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## ROVSUN 2 zone-18K/9K+9K

# ROVSUN 20000 BTU Dual Zone WIFI Mini Split AC/Heating System User Manual

Model: 2 zone-18K/9K+9K

## 1. IMPORTANT SAFETY INSTRUCTIONS

Please read all instructions carefully before installation and operation. Failure to follow these instructions may result in property damage, personal injury, or death. Retain this manual for future reference.


### General Safety

- **Professional Installation:** Installation, maintenance, and repair of this appliance must be performed by a qualified, licensed HVAC technician. Improper installation can lead to electric shock, fire, water leakage, or other hazards.
- **Electrical Safety:** Ensure the power supply matches the unit's requirements (208-230V). Always disconnect power before servicing or cleaning the unit. An extra power cord is needed and is not included.
- **Refrigerant:** This system contains R454B refrigerant. Only qualified personnel should handle refrigerant. Do not vent refrigerant into the atmosphere.
- **Children and Pets:** Keep children and pets away from the unit, especially during operation and maintenance.
- **Ventilation:** Ensure proper ventilation around the outdoor unit to prevent overheating.

## 2. PACKAGE CONTENTS

The ROVSUN 20000 BTU Dual Zone Mini Split AC/Heating System is shipped in five separate boxes. Please ensure all components are received before scheduling installation. Delivery times for each box may vary.

# Package List

 Comes in 5 boxes & delivery time may be different per box

## BOX 1 x2

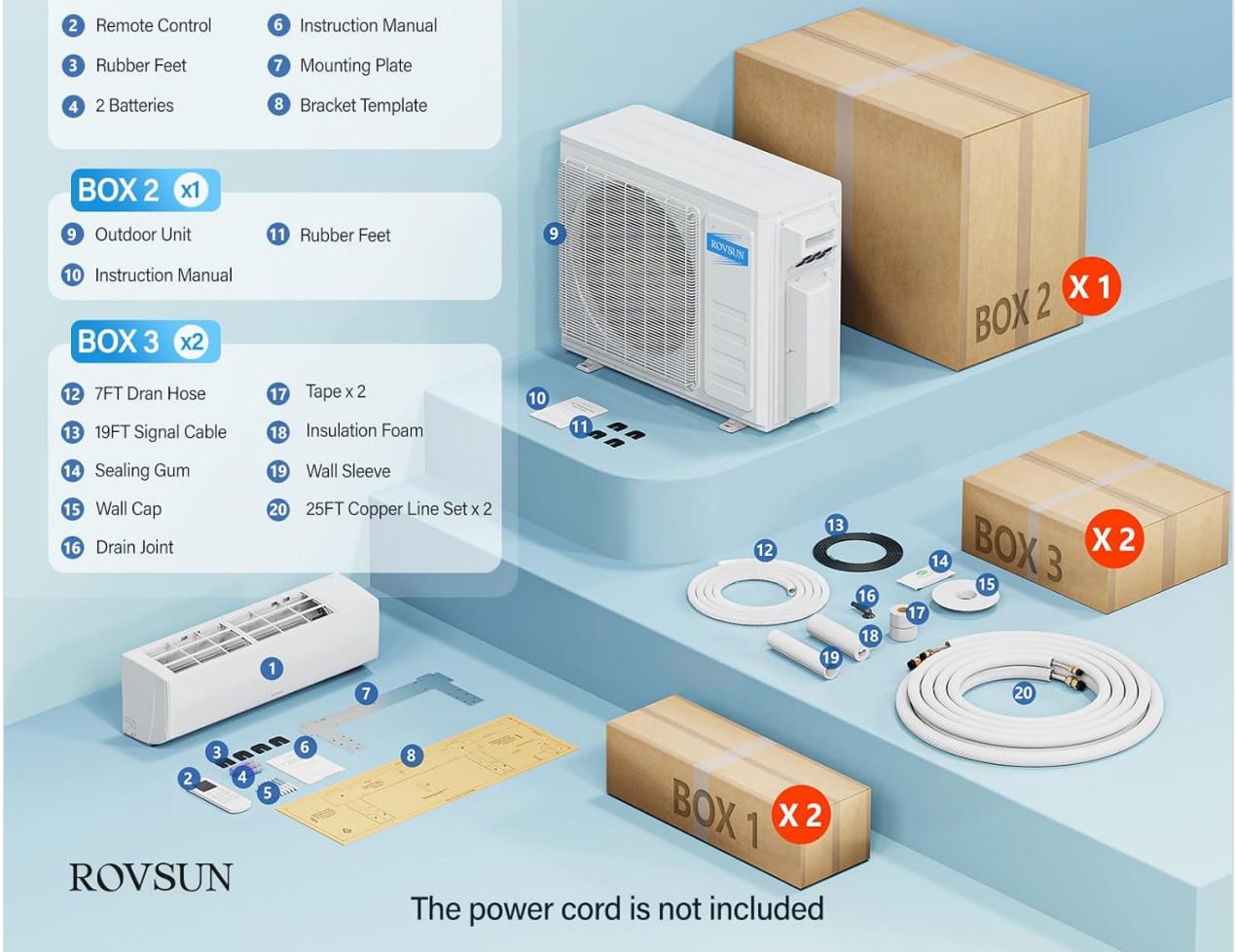
- |                  |                      |
|------------------|----------------------|
| 1 Indoor Unit    | 5 Screws Bag         |
| 2 Remote Control | 6 Instruction Manual |
| 3 Rubber Feet    | 7 Mounting Plate     |
| 4 2 Batteries    | 8 Bracket Template   |

## BOX 2 x1

- |                       |                |
|-----------------------|----------------|
| 9 Outdoor Unit        | 11 Rubber Feet |
| 10 Instruction Manual |                |

## BOX 3 x2

- |                      |                             |
|----------------------|-----------------------------|
| 12 7FT Drain 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       |                             |



The power cord is not included

Image: Components included in the ROVSUN Mini Split System package.

## Included Components:

- **Box 1 (x2):** Indoor Unit, Remote Control, Rubber Feet, 2 Batteries, Screws Bag, Instruction Manual, Mounting Plate, Bracket Template
- **Box 2 (x1):** Outdoor Unit, Rubber Feet, Instruction Manual
- **Box 3 (x2):** 7FT Drain Hose, 19FT Signal Cable, Sealing Gum, Wall Cap, Drain Joint, Insulation Foam, Wall Sleeve, 25FT Copper Line Set x2

**Note:** The power cord is not included and must be purchased separately.

## 3. PRODUCT OVERVIEW

The ROVSUN 20000 BTU Dual Zone WIFI Mini Split AC/Heating System provides efficient and customizable climate control for multiple rooms. This system includes one outdoor condenser and two indoor air handlers, each with independent control.



*Image: Complete ROVSUN Dual Zone Mini Split System components.*

## Key Features:

- **Dual Zone Control:** Two independent 9,000 BTU indoor units allow for individual temperature settings in different rooms.
- **4-in-1 Functionality:** Offers Cooling, Heating, Dehumidifier, and Fan modes for year-round comfort.
- **Powerful Performance:** Inverter and heat pump system operates effectively in ambient temperatures from -13°F to 131°F.
- **Energy Efficient:** 20 SEER2 rating with innovative inverter technology ensures significant energy savings. ETL and AHRI certified.
- **Smart Control:** Compatible with mobile app, remote control, and voice control (Alexa/Google Assistant).
- **Advanced Functions:** Includes Auto defrost, self-diagnosis/cleaning, iFEEL mode, 24-hour timer, 4-way air swing, sleep mode, and silent mode.

# With ROVSUN: One System, Multiple Solutions

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



## How to Choose Area

Image: Personalized temperature control in multiple rooms.

# 4-IN-1 MULTIFUNCTIONAL DESIGN

perfect for all  
seasons needs



Air Conditioner



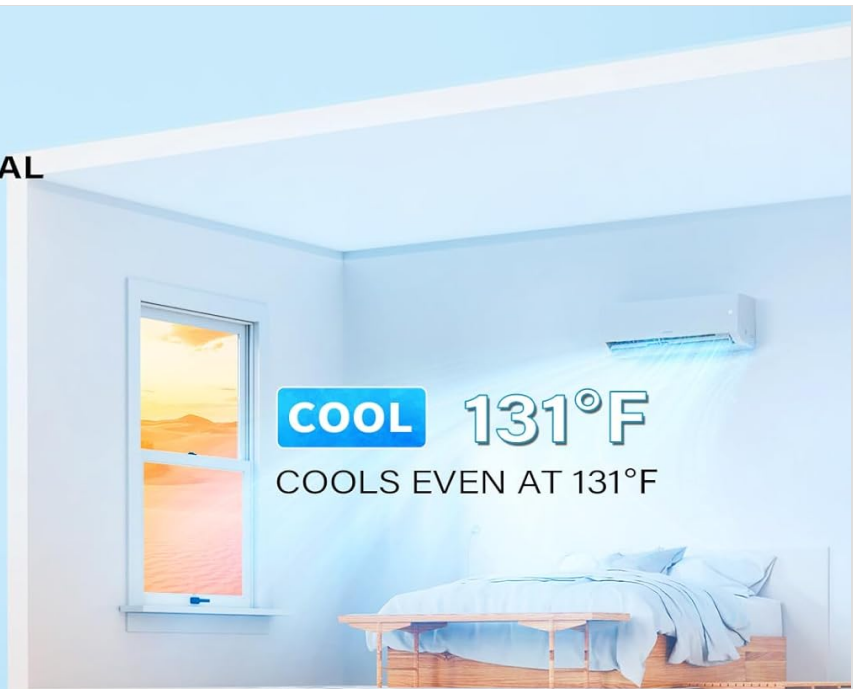
Heater



Fan



Dehumidifier



*Image: 4-in-1 Multifunctional Design for all seasons.*

# Inverter Split Air Conditioner

**SAVING OVER 35%**

- ✓ High Energy Efficiency
- ✓ Lower Energy Cost

## R454B Refrigerant

• HIGH SEER<sub>2</sub> GRADE = LOWER ENERGY COST

**35%** Energy Cost Saved



Image: Energy efficiency comparison with R454B refrigerant.

## 4. INSTALLATION GUIDE

Installation of a mini split system requires specialized knowledge and tools. It is strongly recommended that a professional, licensed HVAC technician performs the installation to ensure optimal performance, safety, and compliance with local codes.

### Pre-Installation Checklist:

- Verify all components listed in the 'Package Contents' section have been received. Schedule installation only after receiving all 5 separate boxes.
- Ensure the outdoor unit remains upright for at least 24 hours before installation to allow the refrigerant and oil to settle.
- Confirm the electrical supply meets the unit's voltage requirements (208-230V) and that an appropriate circuit breaker is available.
- Prepare necessary tools and materials, including an extra power cord (not supplied), vacuum pump, flare

tools, and safety equipment.

## General Installation Steps (Overview):

1. **Select Location:** Choose appropriate locations for both indoor and outdoor units, considering air circulation, drainage, and structural support.
2. **Mount Indoor Units:** Securely mount the indoor units to the wall using the provided mounting plates and bracket templates.
3. **Drill Wall Hole:** Create a hole through the wall for refrigerant lines, signal cables, and drain hoses.
4. **Connect Piping:** Connect the pre-charged copper line sets between the indoor and outdoor units. Ensure proper flaring and tightening to prevent leaks.
5. **Electrical Wiring:** Connect the signal cables and power wiring according to the wiring diagram in the detailed instruction manual.
6. **Vacuum and Leak Test:** Evacuate the refrigerant lines using a vacuum pump to remove air and moisture, then perform a leak test.
7. **Open Valves and Test Run:** Open the refrigerant valves on the outdoor unit and perform a test run to verify proper operation.

## 5. OPERATING INSTRUCTIONS

Your ROVSUN Mini Split System offers various ways to control your indoor climate and several operating modes to suit your comfort needs.

### Control Methods:

# Feel the Smart Control of Modern Appliance

choose the way you want to use it



Image: Smart control options for the ROVSUN Mini Split System.

- **Remote Control:** Each indoor unit comes with its own remote control for direct adjustment of settings.
- **Mobile App Control:** Download the ROVSUN app to control your system from your smartphone. This allows for remote adjustments and advanced scheduling.
- **Voice Control:** The system is compatible with smart home assistants like Amazon Alexa and Google Assistant, enabling hands-free operation.

## Operating Modes:

- **Cooling Mode:** Provides cooling to maintain a comfortable indoor temperature.
- **Heating Mode:** Utilizes the heat pump function to warm your space, effective even in cold ambient temperatures.
- **Dehumidifier Mode:** Reduces humidity levels in the room for enhanced comfort.
- **Fan Mode:** Circulates air without heating or cooling.

## Special Functions:

- **iFEEL Mode:** The remote control senses the temperature around it and adjusts the unit's operation for localized comfort.

- **24-Hour Timer:** Program the unit to turn on or off automatically within a 24-hour period.
- **4-Way Air Swing:** Adjusts the airflow direction horizontally and vertically for even distribution.
- **Sleep Mode:** Automatically adjusts temperature and fan speed for quiet, comfortable sleep while saving energy.
- **Silent Mode:** Operates at the lowest fan speed for reduced noise.
- **Turbo Function:** Provides rapid cooling or heating to quickly reach the desired temperature.
- **Auto-Defrost:** Automatically thaws ice buildup on the outdoor unit during heating operation in cold weather.

## 6. MAINTENANCE

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

### Filter Cleaning:

- **Frequency:** Clean the air filters in the indoor units every 2-4 weeks, or more frequently if the unit is used heavily or in dusty environments.
- **Procedure:** Open the front panel of the indoor unit, remove the filters, and wash them with lukewarm water and mild detergent. Rinse thoroughly and allow them to dry completely before reinserting.

### Outdoor Unit Care:

- **Clear Debris:** Periodically check the outdoor unit for leaves, dirt, and other debris that may obstruct airflow. Clear any blockages.
- **Coil Cleaning:** The outdoor coil should be cleaned annually by a qualified technician to remove accumulated dirt and grime, which can reduce efficiency.

### Seasonal Maintenance:

- **Pre-Season Check:** Before the start of cooling or heating seasons, it is advisable to have a professional HVAC technician inspect the system.
- **Drainage:** Ensure the condensate drain lines are clear and free of blockages to prevent water leakage.

## 7. TROUBLESHOOTING

Before contacting customer support, please refer to the following common issues and solutions.

### Common Issues and Solutions:

- **Unit Not Turning On:**
  - Check if the power supply is connected and the circuit breaker has not tripped.
  - Ensure batteries in the remote control are functional.
- **Insufficient Cooling/Heating:**
  - Verify that the correct operating mode is selected.
  - Clean the air filters in the indoor units.
  - Check for obstructions around the outdoor unit.

- Ensure windows and doors are closed.
- The system's maximum working capacity will not exceed the outdoor unit's rated BTU.
- **Water Leakage from Indoor Unit:**
  - Check if the drain hose is clogged or improperly installed.
  - Ensure the indoor unit is level.
- **Unusual Noises:**
  - A slight gurgling sound is normal due to refrigerant flow.
  - If loud or unusual noises occur, contact a qualified technician.
- **Remote Control Not Working:**
  - Replace batteries.
  - Ensure there are no obstructions between the remote and the indoor unit.
- **Indoor units cannot be set to different modes simultaneously (cooling/dehumidifying VS heating) as this will cause mode conflict.**

If the problem persists after attempting these solutions, please contact ROVSUN customer support or a qualified HVAC technician.

## 8. PRODUCT SPECIFICATIONS

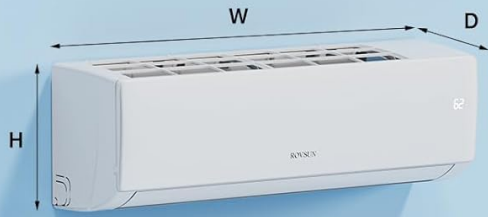
Detailed technical specifications for the ROVSUN 20000 BTU Dual Zone WIFI Mini Split AC/Heating System.



Globally Recognized. Industry Respected.



Intertek



### Indoor Unit Net dimensions

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"



### Outdoor Unit Net dimensions

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: Dimensions for ROVSUN Indoor and Outdoor Units.

Specification	Value
Brand	ROVSUN
Model Number	2 zone-18K/9K+9K
Outdoor Unit Model Info	G46000656
Indoor Unit Model Info	G46000654 (x2)
Total Cooling Capacity	20000 BTU
Indoor Unit Capacity	9000 BTU (x2)
Seasonal Energy Efficiency Ratio (SEER2)	20.00
Voltage	230 Volts
Wattage	1818 watts
Noise Level	42 Decibels (Outdoor), 28 Decibels (Indoor in Mute mode)
Outdoor Unit Dimensions (D x W x H)	14.96" x 36.5" x 27.52"
Indoor Unit Dimensions (D x W x H)	7.99" x 31.92" x 11.49" (for 9000 BTU)
Refrigerant Type	R454B
Line Set Length	25 Feet (x2)
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

## 9. WARRANTY AND SUPPORT

ROVSUN is committed to providing high-quality products and customer satisfaction. This product is backed by a manufacturer's warranty, details of which can be found on the official ROVSUN website or by contacting customer service.

### Customer Support:

For technical assistance, troubleshooting beyond this manual, or warranty claims, please contact ROVSUN

customer support. Have your model number and purchase date ready when you call or email.

- **Online Support:** Visit the official ROVSUN website for FAQs, support resources, and contact information.
- **Email/Phone:** Refer to your purchase documentation or the ROVSUN website for specific contact details.

ROVSUN aims for 100% satisfaction and is available to assist with any product-related inquiries.