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› Bestronair 12000 BTU Mini Split AC/Heating System (Model BGKT-12000-115V) Instruction Manual

Bestronair BGKT-12000-115V

Bestronair 12000 BTU Mini Split AC/Heating System

MODEL: BGKT-12000-115V

Brand: Bestronair

Introduction

This manual provides comprehensive instructions for the installation, operation, and maintenance of your Bestronair 12000 BTU Mini Split AC/Heating System. This 4-in-1 unit offers cooling, heating, dehumidification, and fan modes, designed for energy-efficient climate control in spaces up to 750 sq. ft.



Image: The complete Bestronair 12000 BTU Mini Split AC/Heating System, showing the indoor unit, outdoor unit, remote control, and various installation accessories.

Safety Information

WARNING: Risk of Fire. Flammable Refrigerant Used.

- To be repaired only by trained service personnel.
- Do not puncture refrigerant tubing.
- Dispose of properly in accordance with federal or local regulations.
- Flammable refrigerant used.
- Do not install or repair the air conditioner by yourself as wrong installation or maintenance may cause electric shock or fire. Please contact a professional technician to save your time and money.

Package Contents

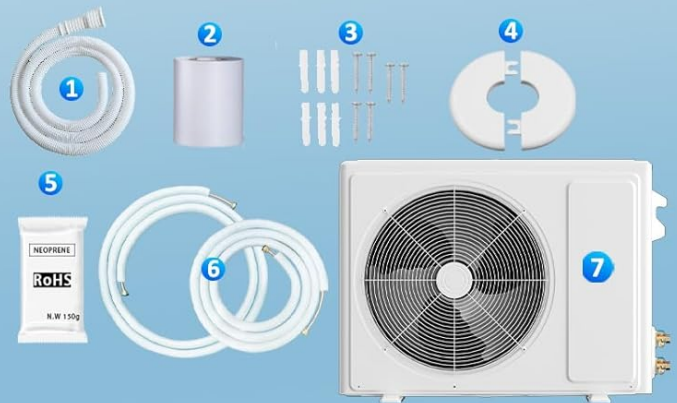
Your Bestronair Mini Split System is shipped in two packages, which may arrive at different times. Please verify all components upon receipt.

Package List

Comes in 2 boxes & delivery time may be different per box

BOX1

- 1 Drainpipe
- 2 Tap
- 3 Screw Assemblies
- 4 Wall Cap
- 5 Plasticine Putty
- 6 2 Copper Line Set
- 7 Outdoor Unit



BOX2

- 8 Remote Control
- 9 Manual
- 10 Mounting Plate
- 11 Bracket Template
- 12 2 Signal Cable
- 13 Indoor Unit

Image: A visual representation of the items included in the two packages, detailing the indoor unit, outdoor unit, remote control, and various installation accessories like pipes, cables, and mounting hardware.

Box 1:

- Outdoor Unit
- Drainpipe
- Tap
- Screw Assemblies
- Wall Cap
- Plasticine Putty
- Copper Line Set (2 lines)

Box 2:

- Indoor Unit
- Remote Control

- Owner's Manual
- Mounting Plate
- Bracket Template
- Signal Cable (2 lines)

Setup and Installation

Proper installation is crucial for optimal performance and safety. Refer to the detailed instructions and diagrams provided in the owner's manual for specific steps. The following provides a general overview.

1. Indoor Unit Installation

- Ensure the wall for the indoor unit is hard and firm to prevent vibration.
- Reserve adequate space: 15cm above to the ceiling, 20cm above to side walls, and 230-260cm from the floor.
- Use the provided template to mark drilling points for the mounting plate.
- Drill holes and securely fasten the mounting plate to the wall.
- Make a wall hole (Ø60mm-Ø80mm) for piping, slanting it 5°-10° downward to the outside. Avoid pre-buried power wires.
- Connect the power cable and communication cable to the indoor unit's terminal board.
- Connect the refrigerant pipes and drain hose to the indoor unit. Ensure connections are tight and properly insulated.
- Pass the refrigerant piping out of the wall hole.
- Hang the indoor unit on the mounting plate, ensuring hooks are properly positioned.
- Seal the wall hole with putty and install the pipe protecting ring.

Your browser does not support the video tag.

Video: Detailed steps for installing the indoor unit of a mini split AC system, including mounting, wiring, and pipe connections.

2. Outdoor Unit Installation

- The outdoor unit should fulfill specific clearance requirements: 50cm above to obstruction, 10cm above to air in side, 50cm above to side obstruction, 30cm above to side obstruction, 200cm above to air out side.
- Use at least 6 expansion bolts to fix the mounting brackets firmly on the wall.
- Place the outdoor unit onto the brackets and secure it with 4 screws.
- Connect the refrigerant pipes to the outdoor unit's stop valves. Aim at the pipe center, tighten the taper nut with fingers, then tighten with 2 wrenches.
- Connect the power cable and communication cable to the outdoor unit's terminal board according to the wiring diagram. Secure cables with fasteners.
- Remove the cover of the stop valve. Fully open the handle Lo of the manifold valve and apply vacuum for at least 15 minutes. Check that the compound vacuum gauge reads -0.1MPa (-76cmHg).
- After applying vacuum, fully open the stop valve with a hex wrench.
- Screw all the caps and tighten them up.

Your browser does not support the video tag.

Video: Detailed steps for installing the outdoor unit of a mini split AC system, including mounting, pipe connections, and electrical wiring.

Important Note: When the length of the connecting pipe is changed, extra amount of refrigerant may need to be added or reduced to ensure optimal operation. Refer to the table below for guidance:

Length of connection pipe	Added or reduced refrigerant	Amount of refrigerant for the unit
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Length of connection pipe	Added or reduced refrigerant	Amount of refrigerant for the unit
<3M	CC≤12000Btu: reduce 20g/m CC≥18000Btu: reduce 40g/m	≤1Kg ≤2Kg
3-5M	Not needed	-
5-15M	CC≤12000Btu: add 16g/m CC≥18000Btu: add 24g/m	≤1Kg ≤2Kg

Operating Instructions

Your Bestronair Mini Split System offers multiple modes and features for customized comfort. Use the included remote control to manage settings.



Image: The remote control for the Bestronair Mini Split AC/Heating System, highlighting various buttons for mode selection, fan speed, swing, timer, mute, turbo, sleep, and display.

Remote Control Functions:

- **MODE:** Cycle through operating modes (Cool, Heat, Dry, Fan).
- **FAN:** Adjust fan speed (Low, Medium, High, Auto).
- **SWING:** Control the vertical airflow direction.
- **TURBO:** Activates rapid cooling or heating.
- **MUTE:** Reduces operational noise for quiet environments.
- **ECO:** Engages energy-saving mode.
- **TIMER:** Set a 0.5 to 24-hour timer for automatic on/off.
- **SLEEP:** Optimizes temperature and fan speed for comfortable sleep, with ultra-quiet operation (25dB).
- **DISPLAY:** Turns off the unit's display screen to avoid light interference.

The unit combines stylish design with powerful performance, covering up to 750 square feet. It uses advanced inverter technology for quiet operation and energy efficiency.

Ultra - Quiet Operation
Enjoy a comfortable night's sleep

- 🕒 24H Timer
- 🌙 Sleep Mode
- 💡 Screen Off

50dB
38dB
20dB

The advertisement features a background illustration of a couple sleeping peacefully in a bed. A white indoor air conditioning unit is mounted on the wall above the bed, with blue light rays emanating from its vents. A white line graph is overlaid at the bottom, showing noise levels at different points: 50dB near the unit, 38dB in the middle of the bed, and 20dB near the couple's heads. The overall scene is dimly lit with a blue and yellow color palette.

Image: Illustration showing the ultra-quiet operation of the indoor unit, with noise levels as low as 20dB in sleep mode, ensuring minimal disturbance.

Maintenance

Regular maintenance ensures the longevity and efficiency of your unit.

- **Auto-Clean System:** The built-in auto-clean cycle reduces moisture and prevents buildup inside the unit, maintaining clean, fresh airflow.
- **Filter Cleaning:** The removable, washable filter should be cleaned regularly. Refer to the owner's manual for specific cleaning instructions and frequency.

Troubleshooting

If you encounter issues, refer to the following common problems and solutions. For complex issues, contact qualified service personnel.

Problem	Possible Cause	Solution
Unit does not turn on	No power, circuit breaker tripped, remote control batteries low.	Check power supply, reset breaker, replace remote batteries.
Insufficient cooling/heating	Dirty air filter, blocked outdoor unit, incorrect mode setting, low refrigerant.	Clean filter, clear obstructions, select correct mode, contact technician for refrigerant check.
Unusual noise	Loose parts, fan obstruction, unit not level.	Check for loose parts, clear obstructions, ensure unit is level.
Water leakage (indoor unit)	Clogged drain hose, improper pipe insulation.	Clear drain hose, check pipe insulation.
Electricity leakage	Faulty wiring, damaged insulation.	Immediately turn off power and contact a professional technician.

Specifications

- **Model Info:** BGKT-12000-115V
- **Cooling Power:** 12000 British Thermal Units
- **Heating Capacity:** 12300 British Thermal Units
- **SEER2 Rating:** 19
- **Voltage:** 115 Volts
- **Wattage:** 1100 watts
- **Noise Level:** 42 Decibels (25dB in sleep mode)
- **Coverage Area:** Up to 750 Sq. Ft.
- **Product Dimensions:** 8.2"D x 32.3"W x 11.8"H
- **Item Weight:** 55 pounds
- **Material Type:** ABS, glass fiber
- **Installation Type:** Wall Mount
- **Special Features:** 4 Way Swing, Fast Cooling and Heating, Inverter Compressor, Remote Controlled, Turbo Mode

Warranty and Support

Please refer to the warranty card included in your package for detailed warranty information and terms. For technical support or service inquiries, please contact Bestronair customer service.

