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Goodman GD9T800804BX

Goodman GD9T800804BX Gas Furnace User Manual

Model: GD9T800804BX | 80,000 BTU | 80% AFUE | Downflow/Horizontal

1. Important Safety Information

Please read and understand all instructions and safety warnings in this manual before installing, operating, or performing maintenance on this furnace. Failure to follow these instructions could result in property damage, personal injury, or death.

- **Professional Installation Required:** Installation and service of this furnace must be performed by a qualified installer or service agency. Improper installation, adjustment, alteration, service, or maintenance can cause property damage, personal injury, or death.
- **Gas Safety:** This appliance uses natural gas or propane. Gas leaks can cause explosions and fire. If you smell gas, follow the instructions on the safety label attached to the furnace. Do not attempt to light any appliance, touch any electrical switch, or use any phone in your building. Immediately call your gas supplier from a neighbor's phone.
- **Electrical Safety:** Ensure the electrical supply to the furnace is disconnected before performing any service or maintenance. This furnace operates on 115 Volts, which can cause electrical shock.
- **Carbon Monoxide Hazard:** This appliance can produce carbon monoxide, which is an odorless and colorless gas that can cause death. Install carbon monoxide detectors in your home.
- **Hot Surfaces:** The furnace and its components can become hot during operation. Avoid contact with hot surfaces to prevent burns.

2. Product Overview

The Goodman GD9T800804BX is an 80,000 BTU, 80% AFUE gas furnace designed to provide reliable and efficient heating for residential applications. This two-stage furnace features a 9-speed ECM motor, offering enhanced comfort and energy savings through optimized airflow.

Key Features:

- **80% AFUE Efficiency:** Converts 80% of fuel into usable heat, providing solid energy efficiency.
- **Two-Stage Operation:** Adjusts heat output to match demand, improving comfort and reducing temperature swings.

- **9-Speed ECM Motor:** Optimizes airflow for quiet operation, enhanced comfort, and reduced energy consumption.
- **Flexible Installation:** Designed for downflow or horizontal configurations to suit various home layouts.
- **Durable Construction:** Built for long-term reliability and minimal maintenance.



Figure 2.1: Front view of the Goodman GD9T800804BX Gas Furnace, showing the Goodman logo and access panels.



Figure 2.2: Angled view of the Goodman GD9T800804BX Gas Furnace with the top section open, revealing internal components and

warning labels.

3. Setup and Installation

Installation of this gas furnace requires specialized knowledge and tools. It must be performed by a qualified HVAC technician in accordance with all local and national building codes and safety regulations. This section provides general information; refer to the detailed installation manual provided with the unit for complete instructions.

3.1 Pre-Installation Checks

- Verify that the furnace model matches the required specifications for the installation site.
- Ensure adequate clearances for combustion air, service access, and proper venting.
- Confirm that the electrical supply (115V) and gas supply (natural gas or propane with appropriate LP kit, sold separately) are available and correctly sized.

3.2 Installation Orientation

The GD9T800804BX furnace is designed for flexible installation in either a downflow or horizontal configuration. The specific orientation will depend on the ductwork and space availability in your home.

- **Downflow:** Air enters from the top and exits from the bottom.
- **Horizontal:** Air enters from one side and exits from the other, typically installed in attics or crawl spaces.

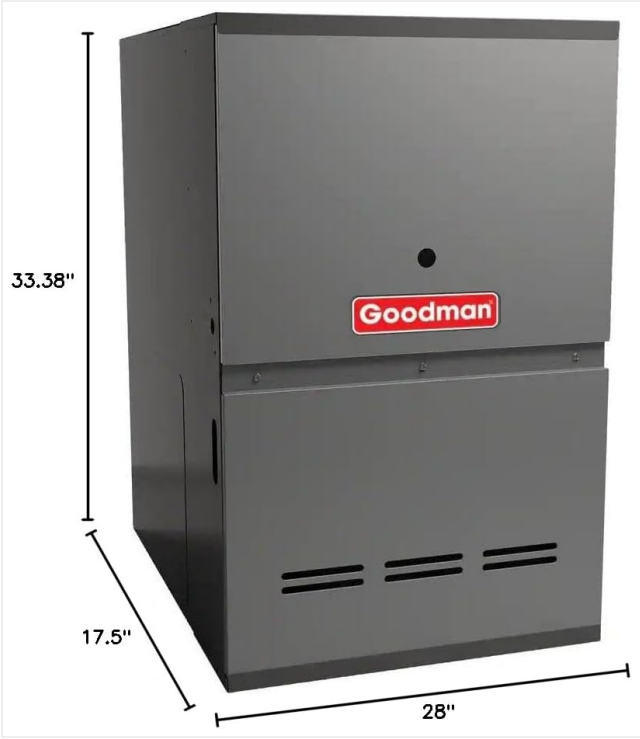


Figure 3.1: Diagram showing the dimensions of the Goodman GD9T800804BX Gas Furnace: 33.38 inches height, 17.5 inches width, and 28 inches depth.

3.3 Venting

This furnace requires metal venting. Ensure the venting system is properly sized, installed, and sealed according to manufacturer specifications and local codes to prevent flue gas leakage.



Figure 3.2: Internal view of the Goodman GD9T800804BX Gas Furnace, showing the blower motor, gas valve, wiring, and other operational components.

4. Operating Instructions

Once installed by a qualified technician, operating your Goodman GD9T800804BX furnace is typically managed through your home's thermostat.

4.1 Initial Startup (by Technician)

The initial startup and testing of the furnace should always be performed by the installing technician to ensure all connections are secure, gas pressure is correct, and safety controls are functioning properly.

4.2 User Operation

1. **Power On:** Ensure the electrical disconnect switch for the furnace is in the 'ON' position.
2. **Thermostat Settings:** Set your home's thermostat to 'HEAT' mode.

3. **Temperature Adjustment:** Adjust the desired temperature setting on your thermostat to a level higher than the current room temperature. The furnace will then cycle on to provide heat.
4. **Two-Stage Operation:** The furnace will typically start in its first (lower) stage of heating for milder conditions. If the thermostat continues to call for heat, it will automatically transition to the second (higher) stage for increased heating capacity.
5. **Fan Operation:** The thermostat can also control the fan. Set the fan to 'AUTO' for the fan to run only when heating, or 'ON' for continuous fan operation.

For detailed instructions on your specific thermostat, refer to its user manual.

5. Maintenance

Regular maintenance is crucial for the efficient and safe operation of your Goodman GD9T800804BX furnace. Some tasks can be performed by the homeowner, while others require a qualified service technician.

5.1 Homeowner Maintenance

- **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.
- **Clear Area Around Furnace:** Ensure the area around the furnace is clear of obstructions, combustible materials, and debris to allow for proper airflow and safe operation.
- **Keep Vents Clear:** Ensure all supply and return air vents in your home are unobstructed.

5.2 Professional Annual Maintenance

It is highly recommended to have a qualified HVAC technician perform annual maintenance on your furnace, ideally before the heating season begins. This service typically includes:

- Checking and cleaning the burner assembly.
- Inspecting the heat exchanger for cracks or corrosion.
- Verifying proper gas pressure and manifold pressure.
- Testing safety controls and limits.
- Lubricating moving parts (if applicable).
- Checking electrical connections and voltage.
- Inspecting the flue and venting system for blockages or leaks.
- Measuring temperature rise and airflow.

6. Troubleshooting

Before calling for service, you can perform some basic troubleshooting steps. Always ensure the electrical power to the furnace is off before inspecting any internal components.

Common Issues and Solutions:

- **No Heat:**
  - Check thermostat setting: Ensure it's set to 'HEAT' and the desired temperature is above room temperature.
  - Check power: Ensure the furnace's electrical disconnect switch is 'ON' and the circuit breaker hasn't tripped.
  - Check gas supply: Ensure the gas valve to the furnace is open.

- Check air filter: A very dirty filter can cause the furnace to overheat and shut off. Replace if necessary.

- **Insufficient Heat:**
  - Check air filter: A partially clogged filter can reduce airflow.
  - Check supply/return vents: Ensure they are open and unobstructed.
- **Unusual Noises:**
  - Squealing: May indicate a worn blower motor bearing or belt (if applicable). Requires professional service.
  - Rattling: Check for loose panels or debris inside the unit.
- **Furnace Cycles On and Off Frequently (Short Cycling):**
  - Check air filter: A dirty filter is a common cause.
  - Thermostat location: Ensure the thermostat is not near a heat source or draft.

If these steps do not resolve the issue, contact a qualified HVAC service technician for diagnosis and repair.

7. Specifications

Detailed technical specifications for the Goodman GD9T800804BX Gas Furnace.

Specification	Value
Model Number	GD9T800804BX
Brand	Goodman
BTUs	80,000
AFUE (Annual Fuel Utilization Efficiency)	80%
Orientation	Downflow / Horizontal
Venting Type	Metal
Power Source	Gas Powered
Electrical Supply	115 Volts
Motor Speed	9-Speed ECM
Gas Valve	Two-Stage
Height	33.38 inches
Width	17.5 inches
Depth	28 inches
Item Weight	171 pounds
Installation Type	Split System

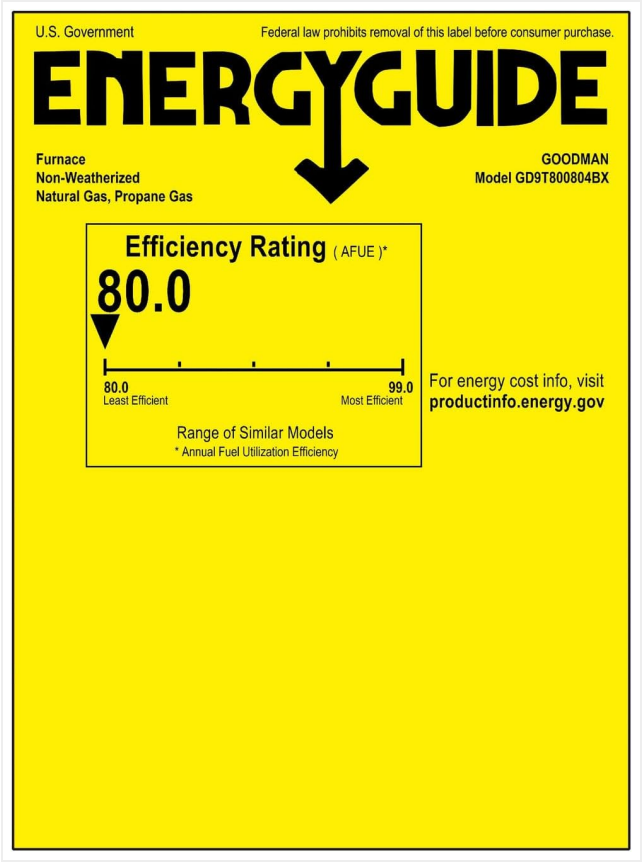


Figure 7.1: U.S. Government EnergyGuide label for the Goodman GD9T800804BX furnace, indicating an 80.0 AFUE efficiency rating.

8. Warranty Information

The Goodman GD9T800804BX Gas Furnace comes with a Limited Warranty. Specific terms and conditions, including coverage duration and what is covered, are detailed in the warranty certificate provided with your unit. Please retain your proof of purchase and installation records for warranty claims.

For complete warranty details, refer to the official Goodman warranty documentation or contact your installing dealer.

9. Support

For technical assistance, service, or parts inquiries, please contact a qualified HVAC service technician or the dealer from whom you purchased the furnace. They have the expertise and access to specific information regarding your Goodman product.

When contacting support, please have the following information ready:

- Model Number: GD9T800804BX
- Serial Number (located on the unit's rating plate)
- Date of Installation
- Description of the issue

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

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