



Manuals.plus /

› Goodman /

› Goodman GLXS5BA2410 2 Ton AC Condenser User Manual

## Goodman GLXS5BA2410

# Goodman GLXS5BA2410 2 Ton AC Condenser User Manual

Model: GLXS5BA2410

## INTRODUCTION

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This manual provides essential information for the proper installation, operation, and maintenance of your Goodman GLXS5BA2410 2 Ton AC Condenser. Please read all instructions carefully before proceeding with installation or use. Retain this manual for future reference.

This unit is a single-speed, 15.2 SEER2 outdoor air conditioning condenser designed for residential and light commercial applications. It uses R-32 refrigerant.

## SAFETY INFORMATION

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**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 personnel 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).

## PRODUCT OVERVIEW

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The Goodman GLXS5BA2410 is an outdoor condensing unit that works in conjunction with an indoor coil and furnace or air handler to provide cooling for your home or business. Key features include:

- 2 Ton Nominal Capacity
- 15.2 SEER2 Energy Efficiency Rating
- Uses R-32 Refrigerant
- Single-Speed Compressor
- Durable Cabinet Construction



**Image 1:** Goodman GLXS5BA2410 2 Ton AC Condenser. This image displays the exterior of the condenser unit, highlighting its compact design and the Goodman branding. Dimensions are indicated as 29 inches deep, 29 inches wide, and 32 inches high.

## SETUP AND INSTALLATION

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### Pre-Installation Checklist

- Verify unit model and specifications match the order.
- Ensure proper electrical supply (208/230 V, 1 Phase, 60 Hz).
- Confirm adequate space for installation and maintenance clearances.
- Gather all necessary tools and safety equipment.

## Location Requirements

The outdoor unit should be installed on a level pad, away from obstructions that could impede airflow. Maintain minimum clearances as specified in local codes and the full installation guide (not included in this manual). Ensure proper drainage away from the unit.

## Electrical Connections

All electrical wiring must comply with national and local electrical codes. A dedicated circuit breaker and disconnect switch are required. Refer to the wiring diagram located inside the unit's control panel for specific connections.

## Refrigerant Piping

Connect the liquid and suction lines between the outdoor unit and the indoor coil. Ensure proper sizing, insulation, and brazing techniques to prevent leaks. The system must be evacuated and charged with R-32 refrigerant by a qualified technician.

## OPERATING INSTRUCTIONS

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### Initial Startup

1. Ensure all electrical and refrigerant connections are secure and leak-free.
2. Open all service valves.
3. Restore power to the unit at the disconnect switch and circuit breaker.
4. Set the thermostat to cooling mode and a temperature below the ambient room temperature.
5. Observe the unit's operation for proper cooling and listen for unusual noises.

### Normal Operation

The unit will cycle on and off as needed to maintain the desired temperature set on your indoor thermostat. During operation, the outdoor fan will run, and cool air will be distributed through your indoor system.

### Thermostat Settings

Refer to your thermostat's user manual for specific programming and operation instructions. For optimal efficiency, avoid frequent and drastic temperature changes.

## MAINTENANCE

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

### User Maintenance (Monthly/Seasonally)

- **Clean or Replace Air Filters:** Check and clean or replace the indoor air filter monthly, or more frequently if needed. A dirty filter restricts airflow and reduces efficiency.
- **Clear Outdoor Unit:** Keep the area around the outdoor condenser free of leaves, grass clippings, dirt, and other debris. Ensure at least 24 inches of clearance on all sides and above the unit for proper airflow.
- **Inspect Condenser Coils:** Visually inspect the outdoor coils for dirt and debris. If dirty, gently clean with a soft brush or hose. Avoid high-pressure washing which can damage fins.

### Professional Maintenance (Annually)

An HVAC technician should perform a comprehensive check-up, including:

- Checking refrigerant levels and pressure.
- Cleaning evaporator and condenser coils.
- Inspecting electrical connections and components.
- Lubricating moving parts (if applicable).
- Checking condensate drain for clogs.
- Verifying proper thermostat operation.

## TROUBLESHOOTING

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

Problem	Possible Cause	Solution
Unit not cooling	Thermostat set incorrectly Power supply off Dirty air filter Low refrigerant	Check thermostat settings Check circuit breaker/disconnect Clean/replace air filter Contact technician for leak check and recharge
Unit not turning on	No power Thermostat issue Safety switch tripped	Check power supply Verify thermostat is set to cool Contact technician
Loud noises from outdoor unit	Loose fan blades Debris in fan Compressor issue	Turn off power and inspect for debris Contact technician

## SPECIFICATIONS

Feature	Specification
Brand	Goodman
Model Number	GLXS5BA2410 (replaces GSX160241)
Nominal Capacity	2 Tons
Cooling Power	24,000 BTU
SEER2 Rating	15.2
Refrigerant Type	R-32
Voltage	208/230 Volts, 1 Phase, 60 Hz
Product Dimensions (D x W x H)	29" x 29" x 32"
Item Weight	160 Pounds
Installation Type	Split System
UPC	663051561199

## WARRANTY INFORMATION

Goodman offers comprehensive warranty coverage for this unit. To activate and ensure full coverage, product registration is required.

- **10-Year Parts Limited Warranty:** Covers replacement part(s) for any part found defective due to workmanship or materials under normal use and maintenance.
- **10-Year Unit Replacement Limited Warranty:** Specific conditions apply; refer to the full warranty document.
- **Lifetime Compressor Limited Warranty:** Specific conditions apply; refer to the full warranty document.

For complete details and to register your product, please visit the official Goodman website or consult the warranty certificate included with your purchase.

## SUPPORT AND CONTACT

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For technical assistance, service, or warranty claims, please contact your installing dealer or a qualified HVAC professional. You can also find more information on the Goodman website.

**Goodman Official Website:** [www.goodmanmfg.com](http://www.goodmanmfg.com)

## INFORMATIONAL VIDEOS

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### R-32 Fact vs Fiction

Your browser does not support the video tag.

**Video 1:** This video, titled "R-32 Fact vs Fiction" by Superior Home Supplies, provides information regarding R-32 refrigerant. It clarifies common misconceptions and presents facts about its usage and prevalence in HVAC systems worldwide. The video is 30 seconds long.

