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Goodman GR9S960804CN

Goodman GR9S960804CN Gas Furnace User Manual

Model: GR9S960804CN | 80,000 BTU | 96% AFUE

1. Introduction

This manual provides essential information for the safe and efficient operation, maintenance, and troubleshooting of your Goodman GR9S960804CN Gas Furnace. This unit is a single-stage, multi-speed ECM gas furnace designed for residential heating applications, offering 80,000 BTU/h input and 96% AFUE efficiency.

Important: Installation, service, and repairs must be performed by a qualified HVAC professional. Improper installation, adjustment, alteration, service, or maintenance can cause property damage, personal injury, or loss of life.



Figure 1: Goodman GR9S960804CN Gas Furnace Unit. This image shows the exterior of the furnace, highlighting its compact design and the Goodman branding.

2. Safety Information

Read and understand all safety precautions before operating or servicing this furnace. Failure to follow these warnings

could result in property damage, personal injury, or death.

2.1 General Safety

- Only qualified personnel should install, service, or repair this appliance.
- Keep the area around the furnace clear of combustible materials, gasoline, and other flammable liquids and vapors.
- Do not store anything on or near the furnace.
- Ensure adequate combustion and ventilation air supply to the furnace.

2.2 Carbon Monoxide (CO) Warning

Carbon monoxide is a colorless, odorless, and poisonous gas. Improper installation, maintenance, or operation of this furnace can produce carbon monoxide. Install and maintain CO detectors in your home according to manufacturer instructions.

2.3 Gas Leak Warning

If you smell gas:

1. Do not try to light any appliance.
2. Do not touch any electrical switch; do not use any phone in your building.
3. Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
4. If you cannot reach your gas supplier, call the fire department.

2.4 Electrical Shock Hazard

Disconnect all electrical power to the furnace before performing any service or maintenance. Failure to do so can result in electrical shock, injury, or death.

2.5 Proposition 65 Warning

WARNING: This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

3. Setup and Installation

This furnace must be installed by a qualified HVAC professional in accordance with all local codes and the National Fuel Gas Code (ANSI Z223.1/NFPA 54) and the National Electrical Code (NFPA 70).

3.1 Pre-Installation Checks

- Verify that the furnace model matches the application requirements (BTU, AFUE, voltage).
- Inspect the furnace for any shipping damage. Report any damage to the carrier immediately.

3.2 Location Requirements

The furnace must be installed in a location that allows for proper clearances, adequate combustion air, and access for service and maintenance. Avoid locations where the furnace or its components may be exposed to water, corrosive agents, or excessive dust.

3.3 Venting

Proper venting is critical for safe operation. The vent system must be installed according to the furnace manufacturer's instructions and local codes to ensure proper exhaust of combustion byproducts.

3.4 Gas and Electrical Connections

Gas piping and electrical wiring must be installed by qualified professionals according to all applicable codes. Ensure the gas supply pressure and electrical supply (208 volts) meet the furnace's requirements.

3.5 Ductwork Connection

Connect the supply and return air ductwork to the furnace plenums. Ensure all connections are sealed to prevent air leakage and optimize system efficiency.

3.6 R-32 Readiness

This furnace contains no refrigerant. It is designed to integrate with compatible R-32 cooling or heat-pump equipment when properly matched. Consult with your HVAC professional for proper system matching and refrigerant handling.



Figure 2: Representation of Advanced Technology. This image illustrates the sophisticated engineering behind modern HVAC systems like the Goodman furnace.

4. Operating Instructions

Once installed and commissioned by a qualified professional, your Goodman furnace operates primarily through your thermostat.

4.1 Thermostat Operation

- **Heat Mode:** Set your thermostat to 'Heat' and adjust the desired temperature. The furnace will cycle on and off to maintain this temperature.
- **Fan Mode:** Set your thermostat to 'Fan On' for continuous fan operation, or 'Fan Auto' for the fan to run only when heating or cooling.
- **System Off:** Set your thermostat to 'Off' to disable heating and cooling.

4.2 Initial Startup

The initial startup procedure should be performed by the installing HVAC professional to ensure all systems are functioning correctly and safely.

4.3 Emergency Shut-off

In an emergency, such as a gas leak or unusual noise/smell, immediately turn off the furnace at the thermostat and the main electrical disconnect switch. If a gas leak is suspected, follow the instructions in Section 2.3.



Figure 3: Family enjoying a warm, comfortable home. This image represents the comfort and warmth provided by an efficient heating system.

5. Maintenance

Regular maintenance is crucial for the efficient and safe operation of your furnace. Always disconnect electrical power before performing any maintenance.

5.1 Air Filter Replacement/Cleaning (Monthly)

Check the air filter monthly and replace or clean it as needed. A dirty filter restricts airflow, reduces efficiency, and can damage the furnace. Refer to your furnace's specific filter size and type.

5.2 Annual Professional Inspection

Schedule an annual inspection and tune-up by a qualified HVAC technician. This service typically includes:

- Checking and cleaning the burner and heat exchanger.
- Inspecting the ignition system.
- Checking gas pressure and connections.
- Testing safety controls.
- Lubricating moving parts (if applicable).
- Inspecting ductwork for leaks.

5.3 Clear Obstructions

Ensure that the area around the furnace, including the combustion air intake and exhaust vents, remains clear of obstructions, debris, and snow.

5.4 Exterior Cleaning

Keep the exterior of the furnace clean. Use a soft, damp cloth to wipe down surfaces. Do not use abrasive cleaners or solvents.

6. Troubleshooting

Before calling for service, check the following common issues. For all complex problems, contact a qualified HVAC technician.

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
No Heat	Thermostat set incorrectly Power supply off Dirty air filter Pilot light out (if applicable)	Check thermostat settings Check circuit breaker/furnace switch Replace/clean air filter Contact HVAC professional
Insufficient Heat	Dirty air filter Blocked vents/registers Thermostat calibration issue	Replace/clean air filter Ensure vents are open and clear Contact HVAC professional
Unusual Noises	Loose panel Blower motor issue Ductwork issues	Check for loose panels Contact HVAC professional
Furnace Cycles On/Off Rapidly	Dirty air filter Oversized furnace Thermostat location	Replace/clean air filter Contact HVAC professional

7. Specifications

Key specifications for the Goodman GR9S960804CN Gas Furnace:

Feature	Specification
Brand	Goodman
Model Number	GR9S960804CN
BTU Input	80,000 BTU/h
AFUE (Annual Fuel Utilization Efficiency)	96%
Efficiency	High Efficiency
Stages	Single-Stage
Blower Type	Multi-Speed ECM
Fuel Type	Natural Gas (convertible to LP with kit)
Voltage	208 Volts
Wattage	4600 Watts
Noise Level	56 dB
Item Weight	141 pounds
Product Dimensions (L x W x H)	28.75 x 21 x 34.5 inches
Installation Type	Split System (Upflow/Horizontal)



Figure 4: High Quality, Low Cost. This image symbolizes the balance of performance and value offered by Goodman products.

8. Warranty Information

The Goodman GR9S960804CN Gas Furnace typically comes with a**10-Year Limited Parts Warranty**. Warranty terms and conditions may vary based on registration and specific product details.

To ensure full warranty coverage, register your product with Goodman shortly after installation. Keep your proof of purchase and installation records.

For complete details regarding your specific warranty, please refer to the warranty certificate included with your furnace or contact your installing HVAC dealer or Goodman customer support.



Figure 5: 10 Year Limited Warranty Shield. This emblem signifies the product's warranty coverage.

9. Support and Contact

For technical assistance, service, or warranty claims, please contact your installing HVAC professional first. They are most familiar with your specific installation and system.

You can also visit the official Goodman website for product information, FAQs, and to locate a dealer near you. For general inquiries, refer to the contact information provided on the Goodman website or in your product documentation.

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Figure 6: Goodman Brand Logo.

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