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> [Rheem Richmond 6EP2-1 Electric Water Heater User Manual](#)

Rheem 6EP2-1

Rheem Richmond 6EP2-1 Electric Water Heater User Manual

Model: 6EP2-1

1. INTRODUCTION

This manual provides essential instructions for the safe installation, operation, and maintenance of your Rheem Richmond 6EP2-1 Electric Water Heater. This compact 2.5-gallon unit is designed for indoor installation in tight spaces, providing hot water efficiently. Please read this manual thoroughly before installation and use, and retain it for future reference.

2. SAFETY INFORMATION

WARNING: Improper installation, adjustment, alteration, service, or maintenance can cause property damage, injury, or death. Refer to this manual. For assistance or additional information, consult a qualified installer, service agency, or the manufacturer.

- Always disconnect power to the unit before performing any service or maintenance.
- Installation must comply with all local codes and regulations, including plumbing and electrical codes.
- Do not operate the water heater if it has been exposed to freezing temperatures.
- Ensure the unit is properly grounded to prevent electrical shock.
- A temperature and pressure relief (T&P) valve must be installed and properly piped to an open drain.
- Do not block or restrict the T&P valve discharge pipe.

3. PACKAGE CONTENTS

Verify that all components are present before beginning installation:

- Rheem Richmond 6EP2-1 Electric Water Heater Unit
- Wall Mounting Bracket
- Instruction Manual (this document)

4. INSTALLATION AND SETUP

Professional installation is recommended for this appliance. Ensure all local plumbing and electrical codes are followed.

4.1 Location and Mounting

Select a location that is protected from freezing temperatures and is as close as possible to the hot water faucet to minimize heat loss. The unit's space-saving design allows for installation in tight spaces.

1. Identify a suitable wall location capable of supporting the weight of the water heater when full (approximately 2.5 gallons of water plus unit weight).
2. Securely attach the provided wall mounting bracket to the wall using appropriate fasteners for the wall material.
3. Carefully lift and hang the water heater onto the wall mounting bracket.



Image 1: The Rheem Richmond 6EP2-1 Electric Water Heater, showing its compact design suitable for wall mounting.

4.2 Plumbing Connections

Connect the water heater to your plumbing system.

1. Install a temperature and pressure relief (T&P) valve into the designated opening on the water heater. The T&P valve port uses a 3/4" NPT thread.
2. Run a discharge pipe from the T&P valve to an open drain, ensuring it is sloped for proper drainage and free of obstructions.
3. Connect the cold water supply line to the inlet port and the hot water outlet line to the outlet port. Both water ports use 1/2" NPT threads.
4. Open the cold water supply valve and allow the tank to fill completely. Open a hot water faucet in your home to purge air from the system until water flows steadily.
5. Inspect all connections for leaks.

4.3 Electrical Connection

The water heater operates on 120 Volts AC and draws approximately 12 Amps (2000 Watts).

1. Ensure the power supply circuit is rated for at least 15 Amps and is properly grounded.
2. Plug the water heater's 3-prong power cord into a dedicated 120V grounded electrical outlet.
3. **Do not apply power until the tank is completely filled with water.**

4.4 Temperature Setting

The thermostat on this model requires a screwdriver for adjustment.

1. **Ensure power is disconnected before attempting to adjust the thermostat.**
2. Locate and remove the metal cover on the unit to access the thermostat.
3. Adjust the thermostat to your desired temperature. A setting around 107°F (42°C) is often suitable for point-of-use applications.
4. Replace the metal cover securely before restoring power.

5. OPERATION

Once installed and filled with water, the water heater will begin heating automatically when power is supplied.

- After initial power-up, allow sufficient time for the water to reach the set temperature.
- The unit will maintain the water temperature automatically.
- Hot water will be available at the connected faucet.

6. MAINTENANCE

Regular maintenance ensures optimal performance and extends the life of your water heater.

6.1 Draining the Tank

This model features a drain valve, which is useful for draining the tank, especially in cold climates to prevent freezing if the unit is to be shut down for an extended period.

1. **Disconnect power to the water heater.**
2. Close the cold water supply valve to the unit.

3. Open a hot water faucet in your home to relieve pressure and allow air into the system.
4. Connect a hose to the drain valve located at the bottom of the water heater and direct it to a suitable drain.
5. Open the drain valve and allow the tank to empty completely.
6. Once drained, close the drain valve and the hot water faucet.

6.2 Flushing the Tank

While larger water heaters benefit from regular flushing to remove sediment, smaller point-of-use tanks typically experience less sediment buildup due to constant water circulation. However, if you notice reduced hot water output or unusual noises, flushing may be beneficial. Follow the draining procedure (Section 6.1) and then briefly open the cold water supply valve with the drain valve open to flush out any potential sediment before refilling.

6.3 T&P Valve Inspection

Periodically inspect the temperature and pressure relief (T&P) valve and its discharge pipe for any signs of leakage or corrosion. Test the T&P valve annually by lifting the lever briefly to ensure it operates freely and water flows from the discharge pipe.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
No hot water or insufficient hot water	No power to the unit Thermostat set too low Heating element failure Tank not completely filled	Check circuit breaker/fuse and power connection. Adjust thermostat (refer to Section 4.4). Contact qualified service personnel. Ensure tank is full before applying power (refer to Section 4.2).
Water leaking from unit	Loose plumbing connections T&P valve discharge Tank leak	Tighten connections. Check T&P valve for proper operation; ensure discharge pipe is clear. Immediately disconnect power and water supply. Contact qualified service personnel.
Unusual noises (e.g., popping, rumbling)	Sediment buildup in tank	Flush the tank (refer to Section 6.2).

8. SPECIFICATIONS

Feature	Detail
Model Number	6EP2-1
Brand	Rheem / Richmond
Capacity	2.5 Gallons

Feature	Detail
Wattage	2000 Watts
Voltage	120 Volts AC
Amperage	Approximately 12 Amps
Product Dimensions (L x W x H)	14 x 12 x 19.5 inches
Item Weight (empty)	8.8 ounces (Note: This seems unusually low for a water heater. This might be package weight or an error in source data. User should verify actual unit weight.)
Mounting Type	Internal / Wall Mount
Special Feature	Space Saving Design
UPC	020352498409

9. WARRANTY AND SUPPORT

The Rheem Richmond 6EP2-1 Electric Water Heater comes with a **6-year limited warranty** on the tank and parts. For warranty claims, technical support, or service inquiries, please contact the manufacturer directly. Retain your proof of purchase for warranty validation.

Manufacturer: Rheem / Richmond

Website: www.rheem.com (or refer to product packaging for specific contact information)

