

Goodman GSXN3N1810

Goodman GSXN3N1810-1.5 Ton Air Conditioner

USER MANUAL

1. Introduction

This manual provides essential information for the installation, operation, and maintenance of your Goodman GSXN3N1810-1.5 Ton Air Conditioner. Please read this manual thoroughly before attempting to install or operate the unit. Proper installation and maintenance are crucial for optimal performance and longevity of the system.

2. Product Overview

The Goodman GSXN3N1810 is a 1.5-ton, single-stage air conditioner designed for efficient cooling. It features a 13.4 SEER2 rating and uses R-410A refrigerant. This model is an upgraded version, replacing the GSX13 series, and is built with durability and performance in mind.



Front view of the Goodman GSXN3N1810-1.5 Ton Air Conditioner outdoor unit, showcasing its gray powder-paint finish and louvered coil guard.

Key features include:

- Removable grille-style top design compliant with UL 60335-2-40.
- Heavy-gauge galvanized-steel cabinet with an attractive Architectural Gray powder-paint finish.
- Energy-efficient compressor and copper tube/enhanced aluminum fin coil.
- Factory-installed filter drier for system protection.
- Fully charged with refrigerant for 15' of tubing length.
- Service valves with sweat connections and easy-to-access gauge ports.

3. Safety Information

Always prioritize safety when handling, installing, or servicing this air conditioning unit. Failure to follow safety instructions can result in property damage, personal injury, or death.

- **Professional Installation Required:** This unit must be installed by a qualified HVAC technician. Improper installation can void warranties and create hazards.
- **Electrical Safety:** Ensure the power supply is disconnected before any service or maintenance. The unit operates on 230 Volts.
- **Refrigerant Handling:** R-410A refrigerant must be handled by certified personnel only. Do not vent refrigerant into the atmosphere.
- **Sharp Edges:** Be aware of sharp edges on sheet metal parts. Wear appropriate protective gloves.
- **Heavy Equipment:** The unit is heavy (approx. 130 lbs). Use proper lifting techniques and equipment to prevent injury.
- **Clearance:** Maintain adequate clearances around the outdoor unit for proper airflow and service access.

4. Setup and Installation

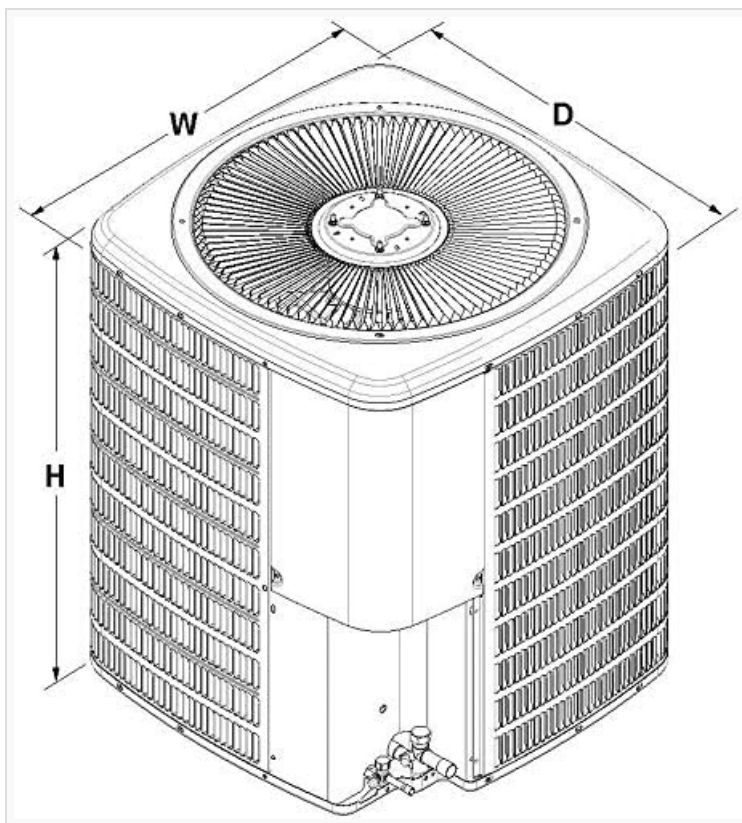
Installation of the Goodman GSXN3N1810 air conditioner requires specialized tools and knowledge. It is strongly recommended that installation be performed by a licensed HVAC professional.

4.1 Site Selection

Choose a location for the outdoor unit that allows for proper airflow, drainage, and service access. Avoid areas where discharge air could be obstructed or where noise might be a concern.

4.2 Dimensions and Clearances

The unit dimensions are approximately 26 inches (W) x 26 inches (D) x 27 inches (H). Refer to the diagram below for visual representation of these measurements. Ensure sufficient clearance as per local codes and manufacturer guidelines for optimal performance and maintenance access.



Technical diagram illustrating the height (H), width (W), and depth (D) measurements of the Goodman GSXN3N1810-1.5 Ton Air Conditioner outdoor unit.

4.3 Electrical Connections

The unit requires a 230 Volt power supply. A dedicated circuit with a recommended 15 Amps breaker size is necessary. All electrical wiring must comply with national and local electrical codes.

4.4 Refrigerant Lines

The unit is pre-charged for 15 feet of tubing length. The liquid line connection size is 3/8 inch, and the suction line connection size is 3/4 inch. Proper evacuation and charging procedures must be followed by a qualified technician.

5. Operating Instructions

Once properly installed, your Goodman air conditioner is designed for reliable and efficient operation. The unit's operation is typically controlled by an indoor thermostat (not included with the outdoor unit).

- **Thermostat Control:** Set your thermostat to the 'Cool' mode and adjust the desired temperature. The unit will cycle on and off to maintain the set temperature.
- **Fan Operation:** The condenser fan motor provides consistent airflow for optimum system performance.
- **Seasonal Use:** For optimal energy efficiency, avoid setting the thermostat to excessively low temperatures.

6. Maintenance

Regular maintenance is essential to ensure the longevity and efficiency of your air conditioning system. It is recommended to have a qualified technician perform annual professional maintenance.

- **Coil Cleaning:** Periodically inspect the outdoor coil for dirt and debris. Clean the coil using a soft brush or water hose. Ensure power is disconnected before cleaning.
- **Clearance Maintenance:** Keep the area around the outdoor unit free of leaves, grass clippings, and other obstructions to ensure proper airflow.
- **Filter Drier:** The factory-installed filter drier absorbs and filters residual system contaminants and moisture. This component typically does not require user maintenance but is vital for system health.
- **Professional Check-ups:** Schedule annual inspections and tune-ups with a certified HVAC technician to check refrigerant levels, electrical connections, and overall system performance.

7. Troubleshooting

This section provides basic troubleshooting steps for common issues. For complex problems, always contact a qualified HVAC technician.

- **Unit Not Turning On:**
 - Check the thermostat setting.
 - Verify the circuit breaker for the unit is not tripped.
 - Ensure the disconnect switch near the outdoor unit is in the 'ON' position.
- **Insufficient Cooling:**
 - Check if the outdoor coil is dirty and clean if necessary.
 - Ensure there are no obstructions blocking airflow around the outdoor unit.
 - Verify that the indoor air filter is clean (if applicable to your indoor unit).
 - Low refrigerant levels may be indicated; contact a technician.

• **Unusual Noises:**

- A noise level of 73 dB is typical for this unit.
- Rattling or vibrating sounds may indicate loose panels or debris. Inspect and secure.
- Grinding or squealing noises often indicate a motor issue; contact a technician immediately.

8. Specifications

Detailed technical specifications for the Goodman GSXN3N1810-1.5 Ton Air Conditioner:

Specification	Value
Model Number	GSXN3N1810
Capacity	1.5 Tons
SEER2 Rating	13.4
Refrigerant Type	R-410A
Voltage	230 Volts
Recommended Breaker Size	15 Amps
Noise Level	73 dB
Product Dimensions (W x D x H)	66.04 x 66.03 x 68.58 cm (26 x 26 x 27 inches)
Product Shipping Weight	58.97 kg (130.000 lb)
Liquid Line Connection Size	3/8 in
Suction Line Connection Size	3/4 in
Compressor Type	Energy-Efficient

9. Warranty Information

Goodman offers comprehensive warranty coverage for the GSXN3N1810 air conditioner. To receive the full benefits of the warranty, online registration is required within 60 days of installation (not required in California or Quebec).



A metallic shield logo indicating the Goodman 10-Year Limited Warranty, with a blue ribbon stating 'LIMITED WARRANTY'.

The warranty includes:

- **10-Year Unit Replacement Limited Warranty:** Covers replacement of the entire unit under specific conditions.
- **Lifetime Heat Exchanger Limited Warranty:** Valid for as long as you own your home (specific to furnace models, but often mentioned in general Goodman warranty terms).
- **10-Year Parts Limited Warranty:** Covers functional parts of the unit.

For complete warranty terms and conditions, please refer to the official Goodman warranty documentation provided with your unit or visit the Goodman website.

10. Support and Contact

For technical assistance, warranty claims, or to locate a certified Goodman dealer or service technician, please contact Goodman customer support or visit their official website. Always provide your unit's model and serial number when seeking support.

Manufacturer: Goodman

Place of Business: 19001 Kermier Road, Waller, TX 77484

Note: This manual is for informational purposes and does not replace the need for professional installation and service.

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