



Manuals.plus /

› ROVSUN /

› ROVSUN 12000 BTU Wifi Enabled Mini Split Air Conditioner & Heater User Manual

ROVSUN W-12K-230V-WIFI

ROVSUN 12000 BTU Wifi Enabled Mini Split Air Conditioner & Heater

Model: W-12K-230V-WIFI

INTRODUCTION

This manual provides detailed instructions for the installation, operation, maintenance, and troubleshooting of your ROVSUN 12000 BTU Wifi Enabled Mini Split Air Conditioner & Heater. Please read this manual thoroughly before installation and use to ensure proper operation and to prevent damage to the unit or injury to yourself.

The ROVSUN mini split system offers powerful cooling and heating capabilities for spaces up to 550 sq.ft., featuring advanced inverter technology for energy efficiency and quiet operation. It includes a heat pump function and effective dehumidification mode for year-round comfort.

SAFETY PRECAUTIONS

Always adhere to the following safety guidelines to ensure safe operation and prevent damage:

- **Professional Installation:** Installation of this mini split system requires specialized knowledge and tools. It is highly recommended that a professional licensed HVAC technician performs the installation to ensure optimal performance, safety, and compliance with local codes.
- **Electrical Safety:** Ensure the unit is connected to a dedicated 230V power supply with appropriate circuit protection. Do not use extension cords. All electrical wiring must comply with local and national electrical codes.
- **Refrigerant Handling:** This unit contains R454B refrigerant. Only qualified personnel should handle refrigerant. Improper handling can lead to leaks and environmental damage.
- **Unit Placement:** Ensure proper clearance around both indoor and outdoor units for adequate airflow and maintenance.
- **Upright Position:** After receiving the unit, keep it upright for at least 24 hours before installation to allow the refrigerant and oil to settle.
- **Children and Pets:** Keep children and pets away from the unit during operation and maintenance.

PACKAGE CONTENTS

The ROVSUN Mini Split Air Conditioner & Heater system is shipped in two separate boxes. Delivery times for each box may vary. Please verify all components are present before scheduling installation.



Ultra Quiet Operation
Enjoy a sweet night's sleep

 **28dB** in MUTE mode

- 10dB**
Breathing
- 28dB**
ROVSUN
- 45dB**
Quiet library
- 55dB**
Talking voice

Image: Detailed diagram illustrating the components included in Box 1 (Indoor Unit, Remote Control, Batteries, Instruction Manual, Mounting Plate, Screws, Rubber Feet, Signal Cable, Bracket Template) and Box 2 (Outdoor Unit, Drain Hose, Sealing Gum, Wall Cap, Drain Joint, Tape, Wall Sleeve, Insulation Foam, Copper Line Set). Note that the power cord is not included.

Box 1 Contents:

- Indoor Unit
- Remote Control
- 2 Batteries (for remote)
- Instruction Manual (this document)
- Mounting Plate
- Screws
- Rubber Feet

- Signal Cable (19ft)
- Bracket Template

Box 2 Contents:

- Outdoor Unit
- Drain Hose (13.1ft)
- Sealing Gum
- Wall Cap
- Drain Joint
- Tape
- Wall Sleeve
- Insulation Foam
- Copper Line Set (16.4ft)

Note: The power cord is not included and must be purchased separately according to local electrical codes.

INSTALLATION GUIDE

Proper installation is crucial for the performance and longevity of your mini split system. Due to the complexity involving refrigerant lines and electrical connections, professional installation by a certified HVAC technician is strongly recommended.

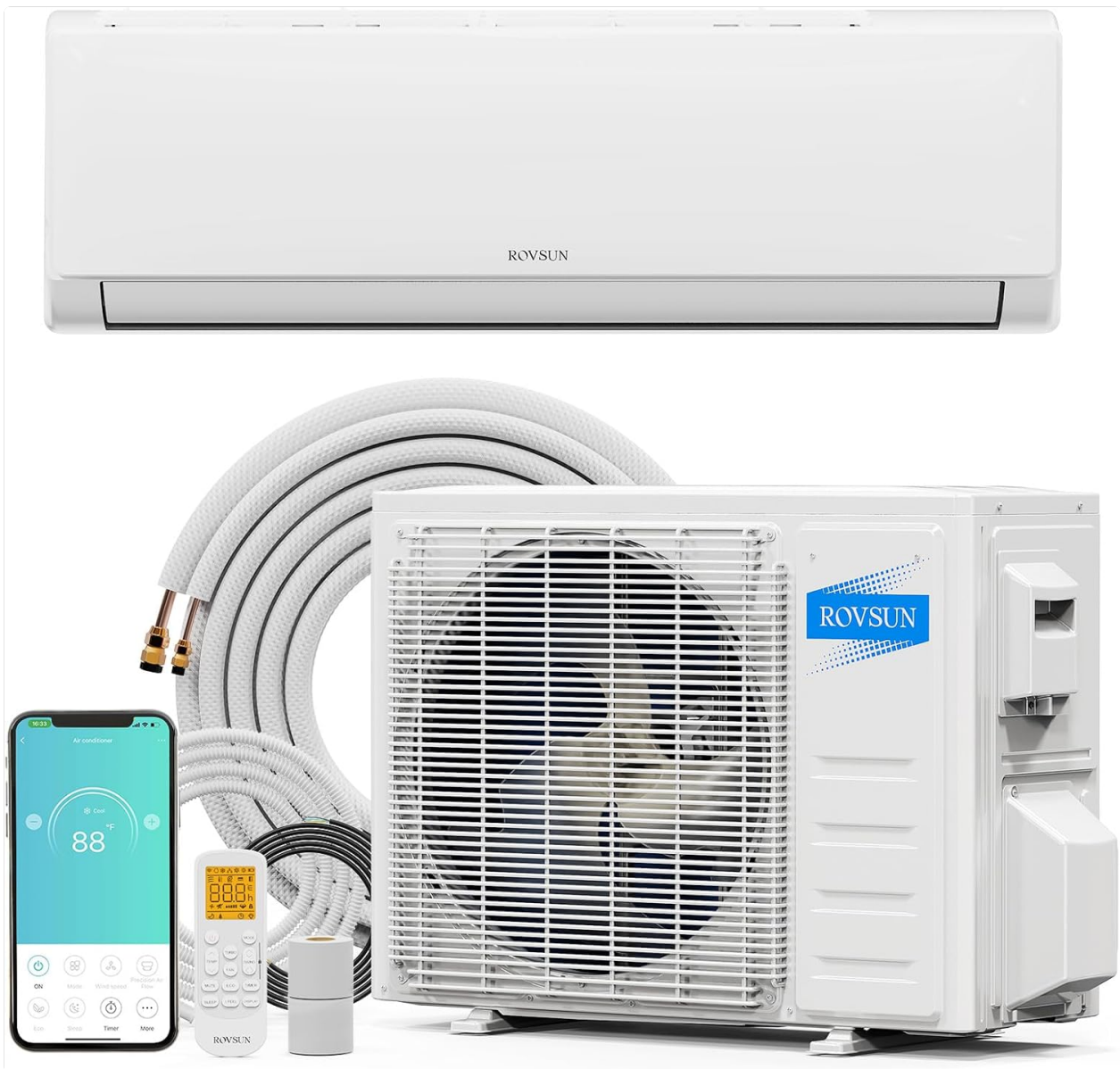


Image: The complete ROVSUN mini split system, including the indoor unit, outdoor unit, pre-charged copper lines, remote control, and smartphone displaying the control app, illustrating the comprehensive nature of the product and its components.

Pre-Installation Steps:

1. **Unpacking and Inspection:** Carefully unpack all components. Inspect for any shipping damage. If damage is found, contact your retailer immediately.
2. **Unit Orientation:** Ensure both the indoor and outdoor units remain upright for at least 24 hours prior to installation. This allows the compressor oil and refrigerant to settle properly.
3. **Site Selection:** Choose appropriate locations for both the indoor and outdoor units, considering factors such as air circulation, noise levels, drainage, and structural support. Ensure the outdoor unit is placed at least 1 foot from any walls for proper airflow.
4. **Power Supply Verification:** This 12000 BTU unit requires a 230V power supply. Verify your electrical system can support the unit's requirements (15A max fuse size) and that a dedicated circuit is available.

Key Installation Considerations:

- **Line Set Connection:** The unit comes with pre-charged copper lines (16.4ft). Proper connection and vacuuming of these lines are critical to prevent refrigerant leaks and ensure system efficiency.
- **Drainage:** Ensure the drain hose is properly installed with a downward slope to allow for continuous

condensate drainage.

- **Electrical Wiring:** All electrical connections must be secure and insulated. A disconnect switch should be installed near the outdoor unit for safety and maintenance.
- **Wall Penetration:** A 2 1/8 inch hole is typically required for the line set and drainage. Use the provided bracket template for accurate drilling.

Important: Do not attempt to install the unit yourself if you are not a qualified HVAC technician. Improper installation can void the warranty and lead to serious safety hazards.

OPERATING INSTRUCTIONS

Your ROVSUN mini split system offers multiple modes and control options for optimal comfort.



Image: A woman enjoying the comfortable climate provided by the ROVSUN mini split system in a modern living space, highlighting the unit's ability to create a pleasant indoor environment.

Control Options:

- **Remote Control:** The included remote control provides full functionality to adjust modes, temperature, fan speed, and other settings. Ensure batteries are installed correctly.
- **Smartphone App:** Download the ROVSUN app to control your unit from anywhere. The app allows for scheduling, mode changes, and temperature adjustments.
- **Voice Control:** The unit is compatible with Alexa and Google Assistant. Connect your unit to your smart home system for convenient voice commands.

Feel the Smart Control of Modern Appliance
choose the way you want to use it

1 "Hey Alexa, set my split air conditioner to Cool Mode"
"Okay!"

2 Remote

3 ROVSUN App

works with Google Assistant

works with amazon alexa

Image: An illustration demonstrating the versatile control options for the ROVSUN mini split system, including voice commands via smart assistants, traditional remote control, and the dedicated ROVSUN mobile application.

Operating Modes:

The unit features a 4-in-1 multifunctional design for year-round climate control:

- **Cooling Mode:** Provides powerful cooling with a wide temperature range (61°F-88°F). Ideal for hot climates, cooling effectively even at outdoor temperatures up to 122°F.
- **Heating Mode:** Utilizes heat pump technology for efficient heating, operating effectively even at outdoor temperatures as low as -4°F.
- **Dehumidification Mode:** Reduces humidity levels in the air, providing a more comfortable environment.

- **Fan Mode:** Circulates air without heating or cooling.

4-IN-1
MULTIFUNCTIONAL
DESIGN
perfect for all
seasons needs

 Fan  Dehumidifier

 Heater  Air Conditioner



Image: A visual representation of the ROVSUN mini split's versatility, showcasing its ability to cool effectively in hot conditions (up to 122°F) and heat efficiently in cold conditions (down to -4°F), demonstrating its suitability for all seasons.

Key Features:

- **Rapid Cooling & Heating:** Achieves desired temperatures quickly, with 12000 BTU cooling capacity and 12600 BTU heating capacity, covering up to 550 sq.ft.



Image: An infographic highlighting the rapid cooling (30 seconds, 12000 BTU) and heating (60 seconds, 12600 BTU) capabilities of the ROVSUN mini split system, along with its effective coverage area of up to 550 square feet.

- **Energy Saving (21 SEER2):** Advanced inverter technology automatically adjusts compressor speed, leading to up to 35% energy savings compared to conventional systems.

Inverter Split Air Conditioner

SAVING OVER 35%

- ✓ High Energy Efficiency
- ✓ Lower Energy Cost

R454B Refrigerant

• HIGH SEER₂ GRADE = LOWER ENERGY COST



Image: A comparative chart illustrating the energy efficiency of the ROVSUN Inverter Split Air Conditioner (19-21 SEER₂ with R454B refrigerant) against other systems, demonstrating over 35% energy cost savings due to its high SEER₂ grade.

- **Whisper-Quiet Operation:** Operates at an ultra-quiet 28dB in mute mode, ensuring a peaceful indoor environment, comparable to a soft whisper.

Package List

! Comes in 2 boxes & delivery time may be different per box

BOX 1

- | | |
|----------------------|-----------------------|
| 1 Indoor Unit | 6 Screws |
| 2 Remote Control | 7 Rubber Feet |
| 3 2 Batteries | 8 Signal Cable - 19ft |
| 4 Instruction Manual | 9 Bracket Template |
| 5 Mounting Plate | |

BOX 2

- | | |
|-----------------------|-----------------------------|
| 10 Outdoor Unit | 15 Tape |
| 11 Dran Hose - 13.1ft | 16 Wall Sleeve |
| 12 Sealing Gum | 17 Insulation Foam |
| 13 Wall Cap | 18 Copper Line Set - 16.4ft |
| 14 Drain Joint | |

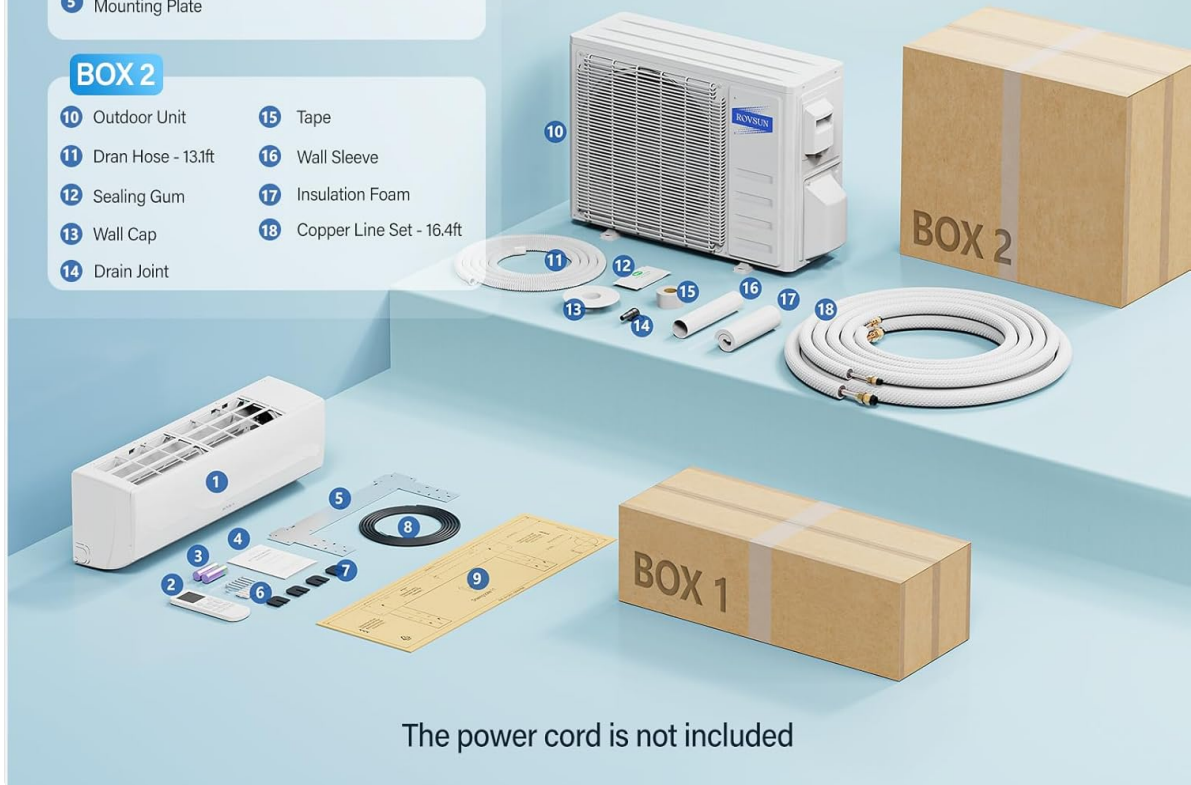


Image: An infographic illustrating the ultra-quiet operation of the ROVSUN mini split, highlighting its 28dB noise level in mute mode, which is significantly quieter than a quiet library (45dB) and barely above the sound of breathing (10dB).

- **Smart Functions:** Includes ECO mode for further energy savings, Sleep mode for optimized nighttime comfort, Turbo function for quick temperature changes, and Auto-defrost for efficient heating in cold conditions.

MAINTENANCE

Regular maintenance ensures the efficiency and longevity of your ROVSUN mini split system.

Indoor Unit Maintenance:

- **Air Filter Cleaning:** The air filters should be cleaned every 2-4 weeks, or more frequently depending on usage and air quality. Open the front panel, remove the filters, wash them with lukewarm water and mild detergent, rinse thoroughly, and allow them to air dry completely before reinserting.
- **Unit Surface Cleaning:** Wipe the surface of the indoor unit with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners.

Outdoor Unit Maintenance:

- **Coil Cleaning:** Periodically inspect the outdoor coil for dirt, leaves, or debris. Use a soft brush or vacuum cleaner to remove any obstructions. For deeper cleaning, professional service is recommended.
- **Clearance:** Ensure that the area around the outdoor unit remains clear of obstructions to allow for proper airflow.
- **Drainage Check:** Verify that the condensate drain line is not clogged and water is draining freely from both indoor and outdoor units (if applicable).

Seasonal Maintenance:

- Before the cooling or heating season, it is advisable to have a professional HVAC technician perform a comprehensive check-up of the system, including refrigerant levels, electrical connections, and overall performance.

TROUBLESHOOTING

This section provides solutions to common issues you might encounter with your ROVSUN mini split system. For more complex problems, contact a qualified technician.

Problem	Possible Cause	Solution
Unit does not turn on	No power supply; Circuit breaker tripped; Remote control batteries dead.	Check power connection; Reset circuit breaker; Replace remote control batteries.
Insufficient cooling/heating	Dirty air filters; Obstruction to airflow (indoor/outdoor); Incorrect mode setting; Low refrigerant.	Clean air filters; Remove obstructions; Select correct mode; Contact technician for refrigerant check.
Unusual noise	Loose parts; Debris in fan; Unit not level.	Check for loose components; Inspect for debris; Ensure unit is level.
Water leakage (indoor unit)	Clogged drain hose; Improper installation angle.	Clear drain hose; Consult installation manual or technician for proper angle.
WiFi connection issues	Incorrect setup procedure; Router interference; App issues.	Ensure correct WiFi setup steps (e.g., pressing display 6 times for pairing); Restart router; Reinstall app; Consult app's troubleshooting guide.
Remote control not working	Dead batteries; Obstruction between remote and unit; Remote sensor blocked.	Replace batteries; Remove obstructions; Ensure remote sensor on indoor unit is clear.

PRODUCT SPECIFICATIONS

Below are the detailed specifications for the ROVSUN 12000 BTU Wifi Enabled Mini Split Air Conditioner & Heater (Model: W-12K-230V-WIFI).



Image: A detailed diagram providing the dimensions of both the indoor and outdoor units of the ROVSUN mini split system, alongside a table listing key performance specifications such as BTU, SEER2, voltage, noise level, and suitable area coverage.

Specification	Value
Brand Name	ROVSUN
Model Info	G46000577+G46000578
Item Model Number	W-12K-230V-WIFI
Rated Cooling Capacity (95°F/35°C)	12000 BTU
Rated Heating Capacity (47°F/8.3°C)	12600 BTU
SEER2	21 SEER2

Specification	Value
Voltage	230 Volts
Max. Fuse Size	15A
Indoor Noise Level at Cooling	Turbo/High/Med/Low/Mute (45/42/35/30/28 dB(A))
Connecting Pipe Length	16.4ft
Connecting Pipe Gas Line	3/8"
Connecting Pipe Liquid Line	1/4"
Suitable Area	Up to 550 sq.ft
Indoor Unit Net Weight	19.8 lbs
Outdoor Unit Net Weight	55.1 lbs
Outdoor (Cooling) Ambient Temperature Range	5°F - 122°F
Outdoor (Heating) Ambient Temperature Range	-4°F - 86°F
Product Dimensions (Indoor Unit)	31.92"W x 7.99"D x 11.49"H
Product Dimensions (Outdoor Unit)	28.14"W x 11.42"D x 19.61"H
Color	White
Installation Type	Split System
Special Features	Heating And Cooling Function, Inverter Compressor, Energy Efficient, ECO mode, Sleep mode, Voice Control, APP Control, 4 Way Swing, Dehumidifier, Fast Cooling, Turbo function, Auto-defrost

WARRANTY AND SUPPORT

ROVSUN is committed to providing high-quality products and customer satisfaction.

Return Policy:

ROVSUN offers a 30-day return policy. During this period, the company covers the shipping cost of return and replacement under the following conditions: if the item is defective or damaged, or if parts are missing. For any other reasons related to product quality issues, you may be eligible for a return. Please contact customer service for detailed instructions.

Customer Support:

For any questions, technical assistance, or warranty claims, please contact ROVSUN customer service. Provide your product model number (W-12K-230V-WIFI) and purchase details for faster service. ROVSUN aims to be a professional household appliance solution provider, catering to your demands accurately and welcoming feedback to improve the purchasing experience.