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## Goodman GLZS4BA6010

# Goodman GLZS4BA6010 5 Ton 14.4 SEER2 R32 Heat Pump Condenser Instruction Manual

Model: GLZS4BA6010 | Brand: Goodman

## 1. INTRODUCTION

This manual provides essential information for the safe and efficient operation, installation, and maintenance of your Goodman GLZS4BA6010 5 Ton 14.4 SEER2 R32 Heat Pump Condenser. A heat pump is an appliance that uses electricity to move heat from one place to another, providing both heating and cooling for a building. In winter, it extracts heat from outside and moves it inside. In summer, it moves heat from indoors to the outside. Please read this manual thoroughly before attempting any procedures.

  
**Video 1: Heat Pumps in Focus.** This video provides a general overview of how heat pumps operate, explaining their function in both heating and cooling modes.

## 2. KEY FEATURES

- Energy-efficient compressor for reduced power consumption.
- Factory-installed filter drier to absorb moisture and filter contaminants.
- Copper tube/aluminum fin coil for efficient heat transfer.
- Service valves with sweat connections and easy-access gauge ports for convenient servicing.
- Contactor with lug connection for secure wiring.
- Ground lug connection for safety.
- AHRI Certified; ETL Listed, ensuring performance and safety standards.



**Image 1: Goodman GLZS4BA6010 Heat Pump Condenser.** This image displays the outdoor unit of the heat pump system, highlighting its compact design and louvered coil guards.

### 3. SPECIFICATIONS

Specification	Value
Model Name	GLZS4BA6010
Brand	Goodman
Capacity	5 Tons
Seasonal Energy Efficiency Ratio (SEER)	14.4 SEER2
Refrigerant	R-32
Product Dimensions	35.5"D x 35.5"W x 41.75"H
Installation Type	Split System
Form Factor	Mini-Split
Power Source	Corded Electric
Material Type	ABS
Certification	Energy Star

### 4. REFRIGERANT INFORMATION: R-32

The Goodman GLZS4BA6010 utilizes R-32 refrigerant, a modern and environmentally conscious choice for air conditioning systems. R-32 is known for its higher energy efficiency compared to older refrigerants like R-410A, potentially leading to lower electricity bills. Furthermore, R-32 has a significantly lower Global Warming Potential (GWP) of 675, compared to R-

410A's GWP of 2,088. This makes R-32 a greener option, aligning with global initiatives to protect the ozone layer and reduce climate change. Choosing an R-32 system contributes to a more sustainable future.

[REDACTED]

**Video 2: Why R-32 Refrigerant is the Future of Air Conditioning?** This video explains the environmental and efficiency benefits of R-32 refrigerant, highlighting its role in modern HVAC systems.

## 5. SETUP AND INSTALLATION

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Installation of the Goodman GLZS4BA6010 heat pump condenser must be performed by a qualified HVAC technician. Improper installation can lead to inefficient operation, system damage, and safety hazards. Ensure the unit is placed on a level surface with adequate clearance for airflow and maintenance. All electrical and refrigerant line connections must comply with local codes and manufacturer specifications.

- **Site Selection:** Choose a location that allows for proper airflow, drainage, and accessibility for service. Avoid areas prone to excessive debris or direct sunlight.
- **Mounting:** Securely mount the outdoor unit on a stable, level pad to minimize vibration and noise.
- **Electrical Connections:** All wiring must be done by a licensed electrician, adhering to the unit's electrical requirements and local codes.
- **Refrigerant Lines:** Connect the refrigerant lines carefully, ensuring proper sizing and insulation to prevent leaks and maximize efficiency.
- **System Start-up:** A professional technician will perform a vacuum test, charge the system with R-32 refrigerant, and conduct a test run to ensure correct operation.

## 6. OPERATING INSTRUCTIONS

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Once installed by a professional, your Goodman heat pump condenser operates automatically based on your thermostat settings. Familiarize yourself with your thermostat to control heating, cooling, and fan modes effectively.

- **Mode Selection:** Use your thermostat to switch between heating, cooling, and fan-only modes.
- **Temperature Setting:** Set your desired temperature. The system will work to maintain this temperature.
- **Fan Operation:** Choose between "Auto" (fan runs only when heating/cooling) or "On" (fan runs continuously).
- **Defrost Cycle:** The unit features SmartShift® technology for quiet and reliable defrosting during colder temperatures. This is an automatic process.

## 7. MAINTENANCE

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Regular maintenance is crucial for the longevity and efficiency of your heat pump. While some tasks can be performed by the homeowner, annual professional servicing is highly recommended.

### 7.1. Homeowner Maintenance

- **Clean Outdoor Unit:** Keep the area around the outdoor condenser unit clear of debris, leaves, and vegetation to ensure proper airflow.
- **Clean Coils:** Periodically rinse the outdoor coil with a garden hose to remove dirt and grime.
- **Check Air Filters:** Regularly inspect and replace or clean your indoor unit's air filters as recommended by the manufacturer (typically every 1-3 months).

### 7.2. Professional Maintenance (Annual)

- Thorough cleaning of coils, fan blades, and internal components.
- Inspection of electrical connections and components.

- Checking refrigerant levels and pressure.
- Lubrication of moving parts.
- Verification of thermostat accuracy and system operation.

## 8. TROUBLESHOOTING

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Before calling for service, check these common issues:

Problem	Possible Cause	Solution
Unit not turning on	Power outage, tripped breaker, thermostat off/incorrect setting.	Check circuit breaker, ensure thermostat is set to desired mode and temperature.
Insufficient heating/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, compressor issues.	Turn off unit and inspect for loose debris. If noise persists, contact a technician.
Unit constantly running	Thermostat setting too low/high, undersized unit, refrigerant leak.	Adjust thermostat, ensure proper insulation, contact technician for inspection.

For any issues not resolved by these steps, or for complex problems, contact a certified HVAC technician.

## 9. WARRANTY AND SUPPORT

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The Goodman GLZS4BA6010 Heat Pump Condenser is backed by a **10 Year Parts Limited Warranty**. For specific warranty details, including terms and conditions, please refer to the warranty documentation provided with your unit or contact Goodman customer support. This unit is also AHRI Certified and ETL Listed, ensuring it meets industry performance and safety standards.

For technical support, service inquiries, or warranty claims, please contact your authorized Goodman dealer or visit the official Goodman website.