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GarveeTech SAC12-S22-B

GarveeTech Mini Split AC/Heating System User Manual

Model: SAC12-S22-B

1. Product Overview

The GarveeTech Mini Split AC/Heating System is an all-season 4-in-1 unit designed for efficient climate control. It offers cooling, heating, dehumidifying, and fan-only modes, adapting to your needs throughout the year. This system utilizes inverter technology for precise temperature control and energy savings.



Figure 1: Overview of the GarveeTech Mini Split AC/Heating System components.

The system is suitable for rooms up to 750 sq ft, making it ideal for bedrooms, offices, garages, or small apartments. Its inverter technology automatically adjusts to the room's needs, providing quieter operation, better temperature control, and lower power bills compared to traditional AC systems.



Figure 2: The system provides fast cooling to 60°F in 30 seconds and heating to 89°F in 60 seconds.



Figure 3: Coverage and capacity details for the GarveeTech Mini Split System.

2. Setup and Installation

Professional installation is required to ensure compliance and peak performance of the GarveeTech Mini Split AC/Heating System. The unit comes pre-charged with R32 refrigerant for up to 25 feet of line length. The installation kit includes the

necessary lines, remote, and mounting plate.

The outdoor unit features a compact design, approximately 23% smaller than conventional models, allowing for installation in tight spaces like balconies or rooftops. A modular under-jaw mounting system and quick-release panels facilitate easier maintenance and installation by qualified technicians.



Figure 4: Dimensions of the indoor and outdoor units for installation planning.

Note: Installation brackets are not included. Always consult a professional for installation to ensure safety and proper operation.

3. Operating Instructions

The GarveeTech Mini Split System offers versatile operation with its 4-in-1 functionality: Cooling, Heating, Dry (dehumidification), and Fan-Only modes. You can select fan speeds including Turbo, High, Medium, Low, or Auto.

3.1 Remote Control Operation

The system comes with a smart, fully-featured remote control that allows you to manage all functions from up to 26 feet away. Use the remote to:

- Power the unit on/off.
- Switch between Cooling, Heating, Dry, and Fan modes.
- Set up timers for automated operation.
- Adjust fan speeds (Turbo, High, Medium, Low, Auto).
- Control the temperature with precision (within ±0.1 °C / 0.18 °F).
- Activate the 4-way swing function for consistent air distribution.



Figure 5: Remote control for convenient operation of the system.

3.2 Quiet Operation

Designed for noise-sensitive environments, the system operates quietly. Sound levels range from 41 dB in Turbo mode down to just 23 dB in Sleep mode. This is achieved through a torque-compensation algorithm, dual-layer silencer cotton, fluid-dynamics-optimized air ducts, and specialized damping materials.



Figure 6: The system's quiet operation ensures uninterrupted comfort, even in bedrooms.

3.3 Energy Efficiency

The system is ETL and AHRI certified with a 22 SEER2 efficiency rating, utilizing R-32 refrigerant. This combination allows it to cut energy use by over 25% and outperform standard units by more than 34%.

3.4 LED Display

The unit features an LED display that is bright when needed and can be hidden when not desired, providing a sleek aesthetic.

4. Maintenance

Regular maintenance ensures the longevity and optimal performance of your GarveeTech Mini Split System. The unit is designed with features to simplify upkeep.

4.1 Filter Cleaning

The system includes washable air filters. Automated reminders from the remote control will alert you when it's time to clean the filter. Regular cleaning helps maintain air quality and system efficiency.



Figure 7: The system provides reminders for filter cleaning, which is simple to perform.

4.2 Self-Cleaning Function

The unit features a built-in 57 °C auto-rinse cycle that removes 99.9% of internal buildup, preventing mold and delivering perpetually fresh airflow. Additionally, whenever you switch off Cooling, Dry, or Auto mode, a post-run drying cycle gently circulates air through coils to eliminate residual moisture and prevent odors.



Figure 8: The 56°C high temperature self-cleaning function ensures clean and fresh air.

5. Troubleshooting

This section provides guidance on common issues and safety features of your GarveeTech Mini Split System.

5.1 Power Outage Recovery

After a power outage, the unit is designed to recall your last settings and resume operation automatically once power is restored.

5.2 Refrigerant Leak Monitoring

The system includes real-time refrigerant-leak monitoring. If a fault is detected, the compressor will instantly shut down to ensure safety. A compulsory freon-recycling mode safely reclaims refrigerant under low-pressure winter-heating conditions.

5.3 Contacting Support

For assistance with installation guidance, error troubleshooting, or any technical inquiries, please contact our customer service team. This can help avoid unnecessary third-party service fees.

6. Specifications

Feature	Detail
Brand	GarveeTech
Model Number	SAC12-S22-B
Size	11,500 BTU 115V
Cooling Power	12,000 British Thermal Units
Heating Capacity	12,300 British Thermal Units
Coverage Area	Up to 750 sq ft (optimal) / 1,250 sq ft (comfort band)
Voltage	115 Volts
Wattage	3605 watts
SEER2 Efficiency	22
Refrigerant Type	R-32 (precharged for up to 25 ft)
Sound Level (Sleep Mode)	23 dB
Sound Level (Turbo Mode)	41 dB

Feature	Detail
Product Dimensions	11.61"D x 29.96"W x 7.87"H (Indoor Unit)
Item Weight	68.3 pounds
Special Features	Inverter Compressor, Heating & Cooling, Dehumidifier, 4 Way Swing, Turbo Mode, Sleep Mode, Air Purification Filter, Filter Light Reminder, Remote Controlled, Self-cleaning (57°C auto-rinse)
Included Components	Outdoor unit, indoor unit, mounting accessories (lines, remote, mounting plate)

7. Warranty and Support

GarveeTech stands behind its products with comprehensive warranty coverage:

- **Manufacturer's Warranty:** A 5-year manufacturer's warranty covers shipping damage, parts failure under normal use, and other functional issues.
- **Compressor Warranty:** The compressor is covered by a 5-year warranty.

For any assistance, including installation guidance, error troubleshooting, or technical inquiries, please contact GarveeTech customer service directly. This ensures you receive accurate support and helps avoid unnecessary third-party service fees.

Note: The product ships in two packages, which may arrive separately.

Ask a question about this manual

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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

Answered questions about this manual

What type of access valve is used on the refrigerant line for the GarveeTech SAC12-S22-B Mini Split?

The provided documentation for the GarveeTech SAC12-S22-B does not explicitly state the specific size or type of the access valve (service port) on the refrigerant lines. However, based on standard industry practices for mini-split...

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