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› [Goodman](#) /

› [Goodman 2.5 Ton 15.2 SEER2 Central Air Conditioner User Manual](#)

Goodman GLXS5BA3010

Goodman 2.5 Ton 15.2 SEER2 Central Air Conditioner

Model: GLXS5BA3010

INTRODUCTION

This manual provides essential information for the safe and efficient operation, installation, and maintenance of your Goodman 2.5 Ton 15.2 SEER2 Central Air Conditioner, Model GLXS5BA3010. This unit is designed for residential and light commercial applications, utilizing environmentally friendly R-32 refrigerant.

Please read this manual thoroughly before installation or operation to ensure proper use and to prevent damage to the unit or injury to personnel.

SAFETY INFORMATION

WARNING:

- Installation and servicing should only be performed by qualified, experienced technicians.
- Ensure all electrical connections comply with local and national electrical codes.
- Disconnect power before performing any maintenance or service.
- This unit contains R-32 refrigerant. Handle with care and follow all safety guidelines for refrigerants.
- Keep clear of moving parts, such as the fan, during operation.

CAUTION:

- Do not block airflow to the outdoor unit.
- Regularly inspect the unit for any signs of damage or wear.

SETUP AND INSTALLATION

The Goodman GLXS5BA3010 is a split-system air conditioner. Professional installation is required for proper setup and to ensure optimal performance and safety.

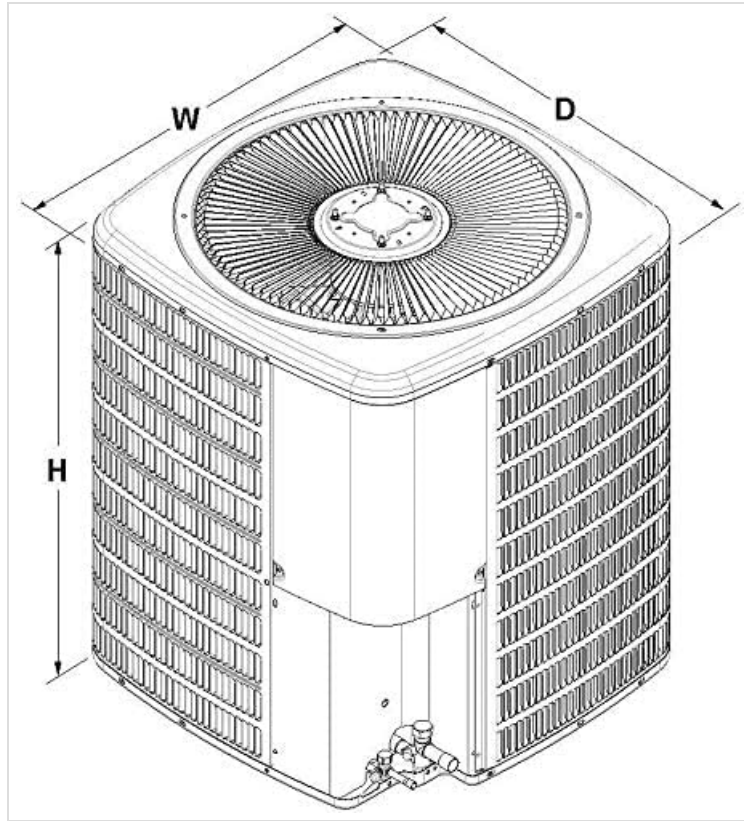
Pre-Installation Checks:

1. Verify the unit's capacity (2.5 Tons) matches the cooling requirements of the space.
2. Ensure adequate space for installation and maintenance around the outdoor unit.

3. Confirm power supply specifications meet the unit's requirements.

Outdoor Unit Placement:

Place the outdoor unit on a level, stable surface, ensuring proper drainage and clearance from walls or other obstructions. Refer to the dimensional drawing for space requirements.



This diagram illustrates the dimensions of the Goodman Central Air Conditioner outdoor unit, with labels for Height (H), Width (W), and Depth (D). It provides a clear view of the unit's cubic shape and top fan.

Refrigerant and Electrical Connections:

The unit uses R-32 refrigerant. All refrigerant lines and electrical wiring must be connected by a certified HVAC technician according to local codes and manufacturer guidelines.

OPERATING INSTRUCTIONS

Once installed, your Goodman air conditioner is controlled via an indoor thermostat (not included with the outdoor unit). Ensure the thermostat is properly wired and configured.

Basic Operation:

1. **Power On:** Ensure the main power disconnect switch for the outdoor unit is in the "ON" position.
2. **Thermostat Settings:** Set your indoor thermostat to "COOL" mode.
3. **Temperature Adjustment:** Adjust the desired temperature setting on your thermostat. The unit will cycle on and off to maintain this temperature.
4. **Fan Settings:** Use the fan setting on your thermostat (e.g., "AUTO" for fan to run only when cooling, "ON" for continuous fan operation).



This image shows the Goodman 2.5 Ton Central Air Conditioner outdoor unit, featuring a dark gray casing with a red Goodman logo on the front grille. The top has a fan visible through a protective grate.

MAINTENANCE

Regular maintenance ensures the longevity and efficiency of your air conditioning unit. It is recommended to have a professional HVAC technician perform annual inspections and tune-ups.

User Maintenance:

- **Clean Outdoor Unit:** Periodically clear away leaves, dirt, and debris from around the outdoor unit to ensure proper airflow.
- **Check Indoor Air Filter:** Regularly inspect and replace or clean the air filter in your indoor air handler/furnace according to its manufacturer's recommendations. A dirty filter restricts airflow and reduces efficiency.

- **Keep Coils Clean:** Ensure the outdoor coil fins are free from obstructions. If they appear dirty, a gentle rinse with a garden hose may be sufficient. For deeper cleaning, consult a professional.

Professional Maintenance (Recommended Annually):

- Refrigerant level check and adjustment.
- Electrical connection inspection and tightening.
- Coil cleaning (indoor and outdoor).
- Drainage system inspection.
- Fan motor and blade inspection.

TROUBLESHOOTING

Before calling for service, check the following common issues:

Problem	Possible Cause	Solution
Unit not turning on	No power; Thermostat setting incorrect; Blown fuse/tripped breaker.	Check power switch; Verify thermostat is set to COOL and desired temperature; Reset breaker/check fuse.
Insufficient cooling	Dirty air filter; Blocked outdoor unit; Low refrigerant.	Replace/clean air filter; Clear debris from outdoor unit; Contact technician for refrigerant check.
Unusual noises	Loose parts; Debris in fan; Motor issues.	Turn off unit and inspect for loose items; Contact technician if noise persists.

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

SPECIFICATIONS

Brand	Goodman
Model Number	GLXS5BA3010
Capacity	2.5 Tons (30,000 BTU)
SEER2 Rating	15.2
Refrigerant Type	R-32 (Environmentally Friendly)
Installation Type	Split System
Item Weight	214 pounds
Product Dimensions (D x W x H)	35.5 x 35.5 x 39.5 inches
Color	Black
Power Source	Corded Electric

WARRANTY AND SUPPORT

For specific warranty details, please refer to the warranty card included with your product or visit the official Goodman

website. Warranty coverage typically requires professional installation and regular maintenance.

For technical support, service inquiries, or to locate an authorized Goodman dealer, please visit the Goodman official website or contact their customer service department. You can often find support resources and FAQs online.

Note: This manual provides general guidance. Always refer to the latest official documentation from Goodman for the most accurate and up-to-date information.