

## Manuals+

[Q & A](#) | [Deep Search](#) | [Upload](#)

manuals.plus /

› [Goodman](#) /

› [Goodman 5 Ton 13.8 SEER2 R-32 AC System \(GLXS4BA6010 & CHPTA6030D3\) User Manual](#)

## Goodman GLXS4BA6010 CHPTA6030D3

# Goodman 5 Ton 13.8 SEER2 R-32 AC System User Manual

Models: GLXS4BA6010 (Condenser) & CHPTA6030D3 (Horizontal Coil)

## 1. INTRODUCTION

This manual provides essential information for the safe and efficient operation, installation, and maintenance of your Goodman 5 Ton 13.8 SEER2 R-32 AC Only System. This system comprises the GLXS4BA6010 condenser and the CHPTA6030D3 horizontal coil. Please read this manual thoroughly before installation or use and retain it for future reference. Proper installation and maintenance are crucial for optimal performance and longevity.

## 2. PRODUCT OVERVIEW

The Goodman 5 Ton 13.8 SEER2 R-32 AC Only System is designed to provide efficient cooling for your home. This system is certified by AHRI under certificate number 214860140. Note that this is an AC-only system and requires a furnace or blower for a complete HVAC setup.

### System Components

- **GLXS4BA6010 Condenser:** A 5 Ton 13.8 SEER2 single-stage AC unit. It features service valves, gauge ports, and inspection points for ease of use and maintenance. The unit is pre-charged for 15 feet of tubing and includes a factory-installed filter drier.
- **CHPTA6030D3 Horizontal Coil:** Constructed with corrosion-resistant aluminum and grooved tubing for enhanced heat transfer. This coil is rigorously tested for quality and designed for versatile, long-standing cooling needs. Its horizontal design optimizes airflow.

### Visual Overview

# Goodman

GLXS4BA6010, CHPTA6030D3



**Tonnage**

5

**Efficiency**

13.8 SEER2

**Type**

AC Only

**Region**

Nationwide

**Flow**

Horizontal

**AHRI**

214860140

**AHRI** CERTIFIED®  
www.ahridirectory.org

**10** PARTS  
LIMITED  
YEAR WARRANTY\*

**R32**

This is not a complete system, blower or furnace required  
Please contact us if you have questions

Figure 1: Overview of the Goodman 5 Ton AC System, showing both the outdoor condenser unit and the indoor horizontal coil.

# Goodman GLXS4BA6010



Tonnage

5

Efficiency

14.3 SEER2

Type

AC Only

Dimensions

35.5 x 35.5 x 39.5

Weight

224

Lineset

3/8" x 1 1/8"

**AHRI** CERTIFIED®  
www.ahridirectory.org

**10** PARTS  
YEAR LIMITED  
WARRANTY\*

**R32**

Figure 2: Close-up view of the Goodman GLXS4BA6010 outdoor condenser unit, highlighting its robust construction.

# Goodman CHPTA6030D3



**Tonnage**

**4.0 - 5.0**

**Connections**

**3/8" x 7/8"**

**Dimensions**

**30 x 21 x 24.5**

**Weight**

**82**

**Orientation**

**Horizontal**

**10** PARTS  
LIMITED  
YEAR WARRANTY

**R32**

Figure 3: Detailed image of the Goodman CHPTA6030D3 horizontal coil, designed for efficient heat transfer.

U.S. Government

Federal law prohibits removal of this label before consumer purchase.

# ENERGYGUIDE

Central Air Conditioner  
Cooling Only  
Split System

GOODMAN  
Model GLXS4BA6010A\*



For energy cost info, visit  
[productinfo.energy.gov](http://productinfo.energy.gov)

\* Your air conditioner's efficiency rating may be better depending on the coil your contractor installs.

## Notice

Federal law allow this unit to be installed in all U.S. states and territories.

**Energy Efficiency Ratio 2 (EER2):** The installed system's minimum EER2 is 11.20.

Figure 4: EnergyGuide label for the Goodman GLXS4BA6010A model, indicating an efficiency rating of 13.80 SEER2.

## Informational Videos

Video 1: This video from Superior Home Supplies provides an overview of condenser and coil combinations, explaining their function within an HVAC system.

Video 2: This video from Superior Home Supplies explains different types of HVAC systems, helping users understand their specific setup.

### 3. SETUP AND INSTALLATION

---

Installation of this Goodman AC system requires specialized knowledge and tools. It is strongly recommended that installation be performed by a qualified HVAC technician. Improper installation can lead to system malfunction, safety hazards, and voiding of the warranty.

#### Key Installation Considerations:

- **Refrigerant:** The condenser unit is pre-charged with R-32 refrigerant for 15 feet of tubing. Additional refrigerant may be required depending on the line set length.
- **Coil Matching:** Ensure the CHPTA6030D3 horizontal coil is correctly matched and installed with your existing or new furnace/blower unit.
- **Electrical Connections:** All electrical wiring must comply with local and national electrical codes.
- **Ductwork:** Proper ductwork sizing and sealing are essential for efficient airflow and system performance.
- **R-32 Safety:** As R-32 refrigerant is mildly flammable, a compatible R-32 leak detection system is required, especially when paired with a furnace, to ensure safe operation.

### 4. OPERATING INSTRUCTIONS

---

Once installed by a professional, your Goodman AC system is designed for straightforward operation. Control the system using your thermostat.

#### Basic Operation:

1. **Power On:** Ensure the system's power disconnect switch (usually located near the outdoor unit) is in the 'ON' position.
2. **Thermostat Settings:** Set your thermostat to 'COOL' mode.
3. **Temperature Adjustment:** Adjust the desired temperature setting on your thermostat. The system will automatically cycle on and off to maintain this temperature.
4. **Fan Operation:** The fan can typically be set to 'AUTO' (runs only when cooling) or 'ON' (runs continuously). 'AUTO' is generally recommended for energy efficiency.

For detailed programming and advanced features, refer to your specific thermostat's user manual.

### 5. MAINTENANCE

---

Regular maintenance is vital to ensure the efficiency, reliability, and longevity of your Goodman AC system. Some tasks can be performed by the homeowner, while others require a qualified technician.

#### Homeowner Maintenance:

- **Air Filter Replacement:** Check and replace the air filter in your furnace or air handler 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 vegetation. Periodically rinse the outdoor coil fins with a garden hose to remove dirt buildup. Ensure power is off before cleaning.
- **Drain Line Check:** Periodically check the condensate drain line for blockages. A clogged drain can lead to water leaks.

#### Professional Maintenance:

It is recommended to have a qualified HVAC technician perform annual maintenance on your system. This typically includes:

- Checking refrigerant levels and pressure.
- Inspecting electrical components and connections.
- Cleaning indoor and outdoor coils.
- Lubricating moving parts.
- Checking thermostat calibration.
- Inspecting ductwork for leaks.

## 6. TROUBLESHOOTING

---

Before calling for service, check these common issues:

Problem	Possible Cause	Solution
System not cooling	Thermostat set incorrectly, dirty air filter, tripped circuit breaker, outdoor unit blocked.	Check thermostat settings, replace filter, reset breaker, clear debris from outdoor unit.
No airflow	Dirty air filter, fan motor issue, blocked vents.	Replace filter, check for obstructions in vents. Contact technician if fan motor is faulty.
Unusual noises	Loose parts, fan motor issues, refrigerant issues.	Turn off unit and inspect for loose panels. Contact technician for internal component issues.
Water leaking	Clogged condensate drain line, frozen evaporator coil.	Clear drain line. If coil is frozen, turn off AC and let it thaw, then check airflow. Contact technician if problem persists.

If these steps do not resolve the issue, contact a qualified HVAC technician for diagnosis and repair.

## 7. SPECIFICATIONS

---

Feature	Specification
Brand	Goodman
Condenser Model	GLXS4BA6010
Coil Model	CHPTA6030D3
Capacity	5 Tons
SEER2 Rating	13.8
Refrigerant Type	R-32
Voltage	230 Volts
Noise Level	76 Decibels
Installation Type	Split System
Condenser Weight	346 pounds

Feature	Specification
Coil Orientation	Horizontal
Special Feature	Fast Cooling

## 8. IMPORTANT R-32 REFRIGERANT INFORMATION

---

This system utilizes R-32 refrigerant, a modern and more environmentally friendly alternative to older refrigerants like R-410A. R-32 offers improved energy efficiency and a significantly lower Global Warming Potential (GWP).

### Key Points about R-32:

- **Energy Efficiency:** R-32 is more energy-efficient, potentially leading to lower electricity bills.
- **Environmental Impact:** It has a GWP of 675, which is substantially lower than R-410A's GWP of 2088, contributing to reduced global warming.
- **Flammability:** R-32 is mildly flammable. Therefore, specific safety precautions and equipment are required during installation and servicing, including an R-32 leak detection system when used with a furnace.
- **Compatibility:** R-32 systems are not backward compatible with R-410A systems. If replacing a component, both the condenser and coil must be compatible with R-32.

### Informational Videos on R-32 and SEER2 Regulations

Video 3: This video from MRO Next Day explains why R-32 refrigerant is becoming the future of air conditioning, highlighting its benefits.

Video 4: This video from Superior Home Supplies provides important information regarding refrigerant regulations and their impact on HVAC systems.

Video 5: This video from Superior Home Supplies discusses R-32 refrigerant, separating facts from common misconceptions.

Video 6: This video from Superior Home Supplies explains the SEER2 regulations, which impact the energy efficiency standards for HVAC equipment.

## 9. WARRANTY AND SUPPORT

---

The Goodman 5 Ton 13.8 SEER2 R-32 AC Only System comes with a reassuring 10-year parts warranty. For specific warranty terms and conditions, please refer to the documentation provided with your product or contact Goodman customer support.

### Customer Support:

For technical assistance, warranty claims, or to locate a certified service provider, please visit the official Goodman website or contact their customer service department. You can also visit the [Goodman Store on Amazon](#) for additional information and resources.