

[Manuals.plus](#) /

› [Goodman](#) /

› Goodman 5 TON 13.4 SEER2 Classic Series R-32 AC Condenser GLXS3BN6010 User Manual

Goodman GLXS3BN6010

Goodman 5 TON 13.4 SEER2 Classic Series R-32 AC Condenser GLXS3BN6010 User Manual

Model: GLXS3BN6010

1. PRODUCT OVERVIEW

The Goodman GLXS3BN6010 is a 5-ton, 13.4 SEER2 Classic Series AC condenser designed for residential and light commercial split-system air conditioning applications. This outdoor unit is engineered to operate exclusively with R-32 refrigerant, offering efficient cooling performance. It is part of a complete split-system and must be paired with a compatible indoor coil and furnace or air handler.



Figure 1: Goodman GLXS3BN6010 5-Ton AC Condenser. This image displays the exterior of the outdoor condenser unit, featuring its black casing and the Goodman logo.

2. SAFETY INFORMATION

WARNING: Installation and servicing of air conditioning equipment can be hazardous due to system pressure, electrical components, and sharp edges. Only qualified, trained, and experienced technicians should install, repair, or service this equipment. Failure to follow this warning could 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 refrigerants.
- This unit uses R-32 refrigerant. R-32 is a mildly flammable refrigerant. Follow all local and national codes for handling and installation of R-32 systems.

- Do not install this unit in states where it does not comply with federal regulations. Refer to the EnergyGuide label for restricted states.

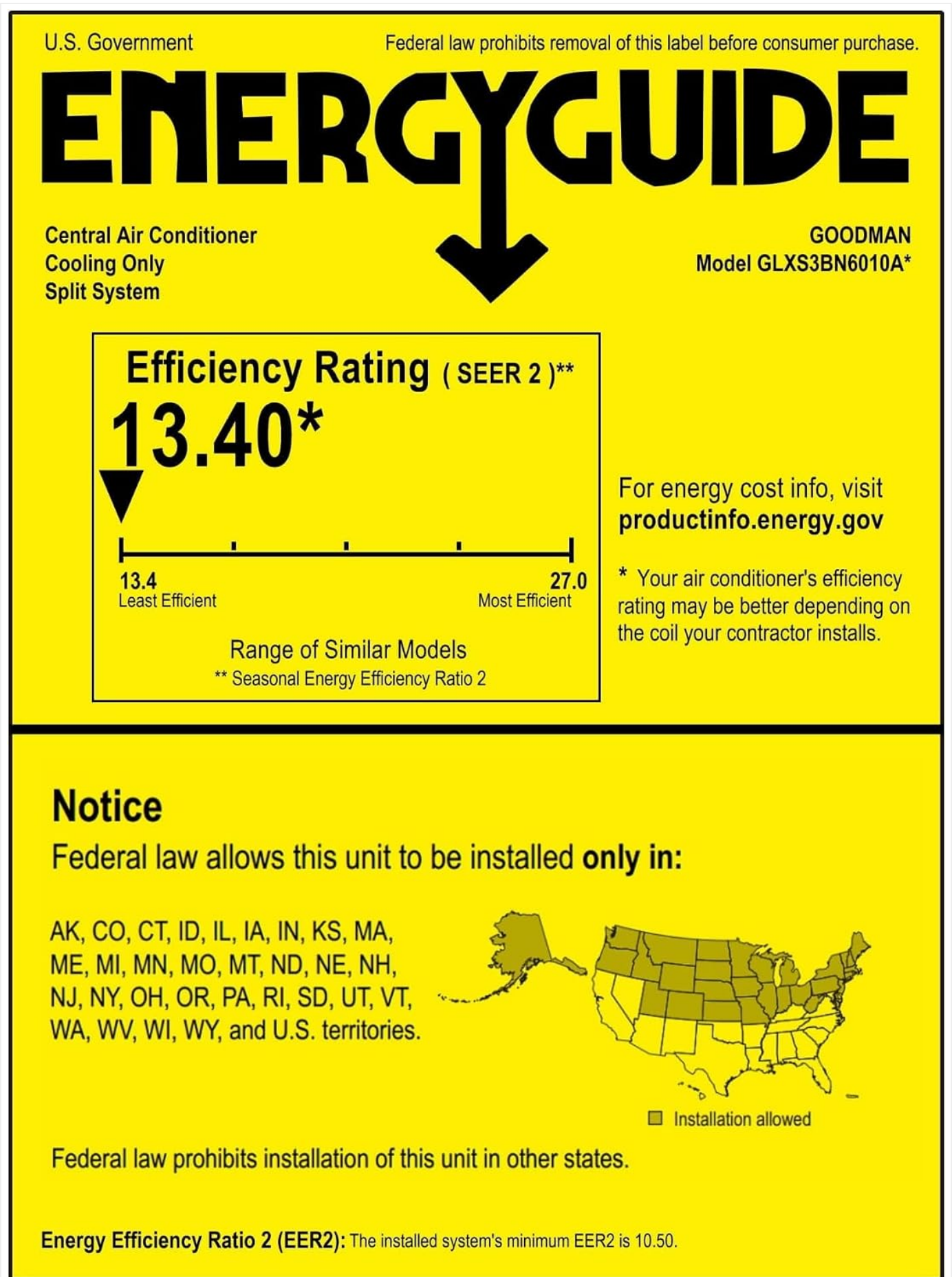


Figure 2: EnergyGuide Label. This label indicates the efficiency rating (13.40 SEER2) and lists states where installation is prohibited due to federal regulations. Prohibited states include AL, AR, AZ, CA, DE, FL, GA, KY, LA, MD, MS, NC, NM, NV, OK, SC, TN, TX, and VA.

3. SETUP AND INSTALLATION

Installation of the Goodman GLXS3BN6010 condenser requires professional expertise. This section provides a general overview; refer to the complete installation manual provided with the unit for detailed instructions.

3.1 Pre-Installation Checks

- Verify the unit model number (GLXS3BN6010) matches the order and system design.
- Ensure the indoor coil/air handler is compatible with a 5-ton R-32 AC condenser.
- Confirm the installation location complies with local building codes and provides adequate clearance for airflow and service access.
- Check for any shipping damage.

3.2 Site Preparation

- Prepare a level, stable pad for the outdoor unit.
- Ensure proper drainage away from the unit.
- Verify electrical supply meets the unit's requirements (voltage, amperage).

3.3 Connecting Refrigerant Lines

This unit requires a 3/8" liquid line and a 1 1/8" suction line. Use only copper refrigeration grade tubing. Ensure all connections are brazed correctly and leak-tested. Evacuate the system to a deep vacuum before charging with R-32 refrigerant.

3.4 Electrical Connections

Connect the power supply and control wiring according to the wiring diagram provided in the full installation manual. Ensure all electrical work is performed by a licensed electrician and complies with local electrical codes.

4. OPERATING INSTRUCTIONS

Once properly installed and charged, the Goodman GLXS3BN6010 condenser operates automatically in conjunction with your indoor thermostat and air handler/furnace.

4.1 Initial Startup

- After installation, ensure all service valves are open.
- Restore power to the indoor and outdoor units.
- Set your thermostat to "Cool" mode and adjust the temperature setting below the current room temperature to initiate a cooling cycle.
- Monitor the system for proper operation, including fan rotation and cooling performance.

4.2 Normal Operation

- The condenser will cycle on and off as needed to maintain the desired indoor temperature set on the thermostat.
- Ensure the area around the outdoor unit remains clear of obstructions (leaves, debris, snow) to allow for proper airflow.

5. MAINTENANCE

Regular maintenance is crucial for the efficient and long-lasting operation of your Goodman AC condenser. It is recommended to have a qualified HVAC technician perform annual professional maintenance.

5.1 User Maintenance (Monthly/Quarterly)

- **Clean Outdoor Coils:** Periodically inspect the outdoor coil fins for dirt, leaves, and debris. Gently clean with a soft brush or hose. Avoid bending the fins.
- **Clear Debris:** Keep the area around the outdoor unit free from grass clippings, leaves, shrubs, and other obstructions that can block airflow.
- **Check Indoor Air Filter:** Regularly inspect and replace or clean the indoor air filter as per the indoor unit's manual. A dirty filter restricts airflow and reduces efficiency.

5.2 Professional Maintenance (Annually)

- Check refrigerant levels and pressure.
- Inspect electrical connections and components.
- Clean and inspect the outdoor coil thoroughly.
- Check fan motor and blades for wear and proper operation.
- Inspect condensate drain for clogs.
- Verify proper thermostat operation.

6. TROUBLESHOOTING

Before calling for service, review the following common issues and their potential solutions. For complex problems, contact a qualified HVAC technician.

Problem	Possible Cause	Solution
Unit not cooling or insufficient cooling	Thermostat set incorrectly Dirty air filter (indoor unit) Blocked outdoor coil Low refrigerant charge Power supply issue	Set thermostat to "Cool" and desired temperature. Replace or clean air filter. Clean outdoor coil. Contact a qualified technician. Check circuit breaker/fuse.
Outdoor unit not running	No power to unit Thermostat not calling for cooling Safety switch tripped	Check circuit breaker. Ensure thermostat is set to "Cool" and temperature is low enough. Contact a qualified technician.
Unusual noises from unit	Loose parts or debris Fan motor issue Compressor issue	Inspect for and remove debris. Contact a qualified technician. Contact a qualified technician.

7. SPECIFICATIONS

Key technical specifications for the Goodman GLXS3BN6010 AC Condenser:



Figure 3: Product Specifications Overview. This graphic summarizes key features including Tonnage, Efficiency, Type, Dimensions, Weight, Lineset sizes, AHRI Certification, and R-32 refrigerant compatibility.

Feature	Specification
Model Number	GLXS3BN6010

Feature	Specification
Cooling Capacity	5 Tons
Efficiency Rating	13.4 SEER2
Refrigerant Type	R-32 (AC ONLY)
Dimensions (H x W x D)	39.5" x 35.5" x 35.5" (approximate)
Unit Weight	Approx. 229 lbs (Note: 74.8 lbs is also listed in product data, 229 lbs is typical for a 5-ton unit.)
Lineset Connections	Liquid: 3/8", Suction: 1 1/8"
Compressor Type	Single Stage (No Inverter)
Coil Material	Copper
Color	Black

8. WARRANTY AND SUPPORT

8.1 Warranty Information

The Goodman GLXS3BN6010 AC Condenser comes with a **10-Year Limited Parts Warranty**. This warranty covers defects in materials and workmanship under normal use and service. Registration of the product is typically required to activate the full warranty period. Please refer to the warranty certificate included with your unit for complete terms, conditions, and exclusions.



Figure 4: 10 Year Limited Warranty Shield. This emblem signifies the product's 10-year limited parts warranty.

8.2 Customer Support

For technical assistance, warranty claims, or to locate a qualified service technician, please contact Goodman customer support or visit the official Goodman website. Always have your model number (GLXS3BN6010) and serial number ready when contacting support.

Goodman Official Website: www.goodmanmfg.com

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

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

Submit question