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› Goodman GMES960805CN 96% AFUE Natural Gas Furnace User Manual

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Model: GMES960805CN

1. INTRODUCTION AND OVERVIEW

This manual provides essential information for the safe and efficient operation, maintenance, and troubleshooting of your Goodman GMES960805CN 96% AFUE Single Stage Upflow/Horizontal Multi-speed 80k BTU Low NOx Natural Gas Furnace. Please read this manual thoroughly before installation or operation and retain it for future reference.



Image 1.1: The Goodman GMES960805CN natural gas furnace, a dark gray rectangular unit with the red Goodman logo on the lower front panel. A vent pipe is visible on top.

2. SAFETY INFORMATION

Your safety and the safety of others are paramount. This furnace must be installed and serviced by a qualified installer or service agency. Improper installation, adjustment, alteration, service, or maintenance can cause property damage, personal injury, or loss of life.

- **Carbon Monoxide Hazard:** This appliance can produce carbon monoxide, which is a poisonous gas. Carbon monoxide can kill you. Install a carbon monoxide detector in your home.
- **Fire Hazard:** Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.
- **Electrical Shock Hazard:** Disconnect all electrical power to the furnace before performing any maintenance or service.
- **Gas Leak:** If you smell gas, follow the instructions provided by your gas supplier. Do not attempt to locate the leak yourself.

3. SETUP AND INSTALLATION

Installation of this Goodman furnace requires specialized knowledge and tools. It must be performed by a qualified HVAC professional in accordance with all local and national codes and regulations.

3.1 Unit Placement

This furnace is designed for Upflow or Horizontal installation. The specific configuration will depend on your home's ductwork and space requirements. Ensure adequate clearances are maintained around the unit for proper airflow and service access.

3.2 Gas and Electrical Connections

All gas piping and electrical wiring must be installed by licensed professionals. Verify that the gas supply pressure and electrical voltage (115V) match the furnace requirements.

3.3 Venting

Proper venting of combustion gases is critical for safety. The vent system must be installed according to manufacturer instructions and local codes to prevent carbon monoxide accumulation.

4. OPERATING INSTRUCTIONS

Once properly installed and commissioned by a qualified technician, operating your Goodman furnace is typically managed through your home's thermostat.

4.1 Initial Startup

The initial startup procedure should be performed by a qualified technician to ensure all systems are functioning correctly and safely.

4.2 Thermostat Control

- Set your thermostat to the desired temperature.
- Select the 'Heat' mode for heating operation.
- The furnace's single-stage gas valve will operate to provide heat as required by the thermostat.
- The multi-speed indoor fan blower motor will distribute the heated air throughout your home.

4.3 Shutting Down the Furnace

To temporarily shut down the furnace, set your thermostat to the 'Off' position. For extended periods of non-use, it is recommended to turn off the electrical power and gas supply to the unit at their respective disconnects.

5. MAINTENANCE

Regular maintenance is crucial for the longevity, efficiency, and safe operation of your furnace. Some tasks can be performed by the homeowner, while others require a qualified technician.

5.1 Air Filter Replacement

Check the air filter monthly and replace it every 1-3 months, or more frequently if you have pets or allergies. A dirty filter restricts airflow, reducing efficiency and potentially damaging the furnace.

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.
- Verifying gas pressure and connections.
- Testing safety controls.
- Lubricating moving parts (if applicable).
- Checking the flue system for obstructions and leaks.

6. TROUBLESHOOTING

Before calling for service, you can perform some basic checks if your furnace is not operating correctly.

- **No Heat:**
 - Check the thermostat setting. Ensure it is set to 'Heat' and the temperature is above the current room temperature.
 - Verify the furnace power switch is 'On'.
 - Check the circuit breaker for the furnace in your electrical panel.
 - Ensure the gas supply valve to the furnace is open.
 - Replace a dirty air filter.
- **Insufficient Heat:**
 - Check and replace the air filter if dirty.
 - Ensure all supply and return air vents are open and unobstructed.
- **Unusual Noises:**
 - Minor noises are normal during operation. Loud or unusual noises (e.g., grinding, squealing) may indicate a mechanical issue. Turn off the furnace and contact a qualified technician.

If these steps do not resolve the issue, or if you suspect a gas leak or electrical problem, immediately turn off the furnace and contact a qualified HVAC service technician.

7. SPECIFICATIONS

Specification	Detail
Model Number	GMES960805CN
Brand	Goodman
Gas Furnace BTU	80,000 BTU
Gas Furnace Efficiency (AFUE)	96%
Gas Valve Type	Single-Stage
Indoor Fan Blower Motor	Multi-speed
Voltage	115V
Dimensions (H x W x D)	34.5" x 21" x 28.875"
Installation Type	Upflow/Horizontal
UPC	663051590694

8. WARRANTY AND SUPPORT

8.1 Limited Warranty

This Goodman GMES960805CN furnace comes with a **10-year parts limited warranty**. This warranty is valid provided the unit is installed by a qualified installer and registered online within 60 days of installation. Failure to register the product within this timeframe may affect warranty coverage.

8.2 Product Registration

To register your product and ensure full warranty coverage, please visit the official Goodman website or consult your installer for assistance.

8.3 Technical Support

For technical assistance, service, or warranty claims, please contact your installing dealer or a qualified Goodman service provider. Do not attempt to service the unit yourself.

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