

Manual For Rheem Gas Furnace

FCHM NO. G11-449 Rev. 5
Supersedes Form No. G11-449 Rev. 5

GAS FURNACES



CRITERION® II 80.0-82.2% A.F.U.E.† DOWNFLOW GAS FURNACES

The Rheem® Criterion® II line of downflow gas furnaces is designed for installation in closets, alcoves, utility rooms, or attics. The design is certified by CSA.

Features

- Patented heat exchanger, constructed of both stainless and aluminized steel for the maximum in corrosion resistance.
- Low profile "34 inch" [864 mm] design is lighter and easier to handle, and leaves room for optional equipment.
- Left or right side gas and electric inlet connections with quick, simple change.
- Direct Spark ignition models and integrated board with humidifier and electronic air cleaner hookups.
- Insulated blower compartment helps to reduce jacket loss and noise.
- Pre-paint galvanized steel cabinet.
- Molded permanent filter.
- Grab-holes in doors to aid in easy door removal and replacement.

A variety of cooling coils and plenums designed to use with Rheem Criterion II gas furnaces are available as optional accessories.

† A.F.U.E. (Annual Fuel Utilization Efficiency) calculated in accordance with Department of Energy test procedures.

RGLH- SERIES
Models with Input Rates from
50,000 to 150,000 BTU/HR
[15 to 44 kW]



Manual for Rheem Gas Furnace is an essential guide for homeowners and HVAC technicians alike, as it provides crucial information on the operation, maintenance, troubleshooting, and safety features of Rheem gas furnaces. Rheem has built a reputation for manufacturing reliable and efficient heating solutions, and understanding how to use and maintain these systems can extend their lifespan and ensure optimal performance. In this article, we will explore the key components of the Rheem gas furnace manual, along with tips for installation, maintenance, troubleshooting, and safety precautions.

Understanding Your Rheem Gas Furnace

Before diving into the details of the manual, it's important to understand the basic components of a Rheem gas furnace. Familiarity with these parts will aid in effective troubleshooting and maintenance.

Key Components of Rheem Gas Furnaces

1. **Burner:** This is where gas is ignited to produce heat.
2. **Heat Exchanger:** Transfers heat from the burning gas to the air that circulates through your home.
3. **Blower Motor:** Moves the heated air through the ductwork.
4. **Thermostat:** Controls the temperature in your home by regulating the furnace operation.
5. **Flue Pipe:** Expels combustion gases outside your home.
6. **Gas Valve:** Regulates the flow of gas to the burner.
7. **Ignition System:** Starts the combustion process, which can be electronic or pilot flame.

Installation Guidelines

Proper installation is crucial for the efficient operation of your Rheem gas furnace. Here are some steps and considerations outlined in the manual.

Preparation for Installation

- **Location:** Choose a location that allows for proper ventilation and maintenance access. The area should be dry and free from debris.
- **Clearances:** Ensure there is sufficient clearance around the furnace for air circulation and maintenance.

Installation Steps

1. **Read the Manual Thoroughly:** Familiarize yourself with the specific requirements for your model.
2. **Prepare the Area:** Clear the installation space and ensure proper electrical supply and gas line access.
3. **Mount the Furnace:** Securely install the furnace to the designated location, following the manual's guidelines for anchoring.
4. **Connect the Gas Line:** Use appropriate fittings and ensure there are no leaks.
5. **Set Up Venting:** Install the flue pipe according to local building codes and manufacturers' specifications.
6. **Wiring:** Connect the electrical components as per the manual instructions.
7. **Thermostat Wiring:** Follow the specific guidelines for connecting the thermostat to the furnace.

Operating Your Rheem Gas Furnace

Once your Rheem gas furnace is installed, understanding how to operate it correctly is vital for performance and safety.

Setting the Thermostat

- Adjust Temperature Settings: Set the thermostat to your desired temperature. Most Rheem models allow for manual or programmable settings.
- Operating Modes: Familiarize yourself with the different modes (heating, cooling, fan, etc.) and how to switch between them.

Starting the Furnace

1. Turn on the thermostat to call for heat.
2. Ensure the gas supply is turned on.
3. If your model uses a pilot light, follow the manual instructions to light it.
4. For electronic ignition systems, verify that the system is functioning and that the furnace ignites properly.

Maintenance and Care

Regular maintenance is crucial for the longevity and efficiency of your Rheem gas furnace. The manual provides guidelines on how to care for your system effectively.

Routine Maintenance Tasks

- Filter Replacement: Change the air filter every 1-3 months, depending on usage and filter type.
- Clean the Blower: Dust and debris can accumulate, affecting performance. Clean the blower assembly at least once a year.
- Inspect the Heat Exchanger: Check for cracks or corrosion, which can lead to safety hazards.
- Check the Venting System: Ensure that the flue pipe is clear of obstructions and properly sealed.

Annual Professional Inspections

It is advisable to have your furnace inspected by a qualified HVAC technician annually to ensure that all components are functioning correctly and safely. This includes:

- Testing gas connections for leaks.
- Inspecting electrical components.

- Cleaning internal components.
- Checking safety features.

Troubleshooting Common Issues

Even with proper maintenance, you may encounter issues with your Rheem gas furnace. The manual outlines common problems and their solutions.

Common Problems and Solutions

1. Furnace Won't Start:

- Check the thermostat settings.
- Ensure the gas supply is on.
- Inspect the circuit breaker.

2. Insufficient Heat:

- Replace or clean the air filter.
- Check for closed vents or blocked ducts.

3. Strange Noises:

- Rattling may indicate loose components.
- Squealing could suggest a worn blower motor.

4. Frequent Cycling:

- This could indicate an oversized unit or thermostat issues.

5. Yellow Flame:

- A yellow flame indicates incomplete combustion. This requires immediate professional attention.

Safety Precautions

Safety is paramount when operating a gas furnace. Follow these guidelines from the manual to ensure a safe environment.

General Safety Tips

- Carbon Monoxide Detectors: Install detectors in your home to alert you of dangerous gas leaks.
- Regular Inspection: Schedule regular inspections to check for gas leaks and ensure proper combustion.
- Ventilation: Ensure proper ventilation to prevent gas buildup.
- Emergency Procedures: Familiarize yourself with emergency shut-off procedures in case of gas leaks or furnace malfunctions.

Emergency Shut-Off Procedures

1. Locate the gas shut-off valve and turn it off.
2. Turn off the thermostat.
3. Evacuate the area and call emergency services if a gas leak is suspected.

Conclusion

A **manual for Rheem gas furnace** serves as a comprehensive guide to ensure the effective operation, maintenance, and troubleshooting of your heating system. By following the guidelines provided in the manual, homeowners can optimize their heating systems, extend the lifespan of their furnaces, and maintain a safe living environment. Regular maintenance, timely troubleshooting, and adherence to safety precautions are essential to getting the most out of your Rheem gas furnace. Always consult the manual for specific instructions related to your model and consider professional assistance for complex issues.

Frequently Asked Questions

Where can I find the manual for my Rheem gas furnace?

You can find the manual for your Rheem gas furnace on the official Rheem website in the support section, or you can search for the model number of your furnace followed by 'manual' in a search engine.

What should I do if I lost my Rheem gas furnace manual?

If you lost your Rheem gas furnace manual, you can download a PDF version from the Rheem website or contact their customer service for assistance in obtaining a replacement.

How often should I service my Rheem gas furnace according to the manual?

The manual typically recommends servicing your Rheem gas furnace at least once a year to ensure optimal performance and safety.

What are common troubleshooting steps outlined in the Rheem gas furnace manual?

Common troubleshooting steps include checking the thermostat settings, ensuring the gas supply is on, inspecting the air filter for clogs, and resetting the furnace after a fault.

What safety precautions are mentioned in the Rheem gas

furnace manual?

The manual emphasizes safety precautions such as ensuring proper ventilation, installing carbon monoxide detectors, and never blocking air intakes or exhaust vents.

How can I reset my Rheem gas furnace according to the manual?

To reset your Rheem gas furnace, turn off the power to the unit for about 30 seconds, then turn it back on. Refer to the manual for specific reset instructions for your model.

Are there any warranty details included in the Rheem gas furnace manual?

Yes, the Rheem gas furnace manual includes warranty details that outline the coverage period and conditions. It's important to register your product to activate the warranty.

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