

## EcoSmart ECO MINI 4

# EcoSmart ECO MINI 4 4-Gallon 120V Electric Mini Tank Water Heater User Manual

## 1. INTRODUCTION

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your EcoSmart ECO MINI 4 4-Gallon 120V Electric Mini Tank Water Heater. Please read all instructions carefully before installation and use. Retain this manual for future reference.

The EcoSmart ECO MINI 4 is designed to provide hot water at the point of use, reducing wait times and conserving water. It can be used as a primary hot water source for a single sink or as a buffer in conjunction with a larger hot water system.

## 2. SAFETY INFORMATION

**WARNING: Improper installation, adjustment, alteration, service, or maintenance can cause property damage, injury, or death. Read these instructions thoroughly before installing or servicing this equipment.**

- Always disconnect power to the unit before performing any service or maintenance.
- This appliance must be installed by a qualified plumber or electrician in accordance with all local codes and ordinances.
- Do not operate this water heater if any part has been submerged in water. Immediately contact a qualified service technician to inspect the appliance and replace any part of the control system that has been submerged.
- The pressure relief valve (PRV) included with the unit must be installed and properly discharged to an open drain. Do not block or tamper with the PRV.
- Ensure proper grounding of the electrical connection. The unit plugs into a standard 120V outlet.
- This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

## 3. PRODUCT OVERVIEW AND FEATURES

The EcoSmart ECO MINI 4 is a compact and efficient electric mini tank water heater. Its design allows for flexible installation in various point-of-use applications.



Figure 1: Front view of the EcoSmart ECO MINI 4 water heater, showing the EcoSmart logo, temperature control knob, and power/heating indicator lights.

- **Capacity:** 4-Gallon tank.
- **Power:** Plugs into a standard 120V outlet.
- **Included Components:** Pressure Relief Valve (PRV) and appliance line cord.
- **Applications:** Suitable for buffer and point-of-use installations.
- **Design:** Lightweight and compact for easy installation.



Figure 2: Side view of the EcoSmart ECO MINI 4 water heater, illustrating its compact size, power cord, and safety warning labels.

## 4. INSTALLATION

Proper installation is critical for the safe and efficient operation of your water heater. It is highly recommended that installation be performed by a qualified professional.

### 4.1 Pre-Installation Checklist

- Verify that the installation location is suitable for the unit's dimensions (16.2"W x 17.5"H x 12.65"D) and weight (19.3 pounds when empty, significantly more when full).
- Ensure a dedicated 120V electrical outlet is available within reach of the appliance line cord.

- Confirm that water supply lines (hot and cold) are accessible.
- Have necessary plumbing fittings and tools on hand. Note that the unit has 1/2" NPT connections, and adapters may be required for existing 3/8" lines.

## 4.2 Mounting the Unit

1. Select a secure, vertical wall mounting location capable of supporting the full weight of the water heater.
2. Use appropriate mounting hardware (not included) for your wall type.
3. Ensure the unit is level and securely fastened.

## 4.3 Plumbing Connections

1. Turn off the main water supply.
2. Connect the cold water supply line to the inlet on the water heater (typically marked blue or 'C').
3. Connect the hot water outlet from the water heater (typically marked red or 'H') to the hot water faucet line.
4. Install the provided Pressure Relief Valve (PRV) into the designated port on the unit. Route the PRV discharge line to an open drain, ensuring it is not blocked or capped.
5. Open the main water supply and check all connections for leaks. Allow the tank to fill completely and purge air from the system by opening a hot water faucet until water flows steadily.

## 4.4 Electrical Connection

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

# 5. OPERATION

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Once installed and powered, the EcoSmart ECO MINI 4 is designed for straightforward operation.

## 5.1 Initial Startup

1. After plumbing and electrical connections are complete and the tank is full of water, plug in the unit.
2. The 'POWER' indicator light will illuminate, indicating the unit is receiving electricity.
3. The 'HEATING' indicator light will illuminate when the unit is actively heating water. This light will turn off once the set temperature is reached.

## 5.2 Temperature Adjustment

- The unit features a temperature control knob on the front panel.
- Rotate the knob clockwise to increase the water temperature and counter-clockwise to decrease it.
- Allow time for the water to heat up after adjusting the setting. The heating time will vary based on the initial water temperature and the desired setting.

# 6. MAINTENANCE

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

- **Pressure Relief Valve (PRV) Test:** Annually, lift and release the lever on the PRV to ensure it operates freely and is not obstructed. Water should discharge from the drain line. If no water discharges, or if the valve sticks, replace it immediately.
- **Drain and Flush:** Periodically (e.g., annually), drain and flush the tank to remove sediment buildup. This involves disconnecting power, closing the cold water inlet, connecting a hose to the drain valve, and opening the drain valve.
- **Exterior Cleaning:** Clean the exterior of the unit with a damp cloth. Do not use abrasive cleaners or solvents.

## 7. TROUBLESHOOTING

This section addresses common issues you might encounter with your EcoSmart ECO MINI 4 water heater.

Problem	Possible Cause	Solution
No hot water or insufficient hot water	<ul style="list-style-type: none"><li>• No power to the unit</li><li>• Temperature setting too low</li><li>• Tank empty or partially filled</li><li>• Thermostat malfunction</li></ul>	<ul style="list-style-type: none"><li>• Check power connection and circuit breaker.</li><li>• Adjust temperature knob to a higher setting.</li><li>• Ensure tank is full and air is purged.</li><li>• Contact customer support for assistance.</li></ul>
Water leaking from unit	<ul style="list-style-type: none"><li>• Loose plumbing connections</li><li>• Faulty Pressure Relief Valve (PRV)</li><li>• Tank leak</li></ul>	<ul style="list-style-type: none"><li>• Tighten all plumbing connections.</li><li>• Test or replace PRV.</li><li>• If tank is leaking, discontinue use and contact customer support.</li></ul>
Water is too hot	Temperature setting too high	Adjust temperature knob to a lower setting.

## 8. SPECIFICATIONS

Specification	Detail
Model	ECO MINI 4
Capacity	4 Gallons
Voltage	120 Volts
Wattage	1440 Watts
Amperage	12 Amps
Product Dimensions (W x H)	16.2" x 17.5"
Item Depth	12.65 inches

Specification	Detail
Item Weight (Empty)	19.3 pounds
Mounting Type	Wall
Color	White
UPC	854920002381

## 9. WARRANTY AND SUPPORT



EcoSmart provides a limited warranty for this product.




- **Tank Leak Warranty:** 6 years limited.
- **Parts Warranty:** 2 years.

For warranty claims, technical support, or further assistance, please refer to the contact information provided on the EcoSmart official website or your purchase documentation. Please have your model number (ECO MINI 4) and proof of purchase available when contacting support.

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## Related Documents - ECO MINI 4

 <p>Electric Mini Tank Water Heaters ECO MINI 1 - ECO MINI 2.5 - ECO MINI 4 - ECO MINI 6</p> <p>Installation and Operating Instruction Manual</p>	<p><a href="#">Ecosmart Electric Mini Tank Water Heaters: Installation &amp; Operation Manual for ECO MINI 1, 2.5, 4, 6</a></p> <p>This Ecosmart manual provides comprehensive installation and operating instructions for ECO MINI 1, ECO MINI 2.5, ECO MINI 4, and ECO MINI 6 electric mini tank water heaters. Learn about safety, technical specifications, plumbing, electrical connections, and maintenance for these point-of-use water heaters designed for hand wash and kitchen sinks.</p>
 <p>Electric Mini Tank</p> <p>ECO MINI 1 ECO MINI 2.5 ECO MINI 4 ECO MINI 6</p> <p>Specifications</p> <p>Recovery Time</p> <p>Applications</p> <p>Product Attributes</p>	<p><a href="#">EcoSmart Electric Mini Tank Water Heater Specifications and Applications</a></p> <p>Detailed specifications, recovery times, product attributes, and heating applications for EcoSmart Electric Mini Tank Water Heaters, including models ECO MINI 1, 2.5, 4, and 6.</p>

 <p><b>Electric Mini Tank Water Heaters</b> ECO MINI 1 - ECO MINI 2.5 - ECO MINI 4 - ECO MINI 6</p> 	<p><a href="#">EcoSmart Electric Mini Tank Water Heaters: Installation &amp; Operation Manual</a></p> <p>Comprehensive installation and operating instructions for EcoSmart Electric Mini Tank Water Heaters (ECO MINI 1, 2.5, 4, 6). Learn about product specifications, safety, plumbing, electrical connections, and maintenance for these compact, energy-efficient point-of-use water heaters.</p>
 <p><b>INSTALLATION INSTRUCTIONS &amp; HOMEOWNER'S MANUAL</b> ECO 8   ECO 11   ECO 18   ECO 24   ECO 27   ECO 36</p> <p><b>IMPORTANT SAFETY INFORMATION</b></p> <p>Read and understand all instructions before attempting to install or use this product. Failure to follow instructions may result in property damage, personal injury, or death. This manual contains important safety information that must be read and understood before attempting to install or use this product. Please read the entire manual carefully before attempting to install or use this product. This manual contains important safety information that must be read and understood before attempting to install or use this product. Please read the entire manual carefully before attempting to install or use this product.</p>	<p><a href="#">EcoSmart Tankless Water Heater Installation and Homeowner's Manual for ECO 8, 11, 18, 24, 27, 36 Models</a></p> <p>Comprehensive installation instructions and homeowner's manual for EcoSmart electric tankless water heaters (ECO 8, 11, 18, 24, 27, 36 models). Includes safety information, plumbing and electrical installation guides, sizing charts, maintenance tips, troubleshooting, and warranty details.</p>
 <p><b>INSTALLATION INSTRUCTIONS &amp; OWNER'S MANUAL</b> ECO 8   ECO 11   ECO 18   ECO 24   ECO 27   ECO 36</p> <p><b>IMPORTANT SAFETY INFORMATION</b></p> <p>Read and understand all instructions before attempting to install or use this product. Failure to follow instructions may result in property damage, personal injury, or death. This manual contains important safety information that must be read and understood before attempting to install or use this product. Please read the entire manual carefully before attempting to install or use this product. This manual contains important safety information that must be read and understood before attempting to install or use this product. Please read the entire manual carefully before attempting to install or use this product.</p>	<p><a href="#">EcoSmart Tankless Water Heater Installation and Owner's Manual</a></p> <p>Comprehensive installation, operation, safety, and maintenance guide for EcoSmart ECO 8, ECO 11, ECO 18, ECO 24, ECO 27, and ECO 36 tankless electric water heaters. Includes troubleshooting and warranty information.</p>
 <p><b>INSTALLATION INSTRUCTIONS &amp; HOMEOWNERS MANUAL</b> MODEL 16   18   21   24   27</p> <p><b>IMPORTANT SAFETY INFORMATION</b></p> <p>Read and understand all instructions before attempting to install or use this product. Failure to follow instructions may result in property damage, personal injury, or death. This manual contains important safety information that must be read and understood before attempting to install or use this product. Please read the entire manual carefully before attempting to install or use this product. This manual contains important safety information that must be read and understood before attempting to install or use this product. Please read the entire manual carefully before attempting to install or use this product.</p>	<p><a href="#">EcoSmart Tankless Water Heater Installation and Homeowners Manual</a></p> <p>Comprehensive installation instructions and homeowners manual for EcoSmart ECO 16, 18, 21, 24, and 27 electric tankless water heaters, covering safety, setup, operation, maintenance, and warranty.</p>