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› BRAVO 36,000 BTU 230V Ductless Mini Split Air Conditioner & Heat Pump User Manual

## BRAVO BRV-R36W-230VI/BRV-R36LS-230VO

# BRAVO 36,000 BTU 230V Ductless Mini Split Air Conditioner & Heat Pump User Manual

Model: BRV-R36W-230VI (Indoor Unit) / BRV-R36LS-230VO (Outdoor Unit)

## 1. INTRODUCTION

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your BRAVO 36,000 BTU 230V Ductless Mini Split Air Conditioner and Heat Pump. Please read this manual thoroughly before installation and operation, and retain it for future reference. Proper installation by a licensed HVAC technician is required to ensure optimal performance and warranty validity.

## 2. SAFETY INFORMATION

**Important:** Professional installation is required. Improper installation can lead to electric shock, fire, serious injury, or death. Always disconnect power before servicing the unit. Refer to local and national electrical codes for proper wiring. Do not attempt to repair or service the unit beyond the scope of this manual.

## 3. PACKAGE CONTENTS

Your BRAVO Mini Split system includes the following components:

- Indoor Unit (BRV-R36W-230VI)
- Outdoor Unit (BRV-R36LS-230VO)
- Remote Control
- Smart Port Adapter for Wi-Fi Control
- 13ft Pre-Flared and Insulated Copper Line Set
- 13ft Communication Wires (between Indoor and Outdoor unit)
- 13ft Drainage Extension
- Small Accessories (e.g., mounting hardware, batteries)



Figure 1: Complete BRAVO Mini Split system package contents.

## 4. SETUP AND INSTALLATION

Installation of this unit requires specialized tools and knowledge. It is strongly recommended that installation be performed by a qualified and licensed HVAC technician to ensure safety, proper function, and warranty validity.

### 4.1 Indoor Unit Installation

Mount the indoor unit on a sturdy wall, ensuring adequate clearance from the ceiling and adjacent walls for proper airflow and maintenance. Use the provided mounting bracket and hardware.



Figure 2: Indoor unit mounted on a wall.

#### 4.2 Outdoor Unit Installation

Place the outdoor unit on a level, stable surface, such as a concrete slab, ensuring proper drainage and clearance from obstructions. Connect the pre-charged copper line set and communication wires between the indoor and outdoor units.

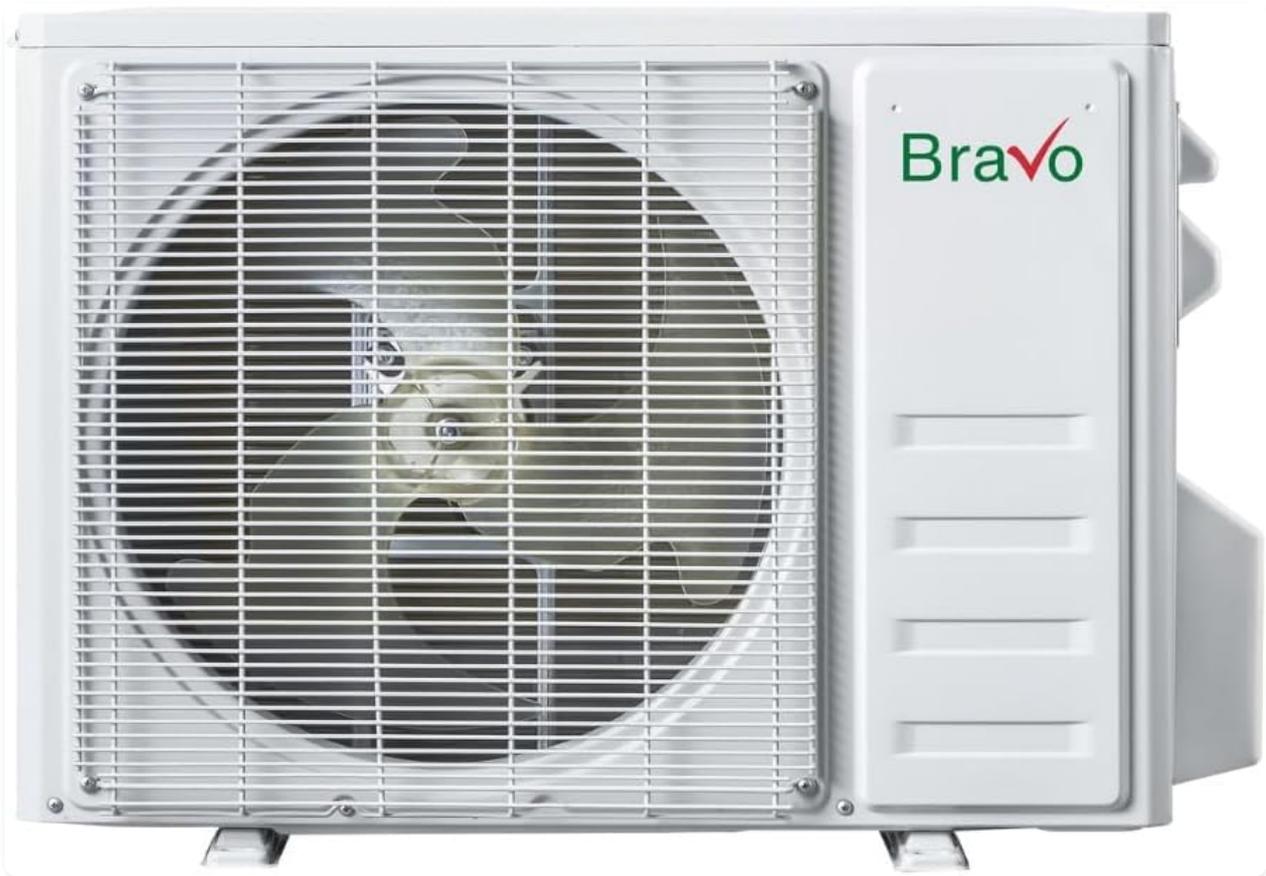


Figure 3: Outdoor unit on a concrete slab.

#### 4.3 Electrical Connections

Connect the unit to a dedicated 230V electrical circuit. Ensure all wiring is correctly sized and protected by an appropriate circuit breaker. The communication wires connect the indoor and outdoor units for control signals.

#### 4.4 Vacuuming the System

After connecting the line set, the system must be thoroughly vacuumed to remove all air and moisture. This is a critical step for efficient operation and to prevent damage to the compressor. A vacuum pump and manifold gauge set are required.

## 4.5 General Installation Guidance (Video)

The following video provides general guidance on mini-split installation steps. While it features a DELLA unit, many of the installation principles are applicable to your BRAVO system. Always refer to your specific BRAVO manual for detailed instructions.

Video 1: General Mini Split Installation Guide (featuring a DELLA unit). This video covers marking locations, mounting brackets, routing linesets, connecting electricals, vacuuming, and opening valves.

## 5. OPERATING INSTRUCTIONS

Your BRAVO Mini Split system offers various operating modes and control options for optimal comfort.

### 5.1 Remote Control

The included remote control allows you to power the unit on/off, adjust temperature, select operating modes (Cool, Heat, Fan), set fan speed, and activate special functions like Sleep Mode.



Figure 4: Indoor unit displaying temperature, with remote control.

### 5.2 Smart Control (Wi-Fi App)

Utilize the smart port adapter and a compatible mobile app to control your unit remotely via your smartphone. This

allows you to turn the unit on/off, set temperature (C°/F°), switch modes, adjust fan speed, and manage timers or schedules.



Figure 5: Smart app interface for remote control.

### 5.3 Operating Modes

- **Cooling:** Provides powerful cooling for large spaces.
- **Heating:** Functions as a heat pump, effective in ambient temperatures down to -4°F.
- **Fan:** Circulates air without heating or cooling.
- **Sleep Mode:** Adjusts temperature for comfortable sleep and energy saving.
- **Eco Mode:** Optimizes operation for reduced energy consumption.
- **Anti-Mildew Mode:** Helps prevent mildew growth within the unit.

## 6. MAINTENANCE

Regular maintenance ensures the longevity and efficient operation of your mini split system.

### 6.1 Filter Cleaning

The indoor unit features easily accessible filters. Regularly clean these filters to maintain optimal airflow and air

quality. Refer to the full manual for specific cleaning instructions and frequency.

## 6.2 General Cleaning

Wipe down the exterior of both indoor and outdoor units with a soft, damp cloth. Ensure the outdoor unit's coils are free from debris to prevent reduced efficiency.

## 7. TROUBLESHOOTING

If you experience issues with your BRAVO Mini Split system, consult the full product manual for a comprehensive troubleshooting guide and error code explanations. Common issues may include:

- Unit not turning on (check power supply, circuit breaker, remote batteries).
- Insufficient cooling/heating (check temperature settings, clean filters, ensure no obstructions to airflow).
- Unusual noises (check for loose parts, debris in outdoor unit).

For complex issues or error codes displayed on the unit, contact qualified technical support.

## 8. SPECIFICATIONS

Detailed technical specifications for the BRAVO 36,000 BTU Mini Split Air Conditioner and Heat Pump:

Indoor Model			BRV-R12W-115VI	BRV-R12W-230VI	BRV-R18W-230VI	BRV-R24W-230VI	BRV-R36W-230VI
Outdoor Model			BRV-R12LS-115VO	BRV-R12LS-230VO	BRV-R18LS-230VO	BRV-R24LS-230VO	BRV-R36LS-230VO
Power Supply	V-Ph-Hz		115V-1Ph-60	115V-1Ph-60	208/230V-1Ph-60	208/230V-1Ph-60	208/230V-1Ph-60
Cooling	Capacity	Btu/h	12000	12000	17000	24000	35000
	EER2	Btu/h	10.25	9	9.5	3	9.7
	SEER2	Btu/h	17.0	16.0	18.0	18.0	17.0
Heating	Rated Capacity	Btu/h	12000	12000	17000	24000	34500
	HSPF2-4	Btu/h	9.0	9.0	10.5	8.64	8.5
	COP2	WW	3.5	3.2	3.5	3.5	3.2
Minimum Circuit Ampacity	A		17	11	13	13	23
Max Fuse	A		25	15	20	20	35
Indoor Air Flow	CFM		276/265/241/224/206	294/264/235/206/159	588	588	882/741/564/458/411
Indoor Noise Level (Hi/Mi/Lo)	dB(A)		42.9/40/36.1/33/29	45/42/39/35/33	49/45/43/40/37/34/32	47/45/39	55/52/46/41/39
Indoor Unit	Dimensions (WxDxH)	in	30.59x9.84x7.91	30.59x9.84x7.91	35.82x11.57x8.11	39.76x12.40x8.66	46.88x14.17x10.15
	Packing (WxDxH)	in	33.07x12.4x10.23	33.07x12.40x10.23	38.54x14.64x10.90	43.15x15.35x11.81	49.60x16.92x12.91
	Net Weight	lbs	22.05	22.05	26.46	28.66	46.30
Outdoor Air Flow	CFM		1213	1213	1704	1645	1645
Outdoor Side Noise Level	dB(A)		53	55	57	55	63
Outdoor Unit	Dimensions (WxDxH)	in	30.59x11.42x19.61	30.59x11.41x19.61	31.88x12.00x21.61	30.70x13.74x23.81	38.50x16.57x31.61
	Packing (WxDxH)	in	32.20x12.80x20.27	32.20x12.80x21.18	33.54x14.09x24.02	35.43x15.94x25.79	40.23x18.89x32.87
	Net Weight	lbs	52.9	58.4	62.8	72.8	120.2
Refrigerant Type	oz		R32	R32	R32	R32	R32
Refrigerant Precharge	ft		25	25	25	25	25
Design Pressure	PSIG		652.5	652.5	652.5	652.5	652.5
Refrigerant Piping	Liquid Side / Gas Side	in	1/4" / 3/8"	7/16" / 5/8"	7/16" / 5/8"	1/4" / 1/2"	1/4" / 5/8"
	Max Refrigerant Pipe Length	ft	50	50	50	65	65
Connection Wiring	Size x Core Number		4x16AWG	4x16AWG	4x16AWG	4x16AWG	4x16AWG
Ambient Temperature	Indoor (Cooling/Heating)	*F	>=62/<=86	>=62/<=86	>=62/<=86	>=62/<=86	>=62/<=86
	Outdoor (Cooling/Heating)	*F	5~122/4~86	5~122/4~86	5~122/4~86	5~122/4~86	5~122/4~86

Figure 6: Detailed specifications for various BRAVO Mini Split models.

Specification	Value
Brand Name	BRAVO
Model Info	BRV-R36W-230VI/ BRV-R36LS-230VO
Product Dimensions	14.17 x 46.88 x 10.15 inches
Efficiency	17 SEER

Specification	Value
Capacity	3 Tons (36,000 BTU)
Noise Level	39 Decibels
Installation Type	Split System
Form Factor	Mini-Split
Special Features	WiFi Enabled
Color	White
Voltage	230 Volts (AC)

## 9. WARRANTY AND SUPPORT

Your BRAVO Mini Split system comes with a **3-year warranty on the compressor** and **3-year warranty on parts**. Please ensure professional installation by a licensed HVAC technician to validate your warranty. For technical support, refer to the contact information provided in your product documentation or visit the BRAVO website.



The image features the Bravo ROMA logo at the top, with the tagline "MORE THAN A COMPLIMENT" and a stylized checkmark above the word "Bravo". Below the logo is a white, rectangular mini-split air conditioner unit with a digital display showing "73°".

compressor **3** YEARS WARRANTY

parts **3** YEARS WARRANTY

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TECHNICAL SUPPORT

Figure 7: Warranty details and technical support information.

