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LEADZM LZ-18K-230V-split

LEADZM 18,000 BTU Mini Split AC/Heating System Instruction  
Manual

Model: LZ-18K-230V-split

1. INTRODUCTION

This manual provides comprehensive instructions for the safe and efficient installation, operation, maintenance, and troubleshooting of your LEADZM 18,000 BTU Mini Split AC/Heating System. This unit features inverter technology, a 19 SEER rating, and operates on 230V, offering both cooling and heating functionalities. Please read this manual thoroughly before installation and use, and retain it for future reference.



Figure 1.1: The indoor unit of the LEADZM Mini Split AC/Heating System installed in a living room environment.

## 2. SAFETY INFORMATION

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To prevent injury to the user or others and property damage, the following instructions must be followed. Incorrect operation due to ignoring instructions may cause harm or damage.

- **Professional Installation Required:** Installation of this appliance requires specialized knowledge and tools. It must be performed by a qualified and certified HVAC professional to ensure proper function and safety.
- **Electrical Safety:** Ensure the power supply voltage matches the unit's specifications (230V). All electrical work must comply with local and national electrical codes and be performed by a licensed electrician.
- **Refrigerant Handling:** This unit contains R410A refrigerant. Handling of refrigerant must only be done by certified personnel. Improper handling can cause environmental damage or personal injury.
- **Ventilation:** Ensure adequate ventilation during installation and maintenance.
- **Unit Placement:** Do not install the unit in areas where flammable gases may leak or where there is a risk of fire.

- **Children and Pets:** Keep children and pets away from the unit during operation and maintenance.

### 3. PRODUCT COMPONENTS

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The LEADZM 18,000 BTU Mini Split AC/Heating System package typically includes the following items. Please verify all components are present upon delivery.

- Indoor Unit (Evaporator)
- Outdoor Unit (Condenser)
- Remote Control
- Installation Kit (includes copper tubing, electrical wiring, drainage hose, insulation tape, etc.)

**Note:** The complete system is delivered in two separate packages, which may arrive on different days. Ensure both packages are received before scheduling installation.



Figure 3.1: Overview of the LEADZM Mini Split AC/Heating System components.

## 4. SETUP AND INSTALLATION

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Installation of the LEADZM Mini Split AC/Heating System requires professional expertise. It is crucial to hire a certified HVAC technician for proper and safe setup.

### 4.1 Pre-Installation Checks

- Confirm receipt of both indoor and outdoor unit packages.
- Verify the electrical supply voltage (230V) at the installation site.
- Ensure the installation area for both indoor and outdoor units meets clearance requirements for proper airflow and maintenance.

### 4.2 Professional Installation Steps (Overview)

A qualified technician will typically perform the following steps:

1. **Site Selection:** Determine optimal locations for the indoor and outdoor units, considering airflow, drainage, and structural support.
2. **Mounting:** Securely mount the indoor unit to an interior wall and the outdoor unit on a stable pad or wall bracket.
3. **Line Set Connection:** Connect the pre-charged copper refrigerant lines between the indoor and outdoor units.
4. **Electrical Wiring:** Connect the power supply and communication wiring according to the wiring diagram provided in the full technical manual.
5. **Drainage:** Install the condensate drain line for the indoor unit to ensure proper water removal.
6. **Vacuuming and Leak Check:** Evacuate the refrigerant lines to remove air and moisture, then check for leaks.
7. **Test Run:** Perform a test run to ensure all functions operate correctly.

## 5. OPERATING INSTRUCTIONS

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Your LEADZM Mini Split system is controlled via the included remote control, offering various modes and settings for optimal comfort. The operating temperature range is typically between 61°F (16°C) and 88°F (31°C).

### 5.1 Remote Control Functions



Figure 5.1: Remote control with key function indicators.

- **Power Button:** Turns the unit ON or OFF.
- **Mode Selection:** Cycle through operating modes: Auto, Cool, Heat, Dry, Fan.
- **Temperature Adjustment:** Increase or decrease the desired temperature setting.
- **Fan Speed Selection:** Adjust the fan speed (Auto, Low, Medium, High).
- **Sleep Mode:** Optimizes temperature and fan speed for comfortable sleep, often with reduced noise.
- **24-Hour Timer:** Set the unit to turn ON or OFF automatically after a specified period.
- **ECO Mode:** Operates the unit at an energy-saving setting to reduce power consumption.
- **Turbo Mode:** Activates maximum cooling or heating capacity for rapid temperature change.
- **Mute Mode:** Reduces fan speed and compressor operation to achieve ultra-quiet performance.
- **Display Button:** Toggles the display on the indoor unit ON or OFF.
- **Swing Function:** Controls the horizontal and vertical movement of the air louvers for even air distribution. The unit features a 4-way swing function.

## 5.2 Quick Cooling and Heating

The inverter technology allows for rapid temperature adjustments. The system can achieve significant cooling or heating within a short timeframe, providing comfort quickly.



Figure 5.2: Visual representation of the system's quick cooling and heating capabilities.

## 5.3 Quiet Operation

The unit is designed for quiet operation, especially in Mute Mode, where noise levels can be significantly reduced to minimize disturbance.



Figure 5.3: The system's ultra-silent operation, particularly in Mute Mode.

## 6. MAINTENANCE

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Regular maintenance ensures the longevity and efficient operation of your mini split system. Always turn off the power supply to the unit before performing any maintenance.

### 6.1 Air Filter Cleaning

The air filters in the indoor unit should be cleaned every two weeks or more frequently depending on usage and air quality.

1. Open the front panel of the indoor unit.
2. Remove the air filters.
3. Clean the filters with a vacuum cleaner or wash them with lukewarm water and mild detergent.
4. Allow filters to dry completely before reinstalling.
5. Close the front panel.

## 6.2 Indoor Unit Cleaning

Wipe the indoor unit's exterior with a soft, dry cloth. For stubborn dirt, use a damp cloth with a neutral detergent, then wipe dry.

## 6.3 Outdoor Unit Cleaning

Periodically clear any debris (leaves, dirt) from around the outdoor unit to ensure proper airflow. The coils may require professional cleaning annually.

# 7. TROUBLESHOOTING

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

| Problem                        | Possible Cause                                                    | Solution                                                              |
|--------------------------------|-------------------------------------------------------------------|-----------------------------------------------------------------------|
| Unit does not turn on          | No power supply; Remote control batteries dead                    | Check circuit breaker; Replace remote control batteries               |
| Insufficient cooling/heating   | Dirty air filters; Obstruction of airflow; Incorrect mode setting | Clean air filters; Remove obstructions; Select correct operating mode |
| Unusual noise                  | Loose parts; Debris in fan; Unit not level                        | Check for loose components; Clear debris; Ensure unit is level        |
| Water leakage from indoor unit | Clogged drain pipe; Improper installation                         | Clear drain pipe; Contact professional for inspection                 |

If the problem persists after attempting these solutions, please contact a qualified service technician.

## 8. SPECIFICATIONS

The following specifications apply to the LEADZM 18,000 BTU Mini Split AC/Heating System (Model: LZ-18K-230V-split):

- **Cooling/Heating Capacity:** 18,000 BTU
- **Voltage:** 230V
- **Seasonal Energy Efficiency Ratio (SEER):** 19
- **Noise Level:** 32-50 dBa
- **Recommended Area:** 750-1250 sq.ft.
- **Indoor Unit Dimensions (W x D x H):** 39.76" x 8.66" x 12.40"
- **Outdoor Unit Dimensions (W x D x H):** 30.70" x 13.74" x 23.81"
- **Refrigerant Type:** R410A
- **Wattage:** 5400 watts
- **Form Factor:** Mini-Split



Figure 8.1: Dimensions and specifications for the 18,000 BTU-230V model.

## 8.1 Energy Efficiency

With a 19 SEER rating, this unit demonstrates high energy efficiency, which can contribute to reduced operational costs compared to systems with lower SEER ratings.

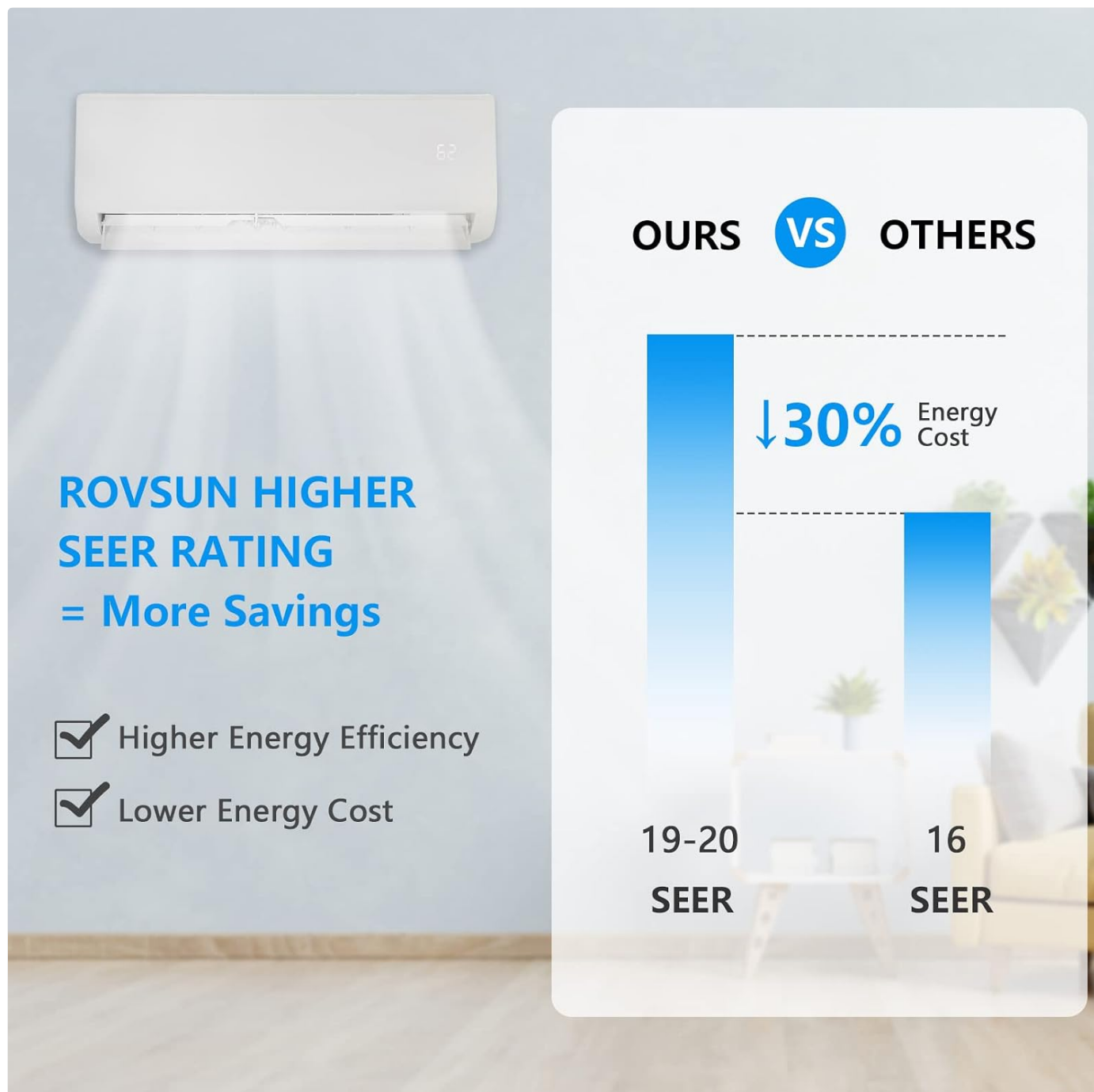


Figure 8.2: Comparison illustrating the energy efficiency benefits of a higher SEER rating.

## 9. WARRANTY AND SUPPORT

LEADZM is committed to customer satisfaction. For any inquiries, technical assistance, or warranty claims, please refer to the contact information provided with your purchase documentation.

- **Professional Installation:** As noted, professional installation is required to ensure proper function and to maintain warranty validity.
- **Customer Care:** Your satisfaction is a priority. For support, please consult the contact details provided at the time of purchase.

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.

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