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› [Goodman 2 Ton 14.3 SEER2 R-32 AC Condenser \(GLXS4BA2410\) Instruction Manual](#)

### Goodman GLXS4BA2410

# Goodman 2 Ton 14.3 SEER2 R-32 AC Condenser (GLXS4BA2410) Instruction Manual

Model: GLXS4BA2410 | Brand: Goodman

## 1. INTRODUCTION

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This instruction manual provides essential information for the safe and efficient operation, installation, and maintenance of your Goodman 2 Ton 14.3 SEER2 R-32 AC Condenser, model GLXS4BA2410. Please read this manual thoroughly before attempting any installation, operation, or maintenance procedures. Proper installation and regular maintenance are crucial for optimal performance and longevity of the unit.



Image: The Goodman 2 Ton 14.3 SEER2 R-32 AC Condenser outdoor unit, featuring a dark gray casing with a red Goodman logo and a top-mounted fan.

## 2. SAFETY INFORMATION

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**WARNING:** Improper installation, adjustment, alteration, service, or maintenance can cause property damage, personal injury, or loss of life. Installation and service must be performed by a qualified installer or service agency. This unit contains R-32 refrigerant, which requires specific handling procedures. Only certified technicians should handle R-32 refrigerant.

- Always disconnect power to the unit before performing any service or maintenance.
- Wear appropriate personal protective equipment (PPE) including gloves and eye protection.
- Ensure proper grounding of the unit to prevent electrical shock.
- Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.
- Keep the area around the outdoor unit clear of debris and obstructions.

### 3. PRODUCT OVERVIEW

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The Goodman GLXS4BA2410 is a high-efficiency 2-ton air conditioning condenser designed for residential split systems. It utilizes R-32 refrigerant, known for its lower environmental impact and improved efficiency. This unit is built for reliable cooling performance and is AHRI certified.

#### Key Features:

- **Capacity:** 2 Tons
- **Efficiency:** 14.3 SEER2
- **Refrigerant:** R-32
- **Installation Type:** Split System
- **Voltage:** 230 Volts
- **AHRI Certified:** Ensures performance and efficiency standards are met.

# Goodman GLXS4BA2410



Tonnage

2

Efficiency

14.3 SEER2

Type

AC Only

Dimensions

26 x 26 x 27

Weight

117

Lineset

3/8" x 3/4"

**AHRI** CERTIFIED®  
www.ahridirectory.org

**10** PARTS  
YEAR LIMITED  
WARRANTY\*

**R32**

Image: A Goodman GLXS4BA2410 AC Condenser with an overlay highlighting its key specifications: 2 Ton capacity, 14.3 SEER2 efficiency, AC Only type, 26x26x27 inch dimensions, 117 lb weight, and 3/8" x 3/4" lineset. It also shows AHRI certification and a 10-year limited parts warranty.

U.S. Government

Federal law prohibits removal of this label before consumer purchase.

# ENERGYGUIDE

Central Air Conditioner  
Cooling Only  
Split System

GOODMAN  
Model GLXS4BA2410A\*



For energy cost info, visit  
[productinfo.energy.gov](http://productinfo.energy.gov)

\* Your air conditioner's efficiency rating may be better depending on the coil your contractor installs.

## Notice

Federal law allow this unit to be installed in all U.S. states and territories.

**Energy Efficiency Ratio 2 (EER2):** The installed system's minimum EER2 is 11.70.

Image: The U.S. Government EnergyGuide label for the Goodman Model GLXS4BA2410A Central Air Conditioner (Cooling Only, Split System), showing an efficiency rating of 14.30 SEER2.

## 4. SETUP AND INSTALLATION

**IMPORTANT:** Installation of this Goodman AC Condenser must be performed by a qualified HVAC professional. Attempting to install this unit without proper training, tools, and certification can lead to serious injury, property damage, and void the product warranty. This section provides general information and is not a substitute for professional installation guidelines.

## General Installation Considerations:

- **Location:** The outdoor unit should be placed on a level, stable surface, away from obstructions that could impede airflow. Ensure adequate clearance around the unit for proper operation and maintenance.
- **Electrical Connections:** All electrical wiring must comply with local and national electrical codes. The unit requires a 230 Volt power supply.
- **Refrigerant Lines:** Proper sizing and installation of refrigerant lines are critical for system efficiency and performance. This unit uses R-32 refrigerant.
- **Drainage:** Ensure proper condensate drainage from the indoor coil.



Image: A close-up view of the refrigerant line connections on the side of a Goodman AC Condenser, showing the service valves and access ports.



Image: An internal view of a Goodman AC Condenser, showing the compressor, fan motor, and copper coils, illustrating the complex internal structure.

## 5. OPERATING INSTRUCTIONS

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Once installed by a qualified technician, your Goodman AC Condenser operates in conjunction with your indoor air handler and thermostat to provide cooling. The operation is typically managed through your home's thermostat.

### Basic Operation:

1. **Power On:** Ensure the main power switch to the outdoor unit and indoor air handler is in the "ON" position.
2. **Thermostat Settings:**
  - Set your thermostat to "COOL" mode.

- Adjust the desired temperature setting. The unit will activate when the indoor temperature rises above your set point.
  - Set the fan to "AUTO" for normal operation, or "ON" for continuous fan circulation.
3. **Initial Startup:** During the first few hours of operation, the unit may run continuously to bring your home to the desired temperature. This is normal.

For detailed instructions on your specific thermostat model, refer to its user manual.

## 6. MAINTENANCE

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Regular maintenance is essential to ensure the efficiency and longevity of your AC system. While some tasks can be performed by the homeowner, annual professional servicing is highly recommended.

### Homeowner Maintenance:

- **Clean Outdoor Unit:** Periodically clear away leaves, grass clippings, and other debris from around the outdoor condenser unit. Ensure the coils are free from obstructions.
- **Check Air Filter:** Regularly inspect and replace or clean the air filter in your indoor air handler. A dirty filter restricts airflow and reduces efficiency.
- **Keep Clearances:** Maintain at least 24 inches of clearance around the outdoor unit for proper airflow.

### Professional Maintenance (Recommended Annually):

- Inspect and clean condenser coils.
- Check refrigerant levels and pressure.
- Inspect electrical connections and components.
- Lubricate moving parts as necessary.
- Check and clean the condensate drain.
- Verify proper thermostat operation.

## 7. TROUBLESHOOTING

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Before calling for service, review the following common issues. Many problems can be resolved with simple checks.

Problem	Possible Cause	Solution
Unit not cooling	Thermostat set incorrectly, dirty air filter, tripped circuit breaker, outdoor unit obstructed.	Check thermostat settings, replace/clean filter, reset breaker, clear obstructions around unit.
No power to unit	Tripped circuit breaker, disconnected power switch.	Check and reset circuit breaker, ensure power switch is ON.
Unit runs constantly	Thermostat set too low, undersized unit, refrigerant leak.	Adjust thermostat, consult a professional for system sizing or leak detection.
Unusual noises	Loose parts, fan motor issues, compressor problems.	Turn off unit and call a qualified technician.

If these steps do not resolve the issue, or if you suspect a refrigerant leak or electrical problem, contact a qualified HVAC service technician immediately.

## 8. SPECIFICATIONS

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Feature	Detail
Brand	Goodman
Model Number	GLXS4BA2410
Capacity	2 Tons (24,000 BTU)
Seasonal Energy Efficiency Ratio (SEER)	14.3 SEER2
Refrigerant Type	R-32
Voltage	230 Volts
Product Dimensions (D x W x H)	26" x 26" x 27.5"
Item Weight	175 pounds
Installation Type	Split System

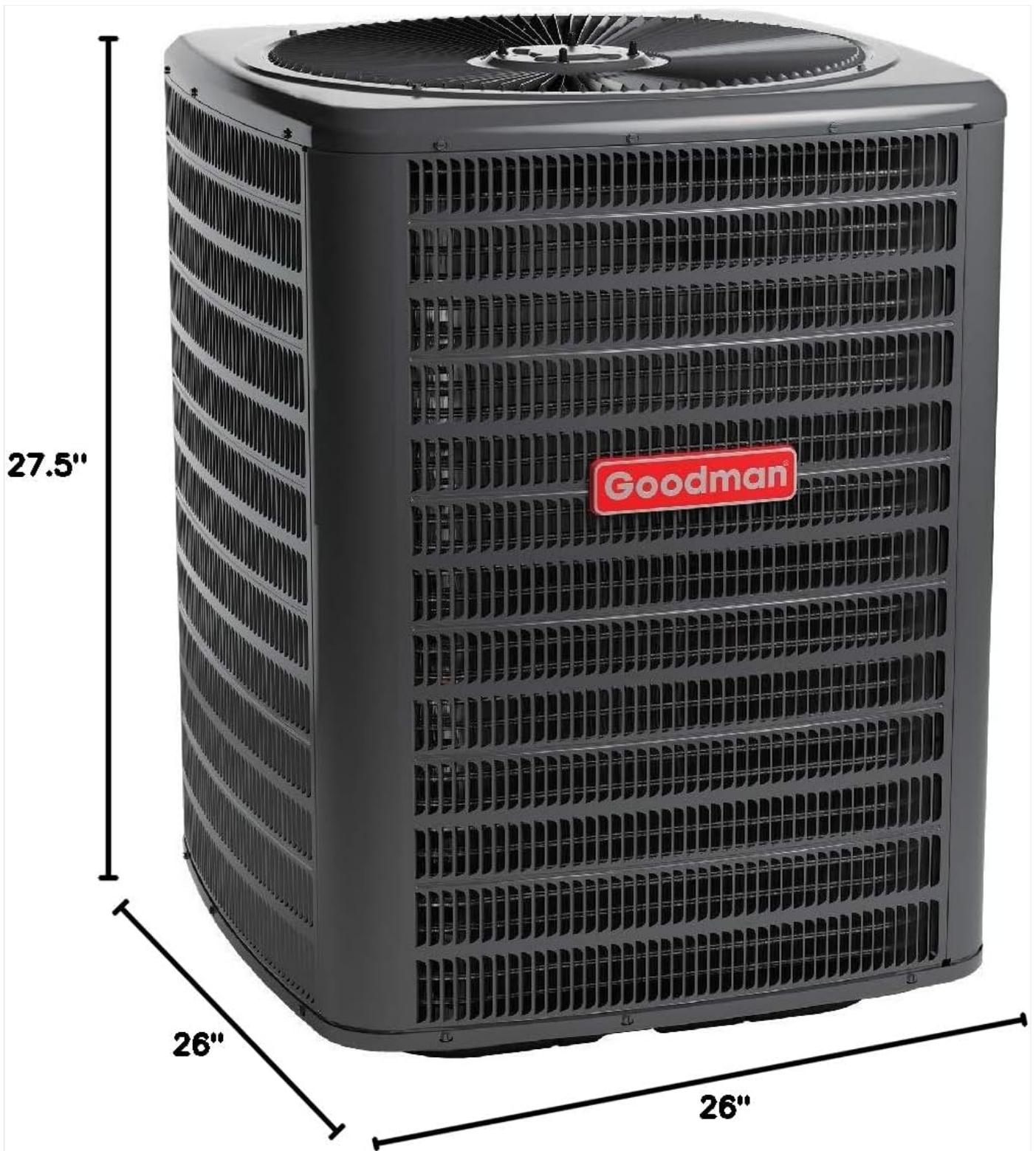


Image: A Goodman AC Condenser with dimension labels indicating its width and depth as 26 inches and height as 27.5 inches.

## 9. WARRANTY AND SUPPORT

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This Goodman AC Condenser comes with a **10-Year Limited Warranty** on parts. For specific warranty terms and conditions, please refer to the warranty documentation provided with your unit or contact Goodman customer support. Keep your proof of purchase for warranty claims.



Image: A silver shield with "10 YEAR" prominently displayed, and a blue ribbon below it stating "LIMITED WARRANTY".

## Customer Support:

For technical assistance, warranty claims, or to locate a qualified service professional, please contact Goodman customer support or your authorized dealer. Do not attempt to repair the unit yourself, as this may void the warranty and pose safety risks.

## 10. ADDITIONAL RESOURCES

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### Understanding HVAC Systems:

#### Should You Buy a Heat Pump or Straight Cool Air Conditioner?

Your browser does not support the video tag.

Video: This video from Superior Home Supplies explains the differences between a heat pump and a straight cool air conditioner, helping you understand which system might be more suitable for your needs. It illustrates how a heat pump can reverse its cycle for heating.

#### R-32 Fact vs Fiction

Your browser does not support the video tag.

Video: A short informational video from Superior Home Supplies addressing common misconceptions and facts about R-32 refrigerant, which is used in this Goodman AC Condenser.

