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› Antifir Mini Split Air Conditioner & Heater User Manual

Antifir YH07-002-9K-24K

Antifir Mini Split Air Conditioner & Heater

Model: YH07-002-9K-24K

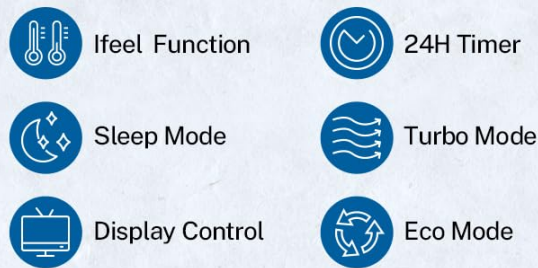
1. INTRODUCTION

The Antifir Mini Split Air Conditioner & Heater provides efficient and comfortable climate control for your space. This ductless inverter system offers both powerful heating and cooling capabilities, designed for optimal energy efficiency and quiet operation. It comes with a full installation package, making setup convenient.



Figure 1.1: The Antifir Mini Split Air Conditioner and Heater system, including both indoor and outdoor units, remote control, and installation accessories.

Key features include intelligent functions such as TURBO mode for fast cooling/heating, sleep settings for quiet operation (as low as 22 decibels), energy-conserving ECO mode, and iFEEL mode for personalized comfort. The system also features easily removable and washable filters for simple maintenance and an auto-clean function for evaporator hygiene.



26 FT Remote Control

Provide effortless full control

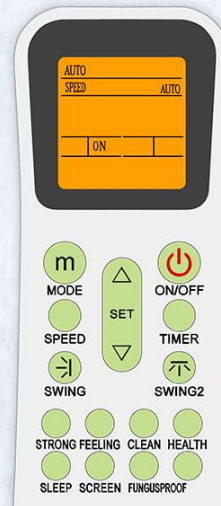


Figure 1.2: The remote control offers various smart functions for enhanced user experience and energy saving.

Product Overview Video

Video 1.1: A brief overview of the Antifir Mini Split Air Conditioner's features and benefits, including its quiet operation and smart functionalities.

2. SAFETY INFORMATION

Always prioritize safety during installation and operation. Professional installation is highly recommended for this product due to electrical and refrigerant handling requirements. Ensure all local electrical codes and regulations are followed.

- Do not install the unit near heat sources, steam sources, or in areas with flammable/explosive gases.
- Ensure no obstructions around the inlet and outlet of both indoor and outdoor units to maintain proper airflow.
- Never put the end of the drain hose in water to prevent backflow and potential damage.
- When working at heights, always wear appropriate safety gear, including a safety belt and helmet.
- If any electricity leakage is detected during trial operation, immediately turn off power and conduct further examination.

3. SETUP & INSTALLATION

Proper installation is crucial for the optimal performance and longevity of your Antifir Mini Split system. Follow these steps carefully.

3.1. Installation Action Video

Video 3.1: A detailed video guide demonstrating the complete installation process for the Antifir Mini Split Air Conditioner.

3.2. Preparation Before Installation

Gather all necessary tools and materials before beginning the installation. Ensure the installation environment meets the specified requirements.

Necessary Tools and Materials

You will need tools such as a hole saw, multimeter, pipe cutter, hex wrenches, refrigerant, torque wrench, adjustable wrench, tape measure, pressure gauge, safety belt, flaring tool, bracket, level, Phillips screwdriver, electroprobe, vacuum pump, pliers, and copper tube.

Check the Installation Environment

- Avoid areas with heat or steam sources (e.g., bathrooms).
- Ensure no obstructions around the unit's inlet and outlet.
- Do not install in areas with smoke, oil, flammable/explosive gas, or corrosive gas (e.g., kitchens, chemical storage).

3.3. Installation of Indoor Unit

The wall for the indoor unit must be hard, flat, and firm to prevent vibration and noise. Ensure proper clearances: >15cm to ceiling, >20cm to obstacles on sides, and 230-260cm from floor.

1. **Fix Mounting Plate:** Put the plate on the wall and use a level to make it horizontal. Select at least 5 screw positions. Punch holes in the wall and use expansion screw kits to firmly fix the plate. Do not use nails.
2. **Drill Wall Hole:** Determine where the pipe will go through the wall. Mark sure to avoid wires, plumbing, gas, and other sensitive components. The wall hole should be inclined outward by 5-10 degrees, with a diameter of 60-80mm. Use an anti-dust bag to avoid dust.
3. **Install Connection Cable:** Pass the power cable out from the back of the indoor unit and fix it on the terminal board. Fix the cable with a clamp.
4. **Knock-out Panel:** According to piping direction, remove the knock-out panel with a knife and remove burrs to prevent the drain pipe from being broken.
5. **Connection of Refrigerant Piping:** Use both hands to turn the pipe in the desired direction. It is forbidden to operate with one hand, which will make the tube to deform and rupture. Aim at the pipe center, tighten the taper nut with fingers, then tighten the taper nut with 2 wrenches. It's better to use a torque wrench to tighten the taper nut. Refer to the torque table for specific pipe sizes.
6. **Install the Drain Hose:** Connect the drain hose with the water outlet pipe, and fix it firmly with adhesive tape. The length should be more than 5cm to prevent water leakage.
7. **Wrap the Piping:** Wrap refrigerant piping, wires, and drain pipe with wrapping tape.
8. **Mount Indoor Unit:** Put the refrigerant piping out of the wall hole. Put the indoor unit on the mounting plate. Push the lower part of the indoor unit until a 'click' sound is heard to make sure the indoor unit is firmly fixed to the wall.
9. **Pipe Protecting Ring and Putty:** To protect piping and wires, a pipe protecting ring shall be installed sealed with putty.
10. **Place the Drain Hose:** When placing the drain hose, ensure it is sloped down and never put the end of the drain hose in water.

3.4. Installation of Outdoor Unit

The outdoor unit must be installed in a firm and flat place to prevent vibration and noise. Ensure proper clearances: >20cm to top obstruction, >30cm to side obstructions, >10cm air in side, >200cm air out side.

1. **Install Outdoor Unit Bracket:** If installing to a higher place, wear safety belt and helmet. Use a level to ensure

the bracket is horizontal and vertical. Use at least 6 expansion bolts to make sure brackets are fixed firmly on the wall.

2. **Fix Outdoor Unit:** Put the outdoor unit onto the brackets. Use 4 screws to fix the feet of the outdoor unit.
3. **Connect Refrigerant Piping:** Remove the nut from stop valves. Aim at the pipe center of the stop valve, tighten the taper nut with fingers. Tighten the taper nut with 2 wrenches. It's better to use a torque wrench to tighten the taper nut. Refer to the torque table for specific pipe sizes. Screw 2 caps.
4. **Fix Cables:** Remove the electrical box cover. Fix cables to the terminal board according to the wiring diagram on the E-parts cover. Must follow the wiring diagram inside the box cover. Use clamp to fix cables. Put the electrical box cover back.
5. **Vacuumize:** Before vacuuming, check all the nuts of the indoor and outdoor unit are tightened. Connect stop valve, charging hose, manifold valve, vacuum pump as shown in the diagram. Turn on handle Lo to vacuumize. Vacuumize for 15 minutes at least, make sure the value on the pressure gauge is $\leq 0.1\text{MPa}$. Pressure keep for 3-5 minutes after vacuumizing, make sure pressure springback $\leq 0.05\text{MPa}$. Open 1/4 liquid valve, and remove charging hose. Open all the liquid valves and gas valves. Screw all the caps and tighten up.

4. OPERATING INSTRUCTIONS

Your Antifir Mini Split system offers various operating modes to suit your comfort needs.

4.1. Operating Modes

4 Modes to Meet Various Needs



Figure 4.1: The Antifir Mini Split offers Cool, Heat, Dry, and Fan modes to meet various needs.

- **Cool Mode:** Cools to as low as 60.8°F.
- **Heat Mode:** Heats to as high as 89.6°F.
- **Dry Mode:** Dehumidification capacity of 36 pints/day.
- **Fan Mode:** Offers low/mid/high fan speed settings.

4.2. Smart Functions

- **TURBO:** Provides powerful cooling and heating for rapid temperature changes.
- **Sleep Settings:** Reduces noise to a very low 22 decibels and turns off the display for undisturbed sleep.
- **ECO Mode:** Optimizes energy consumption to reduce wastage while maintaining comfort.
- **iFEEL Mode:** Senses the temperature around the remote control and adjusts operation to maintain the set temperature, providing personalized comfort.
- **Health Mode:** (Details not specified in provided data, refer to full manual for more information).

4.3. Remote Control

The system comes with a comprehensive remote control for effortless full control. It also supports remote app

control for convenience.



Figure 4.2: The iFEEL mode ensures comfort by sensing and maintaining the temperature around the remote control.

5. MAINTENANCE

Regular maintenance ensures the efficiency and longevity of your air conditioner.

5.1. Filter Cleaning

The filter is easily removable and can be effortlessly taken out and cleaned manually. This helps remove small particles and ensures fresh airflow.



Figure 5.1: The removable and washable filter allows for easy cleaning, contributing to better air quality.

5.2. Auto Clean Function

The wall-mounted air conditioner has the ability to remove small particles from the evaporator and eliminate moisture from it through its auto-clean function, promoting hygiene and preventing mold growth.

5.3. Water Drain and Leakage Test

During trial operation, check if water drain can normally flow out and if any water leakage is around the indoor unit. If there is electricity leakage, turn off power immediately to do further examination.

6. TROUBLESHOOTING

This section provides solutions to common issues you might encounter with your mini split system.

- **Unit not turning on:** Check power supply, circuit breaker, and ensure the remote control batteries are not depleted.
- **Insufficient cooling/heating:** Verify correct mode selection, temperature setting, and ensure filters are clean. Check for obstructions around the unit.
- **Unusual noises:** Minor operational sounds are normal. Excessive noise may indicate loose parts or improper installation. Refer to installation steps or contact professional service.
- **Water leakage:** Ensure the drain hose is properly installed with adequate slope and is not clogged. Check for firm connections of refrigerant piping.
- **Remote control issues:** Ensure line of sight to the indoor unit. Check battery levels.

For complex issues or if troubleshooting steps do not resolve the problem, please contact qualified service personnel.

7. SPECIFICATIONS

Specification	Detail
Brand	Antifir
Model Info	YH07-002-9K-24K
Item Weight	18.7 pounds
Product Dimensions	7.91 x 31.18 x 11.5 inches
Efficiency	17 SEER2
Capacity	1 Tons (12000 BTU)
Annual Energy Consumption	1200 Watts
Noise	40 dB
Installation Type	Split System

Specification	Detail
Special Features	Inverter Compressor, Energy Efficient, ECO mode, iFEEL, Heating And Cooling Function, Dust Filter, 4 Way Swing, Auto Clean, Dehumidifier, Fast Cooling, Turbo function
Voltage	220 Volts
Material Type	Iron, Copper, Plastic

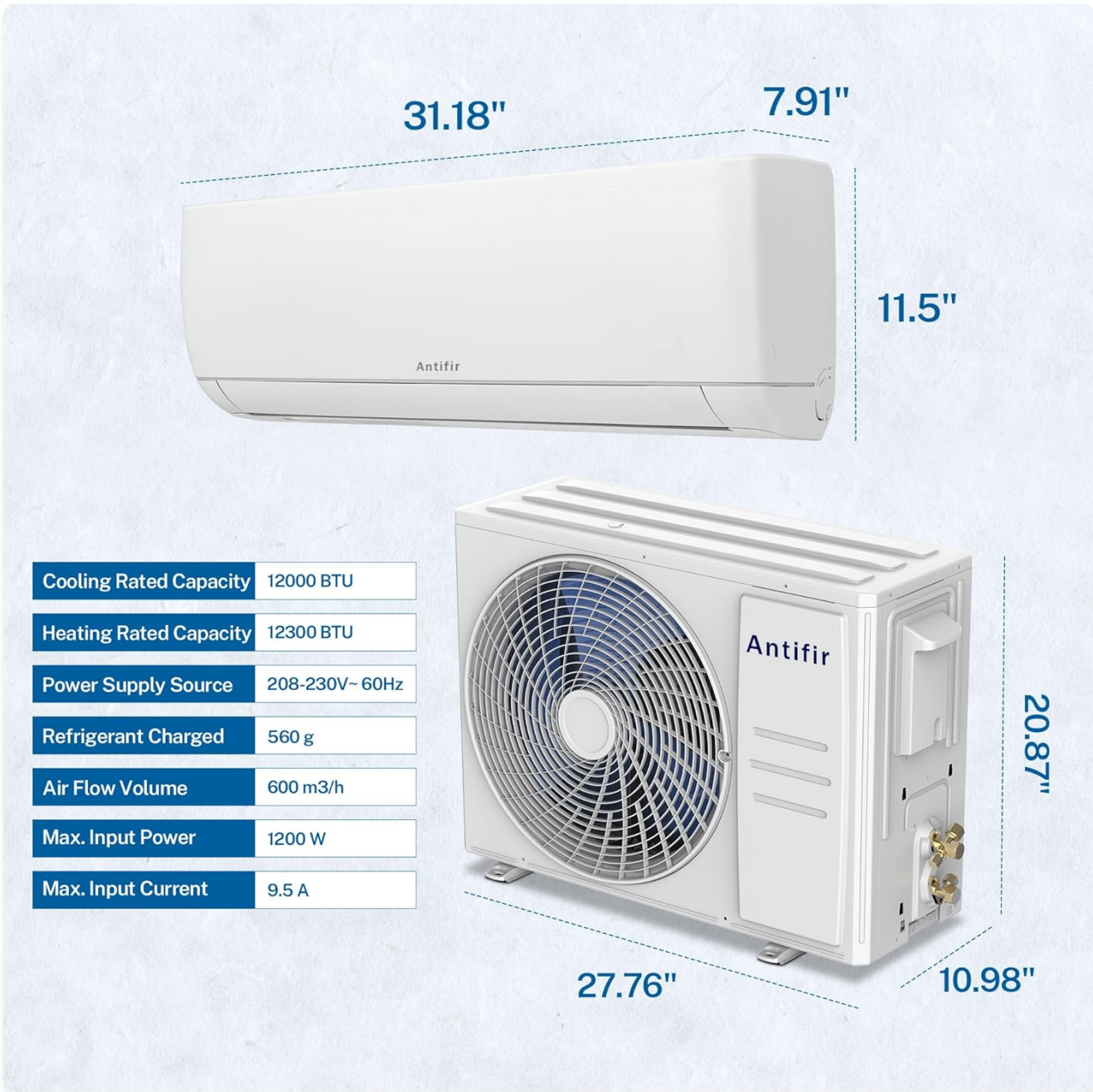


Figure 7.1: Detailed dimensions and key technical specifications of the Antifir Mini Split system.

8. WHAT'S IN THE BOX

The Antifir Mini Split Air Conditioner & Heater comes in two cartons, containing all necessary components for

installation and operation:

- 1 x Outdoor Unit
- 1 x Indoor Unit
- 8ft Power Line
- 13ft Copper Connection Pipe - Air Pipe
- 13ft Copper Connection Pipe - Liquid Pipe
- 6.5ft Drain Hose
- 15ft Communication Wires
- 1 x Remote Control
- Tape
- Putty
- Wall Sleeve
- User Guide

BOX One



Wall Mount Indoor Unit



Communication Wires



Remote Control
Batteries

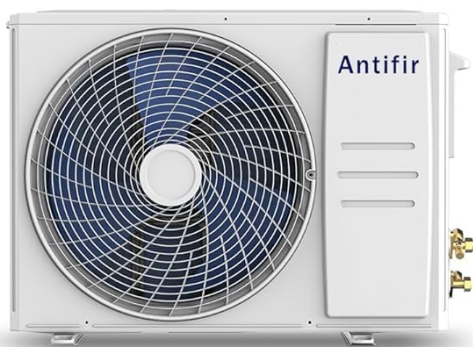


Drain Hose



User Guide

BOX Two



Outdoor Unit



Copper & Aluminum
Connection Pipe- Air Pipe



Copper & Aluminum
Connection Pipe- Air Pipe



Tape



Putty



Wall Sleeve



Communication
Wires

Two parcels are sent separately and may not arrive at the same time

Figure 8.1: Components are shipped in two separate parcels.

9. WARRANTY & SUPPORT

For warranty information and customer support, please refer to the contact details provided in your product packaging or visit the official Antifir website. Keep your purchase receipt for warranty claims.