

## Goodman GLXS3BN4810CAPTA6030C3GM9S801005CX

# Goodman 4 Ton 13.5 SEER2 Upflow R-32 AC System Instruction Manual

Models: GLXS3BN4810 (Condenser), GM9S801005CX (Furnace), CAPTA6030C3 (Coil)

## 1. SYSTEM OVERVIEW

This document provides essential information for the Goodman 4 Ton 13.5 SEER2 Upflow R-32 AC System. This complete system includes the Goodman GLXS3BN4810 Air Conditioner, the GM9S801005CX furnace, and the CAPTA6030C3 coil. It is designed to provide efficient cooling and consistent heating for your home. The system is certified by AHRI under certificate number 215331614, ensuring it meets industry performance standards.

For optimal performance and safety, professional installation by a qualified technician is required. Please retain this manual for future reference.



Figure 1: An overview of the Goodman 4 Ton AC System, showing the outdoor condenser unit, indoor furnace, and evaporator coil.

## 2. KEY FEATURES

- **Complete Home Comfort Solution:** Integrates the Goodman 4 Ton Air Conditioner GLXS3BN4810, the Goodman Gas Furnace GM9S801005CX, and the Goodman Upflow System Coil CAPTA6030C3 for efficient 13.5 SEER2 cooling and consistent heating.
- **Efficient and Reliable Cooling:** The 4 Ton Single Stage GLXS3BN4810 operates at 13.5 SEER2. Features service valves, gauge ports, and inspection points. Pre-charged for 15' of tubing.
- **Advanced, Eco-Friendly Heating:** The Goodman GM9S801005CX Single Stage Multi-Speed ECM Gas Furnace offers up to 80% AFUE and 100k BTU Low NOx. Includes an ECM blower motor, stainless-steel heat exchanger, and silicon nitride igniter.
- **Optimized Coil Design:** The Goodman Upflow R-32 only Coil CAPTA6030C3 is constructed with corrosion-resistant aluminum and grooved tubing for enhanced heat transfer. Rigorously tested for quality.
- **Versatile with Wide Compatibility:** The AC unit features a factory-installed filter drier and large screw lugs. The gas furnace supports electronic air cleaner and humidifier integrations.

## 3. SYSTEM COMPONENTS

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### 3.1. Outdoor Condenser Unit (GLXS3BN4810)

The outdoor unit is responsible for releasing heat from your home during cooling cycles. This model is a 4-ton single-stage air conditioner with a 13.5 SEER2 rating.



Figure 2: The outdoor air conditioner condenser unit, model GLXS3BN4810, featuring a large fan and finned coils.

### 3.2. Indoor Furnace Unit (GM9S801005CX)

The indoor furnace provides heat to your home. This model is an 80% AFUE, 100k BTU Low NOx gas furnace, designed for upflow or multi-position installations.



Figure 3: The indoor gas furnace unit, model GM9S801005CX, with 80% AFUE and Low NOx capabilities.

### 3.3. Evaporator Coil (CAPTA6030C3)

The evaporator coil works in conjunction with the outdoor unit to absorb heat from your indoor air. This model is an upflow R-32 coil, designed for efficient heat exchange.



Figure 4: The indoor evaporator coil, model CAPTA6030C3, designed for upflow systems and R-32 refrigerant.

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## 4. SETUP AND INSTALLATION

Installation of this HVAC system must be performed by a qualified and licensed HVAC technician. Improper installation can lead to system malfunction, safety hazards, and void the warranty.

### 4.1. System Configuration

This system is designed for an **Upflow** configuration, meaning air enters from the bottom of the furnace and exits through the top. Ensure your ductwork is compatible with this flow direction.

Video 1: This video from Superior Home Supplies explains different AC with Furnace System configurations, including upflow, downflow, and horizontal.

Video 2: This video from Superior Home Supplies helps identify the type of system you have based on airflow direction (upflow, downflow, horizontal).

### 4.2. Fuel Type

The GM9S801005CX furnace is designed for natural gas. If liquid propane (LP) is to be used, a separate LP conversion kit is required. Consult your installer for proper conversion.

### 4.3. Refrigerant (R-32)

This system utilizes R-32 refrigerant. R-32 is a more energy-efficient and environmentally friendly refrigerant compared to older types. It requires specific handling and installation procedures due to its slight flammability. A compatible R-32 coil (CAPTA6030C3) is included with this system.

Video 3: This video from Superior Home Supplies discusses facts versus fiction regarding R-32 refrigerant.

Video 4: This video from Superior Home Supplies provides information about refrigerant regulations, including the transition to R-32.

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## 5. OPERATING INSTRUCTIONS

Once installed, operate your system using a compatible thermostat. Refer to your thermostat's user manual for specific programming and operation details.

- **Cooling Mode:** Set your thermostat to 'Cool' and select your desired temperature. The system will activate to cool your home.
- **Heating Mode:** Set your thermostat to 'Heat' and select your desired temperature. The furnace will activate to warm your home.
- **Fan Operation:** You can typically set the fan to 'Auto' (runs only when heating/cooling) or 'On' (runs continuously for air circulation).

## 6. MAINTENANCE

Regular maintenance is crucial for the longevity and efficiency of your HVAC system. Always disconnect power to the unit before performing any 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 dirty filter restricts airflow and reduces efficiency.
- **Outdoor Unit Cleaning:** Keep the area around the outdoor condenser unit clear of debris, leaves, and vegetation to ensure proper airflow. Periodically rinse the outdoor coils with a garden hose.
- **Professional Tune-ups:** Schedule annual maintenance with a qualified HVAC technician. They can inspect, clean, and tune your system to ensure optimal performance and identify potential issues early.

## 7. TROUBLESHOOTING

If you experience issues with your system, consider the following basic troubleshooting steps before contacting a technician:

- **No Power:** Check the circuit breaker for the HVAC system. Ensure the thermostat is set correctly and has fresh batteries if applicable.
- **Poor Cooling/Heating:** Verify thermostat settings. Check if the air filter is clean. Ensure outdoor unit is not blocked.
- **Unusual Noises:** Minor noises are normal, but loud or persistent sounds (e.g., grinding, banging, squealing) may indicate a problem. Turn off the system and contact a technician.

For any persistent or complex issues, contact a qualified HVAC technician for diagnosis and repair.

## 8. SPECIFICATIONS

Specification	Value
Brand Name	Goodman
AC Model Number	GLXS3BN4810
Furnace Model Number	GM9S801005CX
Coil Model Number	CAPTA6030C3
Cooling Capacity	4 Ton
AC Efficiency Rating	13.5 SEER2

Specification	Value
Furnace AFUE	80%
Furnace BTU	100,000 BTU
NOx Emission	Low NOx
Refrigerant Type	R-32
AHRI Certificate Number	215331614



Figure 5: The AHRI Certified logo, indicating the system meets industry performance standards.

### 8.1. EnergyGuide Labels



Figure 6: An EnergyGuide label detailing the efficiency rating of the Goodman GLXS3BN4810A central air conditioner, showing a SEER2 rating of 13.40.



Figure 7: An EnergyGuide label detailing the efficiency rating of the Goodman GM9S801005CX furnace, showing an AFUE rating of 80.0.

## 9. WARRANTY & SUPPORT

This system comes with a **10-year parts limited warranty** if installed by a qualified installer and registered online within 60 days of installation. Online registration is not required in California.



Figure 8: A shield graphic indicating a 10-year parts limited warranty.

For full warranty details or technical support, please contact Goodman customer service or your installing dealer.

## 10. IMPORTANT REGULATORY INFORMATION

### 10.1. SEER2 Regulations

As of January 1, 2023, new SEER2 (Seasonal Energy Efficiency Ratio 2) regulations are in effect. These updated standards provide a more accurate reflection of real-world energy efficiency for HVAC systems. This Goodman system meets the 13.5 SEER2 requirement for the Northern region.

Video 5: This video from Superior Home Supplies explains the SEER2 rating system and its implementation.

### 10.2. State-Specific Installation Restrictions

This system does not comply with Federal regulations for the following states and cannot be shipped to or installed in: AL, AR, AZ, CA, DE, FL, GA, KY, LA, MD, MS, NC, NM, NV, OK, SC, TN, TX, and VA. Please verify local regulations before purchase and installation.

### 10.3. California Low NOx Requirements

Due to specific Low NOx requirements in California, the GM9S801005CX furnace is designed to meet these

standards. In certain California Air Quality Control Management Districts, ultra-low NOx furnaces may be required. Always confirm local regulations with your installer.