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> [MEXENG 20K BTU Dual Zone Mini Split Air Conditioner Instruction Manual](#)

MEXENG QkFI1h93k3USIVKqo5uNbw4R

MEXENG 20K BTU Dual Zone Mini Split Air Conditioner

MODEL: QkFI1h93k3USIVKqo5uNbw4R - INSTRUCTION MANUAL

1. Product Overview

The MEXENG 20K BTU Dual 2 Zone Mini Split Air Conditioner is a versatile climate control system designed for multi-room applications. It features a 20 SEER2 rating for energy efficiency and includes cooling, heating, dehumidification, and fan functions. This system is Wi-Fi enabled for convenient control and comes with pre-charged condensers and 16ft installation kits.

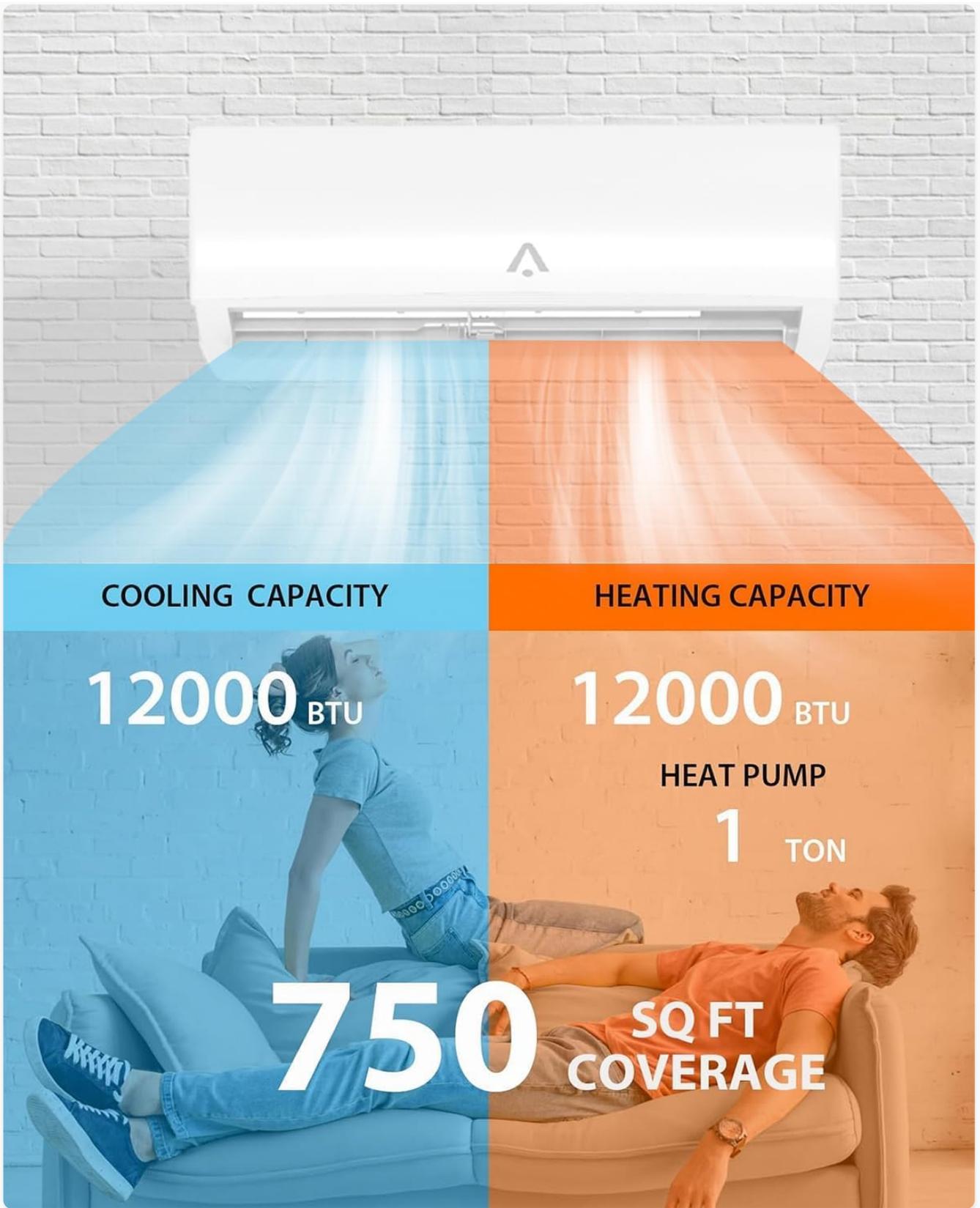


Image: MERXENG 20K BTU Dual Zone Mini Split Air Conditioner indoor unit.

2. Included Components

The MERXENG 20K BTU Dual Zone Mini Split Air Conditioner system typically includes the following components, delivered in multiple boxes:

PACKAGELIST

Comes in 3 boxes & delivery time may be different per box

BOX1

- | | |
|---|-------------------|
| 1 13ft Copper Connection Pipe-Air Pipe | 7 UserManual |
| 2 13ft Copper Connection Pipe-Liquid Pipe | 8 Tape |
| 3 8ftPowerLine | 9 Luting (Putty) |
| 4 15ft Communication Wire | 10 Remote Control |
| 5 6.5ft Drain Pipe | 11 Indoor Unit |
| 6 Pipe-Liquid Pipe +Batteries | |

BOX2

- | | |
|---|-------------------|
| 1 13ft Copper Connection Pipe-Air Pipe | 7 UserManual |
| 2 13ft Copper Connection Pipe-Liquid Pipe | 8 Tape |
| 3 8ftPowerLine | 9 Luting (Putty) |
| 4 15ft Communication Wire | 10 Remote Control |
| 5 6.5ft Drain Pipe | 11 Indoor Unit |
| 6 Pipe-Liquid Pipe +Batteries | |

BOX3

- | |
|----------------|
| 1 Outdoor Unit |
|----------------|

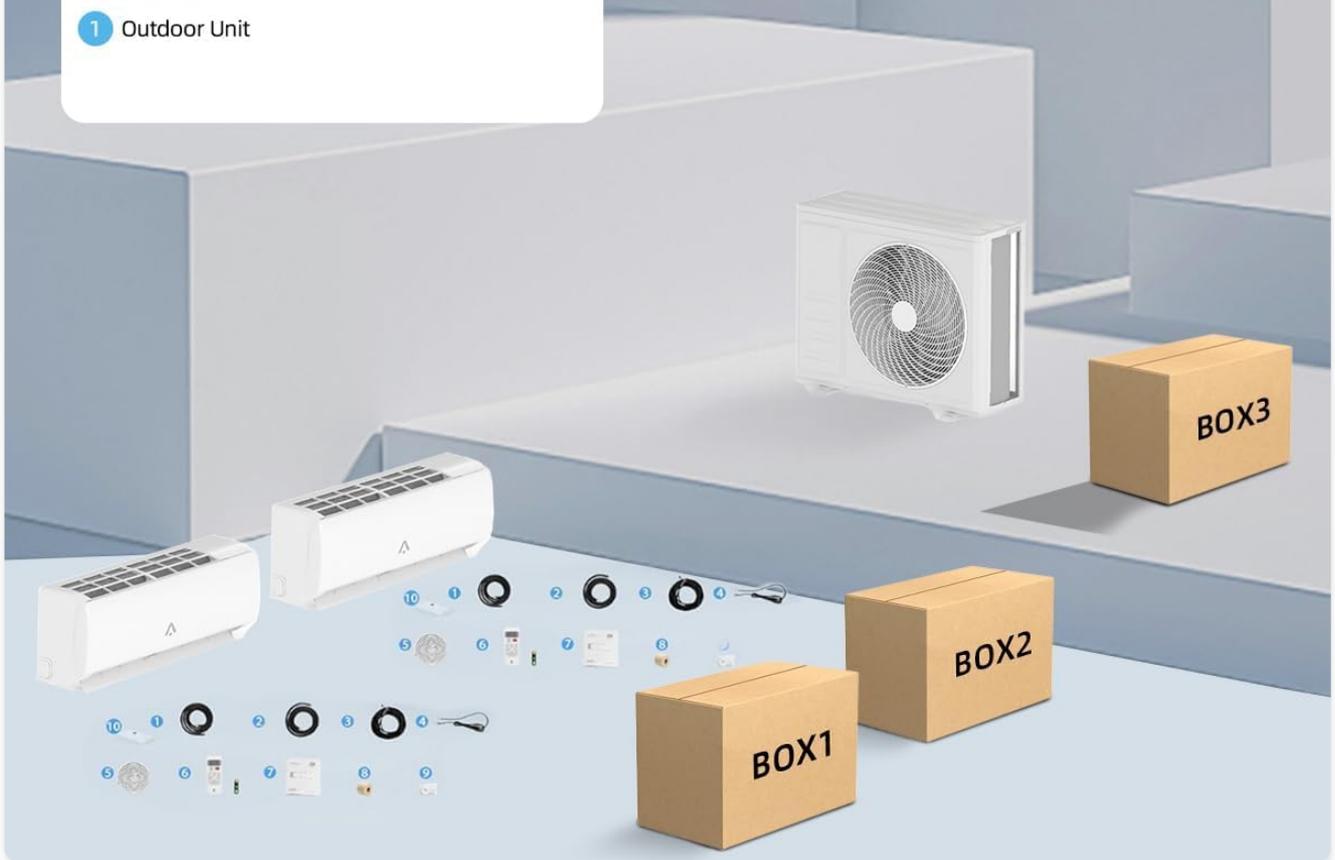


Image: Diagram showing the components included in the package, such as indoor units, outdoor unit, remote control, and installation accessories.

- 1 x Outdoor Unit
- 2 x Indoor Units
- 1 x Remote Control
- 1 x Accessory Kit
- 1 x User Manual
- Copper Connection Pipe-Air Pipe (13ft)

- Copper Connection Pipe-Liquid Pipe (13ft)
- Power Line (8ft)
- Communication Wire (15ft)
- Drain Pipe (6.5ft)
- Wrapping Tape
- Luting (Putty)

3. Setup & Installation

Professional installation is mandated for this system. Please ensure all safety precautions are followed during installation. The following video provides a visual guide to the installation process.

Video: Detailed installation guide for the MERXENG Mini Split Air Conditioner. This video covers preparation, indoor unit installation, outdoor unit installation, and trial operation.

3.1. Preparation Before Installation

Before beginning installation, gather all necessary tools and materials. Ensure the installation environment meets the following criteria:

- No heat source or steam source nearby.
- No obstructions around the inlet and outlet of both indoor and outdoor units.
- No smoke, oil, flammable, explosive, or corrosive gases present.

The wall for the indoor unit must be hard, flat, and firm to prevent vibration and noise. Ensure adequate clearance:

- To ceiling: > 15cm
- To obstacles (sides): > 20cm
- To floor: 230-260cm

3.2. Indoor Unit Installation

1. **Fix Mounting Plate:** Place the mounting plate on the wall and use a level to ensure it is horizontal. Select positions for at least 5 screws to firmly fix the plate. Do not use nails.
2. **Punch Holes in the Wall:** After determining where the pipe will go through the wall, drill holes. The wall hole should be inclined outward by 5-10 degrees, with a diameter of 60-80mm. Use an anti-dust bag to avoid dust. Avoid wires, plumbing, gas, and other sensitive components.
3. **Install Connection Cable:** Pass the power cable out from the back of the indoor unit and fix it on the terminal board. Fix the cable with a clamp.
4. **Knock-out Panel:** According to the piping direction, remove the knock-out panel with a knife and remove burrs to prevent the drain pipe from being broken.
5. **Connect Refrigerant Piping:** Use both hands to turn the pipe in the desired direction. It is forbidden to operate with one hand, which can deform or rupture the tube. Aim at the pipe center, tighten the taper nut with fingers, then tighten with 2 wrenches. Refer to the torque table for specific pipe sizes.
6. **Install Drain Hose:** Connect the drain hose with the water outlet pipe, and fix it firmly with adhesive tape. The length should be more than 5cm to prevent water leakage. Ensure the drain hose is sloped down and never put the end of the drain hose in the water.
7. **Wrap the Piping:** Wrap refrigerant piping, wires, and drain pipe with wrapping tape.
8. **Mount Indoor Unit:** Put the refrigerant piping out of the wall hole. Put the indoor unit on the mounting plate. Push the lower part of the indoor unit until a 'click' sound is heard to make sure the indoor unit is firmly fixed to the wall.

- Pipe Protecting Ring and Putty:** To protect piping and wires, a pipe protecting ring shall be installed sealed with putty.

3.3. Outdoor Unit Installation

The outdoor unit must be installed in a firm and flat place to prevent vibration and noise. If installing at a higher place, operators should wear a safety belt and helmet.

- To obstruction (top): > 20cm
 - To obstruction (sides): > 30cm
 - Air in side: > 10cm
 - Air out side: > 200cm
- Install Outdoor Unit Bracket:** Use a level to ensure the bracket is horizontal and vertical. Use at least 6 expansion bolts to make sure brackets are fixed firmly on the wall.
 - Fix Outdoor Unit:** Put the outdoor unit onto the brackets. Use 4 screws to fix the feet of the outdoor unit.
 - Connect Refrigerant Piping:** Remove the nut from the stop valves. Aim at the pipe center of the stop valve, tighten the taper nut with fingers, then tighten with 2 wrenches. Refer to the torque table for specific pipe sizes. Screw 2 caps back on.
 - Fix Cables:** Remove the electrical box cover. Fix cables to the terminal board according to the wiring diagram on the E-parts cover. Use a clamp to fix cables. Put the electrical box cover back.

3.4. Vacuumizing

Before vacuuming, check all the nuts of the indoor and outdoor unit are tightened. Connect the stop valve, charging hose, manifold valve, and vacuum pump as shown in the diagram.

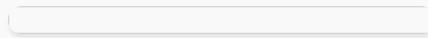


Image: Diagram illustrating the connection of the vacuum pump, manifold valve, and charging hose to the outdoor unit's stop valves.

- Turn on the handle Lo to vacuumize.
- Vacuumize for at least 15 minutes, ensuring the value on the pressure gauge is ≤ 0.1 MPa.
- Pressure should be kept for 3-5 minutes after vacuumizing, ensuring pressure springback is ≤ 0.05 MPa.
- Open 1/4 liquid valve, and remove the charging hose.
- Open all the liquid valves and gas valves.
- Screw all the caps and tighten them up.

3.5. Refrigerant Adjustment Table

When the length of the connecting pipe is changed, an extra amount of refrigerant may need to be added or reduced to maintain optimal operation and performance.

Length of connection pipe	Added or reduced refrigerant	Amount of refrigerant for the unit
<3m	CC \leq 12000Btu: reduce 20g/m	\leq 1Kg
	CC \geq 18000Btu: reduce 50g/m	\leq 2Kg
3-5m	Not needed	
5-15m	CC \leq 12000Btu: add 20g/m	\leq 1Kg
	CC \geq 18000Btu: add 30g/m	\leq 2Kg

4. Operating Modes & Features

This MERXENG mini split system offers a comprehensive range of functions for year-round comfort and efficiency.



Image: Visual representation of the 4-in-1 functions: Heating, Cooling, Dehumidification, and Ventilation.

4.1. Key Features

- **Multi-room Cooling Solution:** Designed to cool any corner of your home, this 20000 BTU 2 zone (12000 BTU+ 12000 BTU) mini split air conditioner can independently adjust the temperature to meet the individual needs of different rooms.
- **All-Season Solution:** Offers air conditioning, powerful heat pump, dehumidifier, fan, and speed-up turbo function.

- **Multiple Modes & Speeds:** 6 modes (auto/cool/heat/dry/fan/sleep) and 5 wind speeds (auto/low/mid/high/strong).
- **Advanced Functions:** Auto defrost, self-diagnosis/cleaning, iFEEL mode, 24-hour timer, 4-way air swing, sleep mode, silent mode.
- **Energy-saving Inverter Technology:** 20 SEER grade ensures optimal performance with 30% energy savings. ETL and AHRI certified.
- **Smart Control:** Remote, mobile app, and voice control functions (works with Alexa/Google Assistant).
- **Quiet Operation:** Quiet sleep mode and screen off function for a restful night.

ULTRA QUIET FOR YOUR SLEEP

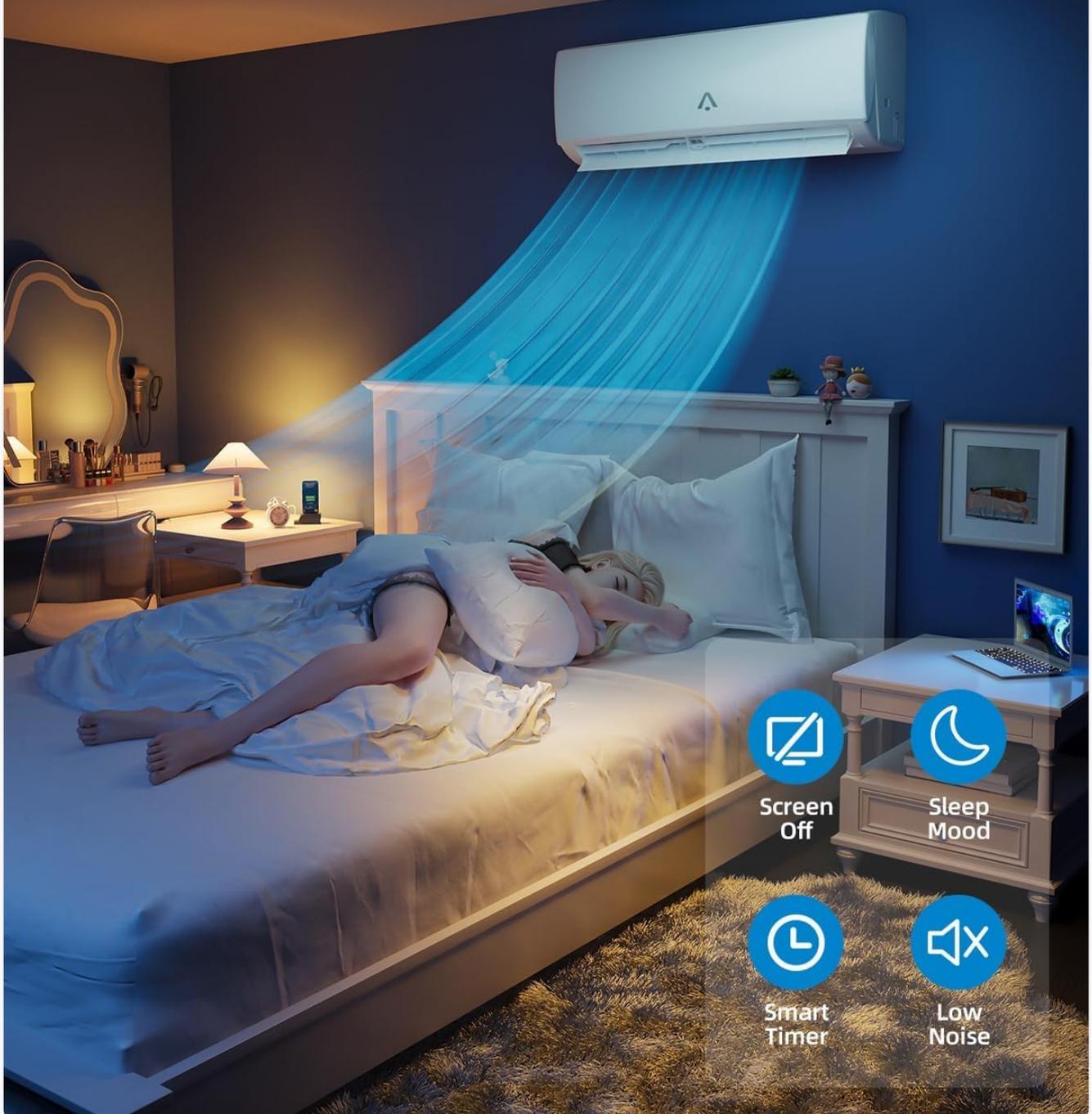


Image: Features for quiet operation including Screen Off, Sleep Mode, Smart Timer, and Low Noise.

Image: Illustrates suitability for various locations such as large rooms, bedrooms, living rooms, and garages.

5. Maintenance

Regular maintenance ensures optimal performance and longevity of your MERXENG Mini Split Air Conditioner.

5.1. Filter Cleaning

The air filter can be easily removed and cleaned. Refer to the user manual for specific instructions on how to access and clean the filters. Regular cleaning of the filters is essential for maintaining air quality and unit efficiency.

5.2. Trial Operation

After installation, perform a trial operation to ensure proper functioning. This includes checking for electrical safety, water drainage, and any potential leakages.

- 1. Electrical Safety Check:** Use a multimeter to test possible leaking positions of the outdoor unit shell during trial operation. If there is electricity leakage, turn off power immediately to do further examination.
- 2. Water Drain and Leakage Test:** Remove one filter. Pour in 500ml water along the evaporator for about 20 seconds. Check if water drain can normally flow out and if any water leakage is around the indoor unit.

6. Specifications

Feature	Detail
Product Dimensions	34.84 x 14.41 x 10.83 inches (Outdoor Unit)
Item Weight	152.1 pounds
Model Number	QkFI1h93k3USIVKqo5uNbw4R
Form Factor	Mini-Split
Capacity	20,000 BTU (Dual 12,000 BTU zones)
Voltage	230V
Noise Level	58 Decibels
Cooling Power	1370 Kilowatts
Seasonal Energy Efficiency Ratio (SEER)	20
Color	White
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

7. Warranty Information

This MERXENG Mini Split Air Conditioner comes with a **3 Years manufacturer warranty**. Please retain your proof of purchase for warranty claims. For detailed terms and conditions, refer to the warranty card included with your product or contact customer support.

8. Support & Contact

For technical assistance, troubleshooting, or any inquiries regarding your MERXENG Mini Split Air Conditioner, please contact our customer support team. You can find contact information on the product packaging or visit the official MERXENG website.

Note: This system mandates professional installation. Attempting DIY installation may void your warranty and pose safety risks.