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GarveeTech Split AC

GarveeTech 9000 BTU Mini Split Air Conditioner and Heat Pump System User Manual

Model: Split AC

1. Introduction

This manual provides instructions for the installation, operation, and maintenance of your GarveeTech 9000 BTU Mini Split Air Conditioner and Heat Pump System. Please read this manual thoroughly before using the product to ensure proper function and safety.

Package Contents

The GarveeTech Mini Split AC system includes the following components:

- 1 x Indoor Unit
- 1 x Outdoor Condenser
- 1 x 16 ft Copper & Aluminum Connection Pipe (Line Set)
- 1 x Wall Mounting Bracket
- 1 x Drain Hose
- 1 x Communication Wires
- 1 x Wireless Remote Controller
- Small Accessories (e.g., insulation tape, sealant)
- 1 x User Guide (this manual)



Image 1.1: Overview of the GarveeTech Mini Split AC system and included components.

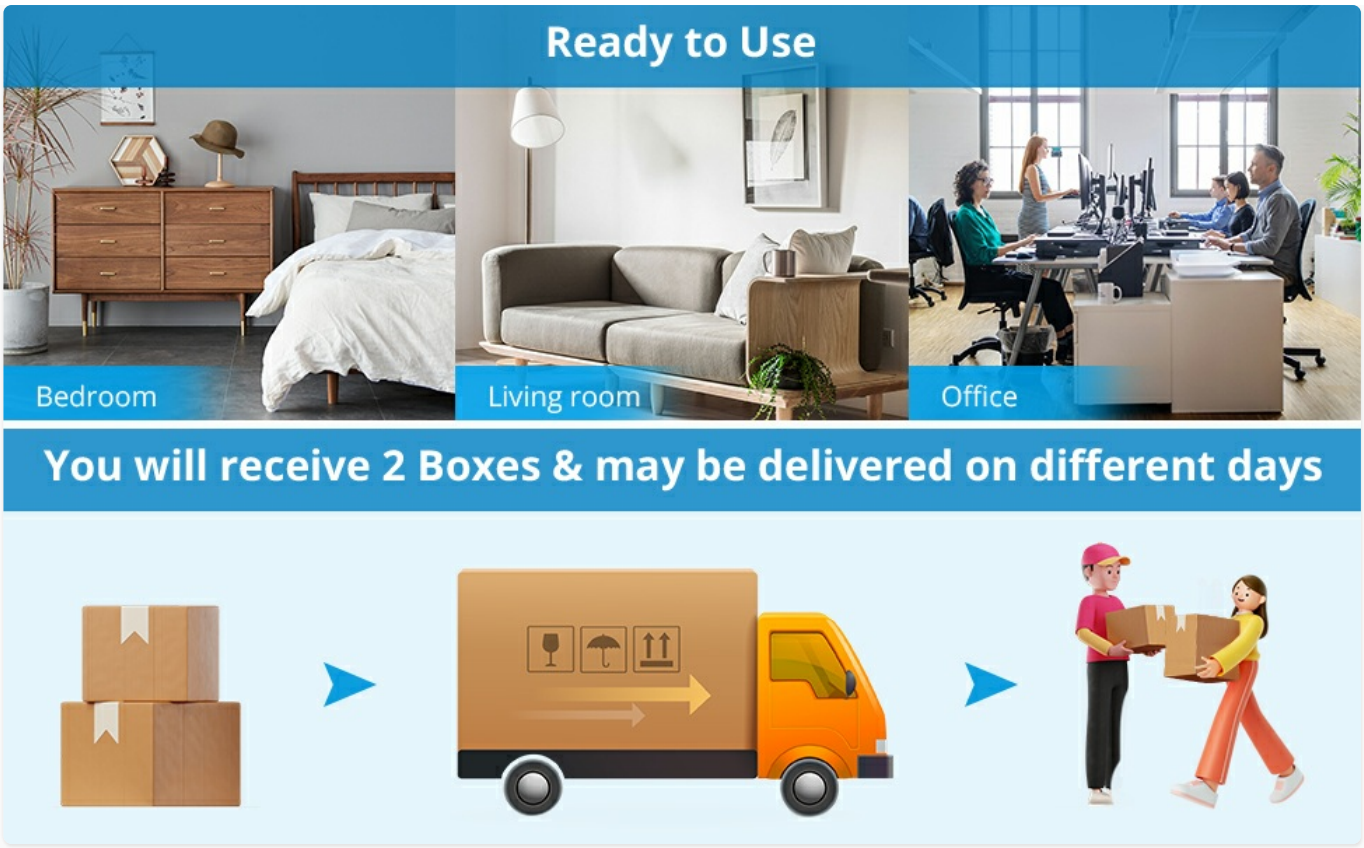

Image 1.2: The system is designed for various indoor environments such as bedrooms, living rooms, and offices. Please note that the product may be delivered in two separate boxes on different days.

2. Safety Information

Please read and follow all safety precautions to prevent injury or damage. Keep this manual for future reference.

General Safety Warnings

- **Professional Installation Recommended:** Installation should be performed by a qualified technician to ensure proper function and safety.
- **Electrical Safety:** Ensure the power supply matches the unit's requirements (115V). Do not use extension cords.
- **Grounding:** The unit must be properly grounded to prevent electrical shock.
- **Clearances:** Maintain adequate clearance around both indoor and outdoor units for proper airflow.
- **Refrigerant:** The system contains refrigerant. Do not attempt to service the refrigerant lines yourself.
- **Children and Pets:** Keep children and pets away from the unit, especially during operation and maintenance.
- **Cleaning:** Disconnect power before cleaning or performing maintenance.

3. Setup and Installation

Professional installation is strongly recommended for optimal performance and to ensure compliance with local codes. The unit is pre-charged with refrigerant.

Installation Overview

1. **Site Selection:** Choose appropriate locations for the indoor and outdoor units, ensuring proper clearances and drainage.
2. **Mounting:** Securely mount the indoor unit to the wall using the provided bracket and install the outdoor

condenser on a stable, level surface.

3. **Line Set Connection:** Connect the 16 ft copper and aluminum line set between the indoor and outdoor units. Ensure connections are tight and leak-free.
4. **Electrical Wiring:** Connect the communication wires and power supply according to the wiring diagram in the detailed installation guide (not included in this summary).
5. **Drainage:** Install the drain hose from the indoor unit to ensure proper condensate removal.
6. **Vacuum and Leak Test:** A vacuum pump must be used to evacuate the system, and a leak test performed before operation.

4. Operating Instructions

The GarveeTech Mini Split AC offers multiple operating modes and smart control options for personalized comfort.

Operating Modes

The system features five primary modes:

- **Cool Mode:** Provides cooling with adjustable temperature settings (down to 61°F).
- **Heat Mode:** Provides heating with adjustable temperature settings (up to 88°F).
- **Fan Mode:** Circulates air without heating or cooling. Four fan speeds are available.
- **Dry Mode (Dehumidification):** Reduces humidity in the room.
- **Auto Mode:** Automatically selects cooling or heating based on the set temperature and ambient room temperature.



Image 4.1: The 4-in-1 functionality of the GarveeTech Mini Split AC, including heating, cooling, fan, and dry modes.



Image 4.2: The system's versatility across different modes and environments.



Image 4.3: The built-in heat pump provides both cooling and heating capabilities.



Image 4.4: The system provides long-distance air supply, with shower-style cooling and blanket-style heating for even temperature distribution.

Special Functions

- **Sleep Mode:** Adjusts temperature and fan speed for quiet operation during sleep, with noise levels ranging from 30 to 41 dBa. The remote control display turns off after 10 seconds of inactivity.
- **ECO Mode:** Optimizes energy consumption.
- **IFEEL Function:** The remote control senses the temperature around it and adjusts the unit's operation for localized comfort.
- **Turbo Function:** Provides rapid cooling or heating.
- **Timer:** Set the unit to turn on or off automatically within a 0.5 to 24-hour period.



Image 4.5: The system operates quietly, making it suitable for bedrooms, and includes a timer function for scheduled operation.

Smart Control

The GarveeTech Mini Split AC can be controlled via Wi-Fi and integrated with smart home systems.

- **Wi-Fi Control:** Use the dedicated smartphone app to adjust settings from anywhere.
- **Voice Control:** Compatible with Alexa and Google Home for hands-free operation.



Image 4.6: The system supports smart control via Wi-Fi and voice assistants like Alexa.



Image 4.7: Control your air conditioner remotely using the smartphone app.

5. Maintenance

Regular maintenance ensures efficient operation and extends the lifespan of your unit. Always disconnect power before performing any maintenance.

Filter Cleaning

The indoor unit is equipped with a multi-stage filter system to improve air quality.

- **Filter Types:** The system includes a top-opened filter and healthy filters such as Silver Ion Filter, Active Carbon Filter, Catechin Filter, Photocatalyst Filter, Anti-dust static Filter, and Vitamin C Filter.
- **Cleaning Frequency:** Clean the air filters every two weeks or more frequently depending on usage and air quality.
- **Procedure:** Open the front panel of the indoor unit, remove the filters, and clean them with a vacuum cleaner or wash them with lukewarm water. Allow filters to dry completely before reinserting.



Image 5.1: The distributed healthy filter system helps maintain air quality.

Outdoor Unit Maintenance

- Keep the area around the outdoor unit clear of debris, leaves, and other obstructions.
- Periodically clean the outdoor coil with a soft brush or water hose to remove dirt and dust.

6. Troubleshooting

Refer to this section for common issues and their solutions. If the problem persists, contact customer support.

Problem	Possible Cause	Solution
Unit does not turn on	No power supply; Remote control batteries low	Check power connection and circuit breaker; Replace remote control batteries.
Insufficient cooling/heating	Dirty air filters; Blocked outdoor unit; Incorrect mode setting; Room size exceeds capacity	Clean air filters; Clear obstructions from outdoor unit; Select appropriate mode; Ensure unit capacity matches room size (up to 500 sq. ft.).
Unusual noise	Loose parts; Obstruction in fan; Unit not level	Check for loose components; Remove any obstructions; Ensure unit is installed on a level surface.
Water leakage from indoor unit	Clogged drain hose; Improper installation	Clear drain hose; Consult a professional for installation check.

7. Specifications

Feature	Detail
Model Number	Split AC
Cooling Capacity	9000 BTU/hour
Heating Capacity	9000 BTU/hour
SEER2 Rating	19
Voltage	115V
Coverage Area	Up to 500 Sq. Ft.
Operating Modes	Cool, Heat, Fan, Dry, Auto
Noise Level (Indoor)	30-41 dBa (Sleep Mode)
Refrigerant	Pre-charged
Product Dimensions	35.04 x 23.82 x 23.82 inches
Item Weight	89.3 pounds
Color	White

8. Warranty and Support

Warranty Information

The GarveeTech Mini Split AC system comes with a**2-year warranty**. Please retain your proof of purchase for warranty claims.

Customer Support

For technical assistance, troubleshooting beyond this manual, or warranty inquiries, please contact GarveeTech customer support. Refer to the contact information provided with your purchase documentation or visit the official GarveeTech website.

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