to your electric water heater.
- Do not install water valve or faucet at hot water outlet.
- Do not spray water on this electric water heater or put wet towels on it.
- Do not cover the shower head with hands or towels or fold the shower hose.

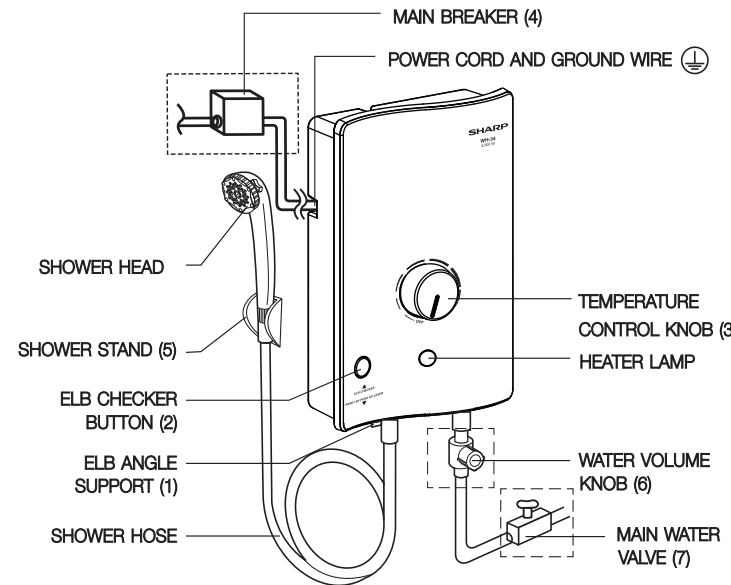


CAUTIONS

- If you see the light within your house is flashing from time to time while showering due to irregularity of electricity, the water temperature may change and this is not unusual.
- In case that using other faucet at the same as using electric water heater (common main water pipe), the water pressure and flow may be reduced and it may cause higher water temperature. This is not unusual. You should adjust water volume knob or reset temperature control knob in appropriate way.
- In the event of thunder and lightning storm, turn off the main breaker to prevent the damage that may occur on this appliance.
- Close supervision is necessary in order to check on the water temperature when used by children, elderly, patients and disabled person.
- In case of tap water outage while using, turn the temperature control knob to "OFF" and the water volume knob to turn off the water. Check again that the indicator goes out (to avoid the system is activated after the water flow resumes).
- While we using a product if that is stop working immediately as we do not know the cause, please inform the SHARP service center for proceed to repair.

DESCRIPTION OF PARTS

Equipments within dashed border must be purchased separately



SPECIFIC INFORMATION

MODEL	WH-34
Rated voltage (V)	220
Rated frequency (Hz)	50
Power consumption (W)	3,500
Water supply system	Single point
Water temperature control	Approximately 50°C (Maximum)*
Minimum pressure	0.02 MPa*(0.21 Bar)
Maximum pressure	0.34 MPa*(3.39 Bar)
Product dimension (W x H x D) (mm.)	211 x 318 x 91
IP number	IP25
Weight (kg.)	1.3

Note : * Temperature of inlet water is approximately 25°C and flow rate is 2.3 litres/min.
** 1 MPa (Megapascal) = 10.2 Kilograms/Square centimeter.

USING YOUR ELECTRIC WATER HEATER

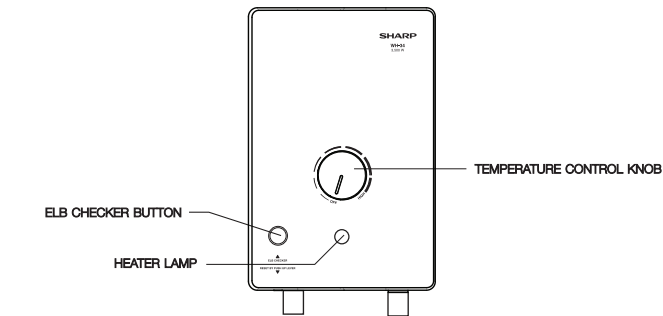
The installation must only be carried out by the company's expert or authorized dealers. For safety reason, a ground wire existence should be verified after the water heater installation.

- Open the main water valve (7) from the home main water pipe.
- Open the main breaker switch (4).
- Push the ELB angle support (1) up to activate the heater electrical system.
- Turn the water volume knob (6) as desired (see the water volume knob detail in The Adjustment water temperature).
- Turn the temperature control knob (3) from "OFF" clockwise to adjust the heat. The heater lamp (red) will be illuminated and the warm water will flow from the shower head (see the detail in The Adjustment water temperature).
- After use, turn the temperature control knob (3) to "OFF" and turn the water volume knob (6) to stop the flow.

Notice : In case of electricity or tap water outage while using, always turn the temperature control knob to "OFF" and the water volume knob (6) clockwise to shut the heater before leaving the bathroom.

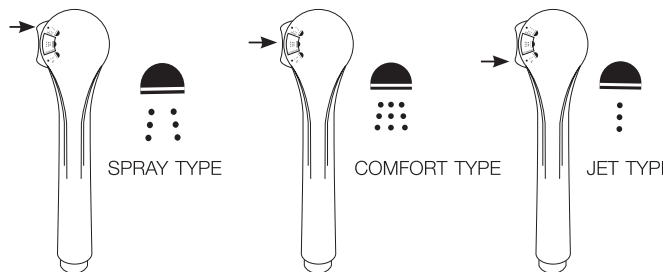
ADJUSTMENT WATER TEMPERATURE

- Using the temperature control knob.
 - Turn the temperature control knob to adjust water temperature as desired.
OFF : Turn the heater off and water will flow at the normal temperature.
HIGH : The water temperature is 50°C degree approximate.
- Using the water volume knob.
 - Turn the knob counterclockwise will increase the volume and decrease the temperature simultaneously.
 - Turn the knob clockwise will decrease the volume and increase the temperature simultaneously.



USING YOUR SHOWER

Shower heads allow to adjust into 3 types by press the water select knob on the shower as shown in the picture.



INSTALLATION GUIDES

Installation this unit should be done by qualified technician only. Please make an inquiry from SHARP service facility or dealer.

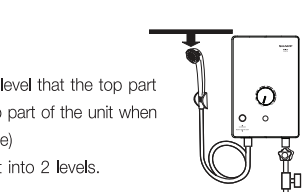
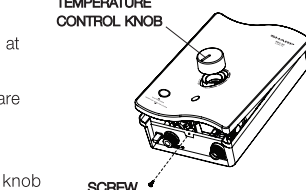
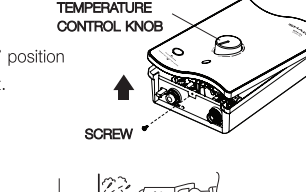
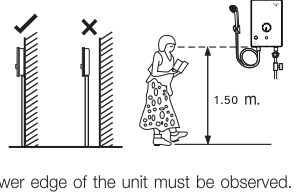
- Warning
- The ground wire must be installed with the electric water heater.
 - Must connect the ground wire from the position of connecting ground wire on the base of product to go down the earth always.

1. BEFORE INSTALLATION

- Please check water pressure before operating this unit. The minimum water pressure is 0.02 MPa (0.21 Bar) The maximum is 0.34 MPa (3.39 Bar)
 - Please follow the picture below to check water pressure. Water shall overflow at the end of the tube within 2.3 meters above the water volume knob.
- Parts list provided in the box include : Electric water heater unit, shower head, shower hose, shower stand, filter gasket, rubber gasket (1 piece), screw (6 pieces), wall anchor (6 pieces), operation manual and warranty card.

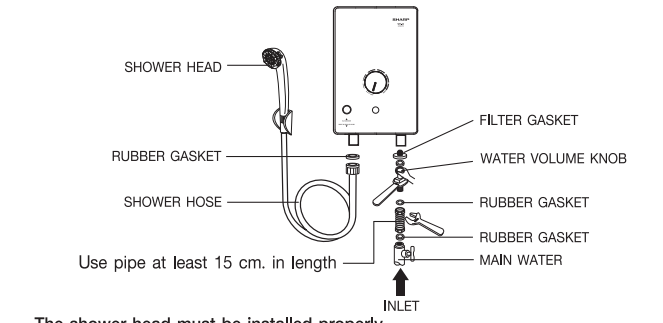
2. INSTALLATION THE UNIT

- Preparing installation area.
 - The unit must be mounted to the wall in a vertical position only. (See in the picture)
 - Leave this unit away from the wall for both sides more than 200 millimeters. (Page 16)
 - The minimum height of 1.5 meters to the lower edge of the unit must be observed.
- Removing the unit cover.
 - Turn the temperature control knob to "OFF" position and remove the screw underneath the unit.
 - Open the cover by lifting from the bottom.
- Mounting the unit to the wall.
 - Drill two 6 millimeters holes in the wall with approximately 25 millimeters in depth.
 - Install wall anchors into the holes.
 - Screw the top wall anchors, leave screw length around 8-10 millimeters and hang the unit on the screw then marked the position in order to drill another 2 holes at the bottom, drill the holes and install the rest of wall anchors then fasten all of 4 screws.
- Assemble the cover with the heater.
 - Make sure that the temperature control knob at "OFF" position.
 - Push unit cover on to body unit until they are locked.
 - Tighten screws to attach the cover with the heater and place the temperature control knob to the same place.
- Installation the shower stand.
 - Ensure that the shower stand located in the level that the top part of the shower head is not higher than the top part of the unit when hanging the shower head. (See in the picture)
 - The angle of shower head holder can adjust into 2 levels.



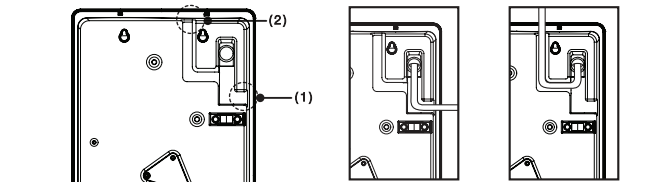
3. PIPING INSTALLATION

- Connection point between the unit and the water volume knob and twist the shower hose by hands until it tight. Do not use any tools during assembly because it may cause the damage to plastic components.
- Tighten the connection into the thread located at the bottom of the water volume knob. Force gauge do not exceed 40 kgf.cm.
- Connect water inlet pipe and water outlet pipe as shown in the picture.

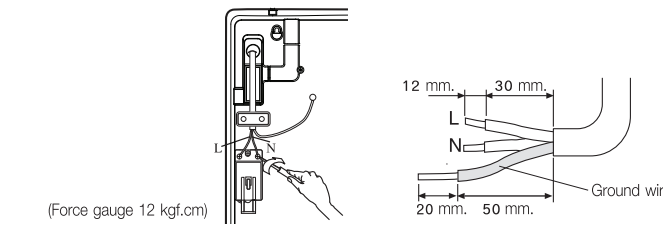


ELECTRIC WIRE CONNECTIONS

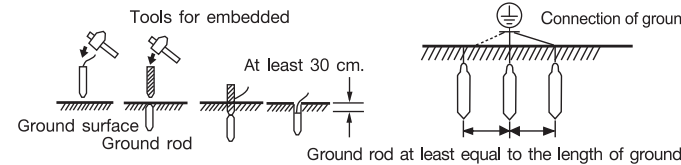
- Before connection the wires, please make sure the main breaker is off to cut off power.
 - Use dual insulated wire with at least 4 square millimeters cross-section.
 - Connect electric wire to the unit from the main breaker board through the main breaker which is located outside the bathroom. Wire connection must be permanent.
- Electric wire connection to the unit can be done by 2 methods. (as illustrated)



Drill a small hole at the rubber to insert the wire at the rear of the unit.
Peel the wire and connect to the ELB checker by connecting the high voltage cable to the terminal "L" and connect neutrons wire into the terminal "N". Use screwdriver to tighten the wires. (Force gauge approximately 12 kgf.cm). If the wires are connected into the wrong terminal, the unit will not work properly. It may result in damage to the circuit or may cause danger to the user.



- The ground wire must be connected to grounding point on the unit. Grounding process.
 - Ground rod installation, select the area where moisture stored in the soil and away from flood area with no sand or limestone.
 - The diameter of ground rod is not less than 16 millimeters and the length is not less than 240 centimeters.
 - Embed the ground rod at least 30 centimeters in depth from ground surface.



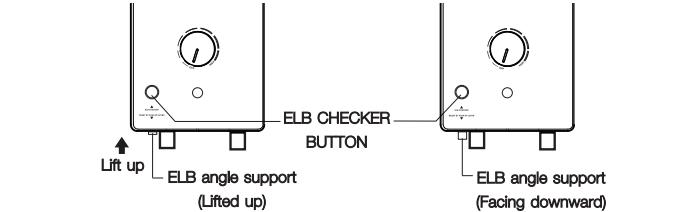
- Ground resistance must be less than 5 ohm.
- After grounding process is completed, if ground resistance is higher than 5 ohm, additional ground rod must be embedded. Leave the additional one away from the previous ground rod at least equal to the length of ground rod. Connect them together in parallel.

5. OPERATION TEST

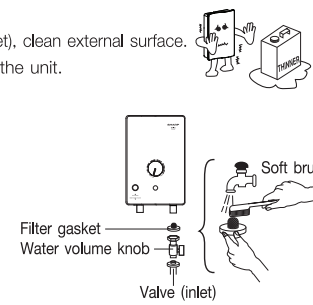
- Check the leakage at any joints by open the valve in the main water pipe.
- Check the electrical wire connection before open the main breaker (4).
- Test the earth leakage breaker (ELB) switch.
 - Push the ELB angle support (1) up to activate the internal electrical system.
 - Press the ELB checker button (2), if the ELB angle support slides down and the electrical system has been cut so the ELB system works properly.
- Operation test on the unit.
 - Push the ELB angle support up to activate the internal electrical system. Turn the water volume knob (6) in anti-clockwise direction. The normal temperature water will flow from the shower head.
 - Turn the temperature control knob (3) and the heater lamp (red) will display and the warm water will flow from the shower head. Turn the temperature control knob up/down to observe the temperature change from water.

CLEANING AND MAINTENANCE

- Inspection of ELB checker once a month.
 - Once press the ELB checker button, the circuit shall automatic cut off and you may hear the sound like "Click" and ELB checker is facing downward, it represent normal operation of ELB system. For next operation, remove the switch to its original position.



- Cleaning the shower head.
 - Use soft toothbrush to clean external cover of shower head.
 - Do not remove and clean the internal parts because it may cause damage to such components.
- Cleaning electric water heater unit.
 - Make sure the main breaker is turn off.
 - Use damp cloth with mild soap (but not wet), clean external surface.
 - Do not use benzene oil, thinner to clean the unit.
- Cleaning filter gasket.
 - Clean filter gasket with clean tap water and soft brush, clean the filter gasket from time to time when the water is come out properly.
 - Remove the filter gasket by twisting the connection at the top of the water volume knob in anti-clockwise direction after turn off the valve (inlet).



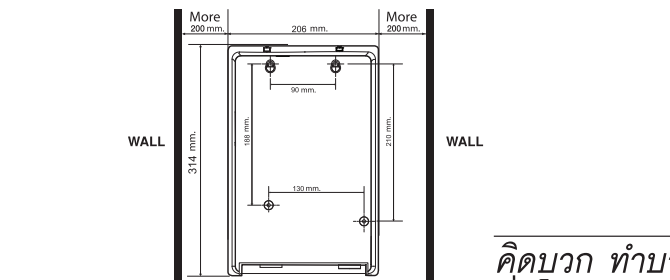
INITIAL INSPECTIONS

- Please inspect the following points before calling for service.

Symptom	Check points
Water cannot flow properly.	1. Check the filter gasket. It may be blocked. Please see cleaning filter gasket (on Page 16). 2. Check the shower head, it may be blocked. Please see cleaning the shower head (on Page 16). 3. Check the valve. It may be narrowed.
Water does not flow.	1. Check the valve whether it is on. 2. Check the water volume whether it is on.
No electricity supply to the unit.	1. Check the ELB angle support whether switch is upward.

- If you find the following symptom during operation, please contact SHARP service facility immediately.
 - Water leakage.
 - Cannot control water temperature.
 - Heater lamp is not working while the water volume knob and the temperature control knob is on.
 - Heater lamp is working while the water volume knob is on but the temperature control knob is off.
- Do not attempt to repair the unit, if it required qualified technician.

INSTALLATION STYLE



Sole Distributor in Thailand

THAI CITY ELECTRIC
THAI CITY ELECTRIC CO., LTD.
1643/4 New Petchburi Rd., Makasan, Ratchathewi, Bangkok 10400
Tel. 0 2333 3111 Call Center 0 2234 5000
E-mail : callcenter@thai-city.co.th

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