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## Goodman GLXS3BN3010,CAPTA3626B3,GR9S960803BN

# Goodman Upflow 2.5 Ton Air Conditioner System User Manual

Models: GLXS3BN3010, CAPTA3626B3, GR9S960803BN

## Introduction

This manual provides essential information for the installation, operation, and maintenance of your Goodman Upflow 2.5 Ton Air Conditioner System. This comprehensive system includes the GLXS3BN3010 air conditioner, CAPTA3626B3 evaporator, and the GR9S960803BN gas furnace, designed for upflow installation. For optimal performance and safety, please read this manual thoroughly before installation or operation.

## Safety Information

**Important:** Installation and servicing of air conditioning and heating equipment can be hazardous due to electrical components, sharp edges, and refrigerant pressures. Only qualified, trained, and experienced HVAC technicians should install, repair, or service this equipment. Failure to follow these instructions can result in property damage, personal injury, or death.

- Always disconnect power before servicing.
- Wear appropriate personal protective equipment (PPE), including gloves and eye protection.
- Ensure proper ventilation when working with gas appliances.
- Comply with all local and national building codes and regulations.
- This unit contains R-32 refrigerant. Handle with care and ensure proper recovery and disposal.
- Federal law allows this unit to be installed only in specific states and U.S. territories (AK, CO, CT, ID, IL, IA, IN, KS, MA, ME, MI, MN, MO, MT, ND, NE, NH, NJ, NY, OH, OR, PA, RI, SD, UT, VT, WA, WV, WI, WY). Installation in other states is prohibited by federal law.

## Components Overview

The Goodman Upflow Air Conditioner System consists of three primary components:




**Figure 1:** Complete Goodman Upflow Air Conditioner System showing the outdoor condenser unit, indoor evaporator coil, and the gas furnace.




**Figure 2:** The GLXS3BN3010 outdoor air conditioner unit, featuring a durable scroll compressor and heavy-duty steel cabinet for reliable cooling performance.




**Figure 3:** The CAPTA3626B3 evaporator coil unit, designed to work with the air conditioner to absorb heat from indoor air.




**Figure 4:** The GR9S960803BN gas furnace unit, providing 80,000 BTU heating power with 96% AFUE for efficient heating.

- **GLXS3BN3010 Air Conditioner:** The outdoor unit responsible for cooling, equipped with a high-efficiency scroll compressor.
- **CAPTA3626B3 Evaporator Coil:** The indoor coil that works in conjunction with the air conditioner to remove heat and humidity from your home's air.

- **GR9S960803BN Gas Furnace:** The indoor unit providing heating, featuring 80,000 BTU heating power and 96% AFUE.

## Setup and Installation

This Goodman system is designed for **upflow installation**, making it suitable for vertical setups in basements, attics, or closets. Due to the complexity and safety requirements, installation must be performed by a qualified HVAC professional.

### Pre-Installation Checks:

- Verify that the installation location complies with all local building codes and regulations.
- Ensure adequate space for proper airflow, maintenance, and service access.
- Confirm electrical supply meets the system's requirements (230 Volts).
- Check that the ductwork is properly sized and sealed for efficient operation.

### Installation Steps (Summary for Professional Reference):

1. **Positioning:** Place the furnace, evaporator coil, and outdoor unit in their designated locations, ensuring proper clearances.
2. **Ductwork Connection:** Connect the supply and return air ducts to the furnace and evaporator coil.
3. **Refrigerant Line Set:** Connect the pre-charged refrigerant line set (15 feet) between the outdoor unit and the evaporator coil. The system is pre-charged with R-32 refrigerant.
4. **Electrical Wiring:** Connect the high-voltage and low-voltage (thermostat) wiring according to the wiring diagrams provided with each component.
5. **Gas Line Connection:** Connect the gas supply line to the furnace, ensuring all connections are leak-free.
6. **Condensate Drain:** Install the condensate drain line from the evaporator coil to a suitable drain.
7. **System Start-up:** Perform a thorough system check, including leak detection, pressure testing, and operational verification.

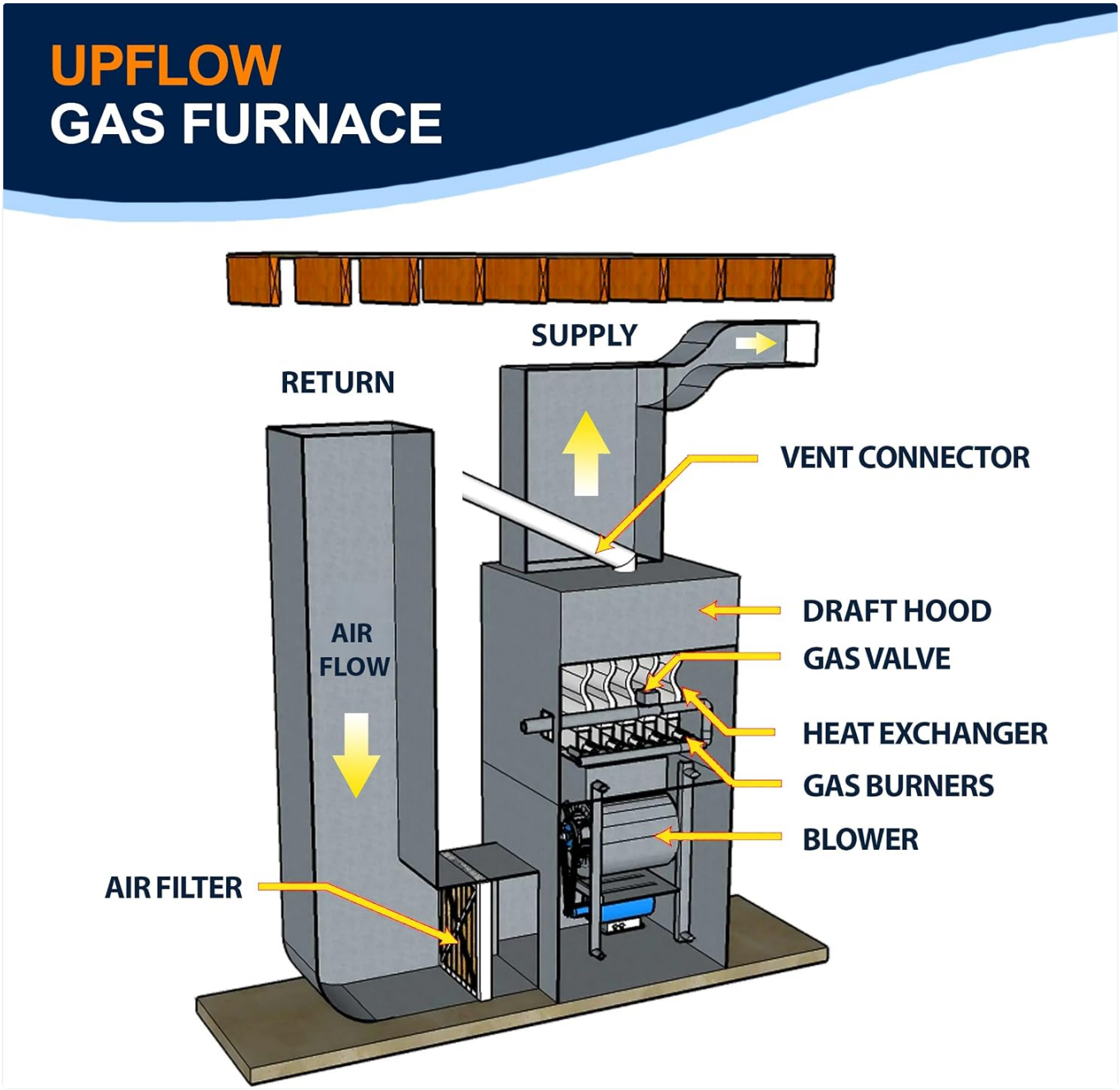



**Figure 5:** Diagram illustrating the air flow path within an Upflow Gas Furnace, detailing components like the air filter, blower, heat exchanger, and vent connector.

## Operating Instructions

Once installed by a qualified professional, your Goodman system is designed for user-friendly operation, primarily controlled via your thermostat.

### Thermostat Compatibility:

This system is compatible with modern smart thermostats, allowing for remote control and improved energy management. Refer to your thermostat's user manual for specific programming and operation instructions.

### Basic Operation:

- **Cooling Mode:** Set your thermostat to "Cool" and select your desired temperature. The system will activate the outdoor air conditioner and indoor evaporator coil to cool your home.
- **Heating Mode:** Set your thermostat to "Heat" and select your desired temperature. The gas furnace will ignite to provide warmth.

- **Fan Mode:** You can typically set the fan to "Auto" (runs only when heating/cooling) or "On" (runs continuously for air circulation).

For optimal energy efficiency, avoid frequent and drastic temperature changes. Utilize programmable features of your thermostat to set back temperatures when away or asleep.

## Maintenance

Regular maintenance is crucial for the longevity, efficiency, and safe operation of your Goodman HVAC system. While some tasks can be performed by the homeowner, annual professional servicing is highly recommended.

### Homeowner Maintenance:

- **Air Filter Replacement:** Check your air filter monthly and replace it every 1-3 months, or more frequently if you have pets or allergies. A clean filter ensures proper airflow and system efficiency.
- **Outdoor Unit Cleaning:** Keep the area around the outdoor condenser unit clear of debris, leaves, and vegetation. Gently rinse the coils with a garden hose to remove dirt buildup. Ensure power is off before cleaning.
- **Condensate Drain Line:** Periodically check the condensate drain line for clogs. Clear any blockages to prevent water overflow.

### Professional Annual Maintenance:

Schedule annual inspections and tune-ups with a certified HVAC technician. This typically includes:

- Checking refrigerant levels and pressures.
- Inspecting electrical connections and components.
- Cleaning evaporator and condenser coils.
- Lubricating moving parts.
- Checking gas connections and burner operation (for furnace).
- Verifying thermostat calibration.
- Inspecting ductwork for leaks.

## Troubleshooting

Before calling for service, review these common issues and simple solutions. For complex problems, always contact a qualified HVAC technician.

| Problem | Possible Cause | Solution |
|---|---|---|
| System not turning on | No power, tripped breaker, thermostat settings, furnace safety switch. | Check thermostat settings, ensure power switch is on, reset circuit breaker. If furnace, check access panel is securely closed. |
| Insufficient cooling/heating | Dirty air filter, blocked outdoor unit, low refrigerant, duct leaks. | Replace air filter, clean outdoor unit. For refrigerant or duct issues, contact a professional. |
| Unusual noises | Loose parts, motor issues, refrigerant issues. | Turn off system and contact a professional for diagnosis. |
| Water leakage around indoor unit | Clogged condensate drain line, frozen evaporator coil. | Clear condensate drain line. If coil is frozen, turn off AC and let it thaw, then check airflow. If problem persists, contact professional. |

## Specifications

| Attribute | Value |
|---|---|
| Brand Name | Goodman (Generic) |
| Model Info | GLXS3BN3010, CAPTA3626B3, GR9S960803BN |
| Item Weight | 296 pounds |
| Product Dimensions | 26 x 25.99 x 32.5 inches |
| Country of Origin | USA |
| Capacity | 2.5 Tons (30000 British Thermal Units Cooling Power) |
| Annual Energy Consumption | 2576 Watts |
| Noise Level | 74 dB |
| Installation Type | Split System, Upflow |
| Voltage | 230 Volts |
| Included Components | Air Conditioner, Evaporator, Gas Furnace |
| Special Features | Federal law allows this unit to be installed only in: AK, CO, CT, ID, IL, IA, IN, KS, MA, ME, MI, MN, MO, MT, ND, NE, NH, NJ, NY, OH, OR, PA, RI, SD, UT, VT, WA, WV, WI, WY, and U.S. territories. Federal law prohibits installation of this unit in other states., Fast Cooling |
| Color | Gray |
| Date First Available | October 22, 2024 |

## Warranty and Support

This Goodman Air Conditioner System comes with a**10-year parts-limited manufacturer's warranty**. To be eligible for this warranty, the unit must be installed by a qualified installer and registered online within 60 days of installation.
For warranty claims, technical support, or to locate a qualified installer, please refer to the official Goodman website or contact their customer service. Accessories such as line sets, LP Kits, heat kits, whips, and disconnects are sold separately and are not covered under the main system warranty unless specified by the accessory manufacturer.
For customer support regarding your purchase, you may also contact the seller, MRO Next Day, through the Amazon platform.

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This manual is for informational purposes only. Always consult with a qualified HVAC professional for installation and service.

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**Details**

Model number, symptoms, what you tried, or the section of the manual you are using.

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