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› [YITAHOME](#) /

› [YITAHOME 12000 BTU Mini Split Air Conditioner Heat Pump System User Manual](#)

YITAHOME MAYIHmZGYP

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

Model: MAYIHmZGYP

1. PRODUCT OVERVIEW

The YITAHOME 12000 BTU Mini Split Air Conditioner Heat Pump System is a versatile and energy-efficient solution for climate control in spaces up to 750 square feet. This system provides both cooling and heating capabilities, along with dehumidification and fan-only modes. It features innovative inverter technology for optimal performance and energy savings, and is equipped with smart functionalities including WiFi connectivity and compatibility with Alexa.



Image 1.1: Overview of the YITAHOME Mini Split Air Conditioner Heat Pump System, showing the indoor unit, outdoor unit, remote control, and installation accessories.

- **Energy Efficient:** Equipped with a high-power compressor and heat pump, featuring inverter technology for up to 25% energy savings. ETL and AHRI certified.
- **Five Operating Modes:** Auto, Cool, Dry, Heat, and Fan.
- **Smart Control:** WiFi-enabled and Alexa-compatible for convenient remote operation.
- **Quiet Performance:** Operates with noise levels below 41 decibels, ensuring a tranquil environment.
- **All-Weather Response:** Designed to perform in temperatures from 5°F to 118°F.
- **Advanced Features:** Automatic defrosting, self-diagnosis/cleaning, iFEEL mode, 24-hour timer, sleep mode, energy-saving mode, and "HEALTH" mode (negative ions, electrostatic dust removal, PM2.5 removal).

2. SAFETY INFORMATION

Please read all safety warnings and instructions carefully before installation and operation to prevent injury or

damage. Professional installation is required for this system.

- Ensure the power supply matches the unit's requirements (208-230V).
- Do not install the unit near heat sources, steam sources, or in areas with flammable/explosive gases or corrosive gases.
- Maintain proper clearance around indoor and outdoor units for optimal airflow and safety.
- Always turn off power before performing any maintenance or troubleshooting.
- Wear appropriate personal protective equipment (PPE) during installation, especially when working at heights.

3. SETUP AND INSTALLATION

Proper installation is crucial for the performance and longevity of your mini split system. It is highly recommended that installation be performed by a qualified professional.

Video 3.1: Official installation guide for the YITAHOME Mini Split Air Conditioner Heat Pump System. This video provides a step-by-step visual walkthrough of the installation process.

3.1. Pre-Installation Considerations

- **Location Selection:** Choose a hard, flat, and firm wall for the indoor unit to avoid vibration. Ensure adequate clearance from ceiling (min. 15cm) and obstacles (min. 20cm). The outdoor unit must be installed on a firm, flat surface to prevent vibration and noise, with sufficient clearance for airflow.
- **Tools and Materials:** Ensure all necessary tools and materials are available, including a hole saw, multimeter, pipe cutter, hex wrenches, refrigerant (if needed), torque wrench, adjustable wrench, tape measure, pressure gauge, safety belt, flaring tool, brackets, level, Phillips screwdriver, electroprobe, vacuum pump, pliers, and copper tubing.



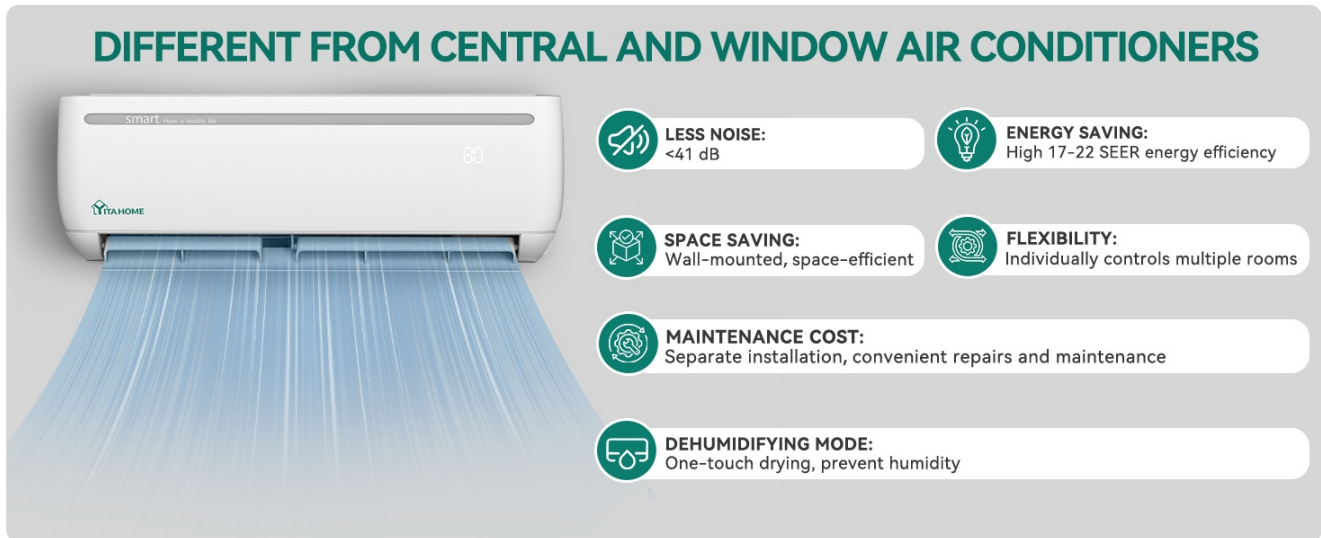
Image 3.1: Diagram illustrating recommended clearances for indoor and outdoor unit placement to ensure optimal performance and safety.

3.2. Indoor Unit Installation

1. **Mounting Plate Installation:** Securely fix the mounting plate to the wall using expansion screw kits. Use a level to ensure it is horizontal.
2. **Drill Wall Hole:** Drill a wall hole for piping, inclined outward by 5-10 degrees, with a diameter of 60-80mm. Avoid wires, plumbing, and gas lines.
3. **Connection Cable Installation:** Pass the power cable from the back of the indoor unit and fix it to the terminal board according to the wiring diagram. Secure cables with a clamp.
4. **Knock-out Panel:** Remove the knock-out panel with a knife according to piping direction, removing burrs to prevent drain pipe damage.
5. **Refrigerant Piping Connection:** Carefully turn the refrigerant pipes in the desired direction using both hands. Connect the taper nuts to the pipe center, tightening with fingers, then with two wrenches. Refer to the torque specifications provided in the manual for proper tightening.
6. **Drain Hose Installation:** Connect the drain hose to the water outlet pipe and fix it firmly with adhesive tape. The length should be more than 5cm. Ensure the drain hose is sloped downwards and never submerged in

water.

7. **Wrap Piping:** Wrap refrigerant piping, wires, and the drain pipe with wrapping tape for insulation and protection.
8. **Mount Indoor Unit:** Put the refrigerant piping out of the wall hole. Place the indoor unit onto the mounting plate, pushing the lower part until a 'click' sound is heard, ensuring it is firmly fixed.
9. **Pipe Protecting Ring and Putty:** Install a pipe protecting ring and seal with putty to protect piping and wires where they pass through the wall.



DIFFERENT FROM CENTRAL AND WINDOW AIR CONDITIONERS

- LESS NOISE:** <41 dB
- ENERGY SAVING:** High 17-22 SEER energy efficiency
- SPACE SAVING:** Wall-mounted, space-efficient
- FLEXIBILITY:** Individually controls multiple rooms
- MAINTENANCE COST:** Separate installation, convenient repairs and maintenance
- DEHUMIDIFYING MODE:** One-touch drying, prevent humidity

Image 3.2: Illustration of the components included in the installation package, such as power line, copper connection pipes, user guide, remote control, and drain hose.

3.3. Outdoor Unit Installation

1. **Install Outdoor Unit Bracket:** Use a level to ensure the bracket is horizontal and vertical. Use at least 6 expansion bolts to fix the brackets firmly on the wall.
2. **Mount Outdoor Unit:** Put the outdoor unit onto the brackets. Use 4 screws to fix the feet of the outdoor unit to the brackets.
3. **Connect Refrigerant Piping:** Remove the nuts from the stop valves. Aim at the pipe center of the stop valve, tighten the taper nut with fingers, then with two wrenches. Refer to the torque specifications provided in the manual. Screw the 2 caps back on.
4. **Electrical Connections:** Remove the electrical box cover. Fix cables to the terminal board according to the wiring diagram on the E-parts cover. Use a clamp to fix the cables. Replace the electrical box cover.

3.4. Vacuumizing

Before vacuuming, ensure all nuts of the indoor and outdoor units are tightened. Connect the stop valve, charging hose, manifold valve, and vacuum pump as shown in the diagram in your full manual.



Image 3.3: The outdoor unit with pre-loaded R32 refrigerant, highlighting its environmental benefits.

- Turn on handle Lo to vacuumize.
- Vacuumize for at least 15 minutes, ensuring the pressure gauge value is $\leq 0.1\text{MPa}$.
- Keep pressure for 3-5 minutes after vacuumizing. Pressure springback should be $\leq 0.05\text{MPa}$.
- Open the 1/4 liquid valve and remove the charging hose.
- Open all the liquid valves and gas valves. Screw all the caps and tighten them up.

4. OPERATING INSTRUCTIONS

Your YITAHOME Mini Split AC can be controlled via the included remote control or through the dedicated mobile application.

Video 4.1: Demonstration of controlling the YITAHOME Mini Split AC with the mobile application.

4.1. Remote Control Functions

- **Power On/Off:** Press the ON/OFF button to start or stop the unit.
- **Mode Selection:** Cycle through Auto, Cool, Dry, Heat, and Fan modes using the MODE button.
- **Temperature Adjustment:** Set desired temperature between 60°F and 90°F using the UP/DOWN arrows.
- **Fan Speed:** Adjust fan speed (Low, Mid, High, Auto) using the FAN SPEED button.
- **Swing Function:** Control the horizontal and vertical airflow direction.
- **Timer:** Set a 24-hour timer for automatic on/off operations.
- **Sleep Mode:** Optimizes temperature and fan speed for comfortable sleep and energy saving.
- **iFEEL Mode:** The remote control acts as a thermostat, sensing the temperature at its location for more precise comfort.



Image 4.1: Visual representation of the five operating modes: Cool, Dry, Fan, and Heat.

4.2. Mobile App Control (AC Freedom)

Download the "AC Freedom" app from your device's app store. Follow the in-app instructions to pair your mini split unit. The app allows for comprehensive control, including mode selection, temperature adjustment, fan direction, timers, and monitoring of power consumption.

5. MAINTENANCE

Regular maintenance ensures efficient operation and extends the lifespan of your unit.

5.1. Air Filter Cleaning

The air filter is washable and easy to clean. Remove the filter from the indoor unit, wash it with water, and allow it to dry completely before reinserting.

5.2. Self-Cleaning Function

The unit features a 5th-Gen Auto-Cleaning function that uses 57°C high-temperature application for fresher air. Refer to your remote control or app for activating this feature.



Image 5.1: Diagram illustrating the 5th-Gen Auto-Cleaning process, including indoor unit condensation, frosting, defrosting, and high-temperature cleaning.

5.3. General Cleaning

- Wipe the indoor and outdoor unit surfaces with a soft, damp cloth.
- Do not use harsh chemicals or abrasive cleaners.

6. TROUBLESHOOTING

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

- **Unit Not Turning On:** Check power supply, circuit breaker, and ensure the remote control batteries are not depleted.
- **Insufficient Cooling/Heating:** Check temperature settings, ensure air filters are clean, and verify no obstructions are blocking airflow. Low refrigerant levels can also cause this; professional inspection is required.
- **Unusual Noises:** Minor noises during operation are normal. Excessive or unusual noises may indicate loose parts or internal issues requiring professional attention.
- **Water Leakage:** Ensure the drain hose is properly installed and sloped to allow water to flow out. Check for blockages in the drain pan or hose.
- **Fluorine Leak Protection:** If a leak is detected, the control system will shut down immediately. This requires professional service.
- **WiFi Connectivity Issues:** Ensure your router is working correctly and the unit is within range. Re-pair the unit with the mobile app if necessary.

7. SPECIFICATIONS

Feature	Specification
Brand	YITAHOME
Model Number	MAYIHmZGYP
Capacity	12000 BTU (1 Ton)
Coverage Area	Up to 750 Sq. Ft.
Voltage	208-230 Volts
SEER2 Rating	17 SEER2
Sound Level	41 dB
Dimensions (Indoor Unit)	7.9"D x 31.2"W x 11.5"H
Weight (Item)	21.1 pounds
Material	Iron, Aluminum, Plastic
Special Features	Inverter Compressor, WiFi Enabled, Sleep Mode, Air Purification Filter, Auto Clean

8. WARRANTY & SUPPORT

YITAHOME provides a comprehensive warranty for your peace of mind:

- **5-Year Warranty** on parts.
- **7-Year Warranty** on the compressor.

For technical support, warranty claims, or further assistance, please refer to the contact information provided in your product packaging or visit the official YITAHOME website.