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> Goodman 3 Ton 15.2 SEER2 R32 Air Conditioner Condenser & Thermostat User Manual

Goodman GLXS4BA3610,PRS3110

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Model: GLXS4BA3610, PRS3110

INTRODUCTION

This manual provides essential information for the safe and efficient operation, installation, and maintenance of your Goodman 3 Ton 15.2 SEER2 R32 Air Conditioner Condenser and Thermostat. This system is designed for optimal cooling performance and energy efficiency, utilizing the environmentally friendly R-32 refrigerant.



Figure 1: Goodman 3 Ton Air Conditioner Condenser Unit (Model GLXS4BA3610)

Key features of your system include an energy-efficient compressor, a factory-installed filter drier, and a durable copper tube with aluminum fin coil. A compatible thermostat is also included for convenient control.

Understanding R-32 Refrigerant

The R-32 refrigerant used in this system is a significant advancement in air conditioning technology. It offers enhanced energy efficiency and a substantially lower Global Warming Potential (GWP) compared to older refrigerants like R-410A. This contributes to reduced energy consumption and a smaller environmental footprint.

Your browser does not support the video tag.

Video 1: Explanation of R-32 Refrigerant Benefits. This video highlights why R-32 refrigerant is a more energy-efficient and environmentally friendly choice for air conditioning systems, offering both cost savings and reduced global warming impact.

SETUP AND INSTALLATION

Important: Installation of this air conditioning system requires specialized knowledge and tools. It is highly recommended that installation be performed by a qualified HVAC professional to ensure proper function, safety, and compliance with local codes and regulations.

Pre-Installation Checks

- Verify that the electrical supply matches the unit's requirements.
- Ensure the installation site for the outdoor condenser unit is level, has adequate clearance for airflow, and is free from obstructions.
- Confirm that all components (condenser, indoor coil, thermostat, line set) are present and undamaged.

Professional Installation Steps (Overview)

1. Mounting the outdoor condenser unit on a stable, level pad.
2. Installing the indoor evaporator coil (typically in an attic or closet).
3. Connecting the refrigerant line set between the indoor and outdoor units.
4. Performing vacuum and leak tests on the refrigerant lines.
5. Connecting electrical wiring to both units and the thermostat, ensuring proper grounding.
6. Charging the system with the correct amount of R-32 refrigerant.
7. Testing the system for proper operation and airflow.

OPERATING INSTRUCTIONS

Your Goodman air conditioning system is controlled via the included thermostat. Familiarize yourself with your specific thermostat model's user guide for detailed programming and feature instructions.

Basic Operation

- **Power On/Off:** Use the system switch on your thermostat to turn the system ON or OFF.
- **Mode Selection:** Select "COOL" for air conditioning. Other modes like "HEAT" (if applicable to your indoor unit), "FAN", or "AUTO" may be available.
- **Temperature Setting:** Adjust the desired temperature using the up/down arrows or controls on your thermostat. The system will automatically cycle on and off to maintain this temperature.
- **Fan Operation:** Set the fan to "AUTO" for normal operation (fan runs only when cooling) or "ON" for continuous fan operation.

Energy Saving Tips

- Set your thermostat to the highest comfortable temperature during cooling season.
- Use programmable features to set back temperatures when you are away or asleep.
- Keep windows and doors closed when the system is operating.
- Ensure proper insulation in your home to minimize heat gain.

MAINTENANCE

Regular maintenance is crucial for the longevity, efficiency, and optimal performance of your air conditioning system. Some tasks

can be performed by the homeowner, while others require a qualified technician.

Homeowner Maintenance

- **Air Filter Replacement:** Check your indoor air filter monthly and replace it every 1-3 months, or more frequently if you have pets or allergies. A dirty filter restricts airflow and reduces efficiency.
- **Outdoor Unit Cleaning:** Keep the area around the outdoor condenser unit clear of debris, leaves, and grass clippings. Gently rinse the outdoor coil fins with a garden hose to remove dirt buildup. **Ensure power to the unit is OFF before cleaning.**
- **Drain Line Check:** Periodically check the condensate drain line for clogs. A clogged drain can lead to water leaks and system shutdown.

Professional Maintenance (Recommended Annually)

An HVAC professional can perform comprehensive checks and maintenance, including:

- Checking refrigerant levels and pressure.
- Cleaning evaporator and condenser coils thoroughly.
- Inspecting electrical connections and components.
- Lubricating moving parts (if applicable).
- Checking and cleaning the condensate drain.
- Verifying thermostat calibration.
- Assessing overall system performance.

TROUBLESHOOTING

Before calling for service, review the following common issues and solutions. For complex problems or if these steps do not resolve the issue, contact a qualified HVAC technician.

Problem	Possible Cause	Solution
System not turning on	No power; Thermostat setting incorrect; Blown fuse/tripped breaker	Check thermostat mode and temperature setting; Check electrical panel and reset breaker if tripped.
Insufficient cooling	Dirty air filter; Blocked outdoor unit; Low refrigerant; Leaky ducts	Replace air filter; Clear debris from outdoor unit; Contact technician for refrigerant or duct issues.
Unit making unusual noises	Loose parts; Fan motor issues; Compressor problems	Turn off unit and contact a qualified technician immediately.
Water leaking from indoor unit	Clogged condensate drain line; Frozen evaporator coil	Check and clear drain line; Turn off system and allow coil to thaw, then check airflow. If problem persists, contact technician.

SPECIFICATIONS

Feature	Detail
Brand	Goodman
Model Info	GLXS4BA3610, PRS3110
Capacity	3 Tons
Cooling Power	36000 British Thermal Units
SEER2 Rating	15.2

Feature	Detail
Refrigerant Type	R-32
Product Dimensions	29"D x 29"W x 39.5"H
Installation Type	Split System
Material Type	Aluminum, Steel, Copper
Color	Architectural Gray
Special Feature	Fast Cooling
Certifications	AHRI Certified; ETL Listed

WARRANTY AND SUPPORT

For specific warranty details, please refer to the warranty documentation provided with your product at the time of purchase or contact the manufacturer directly. Warranty coverage typically varies by component and may require professional installation and annual maintenance to remain valid.

For technical support, service, or to schedule professional maintenance, please contact your authorized Goodman dealer or a certified HVAC technician.

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