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› [Blueridge 36,000 BTU, 220V 18 SEER Ductless DIY Mini Split AC/Heating System User Manual](#)

Blueridge 453097400

Blueridge 36,000 BTU, 220V 18 SEER Ductless DIY Mini Split AC/Heating System

Model: 453097400

Brand: Blueridge

PRODUCT OVERVIEW

The Blueridge DIY Quick Connect Mini Split system is designed for efficient heating and cooling without the need for professional HVAC installation. This system features a pre-charged R410 quick-connect line set, allowing for a straightforward installation process using common tools. It is suitable for various applications, including bonus rooms, garages, home offices, and sheds, providing year-round comfort with its inverter heat pump technology.



Figure 1: Complete Blue Ridge DIY Mini Split System including the indoor air handler, outdoor condenser, pre-charged line set, and various installation components like remotes and sealing materials.

SAFETY INFORMATION

Read all instructions carefully before installation and operation. Failure to follow safety guidelines may result in property damage, personal injury, or death. Keep this manual for future reference.

- Ensure the power supply is disconnected before performing any installation or maintenance.
- Only use the specified voltage (220V) for this unit.
- Do not attempt to modify the system or its components.
- Ensure proper ventilation around the outdoor unit.
- Keep children and pets away from the units during operation and maintenance.

COMPONENTS INCLUDED

The Blue Ridge DIY Mini Split system includes the following main components:

- 36,000 BTU Single Zone Do It Yourself Wall Mounted Ductless Indoor Air Handler

- 36,000 BTU 18 SEER Single Zone 220V Do It Yourself Ductless Mini Split Outdoor Condenser
- Installation Kit (includes pre-charged line set, remote controls, and other necessary accessories)

Premium Installation Kit



**Insulation | X4 Rubber Mounting Feet | Mounting Screws | Wall Sleeve Kit
Electrical Whip and Disconnect Box | Neoprene | Repair Tape | Thread Sealant
WiFi Connection | Remote Control | Pre-flared, insulated, and charged copper line set**

Figure 2: Detailed view of the Premium Installation Kit, which includes insulation, rubber mounting feet, mounting screws, wall sleeve kit, electrical whip, disconnect box, neoprene, repair tape, thread sealant, WiFi connection, pre-flared and charged copper line set, and remote controls.

SETUP AND INSTALLATION

The Blueridge DIY Mini Split system is designed for easy installation without specialized HVAC tools or training. The key to its simplicity is the pre-charged R410 quick-connect line set, eliminating the need for vacuum pumps or refrigerant charging.

Installation Steps:

1. **Mount the Indoor Unit:** Select an appropriate location on an interior wall, ensuring sufficient clearance for airflow and maintenance. Secure the mounting plate and then the indoor air handler.
2. **Mount the Outdoor Unit:** Choose a stable, level location outdoors, ensuring adequate space for air circulation and drainage. The outdoor condenser is designed for durability.

36,000 BTU Condenser



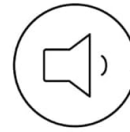
**Easy to
Install**



No Soldering



**No Vacuum
Pump**



**Incredibly
Quiet**



Figure 3: The 36,000 BTU outdoor condenser unit, engineered for easy installation without soldering or a vacuum pump, and designed for quiet operation.

3. **Connect the Line Set:** Carefully uncoil the pre-charged quick-connect line set. Connect one end to the indoor unit and the other to the outdoor unit. Ensure the connections are tight and secure. No special tools are required for these connections.
4. **Open the Valves:** Once the line set is securely connected, open the valves on the outdoor unit. The pre-charged refrigerant will automatically release into the system.
5. **Electrical Connections:** Connect the system to a dedicated 220V power supply as per local electrical codes. An electrical whip and disconnect box are included in the installation kit.

For detailed dimensions and clearances, refer to the size reference guide.

Size Reference Guide

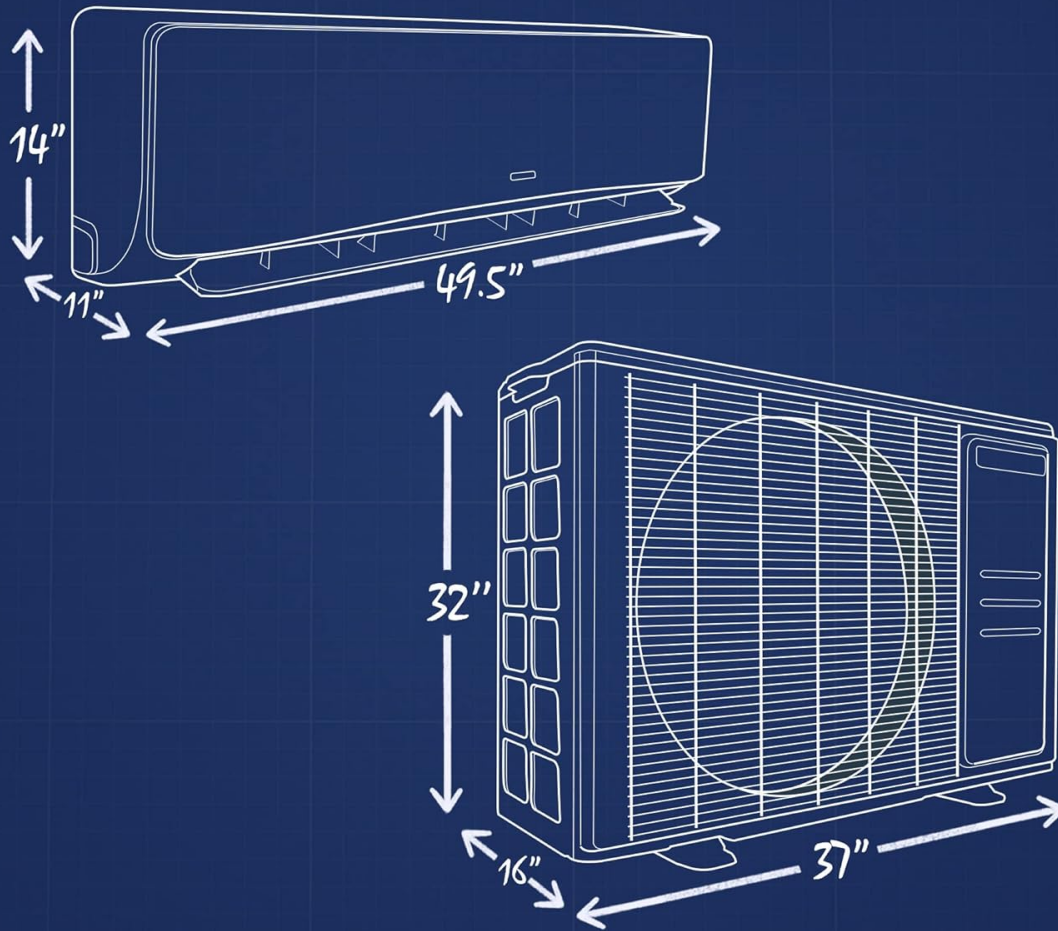


Figure 4: Size reference guide providing dimensions for both the indoor air handler (approximately 14"H x 49.5"W x 11"D) and the outdoor condenser (approximately 32"H x 37"W x 16"D).

OPERATING INSTRUCTIONS

Your Blueridge Mini Split system offers various operating modes and convenient control options.

Control Options:

- **Remote Control:** Use the included wireless remote control to adjust temperature, mode, fan speed, and other settings.
- **WiFi App Control:** Connect your system to your home WiFi network to control it remotely using the dedicated Blueridge app on your Apple or Android smart device. This allows for control from anywhere with an internet connection.

Operating Modes:

- **Cooling Mode:** Provides efficient cooling, ideal for warmer climates or seasons.
- **Heating Mode:** Utilizes inverter heat pump technology to provide effective heating, even in low ambient temperatures down to -13 degrees Fahrenheit. This makes the system suitable for year-round climate

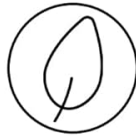
control.

- **Sleep Mode:** This mode adjusts temperature settings automatically during sleep hours to optimize comfort and energy savings.
- **Auto Restart:** In the event of a power outage, the unit will automatically resume its previous operating settings once power is restored.

Wall Mount Air Handler



**Easy
Installation**



**High
Efficiency**



**Wi-Fi
Capable**



**Quiet
Whisper**



Figure 5: The indoor wall-mount air handler, featuring easy installation, high efficiency, Wi-Fi capability, and quiet operation.

SEER 18 **Higher Energy Efficiency**



Figure 6: The Blue Ridge indoor and outdoor units, emphasizing the SEER 18 rating for higher energy efficiency, contributing to lower electrical bills.

MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your Blue Ridge Mini Split system.

- **Air Filter Cleaning:** Clean the indoor unit's air filters regularly (e.g., monthly or bi-monthly, depending on usage and air quality). Refer to the specific instructions in your detailed user manual for filter removal and cleaning.
- **Outdoor Unit Cleaning:** Keep the outdoor condenser coil free of debris, leaves, and dirt. The Gold Fin Condenser is designed to resist long-term corrosion, especially beneficial in coastal environments.
- **Drainage Check:** Periodically check the condensate drain line for blockages to ensure proper water drainage from the indoor unit.

TROUBLESHOOTING

This section provides solutions to common issues you might encounter. For more complex problems, contact customer support.

Problem	Possible Cause	Solution
Unit does not turn on	No power, circuit breaker tripped, remote control battery low.	Check power supply, reset circuit breaker, replace remote batteries.
Insufficient cooling/heating	Dirty air filters, blocked outdoor unit, incorrect mode setting.	Clean air filters, clear debris from outdoor unit, verify mode.
Unusual noise	Loose parts, debris in fan, unit not level.	Inspect for loose components, remove debris, ensure unit is level.
Water leakage from indoor unit	Blocked condensate drain line.	Clear the condensate drain line.

SPECIFICATIONS

Attribute	Value
Brand	Blueridge
Model Number	453097400
Capacity	3 Tons (36,000 BTU)
Seasonal Energy Efficiency Ratio (SEER)	18
Voltage	220 Volts
Noise Level	34 dB
Refrigerant	R 410A (Pre-charged)
Item Weight	303 pounds
Product Dimensions (Outdoor Unit)	16"D x 37"W x 32"H
Special Features	Remote Controlled, Inverter Compressor, WiFi Enabled, Heating And Cooling Function, Low Ambient Heating/Cooling (-13°F)
Material Type	Metal (Gold Fin Condenser)

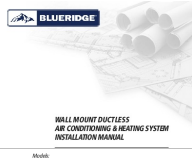

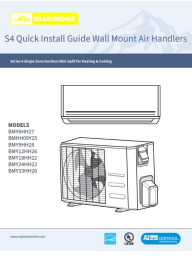

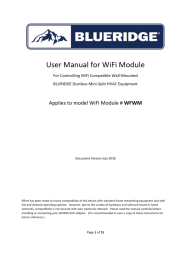
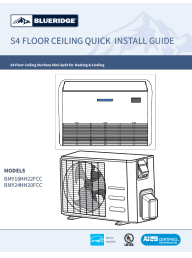
WARRANTY AND SUPPORT

Blueridge is committed to providing reliable support for your DIY Mini Split system.

- **Lifetime Technical Support:** U.S.-based experts are available to assist you with any technical questions or issues throughout the lifespan of your product.
- **Replacement Part Availability:** A wide range of replacement parts are available to ensure the long-term serviceability of your unit.

For assistance, please refer to the contact information provided with your product documentation or visit the official Blueridge support website.

Related Documents - 453097400

 <p>BLUERIDGE</p> <p>WALL MOUNT DUCTLESS AIR CONDITIONING & HEATING SYSTEM INSTALLATION MANUAL</p> <p>Models:</p> <p>BMKH18MC, BMKH24MC, BMKH30MC, BMKH42MC, BMKH18MC, BMKH24MC, BMKH30MC, BMKH42MC, BMKH18MC, BMKH24MC, BMKH30MC, BMKH42MC</p>	<p>Bluebridge Wall Mount Ductless Mini-Split System Installation Manual</p> <p>Comprehensive installation manual for Bluebridge wall mount ductless air conditioning and heating systems, covering safety precautions, system requirements, installation site instructions, piping, power and wiring, testing, troubleshooting, and diagnostic codes.</p>
 <p>BLUERIDGE</p> <p>Owner's Manual</p> <p>Original Instructions</p> <p>Split Air Conditioner</p>	<p>Bluebridge Split Air Conditioner Owner's Manual - BMKH Series Installation and Operation</p> <p>Comprehensive owner's manual for Bluebridge BMKH series split air conditioners (models BMKH18MC, BMKH24MC, BMKH30MC, BMKH42MC). Covers installation, electrical connections, maintenance, safety warnings, and operating parameters.</p>
 <p>BLUERIDGE</p> <p>S4 Quick Install Guide Wall Mount Air Handlers</p> <p>Models:</p> <p>BMKH18MC, BMKH24MC, BMKH30MC, BMKH42MC, BMKH18MC, BMKH24MC, BMKH30MC, BMKH42MC</p>	<p>Bluebridge S4 Series Wall Mount Air Handler Quick Install Guide</p> <p>Quick installation guide for Bluebridge S4 Series Single Zone Ductless Mini-Split Wall Mount Air Handlers, covering indoor and outdoor unit placement, electrical connections, and refrigerant line setup.</p>
 <p>BLUERIDGE</p> <p>Multi-Zone Mini-Split Air Conditioner Installation and Owner's Manual</p> <p>Models:</p> <p>BMKH18MC, BMKH24MC, BMKH30MC, BMKH42MC, BMKH18MC, BMKH24MC, BMKH30MC, BMKH42MC</p>	<p>Bluebridge Multi-Zone Mini-Split Air Conditioner Installation and Owner's Manual</p> <p>Detailed guide for installing, operating, and maintaining Bluebridge multi-zone mini-split air conditioning systems, covering safety, unit specifications, troubleshooting, and step-by-step procedures for various indoor unit types.</p>
 <p>BLUERIDGE</p> <p>User Manual for WiFi Module</p> <p>For Controlling WiFi Compatible Wall/Outdoor Unit/Indoor Unit/Outdoor Unit/Indoor Unit</p> <p>Applies to model: WFWM Module in BMKH18MC</p>	<p>BLUERIDGE WiFi Module WFWM User Manual</p> <p>User manual for the BLUERIDGE WFWM WiFi Module, detailing installation, setup, and operation for controlling BLUERIDGE ductless mini-split HVAC equipment via a mobile app.</p>
 <p>BLUERIDGE</p> <p>S4 FLOOR CEILING QUICK INSTALL GUIDE</p> <p>Models:</p> <p>BMKH18MC, BMKH24MC, BMKH30MC, BMKH42MC, BMKH18MC, BMKH24MC, BMKH30MC, BMKH42MC</p>	<p>Bluebridge S4 Floor Ceiling Ductless Mini-Split Quick Install Guide</p> <p>Step-by-step installation guide for the Bluebridge S4 Floor Ceiling Ductless Mini-Split system (Models BMKH18MC, BMKH24MC, BMKH30MC, BMKH42MC). Covers indoor and outdoor unit placement, electrical connections, and refrigerant handling. Features Energy Star, UL Listed, and AHRI Certified components.</p>

