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EcoSmart ECO 11

EcoSmart ECO 11 Electric Tankless Water Heater

Model: ECO 11

INTRODUCTION

The EcoSmart ECO 11 Electric Tankless Water Heater is designed to provide efficient, on-demand hot water for various applications. Its compact size and advanced self-modulating technology ensure a continuous supply of hot water while minimizing energy consumption. This manual provides essential information for the proper installation, operation, and maintenance of your EcoSmart ECO 11 unit.

Key features include:

- **Endless On-Demand Hot Water:** Consistent hot water when you need it that never runs out. Continuously monitored water temperature and controlled flow rates ensure efficiency and consistent performance within 1 degree of selected temperature.
- **Space-Saving Design:** 90% smaller than traditional tank heaters, allowing for flexible installation on a wall or at the point of use. Dimensions: 11.5 x 8 x 3.75 inches.
- **Energy Efficient:** 99% thermal energy efficient, only heating water when called, unlike tank heaters that maintain water temperature even when not being used.
- **Optimal Sizing:** 13-kilowatt unit ideal for providing hot water for a bathroom, small sink, office breakroom, and other point-of-use or low-flow applications. Provides between 1.3 and 3.1 gallons-per-minute depending on the inlet water temperature.

SETUP AND INSTALLATION

Proper installation is crucial for the safe and efficient operation of your EcoSmart ECO 11 water heater. It is recommended that installation be performed by a qualified professional.

Electrical Requirements

The EcoSmart ECO 11 requires specific electrical infrastructure:

- **Voltage:** 220-240 Volts
- **Wattage:** 13000 watts (13KW)
- **Amperage Draw:** 54 Amps
- **Circuit Breaker:** Requires 1x 60 AMP double-pole circuit breaker
- **Required Wiring:** #6 AWG

Ensure your electrical panel can accommodate these requirements. Consult with a licensed electrician if unsure.



Figure 1: Electrical requirements for the EcoSmart ECO 11, showing 54 Amps power, 1 double pole, and a 60 Amp breaker.

Plumbing Connections

Connect the cold water inlet and hot water outlet pipes to the designated ports on the unit. Ensure all connections are secure and leak-free. The unit is designed for easy plumbing hook-up.

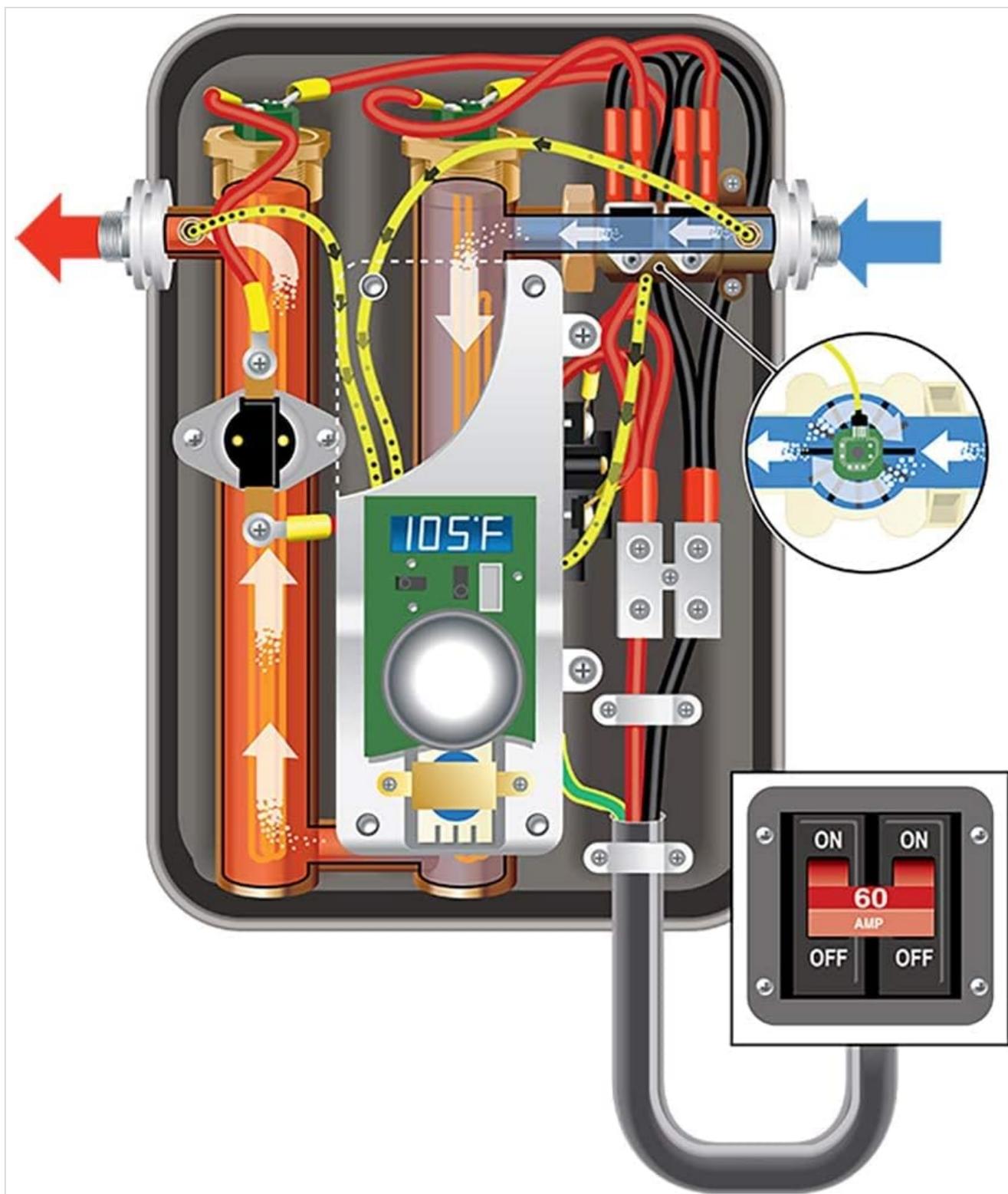


Figure 2: Internal components and connection points of the EcoSmart ECO 11 water heater.

Physical Dimensions and Placement

The compact size of the ECO 11 allows for versatile installation options:

- **Product Dimensions:** 11.5 inches (Height) x 8 inches (Width) x 3.75 inches (Depth).
- **Mounting Type:** Wall-mounted.
- **Placement:** Can be installed at the point of use, such as under a kitchen sink, near a washing machine, in a guest house, or even on a boat or RV.

ECO 11

Depth
3.7"

Width
7.9"

Height
11.4"



Figure 3: Detailed dimensions of the EcoSmart ECO 11 unit.

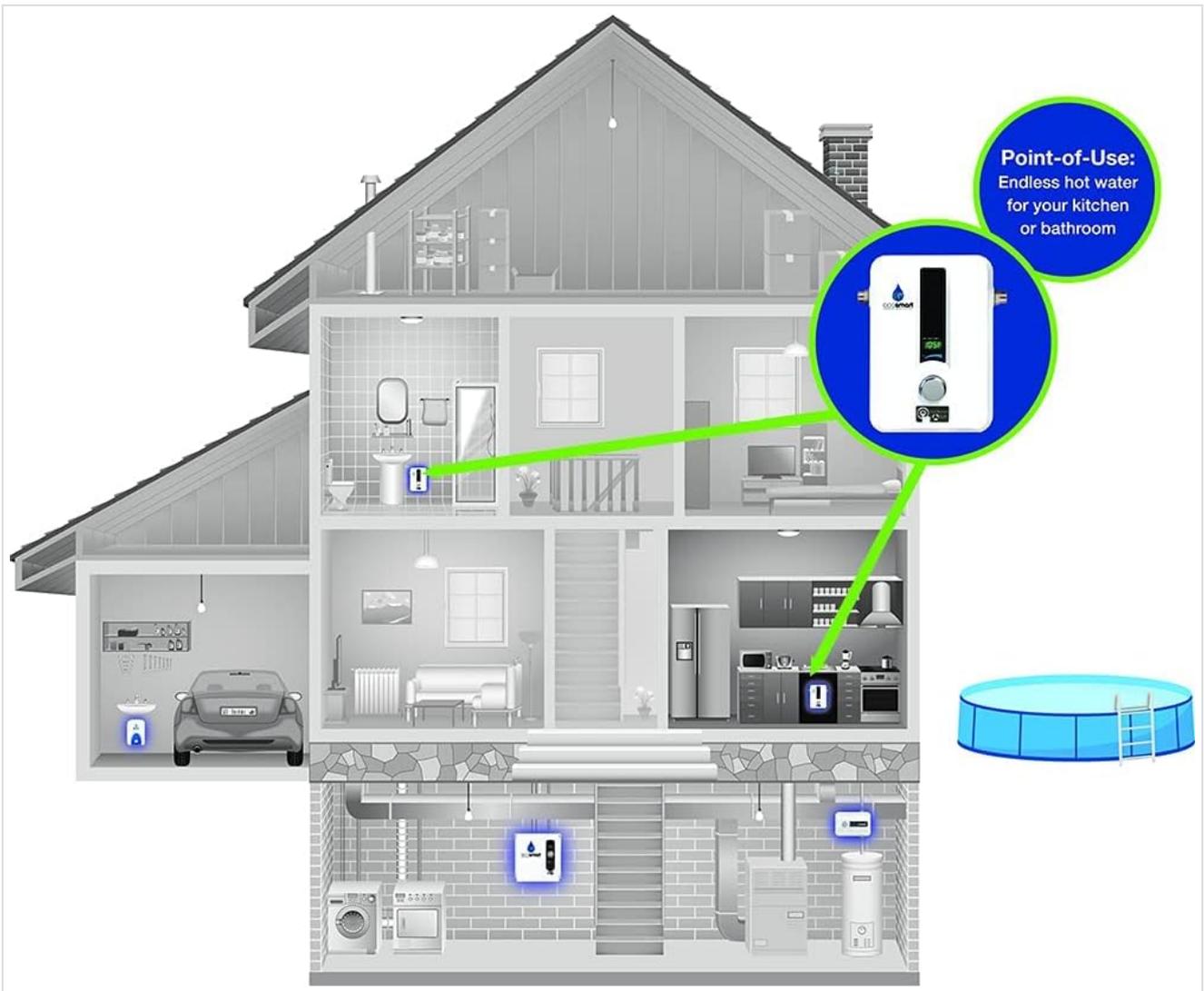


Figure 4: Example installations demonstrating point-of-use applications throughout a home.

OPERATING INSTRUCTIONS

The EcoSmart ECO 11 features a user-friendly digital temperature control for precise hot water delivery.

Temperature Control

The unit allows you to set your desired water temperature in increments of 1 degree Fahrenheit. The temperature range is from 80°F to 140°F.

- **To Turn On/Off:** Press the central knob for 3 seconds.
- **To Adjust Temperature:** Rotate the central knob to increase or decrease the setting. The digital display will show the selected temperature.



Figure 5: The front panel of the EcoSmart ECO 11 with its digital temperature display and control knob.

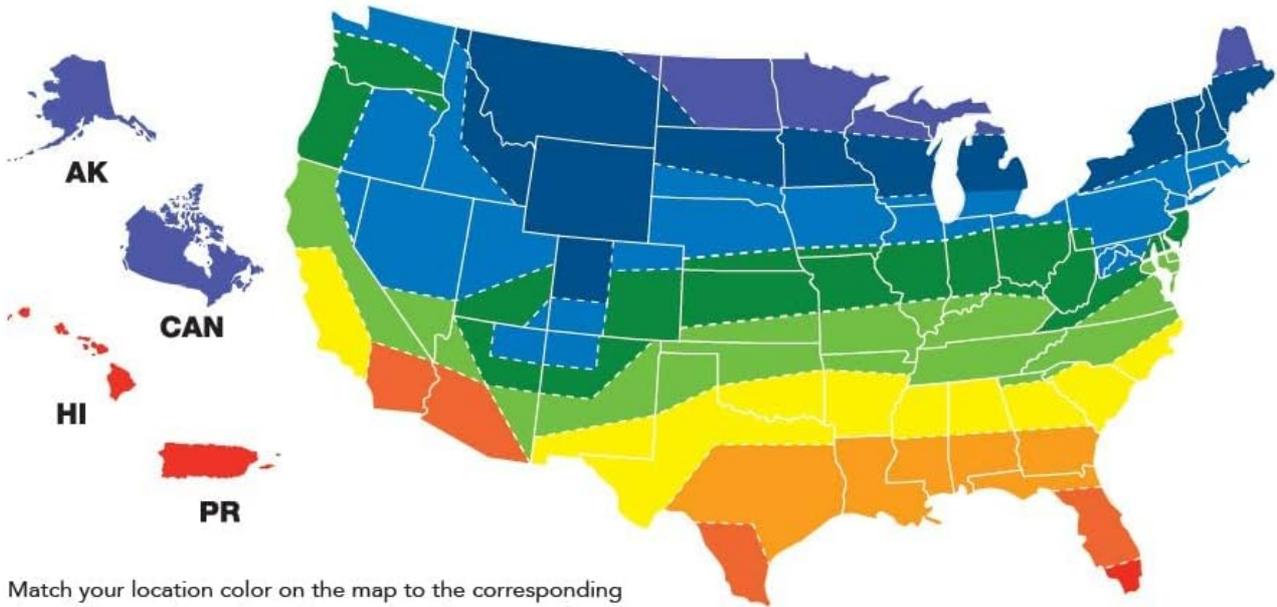
Flow Rate and Sizing

The ECO 11 provides hot water based on the inlet water temperature and flow rate. It can deliver between 1.3 and 3.1 gallons-per-minute (GPM).

- In colder climates (lower inlet water temperature), the GPM will be lower.
- In warmer climates (higher inlet water temperature), the GPM will be higher.

Refer to the sizing guide below to determine the optimal performance for your specific location and usage needs.

ECO 11



Match your location color on the map to the corresponding chart below to determine unit capacity, or how many faucets and showers can be supported simultaneously.

SIZING CHART

Inlet Temp.	kW	GPM	Approx Usage
37°F	13	1.3	
42°F	13	1.4	
47°F	13	1.5	
52°F	13	1.7	
57°F	13	1.8	
62°F	13	2.0	
67°F	13	2.3	
72°F	13	2.7	
77°F	13	3.1	

APPLICATION KEY

Description	GPM	Range	Symbol
Low Flow Faucet	0.5	0.5–0.9	
Bathroom Faucet	1	0.5–1.3	
Kitchen Faucet	1.5	1.0–2.2	
Shower	2	1.5–2.5	

The flow rate for each symbol is represented in the GPM (gallons-per-minute) column of the Application Key. The Range column indicates variations in GPM for faucets and showers based on manufacturer and style.

Sharing the Warmth™

Figure 6: Sizing chart and map illustrating GPM capacity based on regional inlet water temperatures.

Official Product Video: Why Purchase a Tankless Water Heater



This video from Amazon Tools & Home Improvement explains the benefits and advantages of purchasing a tankless water heater, including space-saving, efficiency, and temperature control.

MAINTENANCE

Regular maintenance helps ensure the longevity and efficiency of your EcoSmart ECO 11 water heater.

- **Descaling:** In areas with hard water, mineral deposits (calcium) can build up on the heating elements. Regular descaling with vinegar or a suitable descaling solution is recommended to maintain efficiency.
- **Check Connections:** Periodically inspect all water and electrical connections for any signs of leaks or wear.
- **Clean Exterior:** Keep the exterior of the unit clean and free from dust and debris.

TROUBLESHOOTING

If you experience issues with your EcoSmart ECO 11, consider the following common troubleshooting steps:

- **No Hot Water:** Check the circuit breaker to ensure it hasn't tripped. Verify that the unit is powered on and the temperature is set correctly. Ensure sufficient water flow.
- **Insufficient Hot Water:** This can be due to a very low incoming water temperature or excessive flow rate. Adjust the temperature setting or reduce the flow rate at the faucet. Mineral buildup on heating elements can also reduce efficiency; consider descaling.
- **Leaks:** Immediately shut off water supply and power to the unit. Inspect all plumbing connections for tightness. If leaks persist, contact a qualified plumber.
- **Error Codes:** Refer to the detailed user manual (link in Warranty & Support section) for specific error code interpretations and solutions.

For persistent issues, contact EcoSmart customer support.

SPECIFICATIONS

Feature	Value
Brand	EcoSmart
Model	ECO 11
Product Dimensions	8"W x 11.5"H x 3.75"D
Color	White
Wattage	13000 watts
Voltage	220 Volts
Maximum Flow Rate	3.1 Gallons Per Minute
Maximum Temperature	140 Degrees Fahrenheit
Heat Output	11 Kilowatts
Efficiency	99.8 %
Mounting Type	Wall
Item Weight	6.5 pounds
UPC	854920002022
First Available	March 19, 2010

WARRANTY AND SUPPORT

Warranty Information

The EcoSmart ECO 11 Electric Tankless Water Heater comes with a **Lifetime Warranty** on electronics, exchanger, and element. Please note that the warranty only covers the cost of the heater and does not cover labor or any incidental damages.

Customer Support

For detailed instructions, troubleshooting, or further assistance, please refer to the official user manuals:

- [User Manual \(PDF\)](#)
- [User Guide \(PDF\)](#)

You can also visit the official EcoSmart Store on Amazon for more product information and support resources:

[EcoSmart Store](#)

Related Documents - ECO 11

 INSTALLATION INSTRUCTIONS & HOMEOWNER'S MANUAL ECO 8, ECO 11, ECO 18, ECO 24, ECO 27, ECO 36 IMPORTANT SAFETY INFORMATION This manual contains important safety information. Read this manual carefully before installing, operating, or maintaining the water heater. Failure to follow the instructions could result in property damage, personal injury, or death. For more information, see the safety section of this manual.	<p>EcoSmart Tankless Water Heater Installation and Homeowner's Manual for ECO 8, 11, 18, 24, 27, 36 Models</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>
 INSTALLATION & OPERATION MANUAL FOR PROPRIETARY ECO 8, ECO 11, ECO 18, ECO 24, ECO 27, ECO 36 IMPORTANT SAFETY INFORMATION This manual contains important safety information. Read this manual carefully before installing, operating, or maintaining the water heater. Failure to follow the instructions could result in property damage, personal injury, or death. For more information, see the safety section of this manual.	<p>EcoSmart Tankless Water Heater Installation and Owner's Manual</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>
 INSTALLATION INSTRUCTIONS & HOMEOWNERS MANUAL ECO 16, ECO 18, ECO 21, ECO 24, ECO 27 IMPORTANT SAFETY INFORMATION This manual contains important safety information. Read this manual carefully before installing, operating, or maintaining the water heater. Failure to follow the instructions could result in property damage, personal injury, or death. For more information, see the safety section of this manual.	<p>EcoSmart Tankless Water Heater Installation and Homeowners Manual</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>
 INSTRUCTIONS D'INSTALLATION ET GUIDE D'UTILISATION DU PROPRIÉTAIRE ECO 8, ECO 11, ECO 18, ECO 24, ECO 27, ECO 36 IMPORTANT SAFETY INFORMATION Ce manuel contient des informations de sécurité importantes. Lisez attentivement ce manuel avant d'installer, d'utiliser ou d'entretenir le chauffe-eau. Le non-respect des instructions peut entraîner des dommages matériels, des blessures personnelles ou la mort. Pour plus d'informations, consultez la section de sécurité de ce manuel.	<p>Instructions d'Installation et Guide d'Utilisation du Propriétaire pour Chauffe-eau Sans Réservoir EcoSmart ECO Series</p> <p>Ce manuel fournit des instructions complètes pour l'installation, l'utilisation, l'entretien et le dépannage des chauffe-eau électriques sans réservoir EcoSmart des séries ECO 8, ECO 11, ECO 18, ECO 24, ECO 27 et ECO 36. Il inclut des informations de sécurité importantes, des spécifications techniques et des directives pour une performance optimale et des économies d'énergie.</p>



INSTALLATION INSTRUCTIONS & HOMEOWNER'S MANUAL
 ECO 8, 11, 18, 24, 27, 36

IMPORTANT SAFETY INFORMATION

Read and understand all instructions and warnings before installing, operating, or maintaining this product. Failure to follow instructions may result in property damage, personal injury, or death. For more information, visit www.ecosmart.com.

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[EcoSmart Tankless Water Heater Installation & Homeowner's Manual | ECO 8, 11, 18, 24, 27, 36](#)

Comprehensive installation instructions and homeowner's manual for EcoSmart Electric Tankless Water Heaters (ECO 8, 11, 18, 24, 27, 36). Learn about safety, setup, operation, maintenance, and troubleshooting for optimal performance and energy savings.

ECO SMART
 3 Smart Steps For Endless Hot Water

1. Choose the Right Model
 Select the right model based on your climate and hot water needs. The guide includes a color-coded map of the United States and a table of specifications for models ECO 3.5, ECO 6, ECO 8, ECO 11, ECO 18, ECO 24, ECO 27, and ECO 36.

2. Understand Unit Capacity (GPM)
 Learn how to determine the required unit capacity for your specific application, such as a single bathroom, a multi-bathroom home, or a commercial setting.

3. Review Detailed Electrical and Physical Specifications
 Access detailed technical data for each model, including electrical requirements, physical dimensions, and installation clearances.

[EcoSmart Tankless Water Heaters: 3 Smart Steps for Endless Hot Water](#)

Discover EcoSmart tankless water heaters. This guide helps you choose the right model based on your climate, understand unit capacity (GPM) for various applications, and review detailed electrical and physical specifications for models POU 3.5, POU 6, ECO 8, ECO 11, ECO 18, ECO 24, ECO 27, and ECO 36.