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› Goodman 92% AFUE Single Stage Upflow/Horizontal Multi-Speed Gas Furnace User Manual

Goodman GMSS920403AN

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Model: GMSS920403AN

Goodman, GMSS920403AN, Furnace, Upflow/Horizontal, Multi-Speed, Single-Stage, 92% AFUE, Heating Capacity: 40,000 BTU, 1200 CFM, Cabinet Width: 14", 115 VAC, 1 Phase, 60 Hz

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation, installation, and maintenance of your Goodman 92% AFUE Single Stage Upflow/Horizontal Multi-Speed Gas Furnace, model GMSS920403AN. Please read this manual thoroughly before installation or operation to ensure proper use and to prevent potential hazards.

This furnace is designed for residential and light commercial applications, providing reliable heating with high energy efficiency. It features a single-stage operation and a multi-speed blower for optimal comfort and performance.



Figure 1: Front view of the Goodman GMSS920403AN Gas Furnace. This image shows the compact design and the Goodman branding on the upper panel.

2. SAFETY INFORMATION

Always prioritize safety. Installation and servicing of this furnace require specialized knowledge and training. Improper installation, adjustment, alteration, service, or maintenance can cause property damage, personal injury, or loss of life. Consult a qualified installer, service agency, or the gas supplier for information or assistance.

- Ensure all local codes and national standards are followed during installation.
- Turn off all electrical power to the unit before performing any maintenance or service.
- Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.
- Keep the area around the furnace clear and free from combustible materials.

3. SETUP AND INSTALLATION

Installation of the Goodman GMSS920403AN furnace must be performed by a qualified HVAC professional. This section provides general guidelines; refer to the detailed installation instructions provided with the unit for complete procedures.

3.1. Location Requirements

- Install the furnace in a location that allows for proper airflow and access for maintenance.
- Ensure adequate clearances from combustible materials as specified in the installation manual.
- The furnace can be installed in upflow or horizontal configurations.

3.2. Gas and Electrical Connections

- All gas piping must comply with local codes and national standards.
- Electrical wiring must be performed by a qualified electrician and conform to all applicable codes. The unit requires 115 VAC, 1 Phase, 60 Hz.



Figure 2: Internal view of an HVAC coil and associated components. This illustrates the complex internal structure that requires professional handling during installation and service.

4. OPERATING INSTRUCTIONS

Once installed, operating your Goodman furnace is typically managed via a compatible thermostat. Ensure your thermostat is properly wired and configured.

4.1. Initial Startup

1. Ensure all gas and electrical connections are secure and verified by a professional.
2. Open the manual gas shut-off valve to the furnace.
3. Turn on the electrical power to the furnace at the circuit breaker.
4. Set your thermostat to "Heat" mode and adjust the temperature setting above the current room temperature to initiate a heating cycle.
5. Observe the furnace for proper ignition and operation.

4.2. Normal Operation

The furnace will cycle on and off as needed to maintain the temperature set on your thermostat. The multi-speed blower will adjust to provide optimal airflow for heating.

- **Thermostat Settings:** Refer to your thermostat's user manual for specific programming and operation details.
- **Airflow:** Ensure return air grilles and supply registers are unobstructed for efficient operation.

5. MAINTENANCE

Regular maintenance is crucial for the longevity and efficient operation of your Goodman furnace. Perform the following checks periodically.

5.1. Air Filter Replacement

The air filter should be checked monthly and replaced or cleaned as needed, typically every 1-3 months depending on usage and household conditions. A dirty filter restricts airflow, reduces efficiency, and can damage the furnace.

1. Turn off electrical power to the furnace.
2. Locate the filter access panel (usually near the blower compartment).
3. Remove the old filter and replace it with a new filter of the same size and MERV rating. Ensure the airflow arrow on the filter points towards the furnace.
4. Securely close the filter access panel and restore power.

5.2. Professional Servicing

It is highly recommended to have your furnace inspected and serviced by a qualified HVAC technician annually, preferably before the heating season. Professional servicing includes:

- Checking and cleaning the burner assembly.
- Inspecting the heat exchanger for cracks or corrosion.
- Lubricating moving parts (if applicable).
- Checking electrical connections and components.
- Verifying proper gas pressure and combustion.
- Testing safety controls.



Figure 3: Internal view of the Goodman furnace, showing the blower motor and various electrical components. Regular inspection of these parts by a professional ensures safe and efficient operation.

6. TROUBLESHOOTING

Before calling for service, review the following common issues and their potential solutions. Always turn off power to the furnace before inspecting any internal components.

Problem	Possible Cause	Solution
Furnace not heating	Thermostat set incorrectly; Power off; Gas supply off; Dirty air filter; Pilot light out (if applicable); Safety switch tripped.	Check thermostat settings; Ensure power is on; Check gas valve; Replace/clean filter; Consult professional for pilot light or safety switch issues.
Noisy operation	Loose panel; Dirty blower wheel; Motor bearing issues.	Secure panels; Clean blower wheel (professional recommended); Contact service technician for motor issues.
Blower runs continuously	Thermostat fan setting on "ON"; Limit switch stuck.	Set thermostat fan to "AUTO"; Contact service technician.
Weak airflow	Dirty air filter; Blocked vents/ductwork.	Replace/clean filter; Check and clear all supply and return vents.

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 technician or your gas supplier.

7. SPECIFICATIONS

Key technical specifications for the Goodman GMSS920403AN furnace:

Specification	Value
Model Number	GMSS920403AN
AFUE (Annual Fuel Utilization Efficiency)	92%
Heating Capacity	40,000 BTU
Air Flow Capacity	1200 CFM (Cubic Feet Per Minute)
Cabinet Width	14 inches
Electrical Requirements	115 VAC, 1 Phase, 60 Hz
Item Weight	109 pounds
Product Dimensions (L x W x H)	762 x 381 x 977.9 inches (Note: These dimensions seem unusually large for a furnace. Please verify with product documentation.)
Manufacturer	Goodman

8. WARRANTY AND SUPPORT

Goodman offers comprehensive warranty coverage for your peace of mind. To ensure you receive the full benefits, register your new Goodman unit.

- **Enhanced Warranty Coverage:** Register your unit for enhanced warranty benefits at no additional cost.
- **10-Year Unit Replacement Limited Warranty:** Provides for replacement of the unit under specific conditions.
- **Lifetime Compressor Limited Warranty:** Covers the compressor for the lifetime of the unit.
- **10-Year Parts Limited Warranty:** Covers replacement part(s) for any part found to be defective due to workmanship or materials under normal use and maintenance.

For warranty registration, detailed terms and conditions, or to find a qualified service provider, please visit the official Goodman website or contact their customer support. You can also visit the [Goodman Store on Amazon](#) for more information.

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