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› ROVSUN 35000 BTU Quad Zone WIFI Mini Split AC/Heating System User Manual (Model: 4 Zone 35000 BTU (9+12+12+12)-WIFI)

ROVSUN 4 Zone 35000 BTU (9+12+12+12)-WIFI

ROVSUN 35000 BTU Quad Zone WIFI Mini Split AC/Heating System User Manual

MODEL: 4 ZONE 35000 BTU (9+12+12+12)-WIFI

Brand: ROVSUN

1. Introduction and System Overview

This manual provides essential information for the safe and efficient operation of your ROVSUN 35000 BTU Quad Zone WIFI Mini Split AC/Heating System. Please read it thoroughly before installation and use, and retain it for future reference.



Image 1: Complete ROVSUN 35000 BTU Quad Zone Mini Split System with outdoor condenser, four indoor units, remote controls, and mobile app interface.

The ROVSUN Quad Zone Mini Split System is designed to provide comprehensive climate control for multiple rooms. It features one outdoor 35,000 BTU condenser and four indoor air handlers (9,000 BTU + 12,000 BTU + 12,000 BTU + 12,000 BTU), each with independent temperature control. This system offers a 4-in-1 solution, combining air conditioning, a powerful heat pump, dehumidification, and fan functions.

With ROVSUN: One System, Multiple Solutions

Enjoy personalized temperature controls in each room for ideal climate & electrical bill control

How to Choose Area

(square feet)	Capacity(Outdoor / Indoor)
Up to 1600 sq.ft.	35,000BTU (9K+9K+9K+9K)
Up to 1750 sq.ft.	35,000BTU (9K+9K+9K+12K)
Up to 1900 sq.ft.	35,000BTU (9K+9K+12K+12K)
Up to 2050 sq.ft.	35,000BTU (9K+12K+12K+12K)
Up to 2200 sq.ft.	35,000BTU (9K+9K+9K+18K)
Up to 2200 sq.ft.	35,000BTU (12K+12K+12K+12K)
Up to 2350 sq.ft.	35,000BTU (9K+9K+12K+18K)



Image 2: Diagram illustrating multi-room temperature control and capacity guidelines for the ROVSUN Mini Split System.

Equipped with innovative inverter technology, this 19 SEER2 rated unit ensures optimal performance with up to 30% energy savings. It is ETL and AHRI certified, guaranteeing reliability and energy efficiency. The system includes features such as auto defrost, self-diagnosis/cleaning, iFEEL mode, a 24-hour timer, 4-way air swing, sleep mode, and silent mode for enhanced user comfort.

4-IN-1

MULTIFUNCTIONAL DESIGN

perfect for all
seasons needs



Air Conditioner



Heater



Fan



Dehumidifier



Image 3: Visual representation of the 4-in-1 multifunctional design, highlighting cooling capabilities down to 131°F and heating up to -13°F.

Inverter Split Air Conditioner

SAVING OVER 35%

- ✓ High Energy Efficiency
- ✓ Lower Energy Cost

R454B Refrigerant

• HIGH SEER2 GRADE = LOWER ENERGY COST

35% Energy Cost Saved



Image 4: Chart comparing the energy efficiency of the 19 SEER2 ROVSUN Inverter Split Air Conditioner with R454B refrigerant against other systems.

2. Setup and Installation

Proper installation is crucial for the optimal performance and safety of your mini split system. It is highly recommended that installation be performed by a professional licensed HVAC technician. The system comes pre-charged up to 25 feet. Please ensure the outdoor unit remains upright for 24 hours before installation.

Package List

 Comes in 9 boxes & delivery time may be different per box

BOX 1 x4

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

BOX 2 x1

- | |
|-----------------------|
| 9 Outdoor Unit |
| 10 Instruction Manual |

BOX 3 x4

- | | |
|----------------------|-----------------------------|
| 12 7FT Dran Hose | 17 Tape x 2 |
| 13 19FT Signal Cable | 18 Insulation Foam |
| 14 Sealing Gum | 19 Wall Sleeve |
| 15 Wall Cap | 20 25FT Copper Line Set x 2 |
| 16 Drain Joint | |

ROVSUN

The power cord is not included

Image 5: Detailed package list showing components included in the 9 boxes, such as indoor units, outdoor unit, remote controls, and line sets.

Installation Steps Overview:

1. **Unpacking and Inspection:** Carefully unpack all 9 boxes and verify that all components listed in the package are present and undamaged.
2. **Indoor Unit Placement:** Select an appropriate location for each indoor unit, ensuring proper clearances from the ceiling and walls as specified in the detailed installation guide.
3. **Mounting Bracket Installation:** Securely install the mounting bracket for each indoor unit on the wall using the provided hardware.
4. **Drilling Wall Hole:** Drill a hole through the wall for the line set, drain hose, and electrical wiring.
5. **Line Set and Wiring Routing:** Route the line set, drain hose, and electrical wiring through the wall hole.
6. **Mounting Indoor Unit:** Securely mount each indoor unit onto its bracket.
7. **Outdoor Unit Placement:** Position the outdoor condenser unit in a designated location, ensuring it is spaced away from walls and free from obstructions (e.g., plants) within 3 feet.
8. **Connecting Line Sets:** Connect the refrigerant line sets between the indoor units and the outdoor condenser. Ensure connections are tight and leak-free.
9. **Electrical Wiring:** Connect the electrical wiring between the indoor units and the outdoor condenser,

following the wiring diagram in the detailed manual. Ensure all power is off before connecting any wires.

10. **Vacuuming the System:** Evacuate the refrigerant lines using a vacuum pump to remove air and moisture. This is a critical step for system efficiency and longevity.
11. **Refrigerant Release:** Slowly open the valves on the outdoor unit to release the pre-charged refrigerant into the system.
12. **Power Connection:** Restore power to the system.

Installation Videos:

Video 1: General installation guide for a mini split unit, demonstrating steps from template marking to vacuuming and startup. This video is provided by a seller and offers visual assistance for the installation process.

Video 2: Detailed instructions on how to correctly wire a mini split unit, covering electrical connections for both indoor and outdoor components. This video is provided by a seller to assist with electrical setup.

Video 3: Essential pre-installation tips for mini split units, covering critical steps and considerations before beginning the main installation process. This video is provided by a seller to ensure a smooth setup.

3. Operating Instructions

Your ROVSUN Mini Split System offers various operating modes and control options to ensure your comfort.

Control Options:

- **Remote Control:** Each indoor unit comes with a dedicated remote control for individual temperature and mode adjustments.
- **Mobile App Control:** Seamlessly integrate with the ROVSUN mobile app for remote control via Wi-Fi. The app allows you to adjust settings from anywhere, program optimal temperature changes, and monitor your system.
- **Voice Control:** The system is compatible with Alexa/Google Assistant, enabling convenient voice commands for hands-free operation.

Feel the Smart Control of Modern Appliance

choose the way you want to use it

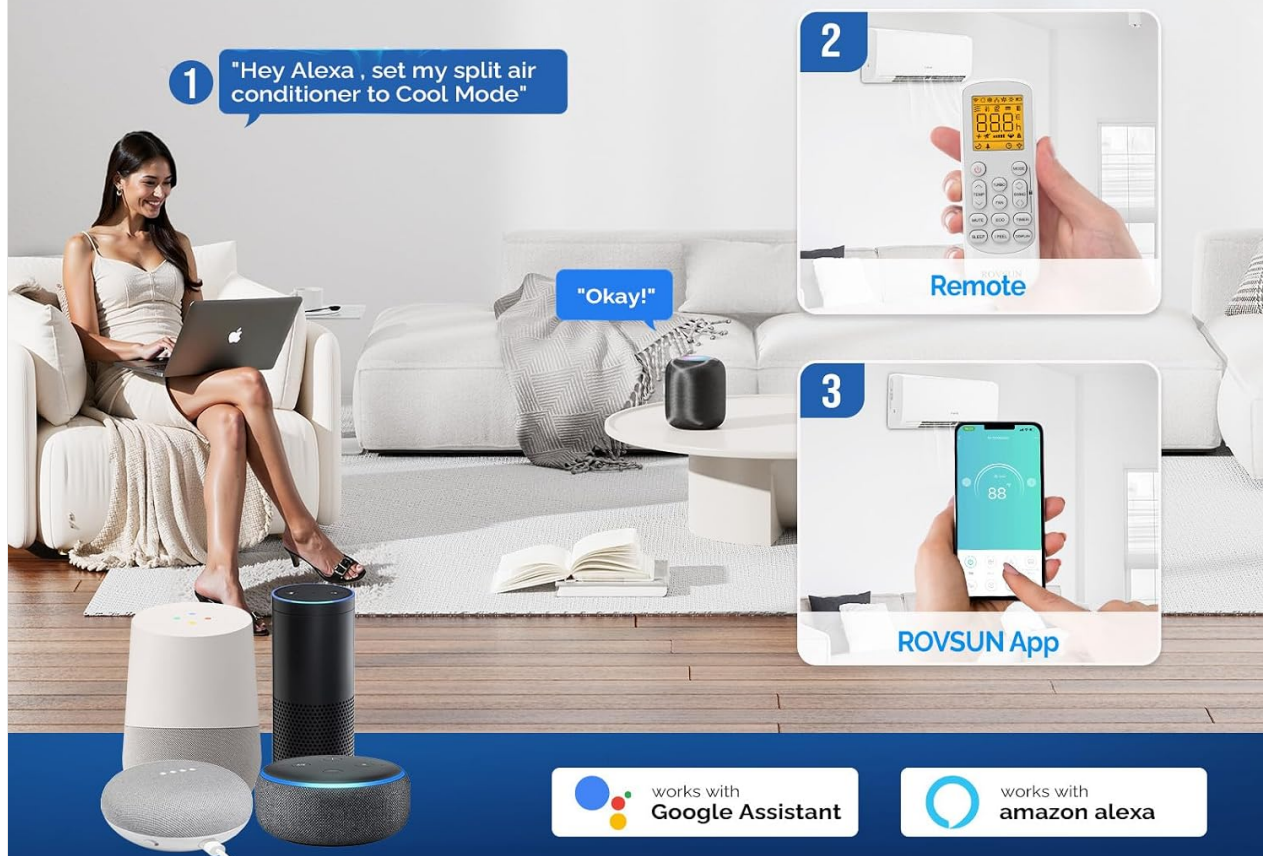


Image 6: Illustration of smart control options, including voice commands (Alexa/Google Assistant), remote control, and the ROVSUN mobile application.

Key Operating Modes and Features:

- **Cooling Mode:** Provides efficient cooling, even in ambient temperatures up to 131°F.
- **Heating Mode:** Functions as a powerful heat pump, effective in ambient temperatures as low as -13°F.
- **Dehumidifier Mode:** Reduces humidity levels for improved comfort.
- **Fan Mode:** Circulates air without heating or cooling.
- **Turbo Function:** Quickly reaches desired temperature settings.
- **Auto Defrost:** Prevents ice buildup on the outdoor unit during heating operation.
- **Self-Diagnosis/Cleaning:** Internal functions for system maintenance and error detection.
- **iFEEL Mode:** Adjusts temperature based on the remote control's location for personalized comfort.
- **24-Hour Timer:** Schedule operation times for convenience and energy saving.
- **4-Way Air Swing:** Optimizes air distribution throughout the room.
- **Sleep Mode:** Adjusts temperature and fan speed for comfortable sleep and reduced energy consumption.
- **Silent Mode:** Operates at a reduced noise level for quiet environments.



Image 7: A person relaxing in a bedroom with the ROVSUN Mini Split providing comfortable cool air.

4. Maintenance

Regular maintenance ensures the longevity and efficiency of your ROVSUN Mini Split System.

Recommended Maintenance:

- **Filter Cleaning:** Clean the air filters of the indoor units every 2-4 weeks, or more frequently depending on usage and air quality. Refer to the detailed manual for instructions on how to remove and clean filters.
- **Outdoor Unit Inspection:** Periodically inspect the outdoor condenser unit for any debris, leaves, or obstructions that may hinder airflow. Ensure the area around the unit is clear.
- **Coil Cleaning:** Annually, or as needed, have a professional HVAC technician clean the indoor and outdoor coils to maintain optimal heat exchange efficiency.
- **Drain Line Check:** Ensure the condensate drain lines are clear and free of blockages to prevent water leakage.

- **Professional Servicing:** Schedule annual professional maintenance to check refrigerant levels, electrical connections, and overall system performance.

5. Troubleshooting

If you encounter issues with your ROVSUN Mini Split System, refer to the troubleshooting section in your detailed user manual. Common issues and their solutions are typically provided. For persistent problems or complex repairs, contact a qualified HVAC technician or ROVSUN customer support.

General Troubleshooting Tips:

- **No Power:** Check the circuit breaker and ensure the unit is properly plugged in.
- **Not Cooling/Heating Effectively:** Verify thermostat settings, clean air filters, and ensure no obstructions are blocking airflow to indoor or outdoor units.
- **Unusual Noises:** Minor noises are normal during operation. Excessive or unusual noises may indicate a problem requiring professional inspection.
- **Water Leakage:** Check the condensate drain line for blockages or improper installation.
- **Error Codes:** Refer to your detailed manual for explanations of specific error codes displayed on the unit or remote control.

6. Specifications

Below are the key specifications for your ROVSUN 35000 BTU Quad Zone WIFI Mini Split AC/Heating System.

Feature	Specification
Brand Name	ROVSUN
Model Info	4 Zone 35000 BTU (9+12+12+12)-WIFI
Product Dimensions (Outdoor Unit)	18.42 x 42.28 x 33.58 inches
Efficiency (SEER)	19
Capacity (Cooling Power)	35000 British Thermal Units (3 Tons)
Installation Type	Split System

Feature	Specification
Form Factor	Mini-Split
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
Voltage	230 Volts
Refrigerant	R-454B
Power Source	Corded Electric

Capacity	Width (W)	Depth (D)	High (H)
9000BTU	31.92"	7.99"	11.49"
12000BTU	31.92"	7.99"	11.49"
18000BTU	39.76"	8.66"	12.4"

Capacity	Width (W)	Depth (D)	High (H)
20000BTU	36.5"	14.96"	27.52"
28000BTU	38.5"	16.57"	31.61"
35000BTU	42.28"	18.42"	33.58"

25FT line set (3/8" & 1/4")

Image 8: Detailed dimensions for indoor units (9000BTU, 12000BTU, 18000BTU) and outdoor units (20000BTU, 28000BTU, 35000BTU), including width, depth, and height.

7. Warranty and Support

Your ROVSUN Mini Split System comes with a 1-year warranty. For any questions, technical assistance, or warranty claims, please contact ROVSUN customer service. We are committed to providing responsible and comprehensive after-sales support.

Please refer to your purchase documentation or the ROVSUN official website for the most current contact information and detailed warranty terms.