

Manastin MS24SAC120S

Manastin 12000BTU Mini Split Air Conditioner & Heater User Manual

Model: MS24SAC120S

1. PRODUCT OVERVIEW

The Manastin 12000BTU Mini Split Air Conditioner and Heater with Inverter is designed to provide year-round comfort for spaces up to 750 sq. ft. This energy-efficient unit offers both cooling in summer and heating in winter, utilizing advanced inverter technology for optimal performance and reduced energy consumption. It operates quietly, making it suitable for various environments including bedrooms, offices, and living spaces.

Key features include multiple operating modes (Cooling, Heating, Auto, Fan, Dry), adjustable fan speeds, a 24-hour timer, Sleep Mode, Eco Mode, and Turbo Boost. The system uses eco-friendly R32 refrigerant and incorporates anti-mildew and automatic defrost functions for enhanced durability and performance.



Figure 1: Manastin 12000BTU Mini Split Air Conditioner and Heater with included components.

Fast cooling & Heating

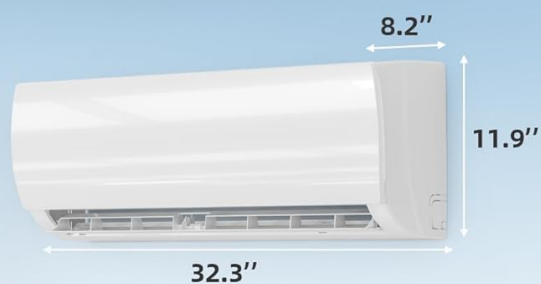
12000 BTU Cooling Capacity	750 SQ.FT Coverage Area	1 TON Heat Pump	12500 BTU Heating Capacity
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Figure 2: The unit provides both fast cooling and heating for year-round comfort.

2. SETUP AND INSTALLATION

Professional installation is required to ensure proper setup and optimal performance of your Manastin Mini Split Air Conditioner. The unit is shipped in two separate packages, which may arrive at different times.

Delivered in Two Packages for Easy Transport and Set up



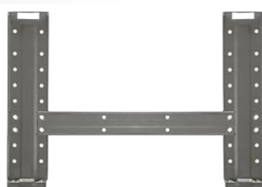
Indoor Unit



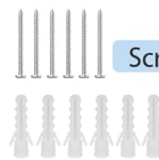
Outdoor Unit



9.8 ft Copper Connection Pipe *2



Hanging Board



Expansion screw ×6



Wall Sleeve



12.4ft /6.5ft Communication Wire



Instruction Manual



6.8ft drain pipe



Remote Control



Putty



Tape

Figure 3: The product is delivered in two separate packages.

2.1. Installation Video Guide

For a comprehensive visual guide on the installation process, please refer to the official Manastin installation video:

Video 1: Official installation guide for the Manastin Mini Split Air Conditioner & Heater with Inverter.

2.2. Key Installation Steps

- **Preparation:** Ensure all accessories are complete. The wall for indoor unit installation must be hard and firm to prevent vibration. Reserve adequate space around both indoor and outdoor units as per diagrams for optimal airflow and maintenance.
- **Indoor Unit Mounting:** Fasten the pegboard horizontally using appropriate screws. Make a wall hole for piping, ensuring it slants outwardly by 5-10 degrees for proper drainage.
- **Electrical Connections (Indoor Unit):** Pass the power cable out from the back of the indoor unit and fix it on the terminal board. Ensure cables are securely clamped.
- **Drain Pipe and Refrigerant Piping:** Remove the knock-out panel for the drain pipe. Connect the connecting pipe to the indoor unit, aiming at the pipe center and tightening with a torque wrench according to the provided table. Carefully check for any damage to joints. Use insulation sleeves and

plastic cable ties to wrap connecting pipes, cables, and the drain hose, ensuring the pipe slopes downward.

- **Wall Penetration:** Put the refrigerant piping out of the wall hole. Install a pipe protecting ring and seal it with putty to protect piping and wires.
- **Outdoor Unit Mounting:** Use at least 6 expansion bolts to securely fix the mounting brackets on the wall. Place the outdoor unit onto the brackets and use 4 screws to fix its feet.
- **Refrigerant Pipe Connection (Outdoor Unit):** Remove the nuts from the stop valves. Aim at the pipe center of the stop valve and tighten the taper nut with fingers, then with two wrenches.
- **Electrical Connections (Outdoor Unit):** Remove the electrical box cover. Connect the cables respectively to the corresponding terminals of the terminal board of the outdoor unit as per the wiring diagram. Ensure the grounding wire is properly connected and all cables are fixed reliably with fasteners.
- **Vacuumping and Refrigerant Release:** Before working on the air conditioner, remove the cover of the stop valve. Fully open the handle Lo of the manifold valve and apply vacuum for at least 15 minutes, checking that the compound vacuum gauge reads -0.1MPa (-76cmHg). After vacuumping, fully open the stop valve with a hex wrench. Screw all the caps back on and tighten them up.

3. OPERATING INSTRUCTIONS

The Manastin Mini Split Air Conditioner offers multiple functions and modes for customized comfort. The unit is controlled via the included remote control.

3.1. Operating Modes

- **Cooling Mode:** Provides powerful cooling to lower room temperature.
- **Heating Mode:** Delivers warmth to heat the room during colder periods.
- **Auto Mode:** Automatically selects the appropriate mode (cooling or heating) based on the ambient temperature.
- **Fan Mode:** Circulates air without cooling or heating.
- **Dry Mode:** Reduces humidity in the room.

3.2. Fan Speeds

Select from four adjustable fan speeds:

- Low
- Medium
- High
- Auto

3.3. Special Functions

- **24-Hour Timer:** Program the unit to turn on or off automatically within a 24-hour cycle.
- **Sleep Mode:** Adjusts temperature and fan speed for enhanced comfort during rest, promoting a peaceful night. The unit operates with minimal noise, typically below 41 dB.
- **Eco Mode:** Optimizes energy consumption for more efficient operation.
- **Turbo Boost:** Provides rapid cooling or heating when needed.
- **Auto Swing:** The indoor unit features advanced up and down airflow with 90° auto swing for consistent



Figure 4: Silent Sleep Mode ensures a peaceful environment.



Figure 5: The unit is capable of cooling or heating rooms up to 750 sq. ft.

4. MAINTENANCE

Regular maintenance ensures the longevity and efficient operation of your air conditioner.

4.1. Filter Cleaning

The air filters are washable for easy maintenance and long-term use. It is recommended to clean the filters regularly to maintain optimal airflow and air quality.

4.2. Anti-Mildew Function

This air conditioner features an anti-mildew function that helps maintain the internal components, preventing mold and ensuring optimal performance. It also includes an automatic defrost function to prevent ice buildup, ensuring efficient operation even in colder temperatures.

5. TROUBLESHOOTING

If you encounter any issues with your Manastin Mini Split Air Conditioner, please refer to the following general guidelines. For complex problems or issues requiring technical expertise, it is strongly recommended to contact a certified professional.

- **Unit Not Turning On:** Check the power supply and ensure the unit is properly plugged in. Verify that the circuit breaker has not tripped.
- **Insufficient Cooling/Heating:** Ensure all doors and windows are closed. Check if the air filters are clean and not obstructed. Verify that the correct operating mode and temperature settings are selected.
- **Unusual Noises:** Minor operational noises are normal. However, if you hear loud or unusual sounds, turn off the unit and contact a professional.
- **Water Leakage:** Check if the drain pipe is clear and properly sloped. If leakage persists, turn off the unit and seek professional assistance.
- **Electricity Leakage:** If there is any indication of electricity leakage, immediately turn off the power supply to the unit and contact a qualified technician for further examination.

6. SPECIFICATIONS

Feature	Specification
Brand Name	Manastin
Model Info	MS24SAC120S
Item Weight	89.3 pounds
Product Dimensions	8.2 x 32.3 x 11.9 inches
Country of Origin	China
Capacity	1 Tons (12000 BTU Cooling)
Annual Energy Consumption	3.51 Kilowatts
Noise Level	41 dB
Installation Type	Split System
Form Factor	Mini-Split
Special Features	Fast Cooling
Color	White
Voltage	115 Volts
Wattage	1500 watts
Included Components	Remote Control
BEE Star Rating	5 Star
Seasonal Energy Efficiency Ratio (SEER)	19

7. WARRANTY AND SUPPORT

Manastin is committed to providing high-quality products and comprehensive customer support. For any inquiries regarding your air conditioner, including installation, operation, maintenance, or warranty claims, please contact Manastin Direct customer service. Refer to your purchase documentation for specific warranty terms and conditions.

For optimal performance and safety, always ensure your air conditioner is installed and serviced by a certified professional.