

Rheem PROE2 1 RH MT

Rheem Mini-Tank Electric Water Heater

MODEL: PROE2 1 RH MT (2.5 GALLON)

Your guide to installation, operation, and maintenance.

1. INTRODUCTION

The Rheem 2.5 Gallon Mini-Tank Electric Water Heater is designed to provide hot water efficiently at the point of use. Its compact size allows for flexible installation in various locations, such as under sinks, in garages, or recreational vehicles. This manual provides essential information for the safe and effective installation, operation, and maintenance of your water heater.

Key Features:

- 2.5-gallon capacity for efficient point-of-use hot water.
- Easy installation with a 15-amp plug for 120-volt outlets.
- Adjustable temperature control ranging from 50°F to 140°F.
- Enameled glass-lined tank for extended product life.
- Versatile floor and wall mountable design, with wall bracket included.



Figure 1.1: Front view of the Rheem 2.5 Gallon Mini-Tank Electric Water Heater, showing the Rheem logo and temperature control dial.

2. SAFETY INFORMATION

Read and understand all safety instructions before installing, operating, or performing maintenance on this water heater. Failure to follow these instructions could result in property damage, personal injury, or death.

General Safety Precautions:

- This appliance is not intended for use by persons (including children) with reduced physical, sensory, or mental

capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

- Children should be supervised to ensure that they do not play with the appliance.
- Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.
- Ensure proper ventilation if installed in an enclosed space.

Electrical Safety:

- Ensure the electrical supply matches the requirements of the water heater (120 Volts, 15 Amps, 1.4 KW).
- Always disconnect power to the unit before performing any service or maintenance.
- Do not operate the water heater if the power cord is damaged.

Water Safety:

- Install a Temperature and Pressure (T&P) relief valve as specified in the installation instructions to prevent excessive pressure buildup.
- Do not block or tamper with the T&P relief valve.
- Ensure the water heater is filled with water before turning on the power to prevent damage to the heating element.

3. PACKAGE CONTENTS

Verify that all components are present before beginning installation:

- Rheem Mini-Tank Electric Water Heater (2.5 Gallon)
- Temperature and Pressure (T&P) Valve
- Wall Mounting Bracket
- Instruction Manual

4. INSTALLATION

Proper installation is crucial for the safe and efficient operation of your water heater. If you are unsure about any step, consult a qualified plumber or electrician.

Pre-Installation Checklist:



Figure 4.1: Checklist for tankless electric water heater purchase, ensuring electrical service, hot water output, temperature delivery, and clearance requirements are met.

Mounting Options:

The water heater can be mounted on the floor or a wall. A wall bracket is included for wall mounting. Ensure the mounting surface is capable of supporting the weight of the water heater when full (approximately 20.8 lbs dry

weight + 2.5 gallons * 8.34 lbs/gallon = ~41.65 lbs).



Figure 4.2: Back view of the water heater, illustrating the designated mounting points for secure installation.

Dimensions:

Consider the following dimensions for proper placement and clearance:

- **Height:** 17 inches
- **Width:** 11 inches
- **Depth:** 11 inches

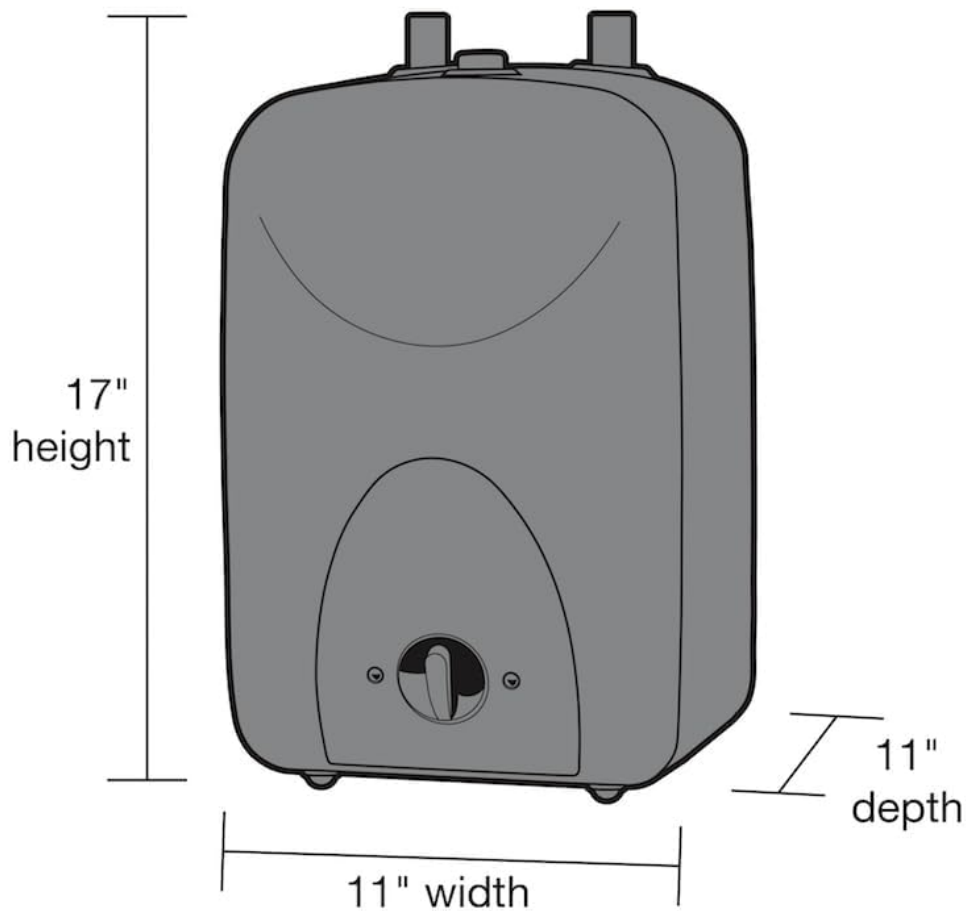


Figure 4.3: Dimensional diagram of the water heater, indicating its height, width, and depth for installation planning.

Plumbing Connections:

Connect the water heater to the cold water supply and hot water outlet using appropriate plumbing fittings. The unit includes clearly marked inlet and outlet ports.

- Connect the cold water supply line to the **Inlet** (blue marking).
- Connect the hot water outlet line to the **Outlet** (red marking).
- Install the provided T&P relief valve in the designated port.



Figure 4.4: Top view of the water heater, highlighting the inlet (cold water) and outlet (hot water) connections.

Electrical Connection:

This 2.5-gallon model is equipped with a 15-amp plug, designed to connect to a standard 120-volt electrical outlet. Ensure the circuit can handle the 1.4 KW wattage of the unit.

5. OPERATING INSTRUCTIONS

Once installed and filled with water, operating your Rheem Mini-Tank Electric Water Heater is straightforward.

Temperature Control:

- The front panel features an adjustable temperature control dial.
- Rotate the dial to select your desired water temperature, ranging from 50°F (10°C) to 140°F (60°C).
- A green indicator light will illuminate when the unit is powered on and actively heating water.



Figure 5.1: Side view of the water heater, showing the temperature control dial and power indicator light.

6. MAINTENANCE

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

Annual Checks:

- **T&P Valve Test:** Annually, lift and release the lever on the T&P relief valve to ensure it operates freely and discharges water. If it does not, replace the valve.
- **Drain Sediment:** Periodically drain a small amount of water from the tank to remove sediment buildup, which

can affect efficiency. Refer to the full installation manual for detailed draining procedures.

- **Inspect Connections:** Check all water and electrical connections for leaks or signs of wear. Tighten as necessary.



Figure 6.1: Internal view of the water heater, showing the heating element and wiring. Regular inspection of internal components should only be performed by qualified personnel.

7. TROUBLESHOOTING

If you encounter issues with your water heater, refer to the following common troubleshooting steps. For complex problems, contact qualified service personnel.

Common Issues:

- **No Hot Water:**
 - Check if the unit is plugged in and the power indicator light is on.
 - Verify the circuit breaker has not tripped.

- Ensure the temperature dial is set to a desired temperature.

- **Water Not Hot Enough:**

- Increase the temperature setting on the dial.
- Allow sufficient time for the water to heat up (recovery time depends on incoming water temperature).
- Check for excessive hot water demand exceeding the unit's capacity.

- **Leaking Water:**

- Inspect plumbing connections for tightness.
- Check the T&P relief valve for drips; this may indicate high pressure or a faulty valve.
- If the leak is from the tank itself, discontinue use and contact support.

8. SPECIFICATIONS

Feature	Specification
Brand	Rheem
Model Number	PROE2 1 RH MT
Capacity	2.5 Gallon
Color	Gray
Wattage	1.4 KW
Voltage	120 Volts
Maximum Temperature	140 Degrees Fahrenheit (60°C)
Efficiency	High
Maximum Operating Pressure	150 PSI
Mounting Type	Floor, Wall
Item Weight	17.6 pounds
Product Dimensions (L x W x H)	11 x 11 x 17 inches
Included Components	T&P Valve; Wall Bracket
UPC	020352757056

9. WARRANTY AND SUPPORT

Rheem products are manufactured to high-quality standards and come with a limited warranty. For specific warranty details, please refer to the warranty card included with your product or visit the official Rheem website.

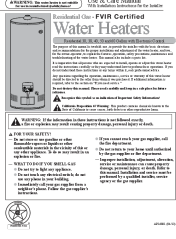


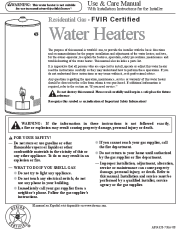
For technical assistance, troubleshooting beyond this manual, or to inquire about replacement parts, please contact Rheem customer support:


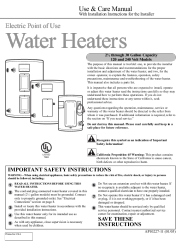
- **Rheem Official Website:** www.rheem.com

- Refer to your product packaging or the Rheem website for the most current contact information.

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Related Documents - PROE2 1 RH MT

	<p>Rheem Residential Gas Water Heater Use, Care, and Installation Manual</p> <p>This comprehensive manual provides essential installation, operation, safety, maintenance, and troubleshooting guidance for Rheem residential gas water heaters, available in 30, 38, 40, 50, and 60-gallon capacities with electronic control.</p>
	<p>Rheem Mini-Tank Electric Water Heaters: PROE Series Specs & Installation Guide</p> <p>Explore the Rheem PROE Series Mini-Tank Electric Water Heaters (1.5, 2.5, 4, 6 Gallon). Find performance features, product specifications, dimensions, warranty, and sample installation diagrams for efficient residential hot water solutions.</p>
	<p>Rheem Light-Duty Commercial Electric Water Heaters 66-119.9 Gallon Models</p> <p>Explore Rheem's Light-Duty Commercial Electric Water Heaters, featuring flexible design for light duty applications. Available in 66-119.9 gallon capacities with 208/240/480 voltage and 12.1 kW. Discover features, specifications, and benefits.</p>
	<p>Rheem Residential Gas Water Heater Use & Care Manual with Installation Instructions</p> <p>Comprehensive manual for Rheem residential gas water heaters, covering installation, operation, safety precautions, maintenance, and troubleshooting. Includes parts list and safety guidelines.</p>

	<p>Rheem Electric Point of Use Water Heater Use & Care Manual with Installation Instructions</p> <p>Comprehensive guide for Rheem Electric Point of Use Water Heaters (GE Series, 2.5-20 Gallon), covering installation, operation, safety, maintenance, troubleshooting, and parts. Includes essential safety warnings and California Proposition 65 information.</p>
	<p>Rheem Electric Point-of-Use Water Heater Use & Care and Installation Manual</p> <p>Comprehensive guide for Rheem Electric Point-of-Use Water Heaters (2.5-30 Gallons, 120/240V). Includes installation, operation, safety, maintenance, troubleshooting, and parts information.</p>