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› Goodman 2.5 Ton 13.4 SEER2 R32 Air Conditioning Unit Instruction Manual

Goodman GLXS3BN3010

Goodman 2.5 Ton 13.4 SEER2 R32 Air Conditioning Unit

Model: GLXS3BN3010

PRODUCT OVERVIEW

This manual provides essential information for the safe and efficient operation, installation, and maintenance of your Goodman 2.5 Ton 13.4 SEER2 R32 Air Conditioning Unit, Model GLXS3BN3010. This unit is designed for optimal cooling performance and energy efficiency, utilizing the environmentally friendly R32 refrigerant.

Key features include:

- Fully charged for 15' of tubing length, simplifying initial setup.
- SmartShift technology for quiet and reliable defrosting.
- Meets 2023 Florida Building Code unit integrity requirements for hurricane-type winds when properly anchored.
- Attractive Architectural Gray powder-paint finish with 500-hour salt-spray approval for durability.
- Removable grille-style top design compliant with UL 60335-2-40 for ease of maintenance.
- Equipped with R32 refrigerant, a more energy-efficient and environmentally conscious choice.



Figure 1: Goodman 2.5 Ton 13.4 SEER2 R32 Air Conditioning Unit outdoor condenser.

Understanding R32 Refrigerant

The Goodman GLXS3BN3010 utilizes R32 refrigerant, which offers significant advantages in terms of energy efficiency and environmental impact compared to older refrigerants like R410A. R32 is more energy-efficient, leading to lower electricity consumption and reduced operating costs. Furthermore, it has a lower Global Warming Potential (GWP), contributing to a healthier planet by minimizing its impact on climate change. This aligns with global initiatives and regulations aimed at phasing out high-GWP refrigerants.

Your browser does not support the video tag.

Video 1: An informational video explaining the benefits and importance of R32 refrigerant in modern air conditioning systems, highlighting its energy efficiency and reduced environmental impact.

SETUP AND INSTALLATION

Installation of this air conditioning unit 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 building codes and regulations.

Pre-Installation Checklist:

- Verify the unit's specifications match your home's requirements.
- Ensure adequate space and proper ventilation for the outdoor condenser unit.
- Confirm electrical supply meets the unit's 230 Volts (AC) requirement.
- Prepare a stable and level pad for the outdoor unit.

Installation Steps (Professional Guidance Recommended):

1. **Mounting the Outdoor Unit:** Securely place the condenser unit on a level pad, ensuring proper clearance for airflow. The unit is designed to meet hurricane-type wind requirements when properly anchored.
2. **Connecting Refrigerant Lines:** Connect the pre-charged refrigerant lines (up to 15 feet) between the outdoor unit and the indoor evaporator coil. Ensure all connections are tight and leak-free.
3. **Electrical Wiring:** Connect the unit to the dedicated 230V AC power supply according to wiring diagrams provided in the full installation guide. This step must be performed by a licensed electrician.
4. **Drainage Connection:** Connect the condensate drain line from the indoor unit to a suitable drainage system.
5. **System Start-up:** After all connections are secure and verified, perform a system start-up and check for proper operation, refrigerant levels, and airflow.

OPERATING INSTRUCTIONS

Your Goodman air conditioning unit is designed for user-friendly operation. Most functions are controlled via a remote control (if included) or a compatible thermostat.

Basic Operation:

- **Power On/Off:** Use the power button on your thermostat or remote control to turn the unit on or off.
- **Mode Selection:** Select the desired operating mode (e.g., Cool, Fan, Auto) using your thermostat or remote.
- **Temperature Setting:** Adjust the desired temperature using the up/down arrows on your control device.
- **Fan Speed:** Choose your preferred fan speed (e.g., Low, Medium, High, Auto) for optimal comfort and airflow.

SmartShift Technology:

The unit features SmartShift technology, which ensures quiet and reliable defrost cycles during colder conditions. This intelligent system optimizes performance and maintains efficiency without disruptive noise.

Remote Control Features:

If your unit came with a remote control, refer to its specific manual for detailed instructions on advanced features such as timer settings, sleep mode, and diagnostic indicators.

MAINTENANCE

Regular maintenance is crucial for ensuring the longevity, efficiency, and optimal performance of your air conditioning unit. Neglecting maintenance can lead to reduced efficiency, higher energy bills, and potential system failures.

User-Performed Maintenance:

- **Air Filter Replacement/Cleaning:** Check and clean or replace the indoor air filter monthly, or more frequently if you have pets or allergies. A dirty filter restricts airflow and reduces efficiency.
- **Clear Outdoor Unit:** Keep the area around the outdoor condenser unit free from debris, leaves, grass clippings, and other obstructions. Ensure at least 2 feet of clearance on all sides for proper airflow.
- **Clean Condenser Coils:** Periodically rinse the outdoor condenser coils with a garden hose to remove dirt and grime. The removable grille-style top design facilitates access for cleaning.

Professional Maintenance (Recommended Annually):

Schedule an annual inspection and tune-up by a qualified HVAC technician. A professional can:

- Check refrigerant levels and pressure.
- Clean evaporator and condenser coils thoroughly.
- Inspect electrical connections and components.
- Lubricate moving parts.
- Check and clear condensate drain lines.
- Verify thermostat accuracy.
- Assess overall system performance and efficiency.

TROUBLESHOOTING

Before contacting customer support or a technician, review the following common issues and their potential solutions. Always ensure the unit's power supply is off before performing any checks or maintenance.

Common Issues:

- **Unit Not Turning On:**
 - Check the thermostat settings to ensure it's set to "Cool" and the temperature is below the ambient room temperature.
 - Verify the circuit breaker for the unit has not tripped.
 - Ensure the outdoor disconnect switch is in the "ON" position.
- **Insufficient Cooling:**
 - Check and clean or replace the air filter.

- Ensure outdoor condenser coils are clean and free of obstructions.
- Verify that windows and doors are closed and properly sealed.
- Check for blockages in the indoor vents.

• **Unusual Noises:**

- A normal operating noise level is approximately 74 dB.
- Rattling or vibrating sounds may indicate loose panels or debris inside the unit. Turn off power and inspect.
- Hissing or bubbling sounds could indicate a refrigerant leak. *Immediately contact a qualified technician.*

• **Water Leaking:**

- Check if the condensate drain line is clogged.
- Ensure the indoor unit is level.

If these troubleshooting steps do not resolve the issue, it is recommended to contact a qualified HVAC technician for diagnosis and repair.

SPECIFICATIONS

Feature	Detail
Brand Name	Goodman
Model Info	Goodman GLXS3BN3010
Item Weight	149 pounds
Efficiency (SEER2)	13.4
Capacity	2.5 Tons
Annual Energy Consumption	7095.6 Kilowatt Hours Per Year
Noise Level	74 dB
Installation Type	Split System
Part Number	GLXS3BN3010
Form Factor	Split System
Special Features	Remote control
Color	Archetectural Gray
Voltage	230 Volts (AC)
Wattage	2570 Watt-hours
Material Type	R32, Aluminium, Steel, Copper

Feature	Detail
Floor Area	676 Square Inches
Refrigerant	R-32
Power Source	Corded Electric

WARRANTY AND SUPPORT

Warranty Information:

Specific warranty terms and conditions for the Goodman GLXS3BN3010 Air Conditioning Unit are provided by the manufacturer and the seller at the time of purchase. It is important to retain your purchase receipt and any warranty documentation for future reference. For detailed warranty coverage, including parts and labor, please consult the official warranty statement included with your product or contact the authorized dealer from whom you purchased the unit.

This product may be eligible for additional protection plans offered by third-party providers. Please review any such offers carefully to understand their coverage and terms.

Customer Support:

For technical assistance, troubleshooting beyond this manual, or to inquire about service, please contact the seller or an authorized Goodman service provider. When contacting support, please have your model number (GLXS3BN3010) and serial number readily available to expedite assistance.

The seller offers a 30-day easy return policy. For details on returns or exchanges, please refer to the seller's policy or contact their customer service directly.

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