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› [Goodman GR9T961004CN 96% AFUE Two-Stage Natural Gas Furnace Instruction Manual](#)

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Goodman GR9T961004CN 96% AFUE Two-Stage Natural Gas Furnace Instruction Manual

Model: GR9T961004CN

1. IMPORTANT SAFETY INFORMATION

Read and understand all instructions and safety precautions before installing, operating, or performing maintenance on this furnace. Failure to follow these instructions can result in property damage, personal injury, or death.

- **Professional Installation Required:** This furnace must be installed by a qualified, licensed HVAC technician. Improper installation can lead to hazardous conditions, including fire, explosion, carbon monoxide poisoning, and electrical shock.
- **Carbon Monoxide Hazard:** This furnace produces carbon monoxide. Improper installation, adjustment, alteration, service, or maintenance can cause carbon monoxide to leak into your home, leading to severe injury or death. Ensure proper ventilation and install carbon monoxide detectors.
- **Electrical Shock Hazard:** Disconnect all electrical power to the furnace before servicing or performing maintenance.
- **Gas Leak:** If you smell gas, follow the instructions provided by your gas supplier. Do not operate any electrical switches, light matches, or use any flame-producing devices.

2. PRODUCT OVERVIEW

The Goodman GR9T961004CN is a high-efficiency, two-stage, multi-speed natural gas furnace designed for upflow or horizontal installations. It features a 96% AFUE (Annual Fuel Utilization Efficiency) rating, indicating its energy-saving capabilities. This model is also designed with Low NOx technology to meet specific environmental regulations.

U.S. Government

Federal law prohibits removal of this label before consumer purchase.

ENERGYGUIDE

Furnace
Non-Weatherized
Natural Gas, Propane Gas

GOODMAN
Model GMEC961004CN

Efficiency Rating (AFUE)*

96.1

80.0

Least Efficient

98.7

Most Efficient

Range of Similar Models

* Annual Fuel Utilization Efficiency

For energy cost info, visit
productinfo.energy.gov

Image: Goodman GR9T961004CN Natural Gas Furnace unit.



Image: EnergyGuide label showing a 96.1 AFUE rating for a Goodman furnace.

3. SETUP AND INSTALLATION

Proper installation is critical for the safe and efficient operation of your Goodman furnace. This unit is designed

for either upflow or horizontal configurations. Consult the detailed installation manual provided with the unit for specific instructions.

3.1 Fuel Source

This furnace operates on natural gas. If liquid propane (LP) is required, a separate LP conversion kit must be purchased and installed by a qualified technician. The furnace will not include an LP conversion kit when shipped as a natural gas unit.

3.2 Configuration Options

The GR9T961004CN supports upflow and horizontal airflow configurations. The internal components, such as the blower and burners, are specifically designed for the chosen airflow direction and are not interchangeable. It is crucial to select the correct furnace configuration for your home's ductwork system.

- **Upflow:** Air enters from the bottom and is discharged from the top.
- **Horizontal:** Air enters from one side and is discharged from the other side.

Video: An informational video discussing key considerations when purchasing a furnace, including fuel type and configuration options. This video is provided by Superior Home Supplies.

Video: A demonstration of a Goodman Horizontal Gas Furnace, highlighting its design and features, including the PVC exhaust piping typical of high-efficiency models. This video is provided by RockRuth HVAC E-Commerce.

3.3 High-Efficiency Venting

This 96% AFUE furnace utilizes PVC piping for its exhaust and intake vents. Unlike older, less efficient furnaces that use metal flues, the PVC pipes remain cool to the touch, indicating the high efficiency of the unit in extracting heat from the combustion gases.

3.4 Low NO_x Compliance

The GR9T961004CN model incorporates Low NO_x technology, designed to reduce nitrogen oxide emissions. This feature is essential for compliance in regions with strict air quality regulations, such as certain areas in California. Always verify local regulations before installation.

4. OPERATING INSTRUCTIONS

Your furnace operates in conjunction with your home's thermostat to maintain desired temperatures. Ensure your thermostat is properly programmed and set to the 'Heat' mode during colder periods.

4.1 Two-Stage Heating

This furnace features two-stage heating, meaning it can operate at a lower capacity (first stage) for most heating demands and switch to a higher capacity (second stage) during colder conditions or when a rapid temperature increase is needed. This allows for more consistent temperatures, quieter operation, and improved energy efficiency compared to single-stage furnaces.

4.2 Multi-Speed Blower

The multi-speed blower motor adjusts its speed to optimize airflow for both heating and cooling cycles. This contributes to better humidity control, enhanced comfort, and reduced noise levels.

5. MAINTENANCE

Regular maintenance is crucial for the longevity, efficiency, and safe operation of your furnace. It is recommended to have your furnace inspected and serviced annually by a qualified HVAC technician.

5.1 Filter Replacement

Check your furnace filter monthly and replace it as needed, typically every 1-3 months, depending on usage and household conditions (e.g., pets, allergies). A dirty filter restricts airflow, reduces efficiency, and can damage the furnace. The filters in Goodman furnaces are designed for easy access.

5.2 Professional Servicing

An annual professional tune-up ensures all components are functioning correctly, identifies potential issues before they become major problems, and maintains optimal efficiency. This includes checking the heat exchanger, burners, ignition system, electrical connections, and safety controls.

6. TROUBLESHOOTING

If you experience issues with your furnace, refer to the following common troubleshooting steps. For complex problems or if you are unsure, always contact a qualified HVAC technician.

Problem	Possible Cause	Solution
No Heat	Thermostat set incorrectly, power off, gas supply off, dirty filter, pilot light/ignition issue.	Check thermostat settings, ensure power is on, verify gas valve is open, replace filter, consult technician for ignition.
Insufficient Heat	Dirty filter, blocked vents, undersized unit, thermostat malfunction.	Replace filter, clear obstructions, consult technician for unit sizing or thermostat repair.
Unusual Noises	Loose parts, motor issues, ductwork problems.	Contact a qualified technician for diagnosis and repair.
Furnace Cycles Frequently	Dirty filter, oversized unit, thermostat location, airflow issues.	Replace filter, ensure proper airflow, consult technician for unit sizing or thermostat relocation.

7. SPECIFICATIONS

- **Model:** GR9T961004CN
- **Brand:** Goodman
- **AFUE Rating:** 96%
- **BTU Input:** 100,000 BTU
- **Stages:** Two-Stage
- **Blower:** Multi-Speed
- **Configuration:** Upflow/Horizontal
- **Fuel Type:** Natural Gas (LP convertible with kit)
- **NOx Emissions:** Low NOx
- **Width:** 21 inches (approximate, based on product description)

8. WARRANTY INFORMATION

Goodman furnaces typically come with a manufacturer's limited warranty covering parts. Specific warranty terms and conditions, including registration requirements and coverage duration, are provided with your unit. Please refer to the warranty documentation included in your product packaging or visit the official Goodman

website for detailed information. Keep your proof of purchase and installation records for warranty claims.

9. SUPPORT

For technical assistance, service, or parts inquiries, please contact your installing HVAC contractor or a qualified Goodman dealer. You can also visit the official Goodman website for support resources, FAQs, and contact information.

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