

BRAVO BRV36-CC-18+18

BRAVO 36,000 BTU Dual Zone Ceiling Cassette Ductless Mini Split A/C and Heater

Model: BRV36-CC-18+18

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation, installation, and maintenance of your BRAVO 36,000 BTU Dual Zone Ceiling Cassette Ductless Mini Split A/C and Heater system. This system is designed to provide both cooling and heating for residential and commercial applications, featuring two 18,000 BTU ceiling cassette air handlers connected to a single outdoor condenser unit. Please read this manual thoroughly before installation and operation, and retain it for future reference.

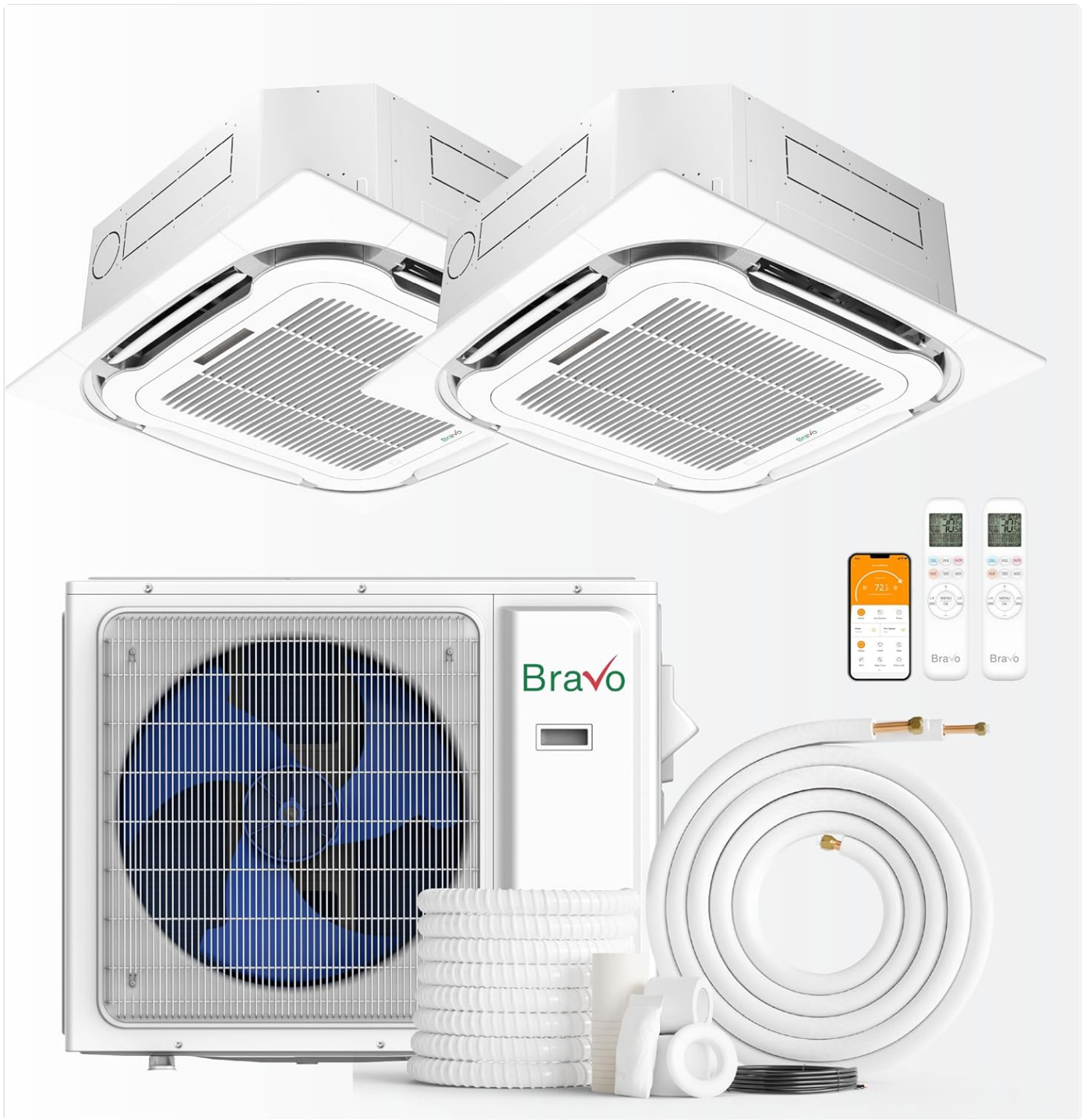


Figure 1.1: Complete BRAVO Dual Zone Mini Split System

2. SAFETY INFORMATION

Always adhere to the following safety precautions to prevent injury, property damage, or system malfunction. This appliance is not intended for use by persons (including children) with reduced physical, sensory, or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

- **Professional Installation Required:** This is not a DIY system. Installation, maintenance, and repairs must be performed by qualified and certified HVAC professionals. Improper installation can lead to electric shock, fire, water leakage, or other hazards.
- **Electrical Safety:** Ensure the power supply matches the unit's specifications (208-230V). Always disconnect power before performing any maintenance or service. Do not operate the unit with wet hands.
- **Refrigerant:** This system uses R32 refrigerant. Handle refrigerant with extreme care and only by certified technicians. R32 is a

mildly flammable refrigerant.

- **Ventilation:** Ensure adequate ventilation around the outdoor unit for proper operation and heat dissipation.
- **Clearance:** Maintain proper clearance around both indoor and outdoor units as specified in the installation guide provided with the product.
- **Children and Pets:** Keep children and pets away from the unit, especially during operation and maintenance.

3. PACKAGE CONTENTS

Your BRAVO Dual Zone Mini Split system comes as a comprehensive combo set. Please verify that all components listed below are present and undamaged upon delivery.

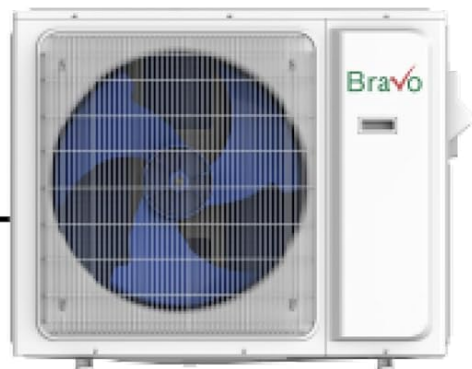
- 1 x BRAVO 36,000 BTU Outdoor Condenser Unit (23 SEER2, 230V)
- 2 x BRAVO 18,000 BTU Ceiling Cassette Air Handlers
- 2 x Remote Controls for Air Handlers
- 2 x Smart Port Adapters (for smartphone control)
- 2 x 16ft Pre-Flared and Insulated Copper Line Sets
- Communication Wires
- Small Accessories
- 2 x 16ft Drainage Extensions

INCLUDED IN YOUR ORDER



2 Ceiling Cassettes
with 2 Remote Controls

Outdoor condenser
Pre-Charged with R32



16Ft Pre-flared and insulated
copper line set

4/16 AWG Connecting Cables

16Ft Drainage extension with
small accessories

Figure 3.1: Included Components Diagram

4. SETUP AND INSTALLATION

The BRAVO Dual Zone Mini Split system requires professional installation. This section provides general information regarding the setup process. Refer to the detailed installation manual provided with your unit for specific instructions.

4.1 Site Selection

Choose appropriate locations for both the indoor ceiling cassette units and the outdoor condenser unit. Ensure sufficient space for airflow, maintenance, and proper drainage. The system is designed for multi-zone applications, capable of heating and cooling up to five zones with compatible BRAVO outdoor units.

MULTI-ZONE SYSTEM =

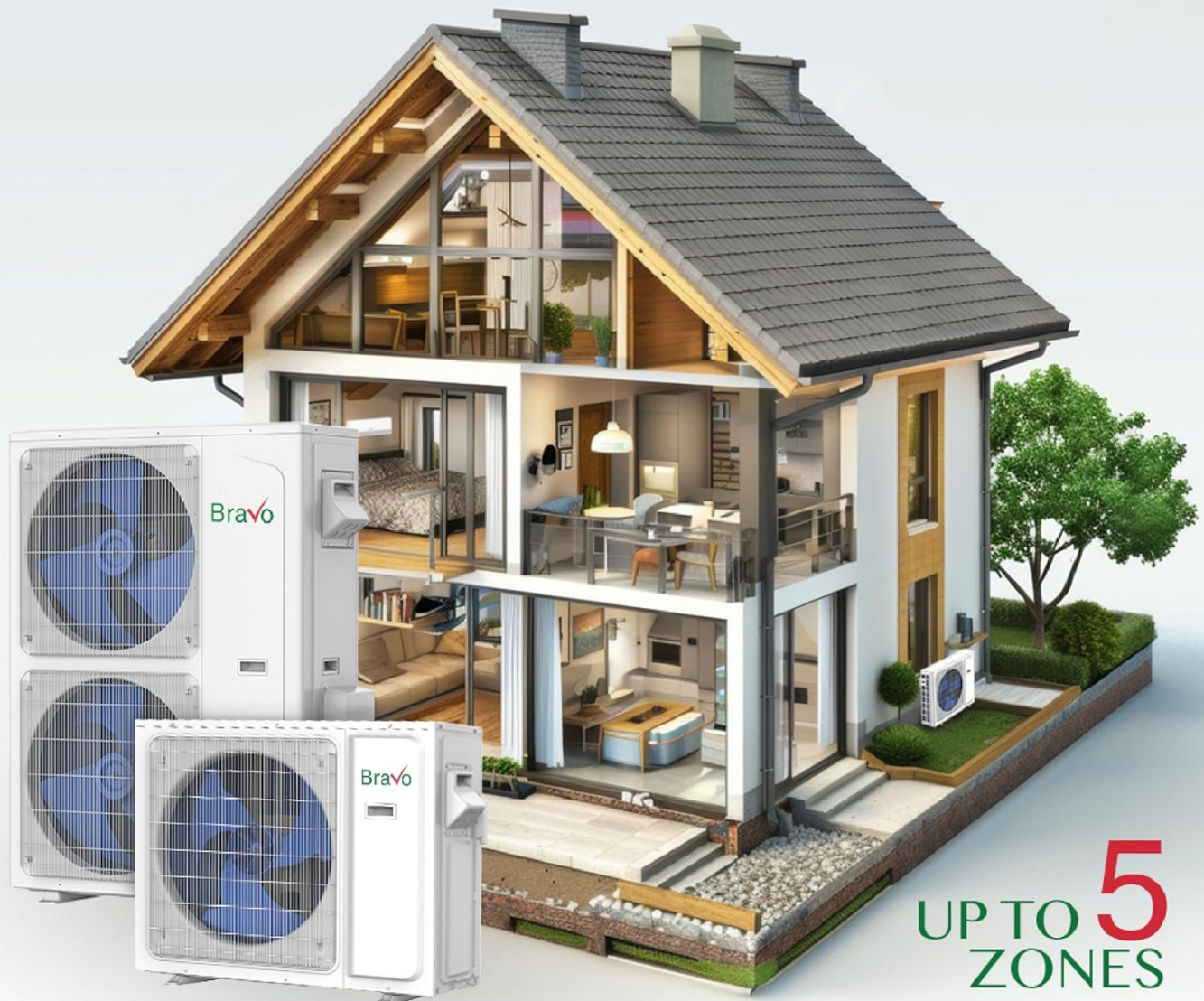


Figure 4.1: Multi-Zone System Application

4.2 Connecting Components

The system includes 16ft pre-flared and insulated copper line sets and communication wires for connecting the indoor units to the outdoor condenser. Ensure all connections are secure and leak-free. The outdoor unit comes pre-charged with R32 refrigerant.

4.3 Drainage System

Proper drainage is crucial for the efficient operation of the indoor units. The included 16ft drainage extensions are designed with a no-kink rubberized hose and plastic coil inserts to prevent blockages and ensure smooth condensate removal.

NO KINK DRAINAGE EXTENSION



INCLUDED: RUBBERIZED HOSE
WITH PLASTIC COIL INSERTS



OTHER BRANDS:
ONLY PLASTIC HOSE

Figure 4.2: No Kink Drainage Extension

5. OPERATING INSTRUCTIONS

Your BRAVO Mini Split system offers flexible control options for optimal comfort.

5.1 Remote Control Operation

Each ceiling cassette unit comes with its own remote control. The remote allows you to adjust temperature, fan speed, operating mode (Cool, Heat, Dry, Fan), set timers, and activate special functions like Comfortable Sleep Mode.



Figure 5.1: Indoor Unit with Remote Control

5.2 Smartphone App Control (BRAVO Remote App)

Control your air handlers individually from anywhere using your smartphone and the BRAVO Remote app. The system includes smart port adapters for this functionality. Download the app by scanning the QR code below or visiting the provided link.



**DOWNLOAD THE
BRAVO REMOTE APP**

Scan the following intelligent
QR code to download SMART
APP for iOS or Android

 SMART APP
BUILT-IN

Figure 5.2: BRAVO Remote App and QR Code

Download the BRAVO Remote App: <http://cloud.broadlink.com.cn/soft/aux/download.html>

5.3 Key Features

- **Cooling and Heating:** Provides efficient cooling and heating, capable of operating in heating mode with ambient temperatures as low as -13°F.
- **Multiple Fan Speeds:** Adjust airflow to your preference.
- **Comfortable Sleep Mode:** Optimizes temperature and fan speed for quiet and comfortable sleep.
- **360° Perimeter Airflow:** Ensures even distribution of conditioned air throughout the room.
- **LED Display:** Provides clear indication of settings and status.
- **Whisper Technology:** Designed for quiet operation, ideal for bedrooms and living areas.

6. MAINTENANCE

Regular maintenance is essential to ensure the longevity and efficient operation of your BRAVO Mini Split system. Always disconnect power to the unit before performing any maintenance.

- **Air Filter Cleaning:** The indoor units are equipped with anti-fungal filters. Clean these filters regularly (e.g., every 2-4 weeks, depending on usage) to maintain air quality and system efficiency. Refer to the indoor unit's specific manual for filter removal and cleaning instructions.
- **Outdoor Unit Cleaning:** Keep the outdoor condenser coil free of dirt, leaves, and other debris. Periodically rinse the coil with a garden hose (ensure power is off). Do not use high-pressure washers.
- **Drainage Line Check:** Periodically check the condensate drainage lines for any blockages or leaks. Ensure water flows freely.
- **Professional Servicing:** Schedule annual professional maintenance with a certified HVAC technician. They can check refrigerant levels, electrical connections, and overall system performance.

7. TROUBLESHOOTING

This section provides solutions for common issues. For complex problems, contact professional technical support.

| Problem | Possible Cause | Solution |
|--------------------------------|--|--|
| Unit does not turn on | No power; Remote control batteries dead; Circuit breaker tripped | Check power supply; Replace batteries; Reset circuit breaker |
| Insufficient cooling/heating | Dirty air filters; Blocked outdoor unit; Low refrigerant; Incorrect mode setting | Clean filters; Clear obstructions; Contact technician for refrigerant check; Verify mode setting |
| Water leakage from indoor unit | Clogged drain line; Improper installation angle | Check and clear drain line; Contact technician for inspection |
| Unusual noise | Loose parts; Fan obstruction; Compressor issue | Inspect for loose parts; Clear obstructions; Contact technician |

8. SPECIFICATIONS

Detailed technical specifications for the BRAVO 36,000 BTU Dual Zone Mini Split System.

8.1 General Specifications

- **Brand:** BRAVO
- **Model Number:** BRV36-CC-18+18
- **System Type:** Dual Zone Ductless Mini Split A/C and Heater
- **Total Capacity:** 36,000 BTU
- **Indoor Unit Capacity:** 2 x 18,000 BTU
- **SEER2 Rating:** 23.0
- **Voltage:** 208-230 Volts (AC)
- **Refrigerant:** R32
- **Color:** White
- **Installation Type:** Split System
- **Compatible Devices:** Android App, iOS App

8.2 Indoor Model Specifications (BRV-M18CT-230VI)

| Indoor Model | | | BRV-M09CT-230VI | BRV-M12CT-230VI | BRV-M18CT-230VI | BRV-M24CT-230VI |
|-----------------------------|------------------------|-------|-------------------|-------------------|-------------------|-------------------|
| Panel Model Number | | | BRV-PN9-18CT | BRV-PN9-18CT | BRV-PN9-18CT | BRV-PN24CT |
| Power Supply | V-Ph-Hz | | 208~230-1-60 | 208~230-1-60 | 208~230-1-60 | 208~230-1-60 |
| Cooling | Capacity | Btu/h | 9,000 | 12,000 | 18,000 | 24,000 |
| | Rated Capacity | Btu/h | 10,000 | 12,000 | 18,500 | 24,000 |
| Heating | Rated Capacity | Btu/h | | | | |
| Max Fuse | A | | 5 | 5 | 5 | 5 |
| Indoor Air Flow | CFM | | 383 | 383 | 442 | 824 |
| Indoor Noise Level | dB(A) | | 40 | 40 | 45 | 47 |
| Indoor Unit | Dimensions (WxDxH) | in | 22.44x22.44x10.24 | 22.44x22.44x10.24 | 22.44x22.44x10.24 | 33.07x33.07x9.69 |
| | Packing (WxDxH) | in | 28.35x25.59x11.42 | 28.35x25.59x11.42 | 28.35x25.59x11.42 | 35.83x35.83x12.20 |
| | Net Weight | lbs. | 30.9/37.5 | 30.9/37.5 | 33.1/38.6 | 52.9/61.7 |
| Panel | Dimensions (WxDxH) | in | 25.59x25.59x2.17 | 25.59x25.59x2.17 | 25.59x25.59x2.17 | 37.40x37.40x2.17 |
| | Packing (WxDxH) | in | 27.95x27.95x3.15 | 27.95x27.95x3.15 | 27.95x27.95x3.15 | 39.37x39.37x3.94 |
| | Net/Gross Weight | lbs. | 4.9/8.2 | 4.9/8.2 | 4.9/8.2 | 11.7/17.2 |
| Refrigerant Piping | Liquid Side / Gas Side | in | 1/4" / 3/8" | 1/4" / 3/8" | 1/4" / 1/2" | 1/4" / 5/8" |
| Operation Temperature Range | *F | | 60.8~89.6 | 60.8~89.6 | 60.8~89.6 | 60.8~89.6 |

Figure 8.1: Indoor Model Specifications

8.3 Outdoor Model Specifications (BRV-M36-230VO)

| Outdoor Model | | | BRV-M18-230VO | BRV-M24-230VO | BRV-M30-230VO | BRV-M36-230VO | BRV-M42-230VO |
|---------------------------|-----------------------------|-------|-----------------------|-----------------------|-----------------------|-----------------------|------------------------|
| Power Supply | V-Ph-Hz | | 208~230-1-60 | 208~230-1-60 | 208~230-1-60 | 208~230-1-60 | 208~230-1-60 |
| Cooling | Capacity | Btu/h | 17,700 (3,800-19,800) | 24,000 (4,900-31,400) | 30,000 (6,000-38,200) | 36,000 (6,350~38,500) | 42,000 (8,350-46,000) |
| | EER2 | Btu/h | 3.60 | 3.66 | 3.66 | 3.60 | 3.66 |
| | SEER2 | Btu/h | 22 | 23 | 23 | 23 | 24 |
| Heating | Rated Capacity | Btu/h | 18,000 (4,200-22,000) | 24,000 (5,200-32,000) | 30,000 (6,300-36,000) | 36,000 (7,000~43,000) | 42,000 (8,450-53,t000) |
| | HSPF2-4 | Btu/h | 10 | 10 | 10 | 10 | 10.5 |
| | COP2 | W/W | 3.8 | 4.0 | 3.9 | 4.0 | 3.9 |
| Minimum Circuit Ampacity | A | | 20 | 30 | 40 | 45 | 45 |
| Max Fuse | A | | 20 | 30 | 40 | 45 | 45 |
| Outdoor Air Flow | CFM | | 1529 | 2235 | 2353 | 2353 | 4235 |
| Outdoor Side Noise Level | dB(A) | | 54 | 57 | 58 | 59 | 60 |
| Outdoor Unit | Dimensions (Wx-DxH) | in | 34.65x13.90x21.93 | 38.58x15.28x27.56 | 41.18x17.91x31.81 | 41.18x17.91x31.81 | 39.80x15.75x51.97 |
| | Packing (WxDxH) | in | 35.55x15.04x24.21 | 39.96x16.73x30.00 | 43.50x19.49x34.84 | 43.50x19.49x34.84 | 42.52x16.93x56.69 |
| | Net Weight | lbs. | 75.0/80.5 | 102.5/109.1 | 148.8/157.6 | 154.3/163.1 | 205.0/224.9 |
| Refrigerant Type / Volume | oz | | R32/38.8 | R32/51.2 | R32/67.0 | R32/81.2 | R32/ 05.8 |
| Refrigerant Precharge | ft | | 24.6 | 24.6 | 24.6 | 24.6 | 24.6 |
| Refrigerant Piping | Liquid Side / Gas Side | in | 1/4" / 3/8" | 1/4" / 3/8" | 1/4" / 3/8" | 1/4" / 3/8" | 1/4" / 3/8" |
| | Max Refrigerant Pipe Length | ft | 82 | 98 | 115 | 115 | 115 |
| Ambient Temperature | Outdoor (Cooling) | *F | -13~ 125.6 | -13~ 125.6 | -13~ 125.6 | -13~ 125.6 | -13~ 125.6 |
| | Outdoor (Heating) | *F | -13~ 75.2 | -13~ 75.2 | -13~ 75.2 | -13~ 75.2 | -13~ 75.2 |




Figure 8.2: Outdoor Model Specifications

9. WARRANTY AND SUPPORT

BRAVO is committed to providing reliable products and excellent customer service.

- Technical Support:** Free US-based technical support is available should you ever need assistance with your BRAVO Mini Split system. Please have your model number and purchase information ready when contacting support.
- Warranty Information:** For detailed warranty terms and conditions, please refer to the warranty card included with your product or visit the official BRAVO website.

Related Documents

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|---|--|
|  The cover of the user manual for the Bravo Wi-Fi Mini Split Air Conditioner. It features the Bravo logo at the top, followed by the product name and 'Wi-Fi User Manual'. Below the text are icons for a smart home, a smartphone, and a Wi-Fi symbol. The background is dark with a white checkmark graphic. | <p>Bravo Wi-Fi Mini Split Air Conditioner User Manual - SmartLife-SmartHome App Guide</p> <p>Comprehensive user manual for the Bravo Wall Mounted Mini Split Air Conditioning System, detailing Wi-Fi setup, app control via SmartLife-SmartHome, device management, and troubleshooting.</p> |
|  The cover of the instruction manual for the Bravo BTP12 High-Pressure 12 Volt Pump. It shows a technical diagram of the pump unit with various components labeled. | <p>Bravo BTP12 High-Pressure 12 Volt Pump Instruction Manual</p> <p>This document provides instructions for the safe and effective use of the Bravo BTP12 High-Pressure 12 Volt Pump. It includes information on features, specifications, operation, maintenance, and safety precautions.</p> |
|  The cover of the Bravo Business Wear catalog. It features the Bravo logo at the top and a photograph of a man and a woman wearing professional uniforms. The man is wearing a dark polo shirt, and the woman is wearing a dark top. | <p>Bravo Business Wear: Chef, Industrial, Executive, and Health Uniforms</p> <p>Explore Bravo's extensive collection of professional uniforms, including chef wear, industrial apparel, executive attire, and healthcare scrubs. Discover high-quality, durable, and stylish options for every profession.</p> |