

Manuals+

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

manuals.plus /

> [Goodman](#) /

> [Goodman GLXS4BA3610 AMST36CU1300 3 Ton 14.5 SEER Split System Air Conditioner User Manual](#)

Goodman GLXS4BA3610 AMST36CU1300

Goodman GLXS4BA3610 AMST36CU1300 3 Ton 14.5 SEER Split System Air Conditioner User Manual

Model: GLXS4BA3610 (Outdoor Unit) & AMST36CU1300 (Indoor Air Handler)

Brand: Goodman

1. PRODUCT OVERVIEW

This manual provides essential information for the installation, operation, and maintenance of your Goodman 3 Ton 14.5 SEER Split System Air Conditioner. This system consists of an outdoor condenser unit (GLXS4BA3610) and an indoor multi-position air handler (AMST36CU1300). This system is designed for cooling only and does not provide heat unless an optional heat kit is installed separately.



Figure 1: Goodman GLXS4BA3610 outdoor condenser unit and AMST36CU1300 indoor air handler.

2. PRODUCT COMPONENTS

The Goodman 3 Ton 14.5 SEER Split System includes the following main components:

- **Outdoor Condenser Unit (GLXS4BA3610):** Responsible for releasing heat from your home to the outside.
- **Indoor Multi-Position Air Handler (AMST36CU1300):** Circulates conditioned air throughout your home and contains the evaporator coil.
- **Refrigerant (R-32):** The system is pre-charged for 15 feet of tubing.

Additional accessories such as thermostats, heat kits, and outdoor sensors are sold separately.

3. SETUP AND INSTALLATION

Important: Installation of this HVAC system must be performed by a qualified and certified HVAC technician. Improper installation can lead to system malfunction, reduced efficiency, and void the product warranty. Refer to local codes and regulations for specific installation requirements.

3.1 Site Selection

- The outdoor unit should be placed on a level, stable surface, away from direct sunlight and obstructions that could impede airflow.
- The indoor air handler can be installed in upflow, horizontal right, or horizontal left configurations. For downflow installation, an optional downflow kit must be purchased separately.

3.2 Electrical Connections

Ensure all electrical wiring complies with national and local electrical codes. The system operates on 120 Volts. A dedicated circuit may be required.

3.3 Refrigerant Lines

The system uses R-32 refrigerant and is pre-charged for 15 feet of line set. Proper evacuation and charging procedures are critical for optimal performance and must be performed by a certified technician.



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





Figure 3: Goodman AMST36CU1300 indoor air handler unit.

4. OPERATING INSTRUCTIONS

Once installed, your Goodman split system is controlled by a thermostat (sold separately). Familiarize yourself

with your thermostat's specific operating instructions.

4.1 Cooling Mode

1. Set your thermostat to "Cool" mode.
2. Adjust the desired temperature. The system will activate to cool your home to the set temperature.
3. Ensure all windows and doors are closed to maintain cooling efficiency.

4.2 Fan Operation

The fan can be set to "Auto" or "On". In "Auto" mode, the fan runs only when the system is actively cooling. In "On" mode, the fan runs continuously to circulate air.

4.3 System Types Overview (Informational Video)

Your browser does not support the video tag.

Video 1: An overview of different HVAC system types, including split systems, packaged units, and ductless systems. This video explains the basic components and functions of each type.

5. MAINTENANCE

Regular maintenance is crucial for the efficiency and longevity of your HVAC system. Always turn off power to the unit before performing any maintenance.

5.1 Air Filter Replacement

Check and replace the air filter in your indoor air handler every 1-3 months, or more frequently if you have pets or allergies. A dirty filter restricts airflow and reduces efficiency.

5.2 Outdoor Unit Cleaning

Keep the outdoor condenser unit free from debris, leaves, and grass clippings. Periodically rinse the coils with a garden hose to remove dirt buildup. Ensure the area around the unit has at least 2 feet of clear space for proper airflow.



Figure 4: Internal view of the outdoor condenser unit, showing coils and fan assembly.

5.3 Professional Servicing

It is recommended to have your system professionally inspected and serviced annually by a qualified HVAC technician. This ensures optimal performance, identifies potential issues early, and maintains warranty validity.

6. TROUBLESHOOTING

Before calling for service, check these common issues:

- **No Cooling:**
 - Check thermostat settings (set to "Cool" and desired temperature).

- Ensure circuit breakers for both indoor and outdoor units are not tripped.
- Verify the air filter is clean and not blocked.

- **Weak Airflow:**

- Check for a dirty air filter.
- Ensure supply and return vents are open and unobstructed.

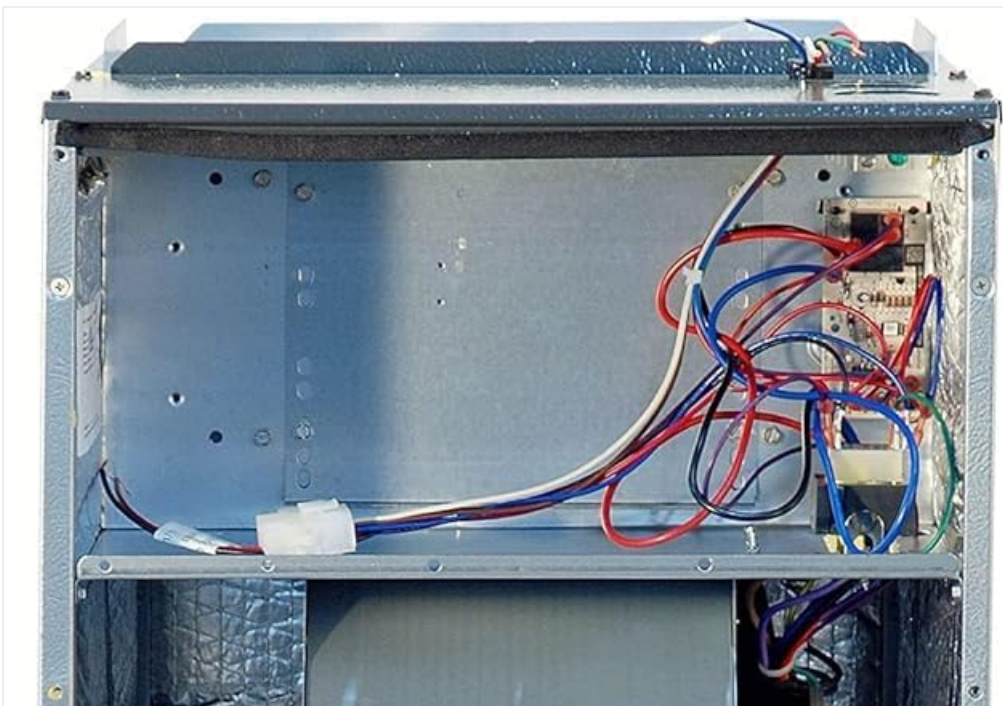
- **Unusual Noises:**

- Rattling or vibrating sounds may indicate loose panels or debris.
- Hissing sounds could indicate a refrigerant leak (contact a technician immediately).

For complex issues or refrigerant concerns, contact a qualified HVAC professional.

7. SPECIFICATIONS

Feature	Specification
Brand	Goodman
Outdoor Unit Model	GLXS4BA3610
Indoor Unit Model	AMST36CU1300
Capacity	3 Tons (36,000 BTU)
SEER Rating	14.5
Refrigerant Type	R-32
Voltage	120 Volts
Noise Level	67 Decibels
Installation Type	Split System
AHRI Certified	Yes (Certificate #214859638)



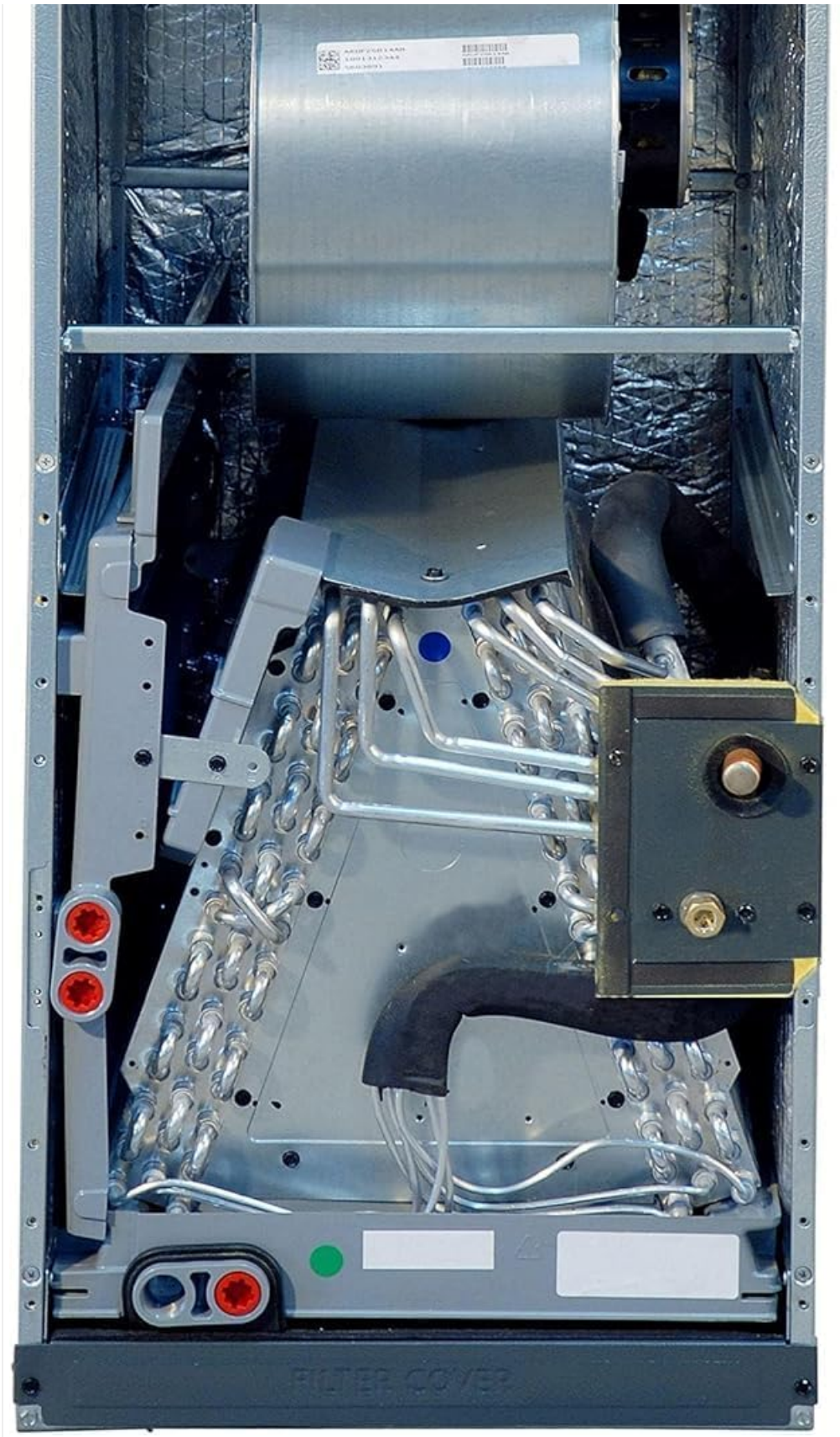


Figure 5: Diagram illustrating the dimensions (Width, Depth, Height) of the outdoor condenser unit.

7.1 SEER2 Rating System (Informational Video)

Your browser does not support the video tag.

Video 2: Explanation of the SEER2 rating system, which became effective January 1, 2023, and how it accurately reflects real-world efficiency.

7.2 R-32 Refrigerant Information (Informational Video)

Your browser does not support the video tag.

Video 3: Information about R-32 refrigerant, its global usage, and its benefits in HVAC systems.

8. WARRANTY INFORMATION

This system comes with a **10-year warranty on all parts** when installed by a qualified installer and registered online within 60 days of installation. Keep your proof of purchase and installation records for warranty claims.



Figure 6: Image indicating the 10-year limited warranty.

9. SUPPORT AND CONTACT

For further assistance, technical support, or to locate a qualified service technician, please refer to the official Goodman website or contact their customer service. Always provide your model and serial numbers when seeking support.

Goodman Website: www.goodmanmfg.com