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› Marey ECO180 Electric Tankless Water Heater, 18kW 240V User Manual

MAREY ECO180

Marey ECO180 Electric Tankless Water Heater User Manual

Model: ECO180 | 18kW 240V

INTRODUCTION

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your Marey ECO180 Electric Tankless Water Heater. Please read these instructions thoroughly before installation and use to ensure proper function and to prevent potential hazards. This unit is designed to provide unlimited on-demand hot water for whole-house applications, offering efficiency and convenience.

IMPORTANT SAFETY INFORMATION

Failure to follow these safety instructions could result in property damage, serious injury, or death. Always adhere to local codes and regulations.

- **Professional Installation:** Installation of this water heater must be performed by a qualified and licensed electrician and plumber in accordance with all national, state, and local electrical and plumbing codes.
- **Electrical Requirements:** This unit requires a dedicated electrical installation with a 220V-240V power supply, two 50 Amp double-pole breakers, and 6-gauge wires. Incorrect wiring can lead to fire or electric shock.
- **Grounding:** Ensure the unit is properly grounded to prevent electrical shock.
- **Water Pressure:** Do not operate the unit if water pressure is outside the recommended range (25-87 PSI).
- **Damage Inspection:** Do not operate the unit if it is damaged or malfunctioning. Disconnect power immediately and contact customer support.
- **Ventilation:** Do not block any ventilation openings on the unit.
- **ETL Certified:** The Marey ECO180 is ETL certified, ensuring it meets rigorous safety and performance standards.

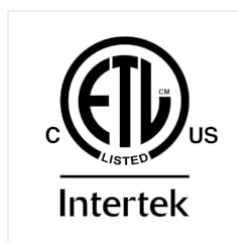


Image: ETL Certified Logo, indicating compliance with safety standards.

PRODUCT FEATURES

The Marey ECO180 Electric Tankless Water Heater offers advanced features for efficient and reliable hot water delivery:

- **On-Demand Hot Water:** Heats water only when needed, eliminating standby energy consumption common with tank-type units.
- **Smart Technology:** Intelligently applies power to efficiently heat water to your desired temperature, optimizing energy savings.
- **Compact Design:** Space-saving dimensions of 16.5" H x 10.9" W x 3.5" D allow for flexible installation in limited spaces.
- **Durable Heating Element:** Features a corrosion-resistant patented heating element that reduces hard water buildup, extending unit lifespan.
- **German-Designed Quality:** Engineered with a high-quality stainless steel water channel and heating chamber for reliability.
- **Flow Activated:** The unit automatically activates when water flow is detected.
- **Digital Display:** An LCD panel allows for precise setting of the desired water temperature.
- **Whole-House Application:** Capable of handling up to 3 simultaneous points of use, suitable for various household needs depending on climate and incoming water temperature.

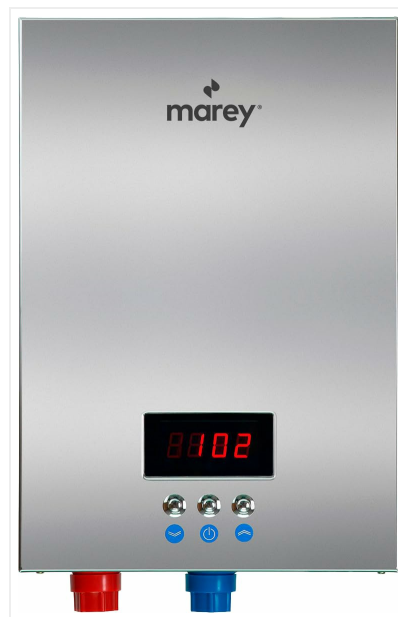


Image: Front view of the Marey ECO180 Electric Tankless Water Heater with digital display.



Image: Diagram illustrating whole-house application with multiple points of use.



Image: Visual highlighting Smart Technology and stainless steel cover.

SETUP AND INSTALLATION

Proper installation is critical for the safe and efficient operation of your tankless water heater. Always consult a licensed professional.

Pre-Installation Checklist

- Verify your electrical supply meets the unit's requirements (220V-240V).
- Ensure your electrical panel can accommodate two dedicated 50 Amp double-pole breakers.
- Confirm you have appropriate 6-gauge wiring available for the installation.
- Select a suitable vertical wall-mounted location with adequate space and ventilation.
- Confirm water connections are 3/4" NPT.
- Inspect the unit for any signs of shipping damage before installation.

Electrical Requirements

The Marey ECO180 requires a specific electrical setup:

- **Voltage:** 240V
- **Breakers:** 2 x 50 Amp Double-Pole
- **Cable Size:** 6 AWG
- **Total Power:** 18kW

PRIORITIZING ELECTRICAL INFRASTRUCTURE AND SPECIFICATION AWARENESS

We advise you to read the user manual thoroughly before installation to prevent improper installation.

PRODUCT REQUIREMENTS

75 | **2 X 50 AMP**
 AMP POWER | BREAKERS REQUIRED

IMPORTANT REMINDER REGARDING INSTALLATION REQUIREMENTS
 Before installation, please ensure that your breaker panel can accommodate the power supply and that you have adequate space for the unit.

MODEL	ECO 180	VOLTAGE	240V
kw	18kW	BREAKER	2 X 50 AMP
CABLE REQUIRED	6 AWG	DIMENSIONS	11" X 16.5" X 3.5"
WEIGHT	17.6lbs	WATER CONNECTIONS	3/4" NPT

Image: Table detailing electrical and physical product requirements for the ECO180.

Mounting the Unit

1. Choose a sturdy wall surface capable of supporting the unit's weight (approximately 17.6 lbs).
2. Mount the unit vertically using the provided mounting hardware. Ensure it is level.
3. Allow sufficient clearance around the unit for maintenance and air circulation.

Water Connections

1. Connect the cold water supply line to the blue inlet port (3/4" NPT).
2. Connect the hot water outlet line to the red outlet port (3/4" NPT).
3. Ensure all connections are tightened securely to prevent leaks.
4. Before connecting electrical power, open a hot water faucet to flush air from the system and ensure the unit is completely filled with water.



Image: Bottom view of the ECO180 unit, indicating cold water inlet (blue) and hot water outlet (red).

OPERATING INSTRUCTIONS

Initial Startup

1. After installation and ensuring the unit is filled with water, turn on the dedicated electrical breakers for the water heater.
2. The digital display will illuminate.

Setting Water Temperature

1. Use the up and down arrow buttons on the digital panel to adjust the desired water temperature.
2. The maximum temperature setting is 125°F (52°C).

Flow Activation

The Marey ECO180 is flow-activated. Hot water will begin to flow shortly after a hot water faucet is opened and water flow is detected by the unit.



Image: Close-up of the digital display and temperature control buttons on the unit's front panel.

MAINTENANCE

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

- **Regular Inspection:** Periodically check all water connections for any signs of leaks. Inspect the unit's exterior for any visible damage.
- **Descaling:** In areas with hard water, mineral buildup can affect performance. Periodic descaling may be necessary. It is recommended to consult a qualified professional for descaling procedures.
- **Cleaning:** Keep the exterior of the unit clean and free from dust and debris. Use a soft, damp cloth for cleaning.

TROUBLESHOOTING

If you experience issues with your Marey ECO180, consider the following basic troubleshooting steps:

- **No Hot Water:** Check if the dedicated electrical breakers are in the ON position. Ensure there is sufficient water flow to activate the unit.
- **Inconsistent Temperature:** Verify the temperature setting on the digital display. Ensure adequate water pressure and flow rate.
- **Leaks:** Immediately turn off the water supply and electrical power. Inspect all connections for tightness. If a leak persists, contact a professional.

For persistent issues or complex problems, it is recommended to contact a qualified technician or Marey customer support.

TECHNICAL SPECIFICATIONS

Specification	Detail
Brand	MAREY
Model	ECO180
Product Dimensions (W x H x D)	11" x 16.5" x 3.5"
Color	Silver
Wattage	18 KW

Specification	Detail
Voltage	240 Volts
Maximum Temperature	125 Degrees Fahrenheit
Heat Output	18 Kilowatts
Efficiency	Highly Efficient
Maximum Operating Pressure	87 Pound per Square Inch
Mounting Type	Wall
Is Electric	Yes
Manufacturer	Marey
UPC	764177000255
Part Number	ECO180
Item Weight	17.6 pounds
Finish	Stainless-Steel
Installation Method	Vertical
Item Package Quantity	1
Water Consumption	4.4 Gallons per Minute
Display Style	Digital Panel
Usage	Inside
Included Components	1 unit of ECO180, manual, warranty booklet and mounting hardware.

WARRANTY AND CUSTOMER SUPPORT

Warranty: The Marey ECO180 Electric Tankless Water Heater comes with a 5-year limited warranty from the manufacturer. Please refer to the warranty booklet included with your product for full terms and conditions regarding coverage and claims.

Customer Support: For technical assistance, parts, or warranty claims, please contact Marey customer support. Refer to the contact information provided in your product packaging or on the official Marey website.