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> WANAI 12000 BTU 115V Mini Split Air Conditioner & Heat Pump System User Manual

## WANAI NB-2025SPLIT AC

# WANAI 12000 BTU 115V Mini Split Air Conditioner & Heat Pump System

**Model:** NB-2025SPLIT AC

**Brand:** WANAI

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## 1. INTRODUCTION

Thank you for choosing the WANAI 12000 BTU 115V Mini Split Air Conditioner & Heat Pump System. This system is designed to provide efficient and versatile climate control for your home or office, offering both powerful cooling and heating capabilities. With its advanced inverter technology and quiet operation, it ensures optimal comfort and energy savings.



# INVERTER HEAT & COOL MINI SPLIT AC

More comfortable, efficient and smart



**12000BTU  
COOL  
CAPACITY**



**12000BTU  
HEAT  
CAPACITY**



**750 SQ.FT  
COVERAGE  
AREA**



**R32  
REFRIGERANT**



Image: Diagram illustrating the key features of the inverter mini split AC, including 12000 BTU cool and heat capacity, 750 sq.ft coverage area, and R32 refrigerant.



Image: Visual representation of various suitable application areas for the mini split system, including kitchen, bedroom, dormitory, and basement.

## 2. IMPORTANT SAFETY INFORMATION

Please read all safety warnings and instructions carefully before installing, operating, or performing maintenance on this appliance. Failure to follow these instructions may result in electric shock, fire, property damage, or personal injury.

### General Safety Precautions:

- **Professional Installation Required:** For safety and peak performance, professional installation is necessary. Do not attempt to install the unit yourself unless you are a qualified HVAC technician.
- **Power Supply:** Ensure the power supply matches the specifications of the unit (115V). Always disconnect power before servicing.
- **Refrigerant:** This unit uses R32 refrigerant. Handling of refrigerant should only be performed by certified personnel.
- **Ventilation:** Ensure proper ventilation around the outdoor unit to prevent overheating.

- **Clearance:** Maintain adequate clearance around both indoor and outdoor units as specified in the installation manual.
- **Children and Pets:** Keep children and pets away from the unit during operation and maintenance.
- **Damage:** Do not operate the unit if it is damaged or malfunctioning. Contact qualified service personnel.

### 3. WHAT'S IN THE BOX

Your WANAI Mini Split Air Conditioner & Heat Pump System is shipped in two separate packages, which may not arrive at the same time. Please verify all components are present before beginning installation.

## SHIPPED IN TWO SEPARATE PACKAGES, WHICH MAY NOT ARRIVE AT THE SAME TIME





**31.5"x7.48"x11.42"**  
Indoor unit



Hanging  
board



Wall  
sheathing



Instruction  
manual



Remote  
control





**27.95"x10.24"x21.8"**  
Outdoor Unit



Drain Pipe



Communication Wire



Connection Pipe\*2



Wall Sleeve



Putty



Tape



Screw\*6

Image: A visual breakdown of the components included in the two shipping packages. Package 1 contains the indoor unit, hanging board, instruction manual, remote control, and wall sheathing. Package 2 contains the outdoor unit, drain pipe, communication wire, connection pipes, wall sleeve, putty, tape, and screws.

#### Package Contents:

Component	Description
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Component	Description
Indoor Unit	The indoor air handler.
Outdoor Unit	The outdoor condenser unit.
Remote Control	For convenient operation of the unit.
Installation Kit	Includes copper line set, drain hose, communication wire, wall sleeve, putty, tape, and mounting hardware (screws).
Instruction Manual	This document and detailed installation guide.

## 4. SETUP AND INSTALLATION

**IMPORTANT:** Professional installation is required for this mini split AC/heating system to ensure safety, proper function, and to maintain warranty validity. Please allow the unit to stand upright for 24 hours before setup.

### Pre-Installation Considerations:

- **Location:** Choose appropriate locations for both indoor and outdoor units, ensuring adequate space for airflow and maintenance.
- **Electrical Requirements:** Verify that your electrical system can support the unit's power requirements (115V).
- **Drainage:** Plan for proper condensate drainage from the indoor unit.
- **Line Set Length:** Ensure the provided line set length is sufficient for your installation.



Image: Diagram showing the dimensions of the indoor unit (31.5"W x 7.48"D x 11.42"H) and the outdoor unit (27.95"W x 10.24"D x 21.81"H), crucial for planning installation space.

### Choosing the Right Model:

The 12000 BTU model is suitable for areas up to 750 sq.ft. Refer to the table below for general guidance on BTU requirements based on square footage. For hot/low latitudes, a 25% BTU increase is recommended.



Image: A guide illustrating recommended BTU capacities for different square footage areas, from 9K BTU for 350-450 sq ft to 24K BTU for 1250-1500 sq ft.

BTU	Approximate Coverage (Sq Ft)
9,000	350 - 450
12,000	500 - 750
18,000	1000 - 1250
24,000	1250 - 1500

## 5. OPERATING MODES

Your WANAI Mini Split System offers five versatile operating modes to ensure year-round comfort.

# 4-IN-1 ALL-SEASON INTEGRATED SPLIT AIR CONDITIONER



FAN



DRY



COOL



HEAT



Image: Illustration of the 4-in-1 functionality (Fan, Dry, Cool, Heat) of the split air conditioner, demonstrating its ability to cool even at 122°F and heat even at -4°F.

## Available Modes:

- **Cooling Mode:** Reduces room temperature to your desired setting. Ideal for hot weather.
- **Heating Mode:** Increases room temperature. Suitable for cold climates.
- **Auto Mode:** Automatically selects cooling or heating based on the ambient temperature and your set temperature.
- **Fan Mode:** Circulates air without cooling or heating. You can select from four fan speeds: High, Medium, Low, or Auto.
- **Dry Mode (Dehumidify):** Reduces humidity in the room without significant temperature change. The unit can remove up to 36 pints of moisture per day.



Image: Depiction of the unit's dehumidification function, highlighting its ability to remove 36 pints of moisture per day, keeping the environment dry.

## 6. CONTROLS AND SETTINGS

The system can be controlled using the included remote control or via app connectivity for remote adjustments.

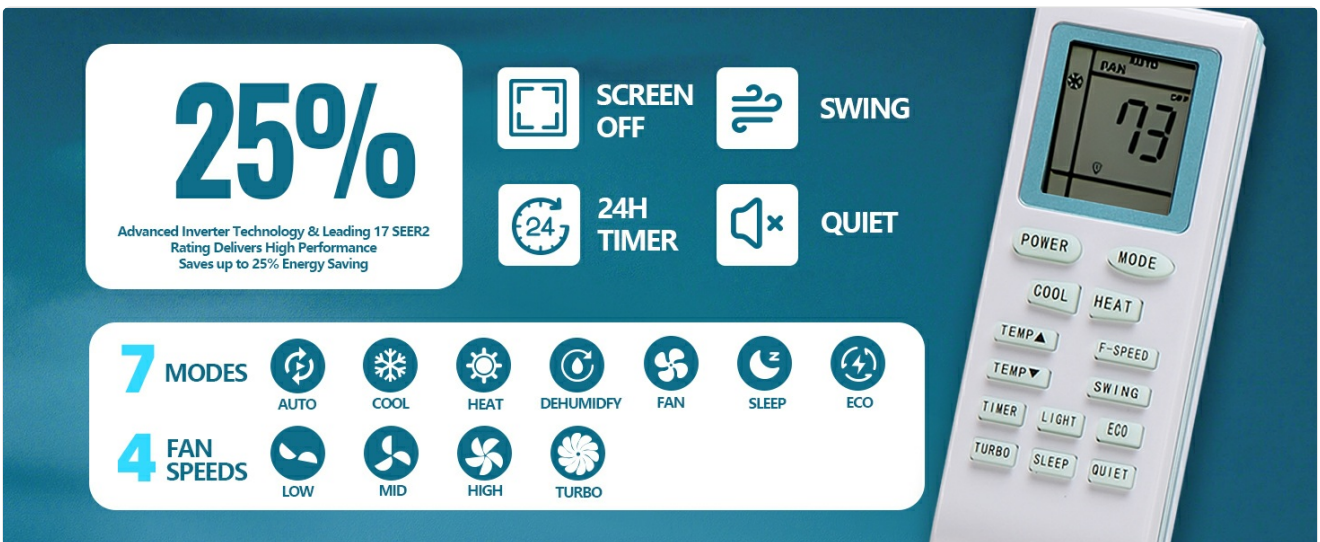


Image: An image of the remote control, detailing its various functions including 7 modes (Auto, Cool, Heat, Dehumidify, Fan, Sleep, Eco) and 4 fan speeds (Low, Mid, High, Turbo), along with features like 24H timer and Quiet mode.

### Remote Control Functions:

- **Power:** Turns the unit on or off.
- **Mode:** Cycles through Cooling, Heating, Auto, Fan, and Dry modes.
- **Temperature Adjustment:** Use the up/down arrows to set the desired temperature (61°F to 86°F).
- **Fan Speed:** Select High, Medium, Low, or Auto fan speed.
- **Timer:** Set a 24-hour timer for automatic on/off operation.
- **Sleep Mode:** Adjusts temperature and fan speed for optimal sleep comfort and energy efficiency.
- **Swing:** Controls the louver swing for optimal airflow distribution.
- **Quiet Mode:** Activates ultra-quiet operation (as low as 26dB).

# ULTRA-QUIET OPERATION

Enjoy a comfortable home life



Image: A graphic illustrating the ultra-quiet operation of the unit at 26dB, comparing it to other common sound levels like breathing (10dB), quiet library (45dB), and talking voice (55dB).

## 7. MAINTENANCE

Regular maintenance ensures the longevity and efficient operation of your WANAI Mini Split System.

### Cleaning the Air Filter:

The air filter should be cleaned every two weeks or more frequently depending on usage and air quality. A dirty filter can reduce efficiency and airflow.

1. Turn off the unit and disconnect power.
2. Open the front panel of the indoor unit.
3. Remove the air filters.
4. Clean the filters with a vacuum cleaner or wash them with lukewarm water and mild detergent.
5. Rinse thoroughly and allow to air dry completely before reinserting.
6. Close the front panel.

## Outdoor Unit Maintenance:

- Keep the area around the outdoor unit clear of debris, leaves, and snow.
- Periodically check the condenser coils for dirt and clean them gently with a soft brush or water hose.
- Ensure the drain hose is not clogged and allows for proper water drainage.

## Professional Servicing:

It is recommended to have a qualified HVAC technician inspect and service your unit annually to ensure optimal performance and address any potential issues.

## 8. TROUBLESHOOTING

Before contacting customer support, please refer to the following common issues and their solutions.

Problem	Possible Cause	Solution
Unit does not turn on	No power supply; Remote control batteries dead; Circuit breaker tripped.	Check power connection; Replace remote batteries; Reset circuit breaker.
Insufficient cooling/heating	Dirty air filter; Blocked outdoor unit; Incorrect mode selected; Room size too large.	Clean air filter; Clear obstructions from outdoor unit; Select appropriate mode; Verify unit BTU matches room size.
Unusual noise	Loose parts; Obstruction in fan; Unit not level.	Contact professional technician for inspection.
Water leakage from indoor unit	Clogged drain hose; Improper installation.	Clear drain hose; Contact professional installer to check installation.
Remote control not working	Batteries dead or inserted incorrectly; Obstruction between remote and unit.	Replace batteries; Ensure clear line of sight to indoor unit.

## 9. SPECIFICATIONS

Feature	Specification
Model Number	NB-2025SPLIT AC
Cooling/Heating Capacity	12000 BTU
Power Supply	115 Volts
Coverage Area	Up to 750 sq.ft
SEER2 Rating	17
Refrigerant Type	R32
Operating Temperature Range	Cooling: Up to 122°F; Heating: Down to -4°F
Indoor Unit Dimensions (D x W x H)	7.48" x 31.5" x 11.42"
Outdoor Unit Dimensions (D x W x H)	10.24" x 27.95" x 21.81"

Feature	Specification
Noise Level (Indoor)	As low as 26dB
Control Method	Remote Control, App Connectivity

## HIGHLY EFFICIENT COOLING & HEATING

**Saving Over 25%**

✓ High Energy Efficiency ✓ Lower Energy Cost



Image: A bar chart comparing the energy efficiency of different AC systems, highlighting the WANAI unit's 17 SEER2 rating with R32 refrigerant, showing over 25% energy savings compared to lower SEER models.

## 10. WARRANTY AND SUPPORT

WANAI provides a limited warranty for this product. Please refer to the warranty card included with your purchase for specific terms and conditions, including coverage duration and what is covered.

### Customer Support:

If you encounter any issues not covered in the troubleshooting section or require professional assistance, please contact WANAI customer support. Have your model number and purchase date ready when contacting support. For the most up-to-date contact information, please visit the official WANAI website or refer to your product

packaging.

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