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Richmond 6EP20-1

Richmond 6EP20-1 Electric Water Heater User Manual

Model: 6EP20-1

1. Introduction

This manual provides essential information for the safe installation, operation, and maintenance of your Richmond 6EP20-1 Electric Water Heater. Please read all instructions carefully before beginning installation or use. Retain this manual 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.

- **Electrical Hazard:** Ensure the power supply is disconnected before performing any service or maintenance. Installation must comply with all local electrical codes.
- Scalding Hazard: Water temperatures over 125°F (52°C) can cause severe burns instantly or death from scalds. Exercise caution when using hot water.
- Water Pressure: Install a temperature and pressure (T&P) relief valve as required by local codes. Do not block or plug the T&P valve.
- **Professional Installation:** It is highly recommended that this water heater be installed by a qualified plumber and electrician.

3. PRODUCT OVERVIEW

The Richmond 6EP20-1 is a 20-gallon electric water heater designed for efficient hot water delivery. Its compact, space-saving design makes it suitable for various installation locations.



This image displays the Richmond 6EP20-1 Electric Water Heater. It is a compact, white cylindrical unit designed for point-of-use applications. Visible features include the Richmond brand logo, a '6 Year Point-Of-Use' warranty label, and the water inlet and outlet ports on the side of the tank. An access panel for electrical components is also visible.

4. SPECIFICATIONS

Feature	Specification
Brand	Richmond

Feature	Specification
Model Number	6EP20-1
Tank Capacity	20 Gallons
Wattage	2000 Watts
Voltage	120 Volts
Dimensions (L x W x H)	23.3" x 21.3" x 28"
Item Weight	69 pounds
Mounting Type	Wall
Special Feature	Space Saving Design
Country of Origin	United States

5. Installation (SETUP)

Installation of this electric water heater requires knowledge of plumbing and electrical systems. It is strongly recommended that installation be performed by a qualified professional.

5.1. Location Selection

- Choose a location as close as possible to the area of highest hot water demand to minimize heat loss.
- Ensure the location provides adequate space for maintenance and service.
- The floor or mounting surface must be capable of supporting the weight of the water heater when full.
- Install in an area where leakage will not result in damage to the adjacent area or to the lower floors of the structure. A drain pan is recommended.

5.2. Plumbing Connections

- Connect the cold water inlet to the dip tube connection (typically marked blue or 'C').
- Connect the hot water outlet to the hot water supply line (typically marked red or 'H').
- Install a temperature and pressure (T&P) relief valve in the designated opening. Route the discharge pipe from the T&P valve to an open drain.
- Flush the tank thoroughly before connecting the power supply to remove any sediment and ensure the tank is full of water.

5.3. Electrical Connections

- Ensure the power supply matches the water heater's requirements (120 Vac, 2000 W).
- Connect the water heater to a dedicated circuit with appropriate overcurrent protection as per local electrical codes.
- All wiring must be properly grounded.
- Access the electrical junction box (behind the removable panel) to make connections.

6. OPERATION

Once installed and filled with water, your Richmond 6EP20-1 Electric Water Heater is ready for operation.

6.1. Initial Startup

- Ensure the tank is completely filled with water before turning on the power. Open a hot water faucet in your home until water flows steadily, indicating the tank is full and air has been purged.
- Restore electrical power to the water heater at the circuit breaker.
- Allow approximately 30-60 minutes for the water to heat to the factory preset temperature.

6.2. Temperature Adjustment

The water heater's thermostat is typically located behind the access panel. To adjust the temperature:

- **WARNING:** Disconnect power to the water heater at the circuit breaker before removing the access panel.
- · Carefully remove the access panel.
- Adjust the thermostat dial to your desired temperature. A setting of 120°F (49°C) is generally recommended for safety and energy efficiency.
- · Replace the access panel and restore power.

7. MAINTENANCE

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

7.1. Drain and Flush Tank (Annually)

- Turn off the power supply to the water heater.
- Close the cold water inlet valve.
- Open a hot water faucet in your home to relieve pressure.
- Connect a hose to the drain valve at the bottom of the tank and route it to a suitable drain.
- Open the drain valve and allow the tank to empty. Flush until water runs clear.
- Close the drain valve, remove the hose, and refill the tank before restoring power.

7.2. Test T&P Relief Valve (Annually)

- Lift the lever on the T&P relief valve to allow water to discharge for a few seconds.
- Release the lever. Water should stop flowing. If it continues to flow, the valve may be faulty and needs replacement.
- WARNING: Stand clear of the discharge outlet to avoid contact with hot water.

7.3. Anode Rod Inspection (Every 3-5 Years)

The anode rod protects the tank from corrosion. It should be inspected periodically and replaced if significantly depleted. This procedure is best performed by a qualified service technician.

8. TROUBLESHOOTING

This section provides solutions to common issues you might encounter.

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
No hot water	No power to heater; tripped circuit breaker; faulty thermostat or heating element.	Check circuit breaker; ensure power is on. If problem persists, contact a qualified electrician.
Not enough hot water	Thermostat set too low; excessive hot water usage; faulty heating element.	Adjust thermostat to a higher setting (see Section 6.2); reduce hot water demand; contact a qualified technician for element inspection.
Water leaking from tank	Loose plumbing connections; faulty T&P valve; tank corrosion.	Tighten connections; inspect T&P valve (see Section 7.2); if tank corrosion, replacement may be necessary. Contact a professional.
Water has unusual odor	Bacterial growth in tank (often due to anode rod reaction).	Drain and flush tank thoroughly (see Section 7.1). Consider replacing the anode rod with a different type (e.g., zinc).

9. WARRANTY AND SUPPORT

The Richmond 6EP20-1 Electric Water Heater comes with a**6-year limited warranty on the tank and parts**. Please refer to the warranty document included with your purchase for full terms and conditions. For technical support, service, or warranty claims, please contact Richmond customer service. Have your model number (6EP20-1) and date of purchase available when contacting support.

Related Documents - 6EP20-1



Richmond Encore Gas Water Heater - High Efficiency & Performance

Discover the Richmond Encore Powered Damper gas water heaters, offering high efficiency (up to 0.69 UEF), robust performance with high first hour ratings, and advanced features like a self-diagnostic system and flammable vapor detection. Available in 38, 40, and 50-gallon capacities, these natural and LP gas water heaters are built for durability and come with a 12-year limited warranty.



Richmond Encore RMTGH Series High-Efficiency Condensing Tankless Gas Water Heaters | Specifications

Detailed specifications and features for the Richmond Encore RMTGH Series of high-efficiency condensing tankless gas water heaters. Covers models RMTGH-95 and RMTGH-84, including efficiency, performance, installation, technology, safety, warranty, and dimensional data. Features EcoNet® connectivity and ENERGY STAR® compliance.



Richmond Range Hood User Manual

Comprehensive user manual for the Richmond range hood, covering installation, operation, maintenance, and safety guidelines.



Richmond Essential Plus RMTG-Series High Efficiency Tankless Gas Water Heaters

Discover the Richmond Essential Plus RMTG-Series, high-efficiency non-condensing tankless gas water heaters. Explore features, specifications, installation guidelines, and accessories for both indoor and outdoor models.



Richmond 72" White TV Console with Firebox and LED Lights

Explore the Richmond 72" White TV Console, designed for easy assembly with its Unfold Assembly™ system. Features include a pre-installed firebox, customizable color-changing LED lights, ample storage with glass doors, and integrated wire management. This versatile console enhances any living space, game room, or bedroom.



Richmond Encore L-Series High-Efficiency Condensing Combi Boilers | RMCBH-L125i, L160i, L199i

Explore the Richmond Encore L-Series Super High-Efficiency Condensing Combi Boilers (RMCBH-L125i, RMCBH-L160i, RMCBH-L199i). Features include Labyrinth Heat Exchanger, ECM pump, touchscreen control, and outdoor reset technology. Specifications, installation, and dimensions provided.

Documents - Richmond - 6EP20-1



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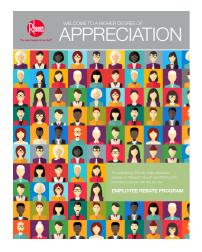


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Essential images na ssl amazon Available with 120 or 240 volt AC single phase only 120v 1440w 240v 1500w Power cord supplied models 6 through 30 gallon 3/4 N P T outlet inlet anode rod valve connections Not available 3 wiring Water heaters furnished standard 2000 watt element A1uw K5xd9L I 649 Rev2 POU Electric 0413 cdn globalimageserver 80 fetchDocument aspx id 42989d9d 7c5c 43ce 9b42 efe720e83ec7

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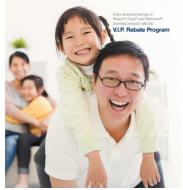
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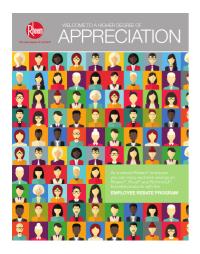




Rheem V.I.P. Rebate Program: Savings on Heating, Cooling & Water Heating for Partners

Explore the Rheem V.I.P. (Vendor Industry Partner) Rebate Program, offering exclusive savings on Rheem, Ruud, and Richmond heating, cooling, and water heating products. Learn how eligible vendor partners can get started, submit rebate claims, and view qualifying product lists.

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