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› YITAHOME 12000 BTU Mini Split Air Conditioner Heat Pump System User Manual

YITAHOME

YITAHOME 12000 BTU Mini Split Air Conditioner Heat Pump System User Manual

Model: MAYIH4YPPG

1. INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of your YITAHOME 12000 BTU Mini Split Air Conditioner Heat Pump System. Please read it thoroughly before installation and use to ensure proper function and safety. This system is designed for efficient cooling and heating of spaces up to 750 square feet.



Figure 1: Overview of the YITAHOME Mini Split System, including indoor unit, outdoor unit, remote control, and installation accessories.

2. SAFETY INFORMATION

Always prioritize safety during installation, operation, and maintenance. Failure to follow these instructions may result in property damage, personal injury, or death.

- **Professional Installation Required:** This system requires professional installation. Do not attempt to install it yourself unless you are a certified HVAC technician. Improper installation can lead to refrigerant leaks, electrical hazards, and inefficient operation.
- **Electrical Safety:** Ensure the power supply matches the unit's requirements (115V). All electrical wiring must comply with local and national electrical codes. Turn off power at the circuit breaker before any electrical work.
- **Refrigerant Handling:** This unit contains R32 refrigerant. R32 is a flammable refrigerant. Only qualified personnel should handle refrigerant. Avoid direct contact with refrigerant.
- **Location:** Install the unit in a well-ventilated area, away from heat sources, flammable materials, or corrosive gases. Ensure adequate clearance around both indoor and outdoor units for proper airflow.

- **Children and Pets:** Keep children and pets away from the unit, especially during operation and maintenance.

3. SETUP AND INSTALLATION

Professional installation is highly recommended for this mini split system. The following steps provide a general overview of the installation process.

3.1. Components Overview

Your YITAHOME Mini Split system includes the following main components:

- Indoor Unit
- Outdoor Unit
- Multifunctional Remote Control
- Comprehensive Installation Kit (includes copper connection pipes, power line, communication wire, drain hose, putty, tape)



Figure 2: Main components and accessories included in the installation kit.

3.2. Installation Steps (Overview)

For a detailed visual guide on installation, please refer to the official installation video below. This video covers preparation, indoor unit installation, outdoor unit installation, and trial operation.

Your browser does not support the video tag.

Video 1: YITAHOME Mini Split Air Conditioner Heat Pump System Installation Guide. This video provides step-by-step instructions for setting up your unit, including mounting, wiring, and pipe connections.

1. **Mounting Plate Installation:** Securely fix the indoor unit mounting plate to a hard, flat, and firm wall using expansion screw kits. Ensure it is horizontal using a level.
2. **Drill Wall Hole:** Drill a hole through the wall for the refrigerant pipes and electrical cables. Ensure the hole is inclined slightly downward (5-10 degrees) to allow for proper drainage and avoid wires or plumbing.
3. **Electrical Connection (Indoor Unit):** Pass the power cable from the back of the indoor unit and fix it to the terminal board. Use a clamp to secure the cables.
4. **Refrigerant Piping Connection (Indoor Unit):** Connect the copper refrigerant pipes to the indoor unit. Tighten the taper nuts with fingers first, then use two wrenches, applying the specified torque (refer to the torque table in the video/manual).
5. **Drain Hose Installation:** Connect the drain hose to the water outlet pipe, ensuring it is firmly fixed and sloped downwards to prevent water accumulation.
6. **Wrap Piping:** Wrap the refrigerant piping, wires, and drain pipe together with wrapping tape for protection and neatness.
7. **Mount Indoor Unit:** Carefully put the indoor unit onto the mounting plate, ensuring it clicks firmly into place.
8. **Outdoor Unit Bracket Installation:** Install the outdoor unit bracket on a firm and flat place on an exterior wall. Use at least 6 expansion bolts to ensure it is fixed firmly.
9. **Mount Outdoor Unit:** Place the outdoor unit onto the brackets and fix its feet with 4 screws.
10. **Electrical Connection (Outdoor Unit):** Remove the electrical box cover and fix cables to the terminal board according to the wiring diagram provided inside the box cover. Use clamps to fix cables.
11. **Refrigerant Piping Connection (Outdoor Unit):** Connect the refrigerant pipes to the outdoor unit's stop valves. Tighten the taper nuts with fingers, then use two wrenches with the specified torque.
12. **Vacuumize:** Before opening the refrigerant valves, vacuumize the system for at least 15 minutes to remove air and moisture. Ensure the pressure gauge value is ≤ 0.1 MPa. After vacuumizing, maintain pressure for 3-5 minutes to check for leaks.
13. **Open Valves:** Open all liquid and gas valves on the outdoor unit to release the refrigerant into the system.

4. OPERATING INSTRUCTIONS

Your YITAHOME Mini Split system offers multiple operating modes and smart features for optimal comfort.

4.1. Remote Control Functions

The multifunctional remote control allows you to adjust temperature, mode, fan speed, and other settings. The temperature can be set between 60°F and 90°F.



Figure 3: Remote control and key features, including Turbo, ECO, Sleep, Health, Swing, Anti-F, and Timer modes.

4.2. Operating Modes

- **Auto Mode:** The unit automatically selects the appropriate mode (Cool, Heat, or Fan) based on the ambient temperature.
- **Cool Mode:** Provides cooling to lower the room temperature.
- **Dry Mode:** Dehumidifies the air, reducing humidity levels.
- **Heat Mode:** Provides heating to raise the room temperature.
- **Fan Mode:** Circulates air without cooling or heating. Fan speed can be adjusted (Low, Mid, High).

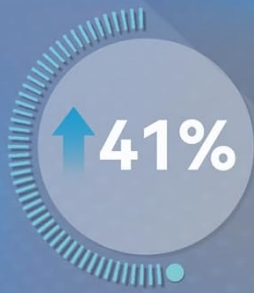


Figure 4: Visual representation of the four main operating modes: Cool, Dry, Fan, and Heat.

4.3. Smart Features

- **WiFi Enabled:** Connect your unit to your home Wi-Fi network for remote control via a smartphone app.
- **Alexa Compatible:** Integrate with Amazon Alexa for voice commands to control your unit.
- **iFEEL Mode:** The remote control has a built-in temperature sensor that sends the room temperature to the indoor unit, allowing the unit to adjust its operation for optimal comfort around the remote.
- **Sleep Mode:** Adjusts temperature and fan speed for comfortable sleep while saving energy.
- **HEALTH Mode:** Features negative ions, electrostatic dust removal, and PM2.5 removal for improved air quality.

INVERTER COMPRESSOR

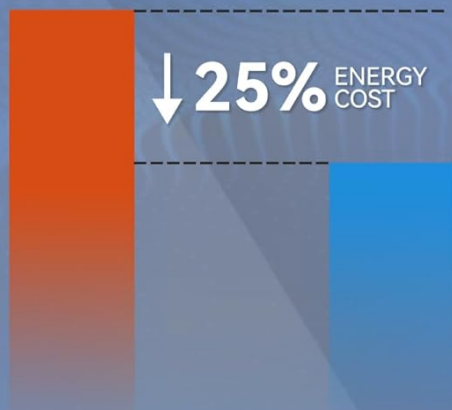


COOLING



HEATING

OTHERS VS OURS



1Hz ultra-low frequency, accurate control to 0.1Hz, over 25% energy savings

LIMITED WARRANTY



5

Years Parts

7

Years Compressor

Figure 5: The unit's smart features, including Wi-Fi connectivity and compatibility with smart home systems.

4.4. Quiet Operation and Airflow

The unit operates quietly, with noise levels below 41 decibels, ensuring a tranquil environment. It features 4D air circulation, reaching a maximum airflow distance of 50 feet for even temperature distribution.

ULTRA-QUIET OPERATION



Screen Off



Sleep Mode



Timing 0.5-24 H



Low Noise \leq 41 dB

Figure 6: Illustration of the 4D airflow distribution, ensuring wide coverage and efficient temperature control.

5. MAINTENANCE

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

- **Air Filter Cleaning:** The air filter is washable and easy to clean. Regularly remove and clean the filter to maintain air quality and unit efficiency.
- **Self-Diagnosis/Cleaning:** The unit features automatic self-diagnosis and cleaning functions. Refer to the remote control or app for initiating these cycles.
- **Professional Check-ups:** It is recommended to have a professional HVAC technician perform annual check-ups and deeper cleaning to ensure the system is running efficiently and safely.

6. TROUBLESHOOTING

If you encounter issues with your unit, refer to the following common troubleshooting tips. For complex problems, contact a qualified technician.

- **Unit Not Turning On:** Check the power supply and circuit breaker. Ensure the remote control batteries are not depleted.
- **Insufficient Cooling/Heating:** Check if the air filter is clean. Ensure no obstructions are blocking the indoor or outdoor unit's airflow. Verify the temperature setting is appropriate for the desired comfort level.
- **Remote Control Displaying Celsius Only:** While the remote may default to Celsius, the smartphone app allows control in Fahrenheit. Ensure your app is correctly configured.
- **Water Leakage:** Check the drain hose for kinks or blockages. Ensure the drain hose is properly sloped downwards.
- **Unusual Noises:** Minor noises during operation are normal. If you hear loud or unusual noises, turn off the unit and contact a technician.
- **Electricity Leakage:** If there is any indication of electricity leakage, immediately turn off the power at the circuit breaker and contact a qualified electrician or technician.

7. SPECIFICATIONS

Feature	Specification
Brand	YITAHOME
Cooling Power	12000 British Thermal Units
Heating Capacity	12000 BTU (Heat Pump)
Coverage Area	Up to 750 Square Feet
Voltage	115 Volts
Seasonal Energy Efficiency Ratio (SEER2)	20
Noise Level	41 dB
Product Dimensions (Indoor Unit)	7.9"D x 31.2"W x 11.5"H
Item Weight	19.84 pounds
Special Features	Inverter Compressor, Remote Controlled, WiFi Enabled, Air Purification Filter, Auto Clean
Included Components	Outdoor unit, indoor unit and mounting accessories

750 SQ FT COVERAGE

COOLING CAPACITY
12000 BTU

HEATING CAPACITY
12000 BTU

HEAT PUMP
1 TON



Figure 7: Key performance specifications including coverage area and BTU ratings.

8. WARRANTY

The YITAHOME 12000 BTU Mini Split Air Conditioner Heat Pump System comes with a **5-year parts warranty** and a **7-year compressor warranty**. Please retain your proof of purchase for warranty claims.

9. SUPPORT

For further assistance, technical support, or warranty claims, please contact YITAHOME customer service through their official website or the contact information provided with your product packaging. You can also visit the YITAHOME Store on Amazon for more information and resources.