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Eemax SPEX2412

Eemax FlowCo SPEX2412 Electric Point of Use Water Heater User Manual

Model: **SPEX2412** | Brand: **Eemax**

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation of your Eemax FlowCo SPEX2412 Electric Point of Use Water Heater. The FlowCo SPEX2412 is a non-thermostatic, tankless electric water heater designed to deliver instant hot water for single, fixed-flow applications such as handwashing at a single sink. Its compact design and on-demand activation ensure energy efficiency and convenience. Key features include SafeStart technology for reliable operation, self-diagnostics for easy troubleshooting, and the ability to mount in any orientation, offering flexible installation options.



Figure 1: Front view of the Eemax FlowCo SPEX2412 water heater.

2. SAFETY INFORMATION

Please read all safety instructions carefully before installation and operation. Failure to follow these instructions may result in property damage, serious injury, or death.

- **Electrical Hazard:** This unit requires a dedicated 120 Volt, 20 Amp circuit with 12-2 wiring. Ensure proper grounding. All electrical work must be performed by a qualified electrician in accordance with national and local electrical codes.
- **Hot Water Hazard:** Water temperatures can reach up to 130°F (54°C). Exercise caution to prevent scalding.
- **Water Pressure:** Ensure water pressure is within the recommended range for the unit.
- **Indoor Installation Only:** This appliance is designed for indoor use only.
- **Proposition 65 Warning:** This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

3. SETUP AND INSTALLATION

Professional installation is highly recommended for this appliance to ensure safety and proper function.

3.1. Location Selection

- Choose a location close to the point of use to minimize heat loss.
- Ensure the location is protected from freezing temperatures.
- The unit can be mounted in any orientation (vertical or horizontal).

3.2. Mounting

Securely mount the unit to a solid surface using appropriate fasteners. Refer to the mounting template (if provided with the physical product) for precise hole placement.

3.3. Plumbing Connections

- Connect the cold water supply line to the inlet port and the hot water outlet line to the outlet port.
- Use appropriate plumbing fittings and ensure all connections are watertight.
- Flush the water heater thoroughly before connecting to the electrical supply to remove any air from the system. This prevents dry-firing of the heating elements.

3.4. Electrical Connections

WARNING: All electrical work must be performed by a licensed electrician.

- Ensure the main power supply to the circuit is turned OFF at the breaker panel before making any connections.
- Connect the unit to a dedicated 120 Volt, 20 Amp circuit.
- Use 12-2 gauge wiring for the electrical connection.
- Follow the wiring diagram provided inside the unit's cover for correct connections (Line, Neutral, Ground).



Figure 2: Internal view of the Eemax FlowCo SPEX2412, showing electrical and plumbing connections.

4. OPERATING INSTRUCTIONS

The Eemax FlowCo SPEX2412 operates automatically on demand. There are no user-adjustable temperature controls on this non-thermostatic model.

- **Activation:** The unit activates automatically when water flow is detected.
- **Hot Water Delivery:** Hot water is delivered continuously as long as water is flowing through the unit.
- **Temperature Output:** The output water temperature is dependent on the incoming water temperature and the flow rate. Higher flow rates will result in lower temperature increases. The maximum output temperature is approximately 130°F (54°C).
- **Energy Efficiency:** The unit only consumes power when hot water is being used, contributing to energy savings.



Figure 3: Example installation of the Eemax FlowCo SPEX2412 in a point-of-use application.

5. MAINTENANCE

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

- **Periodic Inspection:** Annually inspect the unit for any signs of leaks, corrosion, or damage to electrical connections.
- **Inlet Screen Cleaning:** Periodically check and clean the inlet screen filter to prevent sediment buildup, which can restrict water flow and affect performance. Turn off water supply and power before cleaning.
- **Descaling:** In areas with hard water, mineral deposits can accumulate within the heating elements. Consult a qualified plumber for descaling procedures if you notice a decrease in performance.
- **Exterior Cleaning:** Clean the exterior of the unit with a soft, damp cloth. Do not use abrasive cleaners or solvents.

6. TROUBLESHOOTING

Before attempting any troubleshooting, ensure the power supply to the unit is OFF.

- **No Hot Water:**

- Check if the circuit breaker for the unit has tripped. Reset if necessary.
- Ensure the water supply valve to the unit is fully open.
- Verify that there is sufficient water flow to activate the unit.

- **Water Not Hot Enough:**

- Reduce the water flow rate at the faucet. The unit's temperature output is inversely proportional to flow rate.
- Confirm the electrical supply meets the unit's requirements (120V, 20A).
- Check for sediment buildup in the inlet screen.

- **Leaking:**

- Inspect all plumbing connections for tightness. Tighten if loose.
- If leaks persist or originate from within the unit, immediately turn off water and power and contact a qualified plumber or Eemax customer support.

- **Burning Smell:**

- Immediately turn off the electrical power to the unit at the circuit breaker.
- Do not operate the unit. Contact a qualified electrician or Eemax customer support.

For issues not resolved by these steps, contact Eemax customer support or a qualified professional.

7. SPECIFICATIONS

Specification	Value
Brand	Eemax
Model Number	SPEX2412
Product Dimensions	5"W x 3"H (Unit dimensions are 5"W x 12"H x 3"D)
Color	White
Wattage	2400 watts (2.4 Kilowatts)
Voltage	120 Volts
Maximum Temperature	130 Degrees Fahrenheit
Efficiency	Energy Efficient
Mounting Type	Wall
Item Weight	0.01 ounces (Note: This weight appears to be an error in source data, actual weight will be higher)
UPC	091654924866
Power Source	AC

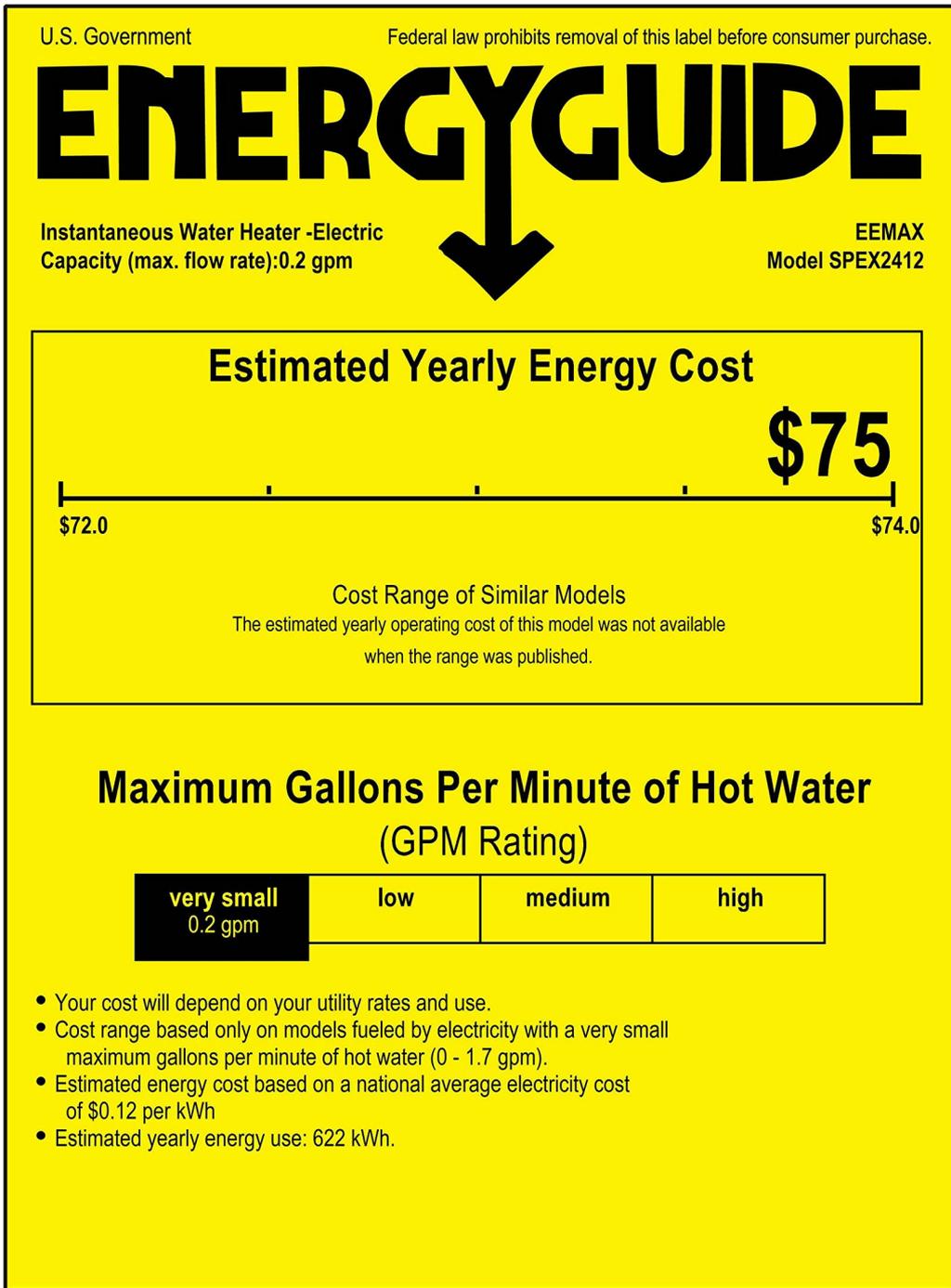


Figure 4: Energy Guide label for the Eemax SPEX2412, indicating energy consumption and flow rate.

8. WARRANTY AND SUPPORT

8.1. Warranty Information

The Eemax FlowCo SPEX2412 comes with a limited warranty:

- **Parts:** 1 year
- **Leaks:** 5 years

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

8.2. Customer Support

For technical assistance, warranty claims, or further inquiries, please contact Eemax customer support. Refer to the official Eemax website or the packaging for the most current contact information.

Eemax Website: www.eemax.com