

Goodman GLXT7CA2410

Goodman GLXT7CA2410 2-Ton Two-Stage Air Conditioner User Manual

Model: GLXT7CA2410

1. INTRODUCTION

This manual provides comprehensive instructions for the safe and efficient installation, operation, maintenance, and troubleshooting of your Goodman GLXT7CA2410 2-Ton Two-Stage Air Conditioner. Please read this manual thoroughly before attempting to install or operate the unit. Retain this manual for future reference.

The Goodman GLXT7CA2410 is a high-efficiency, two-stage air conditioning unit designed to provide reliable cooling and enhanced comfort for residential applications. It features advanced technology for energy savings and quiet operation.

2. SAFETY INFORMATION

WARNING: Improper installation, adjustment, alteration, service, or maintenance can cause property damage, personal injury, or death. Refer to this manual. For assistance or additional information, consult a qualified installer or service agency.

- **Professional Installation Required:** This unit must be installed by a qualified HVAC technician. Attempting self-installation can void the warranty and lead to serious injury or damage.
- **Electrical Hazard:** Ensure all power to the unit is disconnected at the main service panel before performing any maintenance or service. Failure to do so can result in electrical shock, injury, or death.
- **Refrigerant Handling:** This unit contains R-32 refrigerant. Only qualified personnel trained in handling refrigerants should service the unit. R-32 is a mildly flammable refrigerant.
- **Sharp Edges:** Exercise caution when handling the unit due to potential sharp edges on metal parts. Wear appropriate personal protective equipment, including gloves.
- **Heavy Equipment:** The unit is heavy. Use proper lifting techniques and equipment to prevent injury during installation.

3. PACKAGE CONTENTS

The Goodman GLXT7CA2410 package typically includes the following components:

- Goodman GLXT7CA2410 AC Condenser Unit

Note: Additional accessories such as line sets, thermostats, and indoor air handlers are sold separately and are required for a complete operational system.

4. PRODUCT FEATURES

The Goodman GLXT7CA2410 Air Conditioner incorporates several features designed for optimal performance and user comfort:

- **Two-Stage Copeland Ultra-Tech Scroll Compressor:** Provides enhanced comfort and efficiency by operating at a lower capacity during milder conditions and ramping up during peak demand.
- **Quiet Operation:** Designed with sound-dampening features to ensure low-noise performance, enhancing indoor comfort.
- **Environmentally Friendly R-32 Refrigerant:** Utilizes R-32 refrigerant, known for its lower global warming potential compared to traditional refrigerants.
- **High Efficiency up to 17.9 SEER2:** Delivers significant energy savings, reducing utility bills while maintaining optimal cooling performance.
- **Factory-Installed Filter Drier:** Protects the refrigerant system from moisture and contaminants, improving long-term performance and reliability.
- **AHRI Certified & ETL Listed:** Ensures the unit meets industry performance and safety standards.
- **Heavy-Gauge Galvanized Steel Cabinet:** Provides durability and protection against environmental elements.
- **Advanced Fan Design:** Contributes to efficient airflow and quiet operation.
- **Enhanced Humidity Control:** The two-stage operation aids in better humidity management within the conditioned space.

5. SPECIFICATIONS

Refer to the table below for detailed technical specifications of the Goodman GLXT7CA2410 Air Conditioner:

Specification	Value
Model Number	GLXT7CA2410
Brand	Goodman
Capacity	2 Ton
Cooling BTUs	24,000
Compressor Stage	Two-Stage
Refrigerant Type	R-32
SEER2 Rating	Up to 17.9 SEER2
Voltage	208/230 Volt

Specification	Value
Recommended Breaker	20 Amp
Minimum Circuit Ampacity (MCA)	15.0 Amps
Noise Level	69 dB
Suction Connection Size	3/4"
Liquid Connection Size	3/8"
Product Height	39.5"
Product Width	35.5"
Product Depth	35.5"
Product Weight	219 LBS
Installation Type	Split System
Color	Gray

6. INSTALLATION AND SETUP

IMPORTANT: Installation of this air conditioning unit must be performed by a qualified, licensed HVAC professional. Incorrect installation can lead to system malfunction, safety hazards, and void the product warranty.

The installer will be responsible for:

- Selecting an appropriate outdoor location for the condenser unit, ensuring adequate airflow and clearance.
- Connecting the refrigerant line set between the outdoor condenser and the indoor evaporator coil/air handler.
- Performing proper refrigerant charging and leak checks.
- Making all necessary electrical connections in accordance with local and national electrical codes (208/230 Volt, 20 Amp recommended breaker).
- Ensuring proper drainage for condensate.
- Testing the system for correct operation and performance.

Refer to the detailed installation instructions provided with the unit for specific procedures and diagrams, which are intended for professional installers.



Figure 1: Front and side view of the Goodman GLXT7CA2410 Air Conditioner outdoor unit.



Figure 2: Top view of the Goodman GLXT7CA2410 Air Conditioner, showing the fan assembly.

7. OPERATING INSTRUCTIONS

Once installed by a qualified technician, operating your Goodman GLXT7CA2410 Air Conditioner is typically managed via your indoor thermostat.

- **Thermostat Settings:** Set your thermostat to 'COOL' mode.
- **Temperature Adjustment:** Adjust the desired temperature setting on your thermostat. The two-stage compressor will operate at a lower capacity for mild cooling needs and automatically switch to full capacity during hotter periods to maintain the set temperature efficiently.
- **Fan Operation:** You can typically set the fan to 'AUTO' (runs only when cooling) or 'ON' (runs continuously for air circulation).
- **Humidity Control:** The two-stage operation inherently provides better humidity control by running longer cycles at lower capacity.

Consult your thermostat's user manual for specific programming and operational details.

8. 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 professional.

Homeowner Maintenance:

- **Clean or Replace Air Filters:** Check your indoor air handler's filter monthly, especially during peak cooling season. Clean or replace as needed to ensure proper airflow and system efficiency.
- **Clear Outdoor Unit:** Keep the area around the outdoor condenser unit free from debris, leaves, grass clippings, and other obstructions. Ensure at least 24 inches of clearance on all sides for proper airflow.
- **Clean Outdoor Coils (Light):** Carefully rinse the outdoor coil with a garden hose to remove surface dirt. Avoid high-pressure sprays that could damage the fins.

Professional Maintenance (Recommended Annually):

- Thorough cleaning of indoor and outdoor coils.
- Checking refrigerant levels and pressure.
- Inspecting electrical connections and components.
- Lubricating moving parts (if applicable).
- Checking condensate drain for clogs.
- Verifying thermostat calibration and system operation.

9. TROUBLESHOOTING

Before contacting a service technician, review the following common issues and potential solutions:

Problem	Possible Cause	Solution
Unit not cooling	Thermostat set incorrectly Power supply interrupted Dirty air filter Outdoor unit obstructed	Ensure thermostat is in 'COOL' mode and set below room temperature. Check circuit breaker for the unit. Clean or replace air filter. Clear debris from around the outdoor unit.
Insufficient cooling	Dirty coils Low refrigerant Leaky ductwork	Clean outdoor coils (lightly). For thorough cleaning, contact a professional. Contact a qualified technician to check refrigerant levels. Inspect and seal ductwork.
Unit making unusual noises	Loose parts Fan obstruction Compressor issue	Turn off power and inspect for loose panels or debris. If noise persists or is severe, contact a professional.

Problem	Possible Cause	Solution
Outdoor unit not running	Power issue Thermostat setting Safety lockout	Check circuit breaker. Ensure thermostat is calling for cooling. If unit is locked out, power cycle at breaker (turn off for 30 seconds, then on). If problem persists, contact a professional.

WARNING: Do not attempt to repair electrical or refrigerant components yourself. Contact a qualified HVAC technician for all complex troubleshooting and repairs.

10. WARRANTY INFORMATION

The Goodman GLXT7CA2410 Air Conditioner comes with a **10-year parts limited warranty**.

To ensure the validity of this warranty, the following conditions must be met:

- The unit must be installed by a qualified, licensed installer.
- The unit must be registered online within 60 days of installation. Failure to register within this timeframe may result in a shorter warranty period.

Please retain your proof of purchase and installation records. For full warranty terms and conditions, refer to the warranty certificate included with your product or visit the official Goodman website.

11. SUPPORT AND CONTACT

For technical support, service, or warranty claims, please contact your installing HVAC contractor first. They are most familiar with your specific installation and can provide immediate assistance.

If you require further assistance or cannot reach your installer, you may contact Goodman customer service through their official website or the contact information provided in your product documentation.

Manufacturer: Goodman

Model: GLXT7CA2410

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