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Goodman GLXS3BN3610

Goodman 3 Ton 14 SEER2 Upflow AC System with 80% AFUE 100k BTU Furnace User Manual

Models: GLXS3BN3610 (Condenser), GM9S801005CN (Furnace), CAPTA3626C3 (Coil)

Introduction

This manual provides essential information for the Goodman 3 Ton 14 SEER2 Upflow AC System, which includes the GLXS3BN3610 Air Conditioner, the GM9S801005CN Furnace, and the CAPTA3626C3 Coil. This integrated system is designed to provide efficient cooling and consistent heating for residential applications. Proper installation, operation, and maintenance are crucial for optimal performance and longevity of the system.



Figure 1: Overview of the Goodman 3 Ton 14 SEER2 Upflow AC System, showing the outdoor condenser unit, indoor furnace, and evaporator coil.

The system is AHRI certified under certificate number 215331397, ensuring its performance meets industry standards. It utilizes R-32 refrigerant, an eco-friendly choice. A 10-year parts limited warranty is available if installed by a qualified professional and registered online within 60 days of installation (online registration not required in California).

Setup and Installation

Professional Installation Required: Due to the complexity of HVAC systems, installation of this Goodman system must be performed by a qualified, licensed HVAC technician. Improper installation can lead to system malfunction, safety hazards, and void the warranty. This system does not comply with Federal regulations for certain 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.

Key Components:

- **Goodman GLXS3BN3610 Air Conditioner (Condenser):** The outdoor unit responsible for heat exchange during cooling cycles.
- **Goodman GM9S801005CN Furnace:** The indoor unit providing heat and housing the blower for air circulation.
- **Goodman CAPTA3626C3 Coil:** The indoor evaporator coil, designed for upflow systems, which works with the condenser for cooling.



Figure 2: The Goodman GLXS3BN3610 outdoor condenser unit, featuring a durable design and pre-charged R-32 refrigerant.



Figure 3: The Goodman GM9S801005CN 80% AFUE furnace, designed for efficient heating and air circulation.



Figure 4: The Goodman CAPTA3626C3 upflow evaporator coil, constructed with corrosion-resistant aluminum for optimal heat transfer.

Pre-Installation Checks:

1. Verify that the system components match the order and site requirements.
2. Ensure adequate space and clearances for installation, maintenance, and airflow around all units.
3. Confirm electrical supply meets the system's voltage and amperage requirements (208 volts).

4. Check that the refrigerant lines are correctly sized and installed. The condenser is pre-charged for 15 feet of tubing.

Operating Instructions

This system is controlled by a compatible thermostat (not included). Refer to your thermostat's user manual for specific programming and operation details.

Basic Operation Modes:

- **Cooling Mode:** Set your thermostat to 'Cool' and select your desired temperature. The system will activate the outdoor condenser and indoor blower to cool your home.
- **Heating Mode:** Set your thermostat to 'Heat' and select your desired temperature. The furnace will ignite, and the indoor blower will distribute warm air.
- **Fan Only Mode:** This mode circulates air without heating or cooling. Useful for improving air circulation.
- **Auto Mode:** The thermostat automatically switches between heating and cooling to maintain the set temperature range.

Important Operating Notes:

- Allow the system to run for at least 15-20 minutes after changing settings to allow temperatures to stabilize.
- Avoid frequent changes to thermostat settings, as this can reduce efficiency and increase wear on the system.
- Ensure all supply and return air vents are unobstructed for proper airflow.

Maintenance

Regular maintenance is essential for the efficiency and longevity of your HVAC system. Some tasks can be performed by the homeowner, while others require a qualified technician.

User Maintenance:

- **Air Filter Replacement:** Check and replace the air filter monthly, or as recommended by the filter manufacturer. A dirty filter restricts airflow and reduces efficiency.
- **Clear Outdoor Unit:** Keep the area around the outdoor condenser unit free from debris, leaves, grass clippings, and other obstructions to ensure proper airflow.
- **Keep Indoor Unit Clear:** Ensure no items are blocking the furnace or coil access panels.

Professional Maintenance (Annually):

- Inspect and clean the evaporator and condenser coils.
- Check refrigerant levels and inspect for leaks.
- Inspect electrical connections and components.
- Lubricate moving parts as necessary.
- Check and clean the condensate drain.
- Inspect the furnace heat exchanger and burner assembly.
- Verify proper thermostat operation.

Troubleshooting

Before calling for service, review the following common issues and solutions:

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
System not turning on	Thermostat off or set incorrectly; Power outage; Blown fuse/tripped breaker	Check thermostat settings; Check circuit breaker/fuse box; Ensure power switch to furnace is on.
Insufficient cooling/heating	Dirty air filter; Blocked outdoor unit; Low refrigerant (cooling); Pilot light out (furnace)	Replace air filter; Clear obstructions from outdoor unit; Contact technician for refrigerant or pilot light issues.
Unusual noises	Loose parts; Debris in fan; Motor issues	Turn off system immediately and contact a qualified technician.
Water leakage	Clogged condensate drain; Frozen evaporator coil	Check and clear condensate drain; If coil is frozen, turn off AC and allow to thaw, then check airflow. Contact technician if problem persists.

If these steps do not resolve the issue, contact a qualified HVAC technician for diagnosis and repair.

Specifications

Detailed specifications for the Goodman 3 Ton 14 SEER2 Upflow AC System:

Feature	Specification
Brand	Goodman
System Capacity	3 Tons
Cooling Power	36,000 BTU
Seasonal Energy Efficiency Ratio (SEER2)	14
Furnace Annual Fuel Utilization Efficiency (AFUE)	80%
Furnace Heating BTU	100,000 BTU
Voltage	208 Volts
Refrigerant Type	R-32
Compressor Type	Rotary Scroll
System Type	Split System, Upflow
AHRI Certificate Number	215331397
Item Weight (Total)	319 pounds
Included Components	Goodman GLXS3BN3610 Air Conditioner, GM9S801005CN furnace, CAPTA3626C3 coil



Figure 5: EnergyGuide label for the Goodman GLXS3BN3610 Air Conditioner, showing a 13.40 SEER2 rating.

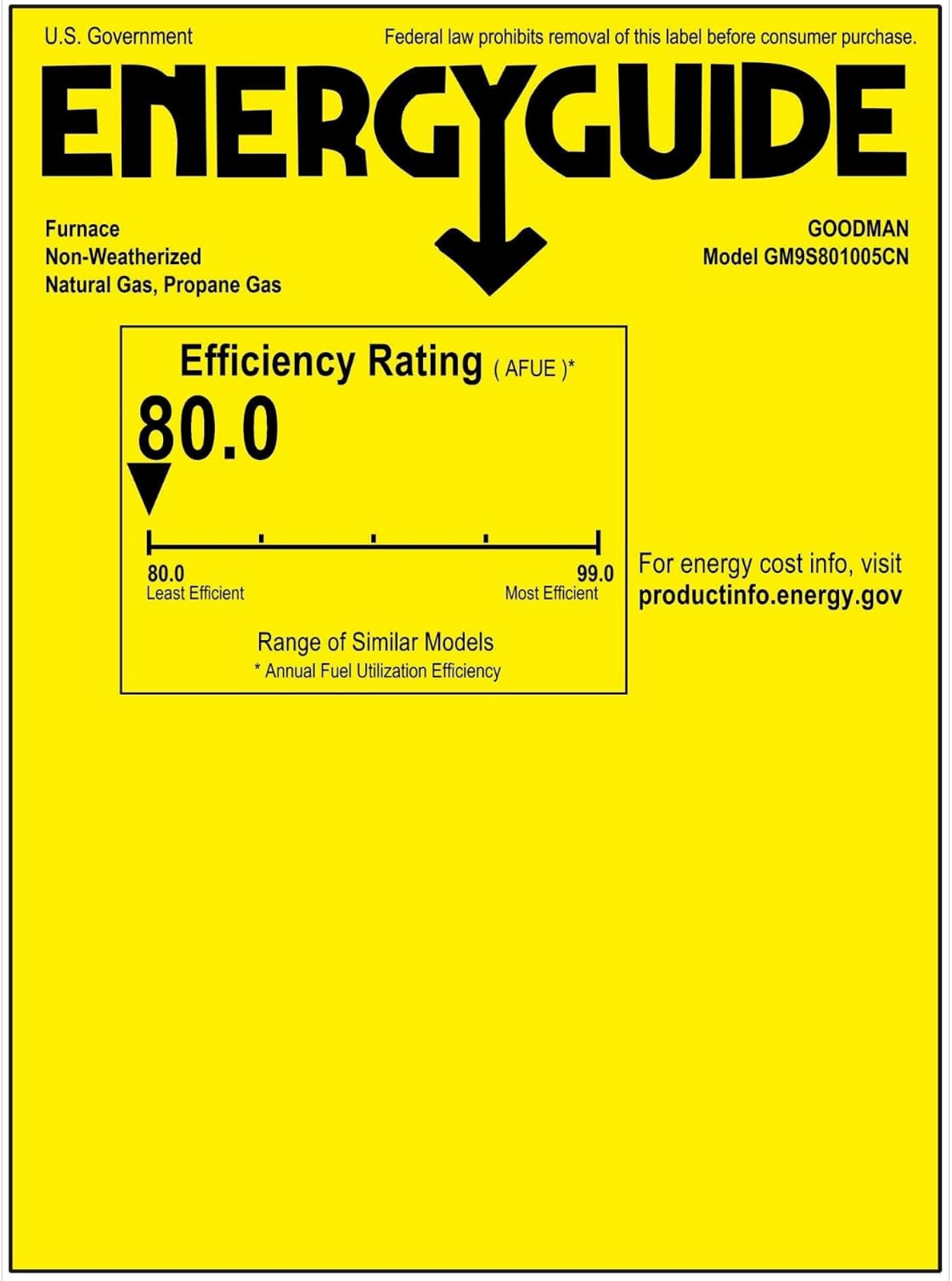


Figure 6: EnergyGuide label for the Goodman GM9S801005CN Furnace, indicating an 80.0 AFUE rating.

Warranty Information

This Goodman HVAC system comes with a **10-year parts limited warranty**. To qualify for the full warranty, the system must

be installed by a qualified installer and registered online within 60 days of installation. Online registration is not required in California.

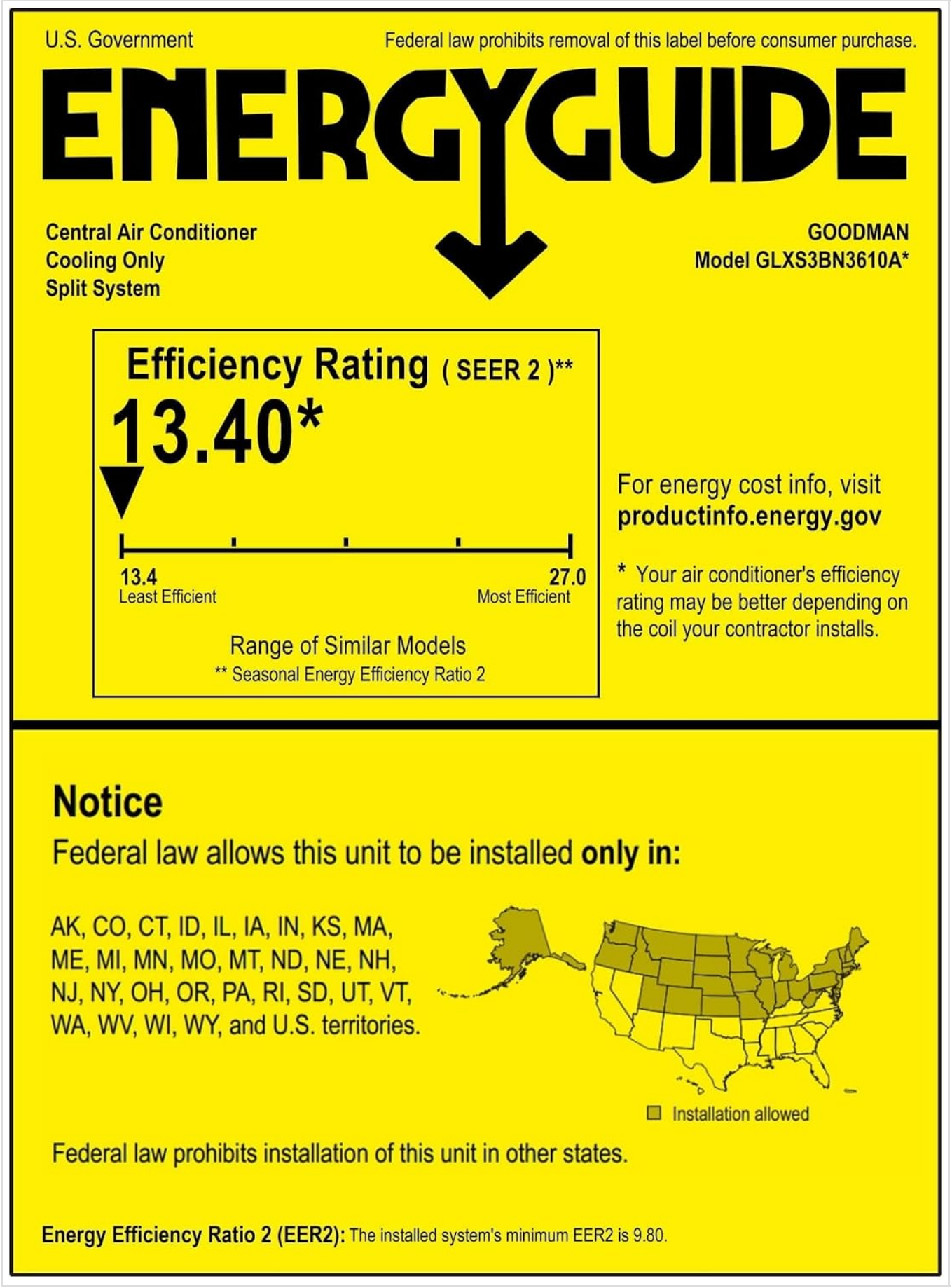


Figure 7: Goodman's 10-Year Limited Parts Warranty badge.

For complete warranty details, including terms, conditions, and exclusions, please refer to the official warranty document

provided with your product or contact Goodman directly.

Support and Contact Information

For technical assistance, warranty claims, or service inquiries, please contact your installing dealer or a qualified HVAC professional. You may also reach out to the seller for product-related questions.

Seller Information:

- **Seller Name:** Superior Home Supplies
- **Seller Link:** Superior Home Supplies on Amazon

Additional Resources:

- **Goodman Official Website:** Visit the official Goodman website for product documentation, FAQs, and dealer locators.
- **AHRI Directory:** Verify product certification at www.ahridirectory.org using certificate number 215331397.

Informational Videos

The following videos provide additional information regarding HVAC systems, SEER2 regulations, and R-32 refrigerant.

R-32 Fact vs Fiction

Your browser does not support the video tag.

Video Description: This video from Superior Home Supplies discusses facts and common misconceptions about R-32 refrigerant, highlighting its global usage and manufacturer adoption.

SEER2 Regulations

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Video Description: This video from Superior Home Supplies explains the SEER2 regulations, which impact the energy efficiency standards for HVAC systems.

What type of system do you have?

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Video Description: This video from Superior Home Supplies helps users identify the type of HVAC system they have, which is crucial for understanding its operation and maintenance.

Info about the refrigerant regulations

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Video Description: This video from Superior Home Supplies provides information on current refrigerant regulations, relevant to the R-32 refrigerant used in this system.

AC with Furnace Systems

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Video Description: This video from Superior Home Supplies offers a general overview of AC systems combined with furnaces, explaining their integrated function.

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