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EcoSmart ECO MINI 1

EcoSmart ECO MINI 1 1.5-Gallon Electric Mini Tank Water Heater User Manual

Model: ECO MINI 1

1. Introduction

The EcoSmart ECO MINI 1 is a compact 1.5-gallon electric mini tank water heater designed to provide hot water efficiently at the point of use. This unit is ideal for applications where hot water is needed quickly and in smaller volumes, such as under a sink. It helps reduce water waste by eliminating the wait for hot water to reach the faucet.



Figure 1: EcoSmart ECO MINI 1 Electric Mini Tank Water Heater.

2. Safety Information

Read all instructions carefully before installation and use. Failure to follow these instructions may result in property damage, serious injury, or death.

- This appliance must be installed by a qualified plumber or electrician in accordance with all local and national plumbing and electrical codes.
- Ensure the power supply is disconnected before performing any installation or maintenance.
- Do not operate the water heater if it is damaged or malfunctioning.
- Do not block or restrict the pressure relief valve.
- Maintain proper water pressure; the maximum pressure for this unit is 150 psi.
- Keep flammable materials away from the water heater.

3. Package Contents

Verify that all components are present before beginning installation:

- EcoSmart ECO MINI 1 Water Heater Unit
- Pressure Relief Valve
- Mounting Bracket (if applicable)
- Instruction Manual (this document)

4. Specifications

Feature	Specification
Model	ECO MINI 1
Capacity	1.5 Gallons
Power Source	Corded Electric
Voltage	120 Volts
Wattage	1440 Watts
Heat Output	1500 Watts
Efficiency	99.8% Energy Efficient
Maximum Pressure	150 psi
Item Weight	11.7 pounds
Item Depth	11.4 inches
Material Type	Plastic
Mount Type	Wall

5. Setup and Installation

The EcoSmart ECO MINI 1 is designed for easy installation, typically under a sink for point-of-use applications. It plugs into a standard 120V outlet.

5.1 Plumbing Connections

1. Turn off the main water supply before starting.
2. Connect the cold water supply line to the inlet of the water heater.
3. Connect the hot water outlet of the water heater to the hot water faucet line.
4. Install the included pressure relief valve on the designated port. Ensure it is properly oriented and routed to a suitable drain or collection point.
5. **Important Note:** The unit has 1/2-inch connectors. If your existing plumbing uses 3/8-inch lines, you will need appropriate adapters (e.g., 3/8-inch compression to 1/2-inch FIP). Ensure secure, leak-free connections using plumber's tape or sealant as needed.
6. Once all connections are made, slowly turn on the cold water supply to fill the tank. Open a hot water faucet to allow air to escape until a steady stream of water flows. Check for leaks.

5.2 Electrical Connection

1. Ensure the tank is completely filled with water before connecting to power.
2. Plug the appliance line cord into a standard 120V grounded electrical outlet.

Your browser does not support the video tag.

Video 1: An overview of EcoSmart Mini Tank Water Heaters, demonstrating their compact size and typical installation scenarios. This video is provided by EcoSmart Water Heaters.

6. Operating Instructions

The EcoSmart ECO MINI 1 features a simple control interface:



Figure 2: Side view of the EcoSmart ECO MINI 1, highlighting the temperature control knob and indicator lights.

1. **Power On:** Once the unit is filled with water and plugged in, the power indicator light will illuminate.

2. **Temperature Adjustment:** Use the front-mounted knob to set the desired water temperature. Rotate clockwise to increase temperature and counter-clockwise to decrease.
3. **Heating Indicator:** The heating indicator light will turn on when the unit is actively heating water and turn off once the set temperature is reached.
4. The unit will cycle on and off as needed to maintain the set temperature.

7. Maintenance

Regular maintenance ensures optimal performance and longevity of your water heater.

- **Temperature Setting:** For units that are not used frequently or for extended periods, it is recommended to keep the temperature setting at the highest level to prevent the growth of bacteria, such as Legionella, within the tank.
- **Drainage:** Periodically drain the tank to remove sediment buildup. Turn off power and water supply, then open a hot water faucet and the pressure relief valve to drain.
- **Inspection:** Regularly inspect the unit for any signs of leaks, corrosion, or damage to the power cord.
- **Cleaning:** Clean the exterior of the unit with a soft, damp cloth. Do not use abrasive cleaners or solvents.

8. Troubleshooting

Refer to the following table for common issues and their solutions:

Problem	Possible Cause	Solution
No hot water	No power; thermostat set too low; heating element failure	Check power connection and circuit breaker; adjust thermostat; contact support for element replacement.
Water not hot enough	Thermostat set too low; excessive hot water demand	Increase thermostat setting; allow time for recovery.
Water leaking from unit	Loose plumbing connections; faulty pressure relief valve; fractured tank	Tighten connections; inspect/replace pressure relief valve; if tank is fractured, unit needs replacement.
Pressure relief valve dripping	Normal thermal expansion; excessive water pressure	This can be normal. If excessive, consider installing an expansion tank or pressure reducing valve.

9. Warranty Information

The EcoSmart ECO MINI 1 comes with a manufacturer's warranty:

- **Tank:** 6 years limited against leaks.
- **Parts:** 2 years limited on parts.

Please retain your proof of purchase for warranty claims. The warranty covers defects in materials and workmanship under normal use and service.

10. Support

For technical assistance, warranty claims, or further inquiries, please contact EcoSmart customer support. Refer to the official EcoSmart website for the most current contact information.
Website: www.ecosmartus.com

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