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› [Rheem PROG50-42N RH67 PV Professional Classic 50-Gallon Natural Gas Power Vent Water Heater Instruction Manual](#)

Rheem PROG50-42N RH67 PV

Rheem PROG50-42N RH67 PV Professional Classic 50-Gallon Natural Gas Power Vent Water Heater Instruction Manual

Model: PROG50-42N RH67 PV

1. INTRODUCTION

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your Rheem PROG50-42N RH67 PV Professional Classic Residential 50-Gallon Natural Gas Power Vent Water Heater. Please read this manual thoroughly before installation or operation and retain it for future reference.



Figure 1: Rheem PROG50-42N RH67 PV 50-Gallon Natural Gas Power Vent Water Heater. This image shows the full water heater unit, a tall gray cylindrical tank with the Rheem logo and "Professional Classic" branding near the top. A power vent assembly is visible on top, and the control panel is located near the bottom front.

2. SAFETY INFORMATION

WARNING: Improper installation, adjustment, alteration, service, or maintenance can cause property damage, injury, or death. Read the installation, operating, and maintenance instructions thoroughly before installing or servicing this equipment.

- Ensure all local codes and regulations are followed during installation.
- This water heater uses natural gas. Proper ventilation and gas line connections are critical to prevent gas

leaks and carbon monoxide poisoning.

- Do not store flammable materials near the water heater.
- Always shut off gas and water supply before performing any service or maintenance.
- Professional installation is highly recommended for gas water heaters.

3. SETUP AND INSTALLATION

The Rheem PROG50-42N RH67 PV is designed for indoor installation and requires a power vent system. Due to the complexity of gas and venting connections, professional installation is strongly advised.

3.1 Site Selection

- Install in a location that allows for proper venting and drainage.
- Ensure adequate clearance around the unit for maintenance and operation.
- The unit dimensions are approximately 21 x 21 x 65 inches, and it weighs about 159.7 pounds.

3.2 Gas and Water Connections

- Connect to a natural gas supply.
- Ensure all water connections are secure and leak-free.
- The power vent system requires electrical connection (240 Volts, 42 KW).

3.3 Venting

This model features a power vent system that uses indoor air for combustion and exhausts flue gases. It supports long venting lengths up to 100 equivalent feet. Consult the detailed installation guide for specific venting requirements and configurations.

4. OPERATING INSTRUCTIONS

Your Rheem water heater is equipped with an electronic gas control for improved monitoring and service. The control panel allows for temperature adjustment and system diagnostics.

4.1 Initial Startup

1. Ensure the water tank is completely filled with water before turning on the gas supply.
2. Open the gas supply valve to the water heater.
3. Follow the instructions on the electronic control panel to ignite the pilot and set the desired temperature.

4.2 Temperature Adjustment

The electronic control panel typically features up and down arrows or a dial to adjust the set point temperature. The maximum recommended temperature is 120 degrees Fahrenheit to prevent scalding.

4.3 Self-Diagnostic System

The electronic gas control includes a self-diagnostic system that can help identify operational issues. Refer to the full user manual for a list of diagnostic codes and their meanings.

5. MAINTENANCE

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

- **Anode Rod:** The Rheem exclusive R-Tech anode rod provides long-lasting tank protection. Inspect and replace the anode rod periodically as recommended in the full manual.
- **Flushing the Tank:** Annually flush the water heater tank to remove sediment buildup. This helps maintain efficiency and prevent corrosion.
- **Pressure Relief Valve:** Test the temperature and pressure relief valve at least once a year to ensure it is operating correctly.
- **Air/Fuel Shut-off Device:** This unit features a maintenance-free air/fuel shut-off device, requiring no filter cleaning.

6. TROUBLESHOOTING

Before calling for service, review these common issues and solutions:

Problem	Possible Cause	Solution
No hot water or insufficient hot water	Pilot light out, gas supply off, thermostat setting too low, sediment buildup.	Relight pilot, check gas valve, adjust thermostat, flush tank.
Water too hot	Thermostat setting too high.	Lower thermostat setting.
Unusual noises (rumbling, popping)	Sediment buildup in tank.	Flush the tank thoroughly.
Water leakage	Loose connections, faulty pressure relief valve, tank corrosion.	Tighten connections, replace valve, contact professional for tank issues.

For persistent issues or complex repairs, contact a qualified service technician.

7. SPECIFICATIONS

- **Brand:** Rheem
- **Model:** PROG50-42N RH67 PV
- **Type:** Natural Gas Power Vent Water Heater
- **Capacity:** 50-Gallon
- **Efficiency:** 0.67 EF
- **Recovery Rate:** 32.4 to 42.4 GPH at 90°F rise (for 50-gallon models)
- **BTU Input:** 42,000 BTU
- **Voltage:** 240 Volts
- **Dimensions:** 21 x 21 x 65 inches
- **Item Weight:** 159.7 pounds
- **Anode Rod:** Rheem R-Tech (registered)
- **Emissions:** Low NOx design

8. WARRANTY AND SUPPORT

This Rheem water heater typically comes with a 6-year warranty on the tank and parts. Please refer to your warranty documentation for specific terms and conditions.

DO NOT RETURN THIS WATER HEATER TO THE PLACE OF PURCHASE.

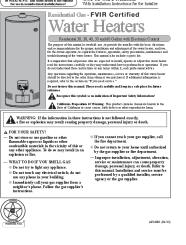
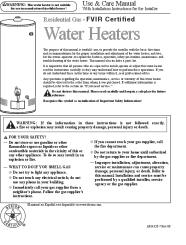
For technical assistance, warranty claims, or to locate an authorized service provider, please contact Rheem customer support:

Customer Support: 1-866-279-4566

Have your model number (PROG50-42N RH67 PV) and serial number ready when contacting support.

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Related Documents - PROG50-42N RH67 PV

	<p>Rheem Professional Classic Power Vent Gas Water Heaters: Specifications and Features</p> <p>Discover the Rheem Professional Classic Power Vent gas water heaters, featuring extended venting up to 150 ft., high energy efficiency (UEF .65-.70), the Guardian System™, and low emissions. Details on performance, capacities, and installation.</p>
	<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 PERFORMANCE ENERGY STAR Power Vent Gas Water Heaters: Specs & Features</p> <p>Explore the Rheem PERFORMANCE ENERGY STAR Power Vent gas water heaters. Discover features like long vent runs up to 150 ft, high efficiency (0.65-0.70 UEF), self-diagnostic systems, and durable designs. Available in 40 and 50-gallon capacities.</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 PERFORMANCE PLUS Ultra Low NOx Gas Water Heater Specifications</p> <p>Discover the Rheem PERFORMANCE PLUS Ultra Low NOx gas water heaters, offering high efficiency, a 9-year warranty, and compliance with SCAQMD rule 1121 for reduced emissions. Includes detailed specifications for 40 and 50-gallon models.</p>
	<p>Rheem Residential Gas Direct Vent Water Heaters: Use & Care and Installation Manual</p> <p>Comprehensive guide for Rheem Residential Gas Direct Vent Water Heaters (40 and 50 Gallon models), covering installation, operation, safety precautions, maintenance, troubleshooting, and parts.</p>