

[Manuals.plus](#) /

› [ROVSUN](#) /

› ROVSUN 24000 BTU Mini Split Air Conditioner & Heater User Manual

ROVSUN W-24K-230V-WIFI

ROVSUN 24000 BTU Mini Split Air Conditioner & Heater User Manual

Model: W-24K-230V-WIFI

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation, installation, and maintenance of your ROVSUN 24000 BTU Mini Split Air Conditioner and Heater. Please read this manual thoroughly before installation and use, and retain it for future reference.

The ROVSUN Mini Split system offers powerful cooling and heating capabilities for spaces up to 1500 sq.ft. It features advanced inverter technology for energy efficiency, quiet operation, and intelligent control options including remote, app, and voice commands.

2. SAFETY INFORMATION

Important Safety Instructions:

- Read all instructions before using this appliance.
- Installation must be performed by a qualified and licensed HVAC technician in accordance with all local and national electrical and safety codes.
- Ensure the power supply matches the specifications listed on the unit's nameplate.
- Always disconnect power before performing any maintenance or cleaning.
- Do not operate the unit with wet hands or in wet conditions.
- Keep children and pets away from the outdoor unit.
- Do not block air inlets or outlets of either unit.
- If the power cord is damaged, it must be replaced by the manufacturer, its service agent, or similarly qualified persons to avoid a hazard.

3. PACKAGE CONTENTS

The ROVSUN Mini Split system is typically delivered in two separate boxes. Please verify all components are present upon receipt. Note that the power cord is not included and must be sourced separately according to local electrical codes.



Image Description: This diagram illustrates the components included in the ROVSUN Mini Split system. Box 1 contains the Indoor Unit, Remote Control, 2 Batteries, Instruction Manual, Mounting Plate, Screws, Rubber Feet, Signal Cable (19ft), and Bracket Template. Box 2 contains the Outdoor Unit, Drain Hose (13.1ft), Sealing Gum, Wall Cap, Drain Joint, Tape, Wall Sleeve, Insulation Foam, and Copper Line Set (16.4ft). A note indicates 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 (19 ft)
- Bracket Template

Box 2 Contents:

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

4. SPECIFICATIONS

The following table details the technical specifications for the ROVSUN 24000 BTU Mini Split Air Conditioner & Heater (Model: W-24K-230V-WIFI).



Image Description: This image displays a detailed specification chart and dimensional drawings for both the indoor and outdoor units of the ROVSUN Mini Split system. Key specifications include 24000 BTU cooling capacity, 24600 BTU heating capacity, 21 SEER2 rating, 230V voltage, 25A max fuse size, indoor noise levels from 36 dB (mute mode), 16.4 ft copper lines, and suitability for areas up to 1500 sq.ft. Dimensions for both units are provided.

Feature	Specification
Brand Name	ROVSUN
Model Info	24000BTU, 230V, 21SEER2 - WiFi
Product Dimensions (Indoor Unit)	10.23 x 46.93 x 14.17 inches
Item Model Number	W-24K-230V-WIFI
Efficiency	21 SEER2

Feature	Specification
Capacity	2 Tons (24000 BTU)
Noise Level (Mute Mode)	36 dB
Installation Type	Split System
Form Factor	Mini-Split
Special Features	Wifi Enabled, APP Control, Inverter Compressor, Energy Efficient, ECO mode, Sleep Mode, 4 Way Swing, Dehumidifier, Fast Cooling
Voltage	230 Volts
Wattage	2360 Watts
Color	White
Suitable Area	Up to 1500 sq.ft.
Ambient Temperature (Cooling)	5-122°F
Ambient Temperature (Heating)	-4-86°F

5. INSTALLATION

Professional installation by a licensed HVAC technician is strongly recommended for optimal performance and safety.

Before installation, ensure the unit remains upright for at least 24 hours. The installation kit includes 16.4 ft copper lines and a signal cord. An extra power cord is needed and must be purchased separately.

CHOOSING THE RIGHT BTU RATING

Besides of considering the square footage of the room you're looking to cool or heat, we also need to take these factors into consideration, like environmental temperature, ceiling height, insulation, additional heat sources or related to the environment mentioned as below. If any of these apply to your room, it is highly recommended that increase your BTU values of A/C unit to compensate for the environmental factors and reaching better cooling effect



Hot regions



Severe cold area



Attic



Western exposure



Large area of glass wall

POWER SUPPLY

Voltage is another very important consideration when installing your ductless mini split. For smaller-powered mini splits, they only use a standard 110-120 volt plug which most homes are applied for, but for the larger units, they need higher 220-240 volt plug during installation. So please make sure your homes voltage matches the unit you choose before purchasing. Using the incorrect voltage can cause the breaking circuit and efficiency loss

RETURN POLICY

We offer a 30-day return policy. During this period, we will cover the shipping cost of return and replacement under the following conditions: item is defective or damaged, misses parts. As this product is a FBM one, for any other reasons beyond our quality issues, you might need to return the item at your kind expense. We truly beg your warm understanding on it. Hope you could enjoy a pleasant shipping experience with us

INSTALLATION

While installing a ductless split is much easier than a central air system, for getting better cooling effect and safety reason, we may need to use some professional tools when setting up machine, so we still strongly recommended our customer hire an extra HVAC professional in local area since installation of it is still complicated than window type or portable air conditioner

Image Description: This image provides guidance on selecting the appropriate BTU rating based on environmental factors like hot regions, severe cold, attics, western exposure, or large glass walls. It also highlights power supply considerations, emphasizing the need for a 230V supply for higher BTU units, and strongly recommends professional HVAC installation for split systems.

Key Installation Considerations:

- **Site Selection:** Choose appropriate locations for both indoor and outdoor units, ensuring adequate airflow and clearance.
- **Mounting:** Securely mount the indoor unit's mounting plate and the outdoor unit on a stable, level surface or wall bracket.
- **Drilling:** Drill a hole through the wall for refrigerant lines, drain hose, and signal cable.
- **Refrigerant Lines:** Connect the pre-charged copper lines between the indoor and outdoor units. Ensure proper flaring and tightening to prevent leaks.
- **Vacuumping:** It is critical to evacuate the refrigerant lines using a vacuum pump to remove air and moisture before releasing refrigerant. This step is essential for system efficiency and longevity.
- **Drainage:** Connect the drain hose to ensure proper condensate removal from the indoor unit.
- **Electrical Wiring:** Connect the signal cable and power supply according to the wiring diagram in the full instruction manual. Ensure all electrical connections are secure and comply with local codes.
- **Leak Test:** After connections, perform a leak test on all refrigerant line joints.
- **Insulation:** Insulate all refrigerant lines and the drain hose to prevent condensation and energy loss.

Refer to the detailed installation instructions provided in the complete manual for step-by-step guidance and diagrams.

6. OPERATION

Your ROVSUN Mini Split system offers multiple operating modes and control options for personalized comfort.



Image Description: This image displays the complete ROVSUN Mini Split system, including the sleek white indoor unit, the outdoor condenser unit, the remote control, and a smartphone screen showing the ROVSUN app interface for smart control.

Operating Modes:

- **Cool Mode:** Provides rapid cooling with a temperature range of 61°F-88°F.
- **Heat Mode:** Offers efficient heating with a temperature range of 61°F-88°F, utilizing heat pump technology.
- **Dehumidify Mode:** Reduces humidity in the air without significant cooling.
- **Fan Mode:** Circulates air without heating or cooling.
- **ECO Mode:** Optimizes energy consumption for efficient operation.
- **Sleep Mode:** Adjusts temperature and fan speed for comfortable sleep and reduced noise.

Control Options:

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 Description: This image illustrates the versatile control options for the ROVSUN Mini Split. It shows a person using voice commands with smart assistants like Alexa or Google Assistant, a close-up of the physical remote control, and the ROVSUN smartphone application interface for remote management.

- **Remote Control:** The included remote allows direct control over all functions, including mode selection, temperature adjustment, fan speed, and timer settings.
- **Smartphone App (WiFi Enabled):** Download the ROVSUN app to control your unit from anywhere. This allows for scheduling, mode changes, and monitoring.
- **Voice Control:** The system is compatible with Amazon Alexa and Google Assistant, enabling hands-free operation through voice commands.

Quiet Operation:

Ultra Quiet Operation

Enjoy a sweet night's sleep

 **28dB** in MUTE mode

 **10dB**
Breathing

 **28dB**
ROVSUN

 **45dB**
Quiet library

 **55dB**
Talking voice



Image Description: This image highlights the ultra-quiet operation of the ROVSUN Mini Split, showing an indoor unit operating in a bedroom with a sleeping person. It compares the unit's 28dB mute mode noise level to other sounds: 10dB (breathing), 45dB (quiet library), and 55dB (talking voice), emphasizing its low noise output.

The unit operates at an ultra-quiet 36dB in mute mode, ensuring a peaceful indoor environment, especially suitable for bedrooms and living areas.

7. MAINTENANCE

Regular maintenance ensures the longevity and efficient operation of your ROVSUN Mini Split system.

Cleaning the Air Filter:

- The air filter should be cleaned every two weeks or more frequently depending on usage and air quality.
- Open the front panel of the indoor unit and carefully remove the air filters.
- Wash the filters with lukewarm water and a mild detergent. Rinse thoroughly and allow them to air dry completely before reinserting.

- Do not expose filters to direct sunlight or heat for drying.

Cleaning the Indoor Unit:

- Wipe the indoor unit's surface with a soft, dry cloth. For stubborn dirt, use a damp cloth with a mild detergent, then wipe dry.
- Do not use harsh chemicals, abrasive cleaners, or solvents.

Outdoor Unit Maintenance:

- Periodically clear any debris (leaves, dirt, etc.) from around the outdoor unit to ensure proper airflow.
- Ensure the outdoor unit's coils are clean. If heavily soiled, professional cleaning may be required.
- Check the drain hose for blockages.

For detailed cleaning instructions and seasonal maintenance, refer to the complete user manual.

8. TROUBLESHOOTING

If you encounter issues with your ROVSUN Mini Split system, refer to the following common troubleshooting steps. For complex problems, contact a qualified technician.

Problem	Possible Cause	Solution
Unit does not start	No power; Circuit breaker tripped; Remote control batteries dead.	Check power supply; Reset circuit breaker; Replace remote batteries.
Insufficient cooling/heating	Dirty air filter; Blocked air intake/outlet; Incorrect temperature setting; Doors/windows open; Room size exceeds capacity.	Clean air filter; Clear obstructions; Adjust temperature; Close doors/windows; Ensure unit matches room size.
Unusual noise	Loose parts; Unit not level; Debris in outdoor unit.	Check for loose components; Ensure unit is level; Remove debris.
Water leakage from indoor unit	Clogged drain hose; Improper installation of drain hose.	Clear drain hose blockage; Ensure drain hose is correctly installed and sloped.
WiFi connection issues	Incorrect WiFi password; Router too far; Network interference; Unit not in pairing mode.	Verify password; Move router closer or use extender; Reduce interference; Follow app instructions to re-enter pairing mode.
Remote control not working	Dead batteries; Obstruction between remote and unit; Remote sensor blocked.	Replace batteries; Remove obstructions; Clean remote sensor area.

9. WARRANTY AND SUPPORT

For warranty information, please refer to the warranty card included with your product or visit the official ROVSUN website. Warranty terms typically cover manufacturing defects for a specified period from the date of purchase. For technical support, service inquiries, or to purchase replacement parts, please contact ROVSUN customer service through their official website or the contact information provided in your product packaging.

ROVSUN Customer Service: Refer to your product documentation or the ROVSUN official website for current contact details.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

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

Open the live page

<https://manuals.plus/asin/B0CT88LWHN>

More documents and user manuals: <https://manuals.plus/>