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EseMiee HG-HJWJL-2038-US-01

EseMiee Electric Tankless Water Heater User Manual

Model: HG-HJWJL-2038-US-01

1. Product Overview

The EseMiee Electric Tankless Water Heater provides instant and continuous hot water for your home. Designed for efficiency and convenience, this unit eliminates the need for a bulky hot water tank, saving space and energy. Its smart control system ensures a consistent temperature, while multiple safety features offer peace of mind.

Key features include:

- **Instant Heating:** Delivers hot water without preheating, suitable for various household needs.
- **Energy Efficiency:** Self-modulating technology heats water only when needed, reducing energy consumption.
- **Smart Control:** Features a large LED screen and touch buttons for easy temperature adjustment and monitoring.
- **Safety Protections:** Includes high temperature protection, dry heating protection, electrical leakage protection, and automatic power-off when water supply is interrupted.
- **Compact Design:** Vertical style with a tempered glass panel, ideal for point-of-use applications.



Figure 1.1: The EseMiee Electric Tankless Water Heater installed in a bathroom setting, showcasing its compact design and integration with existing plumbing fixtures.

2. Safety Information

Please read all safety instructions carefully before installation and operation to prevent injury or damage.

- **Grounding Requirement:** The water heater **must** be properly installed with a ground electrode to ensure electrical safety.
- **Water Connection First:** Always connect the water supply to the unit **before** powering it on. Operating the heater without water can cause severe damage.
- **Avoid Dry Heating/Freezing:** It is strictly forbidden to heat the water heater when there is no water flowing through it or if the water inside is frozen. This can lead to overheating and damage.
- **Temperature Check:** Before use, always test the water temperature with your hand to avoid scalding, especially when adjusting settings.
- **Electrical Separation:** The electric and fluid systems are completely separated within the unit to prevent electric leakage and water pipe corrosion.

- **Over-temperature Protection:** The unit features automatic shutdown in case of over-temperature conditions.
- **Power Protection:** The unit will automatically shut down when the water supply is turned off.

3. Package Contents

Verify that all items listed below are included in your package. If any items are missing or damaged, please contact customer support.

- 1 x Instant Water Heater Unit
- 1 x Shower Head
- 1 x Outlet Pipe
- 1 x Shower Bracket
- 1 x Set of Installation Accessories (screws, anchors, etc.)



Figure 3.1: Contents of the product package, showing the main heater unit and included accessories.

4. Specifications

Table 4.1: Product Specifications

Feature	Detail

Feature	Detail
Brand	EseMiee
Model Number	HG-HJWJL-2038-US-01
Rated Voltage	AC 110V
Rated Power	4500W
Rated Current	29.5A
Rated Water Pressure	0.6Mpa
Suitable Water Pressure	0.02-0.6Mpa
Waterproof Level	IPX4
Temperature Range	30-55℃ (water flow adjustable)
Maximum Temperature	55℃
Heating Material	Stainless Steel
Panel Material	Tempered Glass
Color	Gold
Product Dimensions (L x W x H)	28 x 19 x 6.5cm / 11.02 x 7.48 x 2.56 inches (approx.)
Item Weight	2.1kg / 4.8 pounds
Wire Diameter Requirement	≥4mm² copper core wire
Air Switch Requirement	≥40A
Hot Outlet Pipe Connector Diameter	Inner 0.7cm / 0.3inch; Outer 2cm / 0.8inch
Cold Inlet Pipe Connector Diameter	Inner 1.2cm / 0.5inch; Outer 2cm / 0.8inch

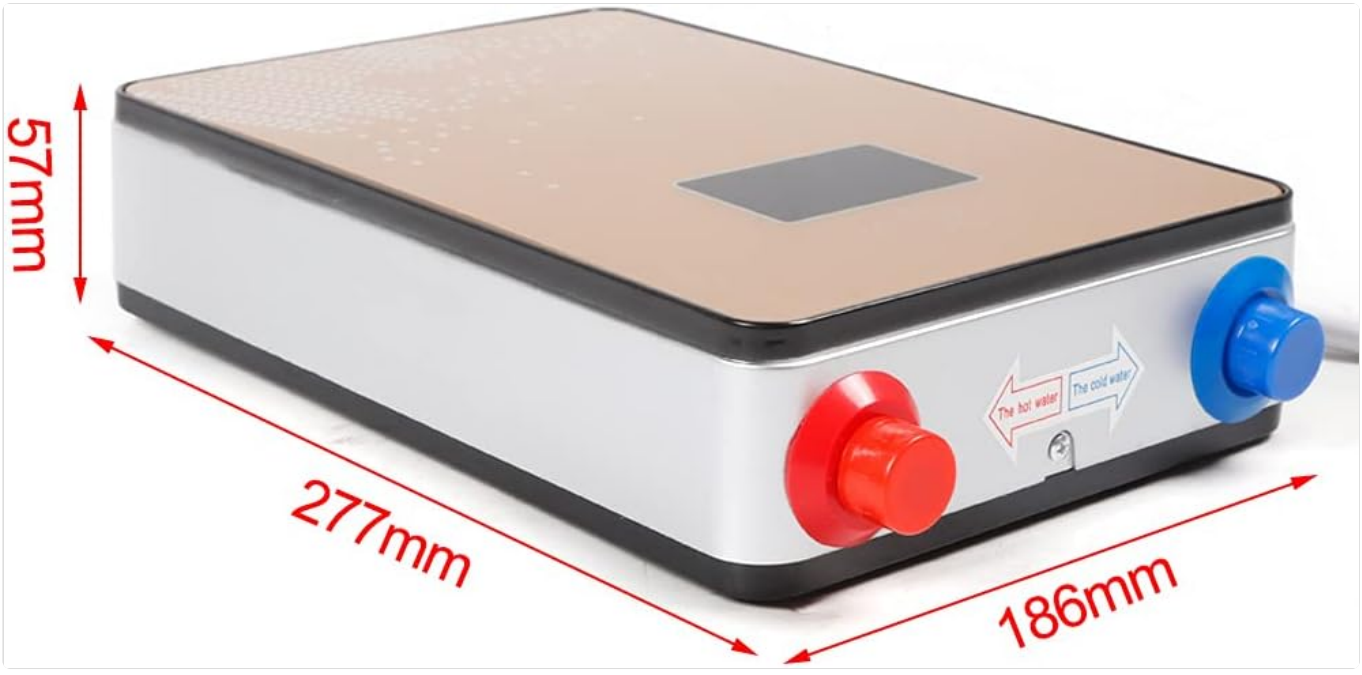


Figure 4.1: Dimensional drawing of the water heater unit.

5. Setup and Installation

Installation should be performed by a qualified professional to ensure safety and proper operation. Always adhere to local electrical and plumbing codes.

5.1 Pre-Installation Checklist

- Ensure the installation location is suitable for a tankless water heater (e.g., near point of use, adequate ventilation).
- Verify that your electrical system can support the 4500W power requirement (110V, 29.5A, with a dedicated circuit and ≥40A air switch).
- Confirm water pressure is within the suitable range (0.02-0.6Mpa).
- Gather all necessary tools and materials (e.g., drill, level, pipe wrench, sealant tape).

5.2 Mounting the Unit

1. Choose a flat, vertical wall surface capable of supporting the unit's weight.
2. Mark the drilling points using the provided mounting bracket as a template.
3. Drill holes and insert wall anchors.
4. Secure the mounting bracket to the wall.
5. Carefully hang the water heater unit onto the mounting bracket.

5.3 Plumbing Connections

1. Turn off the main water supply.
2. Connect the cold water inlet pipe (blue connector) to your cold water line. Ensure a tight, leak-free connection.
3. Connect the hot water outlet pipe (red connector) to your hot water fixture (e.g., shower head, faucet).
4. Open the main water supply and check for any leaks. Allow water to flow through the unit for a few minutes to purge air from the system.

5.4 Electrical Connections

1. Ensure the main power supply to the circuit is OFF at the breaker panel.
2. Connect the electrical wiring according to local electrical codes. This includes connecting the live, neutral, and ground wires. **The unit must be properly grounded.**
3. Verify all connections are secure.



Figure 5.1: The water heater installed, ready for use in a typical bathroom setup.

6. Operating Instructions

The EseMiee Tankless Water Heater is designed for user-friendly operation with its intuitive digital display and touch controls.

6.1 Initial Power-On

1. Ensure water is flowing through the unit (as per Section 5.3).
2. Turn on the electrical power to the unit at the breaker panel.
3. The LED display will illuminate, showing the current water temperature or a standby indicator.

6.2 Adjusting Temperature

- The large LED screen displays the set temperature and actual output temperature.
- Use the "**V**" (down) and "**^**" (up) touch buttons to adjust the desired water temperature. The temperature range is 30-55°C.

- The unit will automatically adjust its power output to maintain the set temperature, even with varying water flow rates.

6.3 Smart Self-Adjustment

The heater features smart self-modulating technology. This means it continuously monitors the incoming water temperature and flow rate, adjusting the heating power in real-time to deliver a consistent output temperature. For example, if the water flow is reduced, the system will apply less power to prevent the water from becoming scalding hot, ensuring a comfortable experience.



Figure 6.1: The digital display and touch control panel for temperature adjustment.

7. Maintenance

Regular maintenance helps ensure the longevity and efficient operation of your tankless water heater.

7.1 Cleaning the Exterior

- Wipe the tempered glass panel and exterior casing with a soft, damp cloth.
- Do not use abrasive cleaners, solvents, or harsh chemicals, as these can damage the surface.

- Ensure the unit is powered off before cleaning.

7.2 Water Inlet Filter (If Applicable)

Some installations may include an inline filter at the water inlet. Check your plumbing setup. If present, periodically inspect and clean this filter to prevent sediment buildup, which can affect water flow and heating efficiency.

7.3 Descaling (Professional Service Recommended)

In areas with hard water, mineral deposits (scale) can build up inside the heating elements over time, reducing efficiency. It is recommended to have the unit descaled by a qualified plumber periodically (e.g., annually or bi-annually, depending on water hardness). This process typically involves flushing the system with a descaling solution.

8. Troubleshooting

This section provides solutions to common issues you might encounter. If the problem persists, please contact customer support.

Table 8.1: Troubleshooting Guide

Problem	Possible Cause	Solution
No hot water / Unit not turning on	No power supply; Water not connected; Insufficient water flow; Over-temperature protection activated.	Check circuit breaker; Ensure water supply is connected and flowing; Verify water pressure; Allow unit to cool down if overheated.
Water not hot enough	Temperature setting too low; High incoming water temperature; Excessive water flow rate; Mineral buildup.	Increase temperature setting; Reduce water flow rate; Consider professional descaling if in hard water area.
Water too hot	Temperature setting too high; Very low water flow rate.	Decrease temperature setting; Increase water flow rate.
Water leakage	Loose plumbing connections; Damaged pipes or seals.	Tighten all water connections; Inspect pipes and seals for damage and replace if necessary. If internal leak, contact professional.
Display shows error code	Internal fault; Sensor issue.	Note the error code and refer to specific error code documentation (if available, not provided in input) or contact customer support. Try resetting power.

9. Warranty and Customer Support

Specific warranty information for the EseMiee Electric Tankless Water Heater is not provided within this manual. For details regarding warranty coverage, terms, and conditions, please refer to the product packaging, purchase documentation, or contact EseMiee customer support directly.

For technical assistance, troubleshooting beyond this guide, or to inquire about replacement parts, please contact:

- **EseMiee Customer Support:** Refer to the contact information provided on the product packaging or the official EseMiee website.
- When contacting support, please have your product model number (HG-HJWJL-2038-US-01) and purchase date ready.

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