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› [Goodman 4 Ton 14.5 SEER2 Multi-Position Air Conditioner System User Manual \(Models GLXS4BA4810 & AMST60DU1300\)](#)

Goodman GLXS4BA4810,AMST60DU1300

Goodman 4 Ton 14.5 SEER2 Multi-Position Air Conditioner System User Manual

Models: GLXS4BA4810 & AMST60DU1300

1. INTRODUCTION AND SYSTEM OVERVIEW

This manual provides essential information for the Goodman 4 Ton 14.5 SEER2 Multi-Position Air Conditioner System, comprising the GLXS4BA4810 outdoor air conditioner unit and the AMST60DU1300 multi-position air handler. This system is designed for energy-efficient cooling in large residential or light commercial spaces up to 2,400 square feet. It aims to deliver optimal comfort with reduced energy consumption through its 14.5 SEER2 rating and flexible air distribution capabilities.



Figure 1: Goodman 4 Ton 14.5 SEER2 Multi-Position Air Conditioner System (Outdoor Unit and Air Handler)

The image displays the complete Goodman 4 Ton 14.5 SEER2 Multi-Position Air Conditioner System, featuring the gray outdoor condenser unit on the left and the tall, dark gray indoor air handler unit on the right. Both units bear the 'Goodman' brand logo.

2. KEY SYSTEM FEATURES

- **Model Compatibility:** These A2L models directly replace previous versions such as GSX140481, GSXB404810, AMST60DU1400, and ASIN B00VHVXIE6.
- **Cooling Capacity:** Provides 4 Tons of cooling, suitable for spaces up to 2,400 square feet.
- **Energy Efficiency:** Features a 14.5 SEER2 rating for energy-efficient operation, contributing to lower electricity usage.
- **Multi-Position Air Handler:** The AMST60DU1300 air handler offers flexible installation options including upflow, downflow, or horizontal configurations.
- **Quiet Operation:** Engineered with noise-reduction technology for a peaceful indoor environment.
- **Durable Compressor:** The GLXS4BA4810 unit includes a high-efficiency scroll compressor designed for reliable and long-lasting cooling.
- **Environmentally Friendly Refrigerant:** Utilizes R-32 refrigerant, which has a reduced environmental impact.

- **Robust Construction:** Components are housed in a heavy-duty galvanized steel cabinet for protection against outdoor conditions.
- **Pre-Charged System:** The system is pre-charged with refrigerant for a 15-foot line set, simplifying installation.

3. COMPONENTS OVERVIEW

The Goodman 4 Ton 14.5 SEER2 Multi-Position Air Conditioner System includes the following main components:

- 1 Air Conditioner (Outdoor Unit - Model GLXS4BA4810)
- 1 Air Handler (Indoor Unit - Model AMST60DU1300)





Figure 2: Goodman AMST60DU1300 Air Handler

This image shows the Goodman AMST60DU1300 multi-position air handler, a tall, dark gray unit with the 'Goodman' logo prominently displayed. It features access panels and connection points on its side.



Figure 3: Goodman GLXS4BA4810 Outdoor Unit Internal View

An internal cutaway view of the Goodman GLXS4BA4810 outdoor air conditioner unit, revealing its components including the fan, compressor, and copper coils. This illustration highlights the robust internal engineering.

4. UNDERSTANDING YOUR HVAC SYSTEM

4.1. Identifying Your Heating Source

Before making decisions about your HVAC system, it's important to understand your current heating setup. This video provides guidance on how to determine if your home uses gas or electric heating.

Video 1: What To Look For When Buying An HVAC System

This video provides guidance on identifying your home's heating system type (gas or electric) and distinguishing between an air conditioner and a heat pump, crucial steps before selecting an HVAC system.

4.2. Air Conditioner vs. Heat Pump

Understanding the difference between an air conditioner and a heat pump is key to selecting the right system for your needs. This system is an air conditioner, providing cooling only. If you require both heating and cooling from a single outdoor unit, a heat pump would be necessary.

Video 2: Straight Cool vs Heat Pump Systems

Understand the fundamental differences between straight cool air conditioning systems and heat pump systems, including their operational principles and capabilities.

Video 3: Should You Buy a Heat Pump or Straight Cool Air Conditioner?

This video helps you decide between a heat pump and a straight cool air conditioner by explaining their operational differences, energy efficiency, and suitability for various climate zones.

4.3. Air Handler Functionality

The AMST60DU1300 air handler is a critical component of your system, responsible for circulating conditioned air throughout your home.

Video 4: All you need to know about Air Handlers

This video explains the function, components, and types of air handlers, detailing how they circulate and condition air within your home's ductwork.

5. INSTALLATION GUIDELINES

The AMST60DU1300 air handler offers multi-position installation flexibility, allowing it to be configured for upflow, downflow, or horizontal applications to suit various space requirements. The system is pre-charged with refrigerant for a 15-foot line set, which simplifies the initial setup process.

MULTI-POSITION AIR HANDLER

Goodman
Air Conditioning & Heating

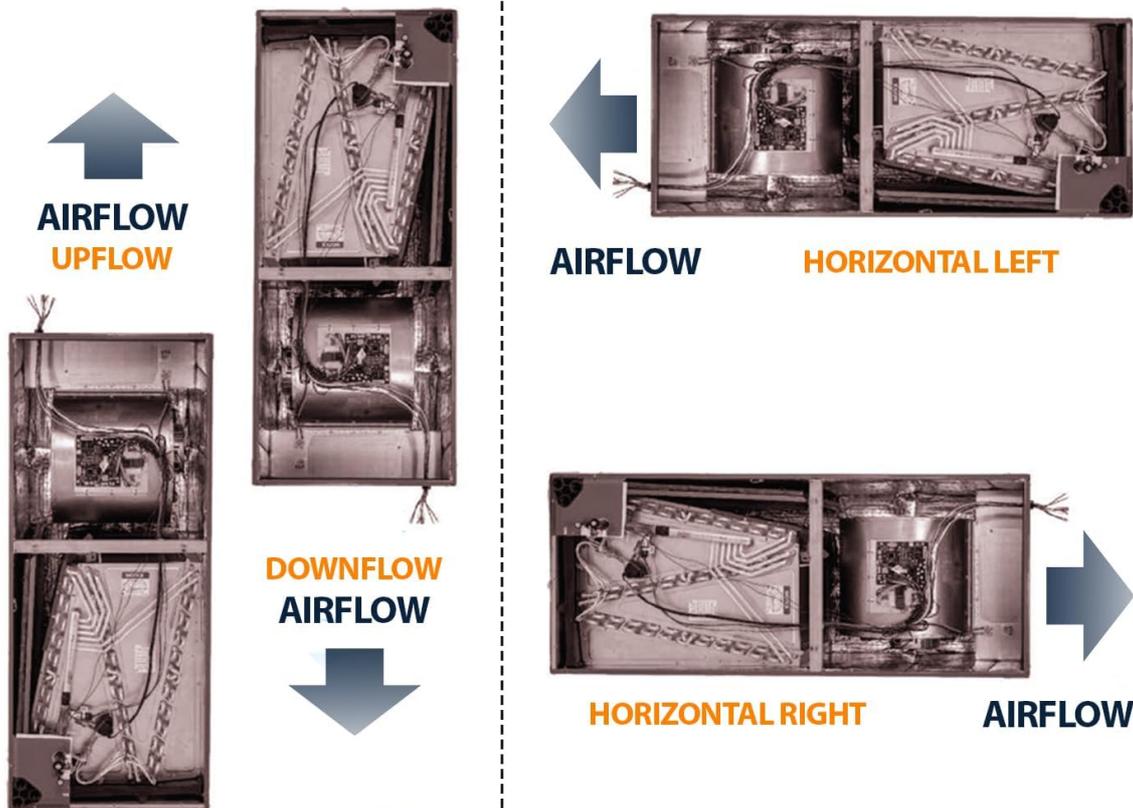


Figure 4: Multi-Position Air Handler Diagram

This diagram illustrates the various installation positions for the multi-position air handler, including upflow, downflow, horizontal left, and horizontal right airflow configurations, demonstrating its adaptability to different HVAC setups.

5.1. Receiving Your LTL Shipment

For proper delivery and to ensure your system arrives safely, please follow the guidelines for accepting Less-Than-Truckload (LTL) shipments.

Video 5: Proper steps to accept an LTL shipment

This video outlines the essential steps for properly receiving a Less-Than-Truckload (LTL) shipment, including verifying address details, inspecting for damage, and documenting any issues.

6. OPERATING YOUR SYSTEM

Your Goodman Air Conditioner System is designed for quiet and efficient operation. Once installed by a qualified professional, the system will provide reliable cooling. For optimal performance, ensure your thermostat is set correctly and that the system is not obstructed.

7. MAINTENANCE

Regular maintenance is crucial for the longevity and efficiency of your HVAC system. This includes routine filter changes and professional inspections.

7.1. Air Filter Maintenance

The air filter in your air handler plays a vital role in maintaining indoor air quality and protecting your system's components. Regularly check and replace the filter as needed.

Video 6: All you need to know about Air Handlers (relevant section on filters)

This video explains the function, components, and types of air handlers, including the importance of filters for air quality and system protection.

8. TROUBLESHOOTING

Your Goodman system is equipped with a self-diagnostic control board that can assist in identifying potential issues. In case of a malfunction, consult a qualified HVAC technician. The air handler may also contain an electric heating coil for supplemental heat, which can serve as a backup in certain situations.

Video 7: Standard Features of GOODMAN Furnace (relevant section on self-diagnostics)

This video highlights standard features of Goodman heating systems, including the self-diagnostic control board, which can aid in troubleshooting.

9. SPECIFICATIONS

Feature	Detail
Brand Name	Goodman
Model Info	GLXS4BA4810, AMST60DU1300
Item Weight	373 pounds
Product Dimensions	35.5 x 35.5 x 35.75 inches
Efficiency	High Efficiency
Capacity	4 Tons (48000 British Thermal Units)
Annual Energy Consumption	4462 Watts
Noise Level	73 Decibels
Installation Type	Split System
Form Factor	Split System
Special Features	Fast Cooling
Color	Gray
Voltage	230 Volts
Wattage	4462 watts
Included Components	1 Air Conditioner, 1 Air Handler

Feature	Detail
Floor Area Coverage	2400 Square Feet
Seasonal Energy Efficiency Ratio (SEER2)	14.5

10. REFRIGERANT INFORMATION

This system uses R-32 refrigerant, an environmentally friendly option with a lower global warming potential compared to older refrigerants.

Video 8: Why Air Conditioners have changed the refrigerant

Discover the reasons behind the shift in air conditioner refrigerants, focusing on the environmental benefits and efficiency of newer options like R-32.

Video 9: Info about the refrigerant regulations

Get informed about current refrigerant regulations and the global efforts to transition to more environmentally friendly refrigerants like R-32 to combat climate change.

11. WARRANTY INFORMATION

This Goodman Air Conditioner System comes with a **10-year parts limited warranty**. To activate this warranty, the system must be installed by a qualified installer and registered online within 60 days of installation. Accessories such as line sets, LP Kits, heat kits, whips, disconnects, etc., are sold separately and are not covered under this warranty.

12. SUPPORT & CONTACT

For any questions regarding installation, operation, maintenance, or troubleshooting, please contact a qualified HVAC installer or the Goodman customer support. Ensure your system is serviced by certified professionals to maintain warranty validity and optimal performance.