

Goodman GLZS4BA4810AMST48CU1300

Goodman 4 TON 15.2 SEER2 Multi-Position R-32 Heat Pump System User Manual

Models: GLZS4BA4810 (Condenser) & AMST48CU1300 (Air Handler)

1. INTRODUCTION AND SYSTEM OVERVIEW

This manual provides essential information for the safe and efficient operation of your Goodman 4 TON 15.2 SEER2 Multi-Position R-32 Heat Pump System. This integrated system is designed to provide both heating and cooling for your home, ensuring year-round comfort. It comprises an outdoor condenser unit (GLZS4BA4810) and an indoor air handler unit (AMST48CU1300).



Figure 1: The Goodman 4 TON Heat Pump System, featuring the outdoor condenser and indoor air handler.

The heat pump system operates by transferring heat. In cooling mode, it extracts heat from inside your home and releases it outdoors. In heating mode, it absorbs heat from the outdoor air and transfers it indoors, even in cold temperatures. The air handler circulates conditioned air throughout your home's ductwork.

2. SETUP AND INSTALLATION

Professional Installation Required: Due to the complexity of HVAC systems, including refrigerant handling and electrical connections, installation of this Goodman Heat Pump System **MUST** be performed by a qualified and licensed HVAC technician. Improper installation can lead to system damage, safety hazards, and voiding of the warranty.

2.1 Outdoor Condenser Unit (GLZS4BA4810)

The outdoor unit should be installed on a level pad, ensuring proper clearance for airflow and maintenance. Its compact design allows for flexible placement.



Figure 2: Close-up view of the Goodman GLZS4BA4810 outdoor condenser unit.

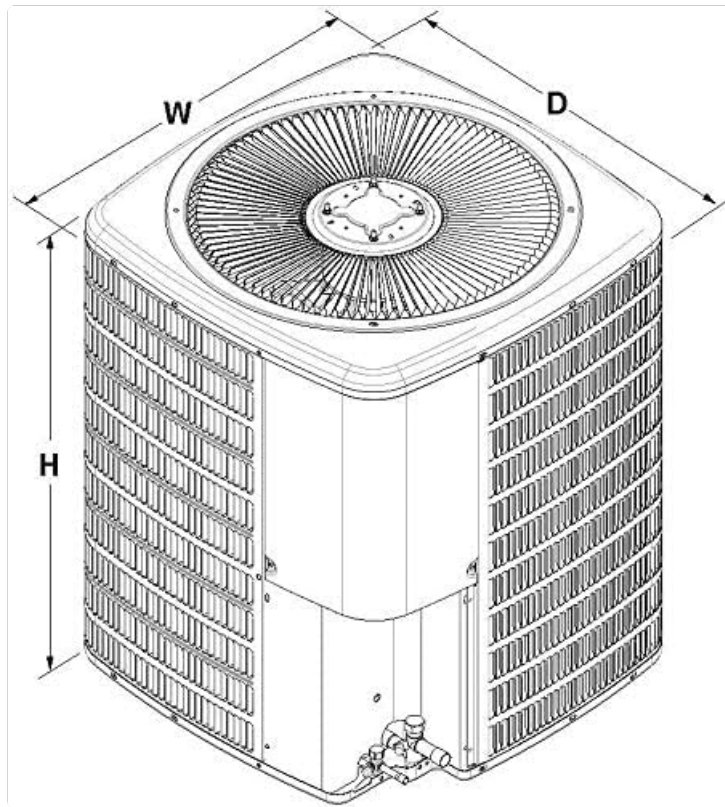


Figure 3: Dimensional diagram for the Goodman outdoor condenser unit, indicating height (H), width (W), and depth (D).

2.2 Indoor Air Handler Unit (AMST48CU1300)

The AMST48CU1300 air handler is a multi-positional unit, meaning it can be installed in various orientations (upflow, downflow, horizontal right, or horizontal left) to suit your home's specific ductwork configuration. This flexibility makes it adaptable to different installation spaces.





Figure 4: The Goodman AMST48CU1300 multi-position air handler unit.

Video 2: An informative video discussing different types of HVAC systems and how to identify what type you have.

3. OPERATING INSTRUCTIONS

Your heat pump system is controlled by a thermostat, typically located in a central area of your home. Familiarize yourself with your specific thermostat model for detailed operating instructions.

3.1 Modes of Operation

- **Cooling Mode:** Set your thermostat to 'Cool' and select your desired temperature. The system will remove heat from your home, providing cool air.
- **Heating Mode:** Set your thermostat to 'Heat' and select your desired temperature. The system will extract heat from the outside air and transfer it indoors.

- **Fan Mode:** Set your thermostat to 'Fan Only' to circulate air without heating or cooling. This can be useful for improving air circulation.
- **Auto Mode:** Some thermostats offer an 'Auto' mode, which automatically switches between heating and cooling to maintain a set temperature range.

Video 3: A comparative video explaining the differences between straight cool (AC only) and heat pump systems.

Video 4: An in-depth explanation of how heat pump systems operate to provide both heating and cooling.

4. MAINTENANCE

Regular maintenance is crucial for the longevity and efficiency of your Goodman Heat Pump System. Perform the following tasks regularly and schedule professional servicing annually.

4.1 Air Filter Replacement

Check your air filter monthly and replace it every 1-3 months, or more frequently if you have pets or allergies. A dirty filter restricts airflow, reduces efficiency, and can damage the system.

4.2 Coil Cleaning

The indoor evaporator coil and outdoor condenser coil should be professionally cleaned annually to ensure optimal heat transfer. Keep the outdoor unit clear of debris, leaves, and other obstructions.

4.3 Optional Heat Kit

If your system includes an optional electric heat kit (often recommended for regions with temperatures consistently below freezing), ensure it is inspected during annual maintenance.



Figure 5: An optional electric heat kit, which can be added to the air handler for supplemental heating in colder climates.

5. TROUBLESHOOTING

Before calling for service, check the following common issues:

- **No Power:** Check your thermostat settings, ensure the system switch is 'On', and check the circuit breaker for your HVAC system.
- **Insufficient Heating/Cooling:** Verify thermostat settings, check and replace dirty air filters, ensure outdoor unit is free of obstructions, and check for closed supply or return vents.
- **Unusual Noises:** Minor operational noises are normal. However, grinding, squealing, or loud banging sounds indicate a problem and require professional attention.

If issues persist after checking these points, contact a qualified HVAC technician for diagnosis and repair.

6. SPECIFICATIONS

Your Goodman Heat Pump System is designed for high efficiency and reliable performance. Key specifications are listed below:

Feature	Specification
Brand	Goodman
Model Name	GLZS4BA4810AMST48CU1300
Tonnage	4 TON
SEER2 Rating	15.2
Refrigerant Type	R-32
Noise Level	56 dB
Condenser Dimensions (L x W x H)	35.5 x 35.5 x 36.5 inches
Air Handler Dimensions (L x W x H)	21 x 21 x 58 inches (approx. from graphic)
AHRI Certified	Yes

U.S. Government

Federal law prohibits removal of this label before consumer purchase.

ENERGYGUIDE

Heat Pump
Cooling and Heating
Split System

GOODMAN
Model GSZ140481K*



▼ This system's efficiency ratings depend on the coil your contractor installs with this unit. The heating efficiency rating varies slightly in different geographic regions. Ask your contractor for details.



For energy cost info, visit productinfo.energy.gov

Figure 6: The EnergyGuide label provides efficiency ratings (SEER and HSPF) for the heat pump system.



Figure 7: Key specifications for the Goodman AMST48CU1300 air handler, including tonnage, dimensions, connections, and weight.

Video 5: An explanation of SEER2 regulations and their impact on HVAC system efficiency.

Video 6: Information regarding current refrigerant regulations, including the use of R-32 refrigerant.

7. WARRANTY AND SUPPORT

Your Goodman Heat Pump System is backed by a 10-Year Limited Warranty on parts. Please refer to the official warranty documentation provided with your product for full terms and conditions, including registration requirements.



Figure 8: The 10-Year Limited Warranty shield, indicating coverage for your Goodman system.

For technical support, service, or warranty claims, please contact your installing HVAC professional or visit the official Goodman website. You can also visit the [Goodman Store on Amazon](#) for more product information.

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

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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