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## Goodman GMVC961205DN

# Goodman GMVC961205DN 96% Efficiency Furnace Instruction Manual

Model: GMVC961205DN

## 1. PRODUCT OVERVIEW

The Goodman GMVC961205DN is a high-efficiency gas furnace designed for residential heating applications. This model features a 96% AFUE (Annual Fuel Utilization Efficiency), indicating its high energy efficiency. It is compatible with ComfortNet Communicating Systems and includes a variable-speed blower and a two-stage gas valve for optimized comfort and performance.

This furnace is designed for upflow or horizontal system configurations. It utilizes either natural gas or liquid propane as a fuel source. Please note that if liquid propane is required, a separate liquid propane conversion kit must be purchased and installed by a qualified professional.

## 2. PRODUCT FEATURES

- **High Efficiency:** 96% AFUE rating for reduced energy consumption.
- **ComfortNet Communicating System Compatible:** Allows for advanced system control and diagnostics.
- **Heavy-Duty Construction:** Features an aluminized-steel tubular heat exchanger and a stainless-steel secondary heat exchanger for durability.
- **Variable-Speed Blower:** Provides consistent airflow, enhanced comfort, and quiet operation.
- **Two-Stage Gas Valve:** Operates at two heating levels (low and high) to maintain precise temperature control and maximize efficiency.
- **System Configuration:** Designed for upflow and horizontal installations.
- **Fuel Type:** Operates on natural gas; can be converted to liquid propane with an optional kit.

## 3. SPECIFICATIONS

Brand	Goodman
Model Number	GMVC961205DN

<b>Efficiency (AFUE)</b>	96%
<b>Dimensions (D x W x H)</b>	34.5" x 24.5" x 34.5"
<b>Voltage</b>	115V
<b>Motor Type</b>	Variable-speed blower
<b>Gas Valve</b>	Two-stage
<b>System Configuration</b>	Upflow, Horizontal
<b>Power Source</b>	Natural Gas (LP convertible)
<b>Control Method</b>	App (with compatible thermostat)
<b>Outdoor Unit Required</b>	No



Image: Goodman GMVC961205DN furnace showing its physical dimensions.

#### **4. INSTALLATION GUIDELINES**

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Installation of the Goodman GMVC961205DN furnace must be performed by a qualified and licensed HVAC

professional. Improper installation can lead to safety hazards, reduced efficiency, and may void the product warranty.

#### 4.1. Fuel Source Considerations

This furnace operates on natural gas. If your home uses liquid propane (LP), a specific LP conversion kit is required. This kit is sold separately and must be installed by a qualified technician to ensure safe and proper operation.

#### 4.2. System Configuration

The GMVC961205DN furnace supports upflow and horizontal configurations. The airflow direction (upflow, downflow, or horizontal) is determined by the design of your home's ductwork and the furnace's internal components (blower and burners). It is crucial that the furnace configuration matches your system's requirements. Upflow units draw air from the bottom and push heated air out the top. Horizontal units are laid on their side. Downflow units draw air from the top and push heated air out the bottom. Furnaces are specifically designed for one of these configurations and are not interchangeable. Consult your installer to ensure the correct configuration for your home.

#### 4.3. Venting for High-Efficiency Furnaces

As a 96% efficient furnace, this model typically uses two PVC pipes for venting: one for intake and one for exhaust. These pipes will usually exit the top or side of the furnace. This is a key visual indicator of a high-efficiency condensing furnace, which recovers more heat from the exhaust gases.

Your browser does not support the video tag.

Video: Important considerations when purchasing a furnace, including fuel type, configuration, and efficiency. Provided by Superior Home Supplies.

## 5. OPERATING INSTRUCTIONS

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### 5.1. Thermostat Control

This furnace is designed to work with a compatible thermostat, ideally a ComfortNet Communicating System thermostat for optimal performance. Set your desired temperature on the thermostat. The furnace will automatically cycle on and off to maintain this temperature.

### 5.2. Blower Operation (Variable-Speed)

The variable-speed blower adjusts its speed to deliver a consistent flow of heated air throughout your home. This results in more even temperatures, reduced noise, and improved humidity control compared to single-speed blowers. The blower speed will ramp down as your home approaches the desired temperature, enhancing comfort and efficiency.

### 5.3. Two-Stage Heating

The two-stage gas valve allows the furnace to operate at two different heating capacities. In milder weather, it will run at a lower capacity (e.g., 70%) to efficiently maintain the temperature. During colder periods, it will switch to full capacity (100%) to quickly heat your home. This staging helps reduce temperature swings and saves energy.

## 6. MAINTENANCE

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

### 6.1. 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 clean filter ensures proper airflow and maintains system efficiency.

## 6.2. Professional Servicing

An annual professional tune-up can identify potential issues, clean internal components, and ensure your furnace is operating at peak efficiency and safety. This is crucial for maintaining the longevity of the unit and validating warranty terms.

## 7. TROUBLESHOOTING

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If you experience issues with your furnace, consult the troubleshooting section of the full manufacturer's manual or contact a qualified HVAC technician. Common issues may include:

- **No Heat:** Check thermostat settings, power supply, and gas supply.
- **Insufficient Heat:** Ensure air filter is clean, check for blocked vents.
- **Unusual Noises:** Can indicate mechanical issues; requires professional inspection.
- **Frequent Cycling:** May be due to an oversized unit, dirty filter, or thermostat issues.

For safety, do not attempt complex repairs yourself. Always contact a certified technician.

## 8. WARRANTY INFORMATION

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The Goodman GMVC961205DN furnace comes with a **10-year parts limited warranty**. To qualify for this warranty, the unit must be installed by a qualified installer and registered online within 60 days of installation. Failure to meet these conditions may result in a reduced warranty period.

Keep your proof of purchase and installation records. For full details on warranty terms and conditions, please refer to the official Goodman warranty documentation provided with your product or visit the manufacturer's website.

## 9. IMPORTANT NOTICES

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### 9.1. California Environmental Mitigation Fee

Some climate districts in California require the collection of an environmental mitigation fee for certain gas furnaces. This fee varies by district. If this furnace is being shipped to a climate district area in California, please contact your seller or local authorities for information regarding applicable fees and regulations.

### 9.2. Low NOx and Ultra-Low NOx Requirements

In certain regions, particularly in California, specific regulations regarding Nitrogen Oxide (NOx) emissions apply. Furnaces are categorized as Low NOx or Ultra-Low NOx. The model number of the furnace indicates its compliance: models ending in 'N' are generally for nationwide sale, while models ending in 'X' (Low NOx) or 'U' (Ultra-Low NOx) are designed for California's specific air quality management control districts. Ensure your furnace complies with local regulations.

## 10. SUPPORT AND CONTACT

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For technical assistance, warranty claims, or any questions regarding your Goodman GMVC961205DN furnace, please contact your authorized Goodman dealer or a qualified HVAC professional. You may also visit the official Goodman website for additional resources and support.