

Antarctic Star A7201SP-12K

Antarctic Star 12000 BTU Mini Split Air Conditioner & Heat Pump (Model A7201SP-12K) User Manual

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation, installation, and maintenance of your Antarctic Star 12000 BTU Mini Split Air Conditioner and Heat Pump, Model A7201SP-12K. Please read this manual thoroughly before using the appliance and retain it for future reference. This unit is designed to provide both cooling and heating for spaces up to 750 sq.ft., featuring high energy efficiency and smart control capabilities.

2. SAFETY INFORMATION

Always observe the following safety precautions to reduce the risk of electric shock, fire, or injury.

- **Professional Installation:** Installation, maintenance, and repair must be performed by qualified service personnel. Improper installation can lead to electric shock, fire, or water leakage.
- **Power Supply:** Ensure the power supply matches the unit's specifications (115V). Do not use extension cords or multi-outlet adapters.
- **Grounding:** The unit must be properly grounded to prevent electric shock.
- **Refrigerant:** This unit uses R-32 refrigerant. Handle with care and ensure proper ventilation during installation and servicing. R-32 is a flammable refrigerant.
- **Clearance:** Maintain adequate clearance around the indoor and outdoor units for proper airflow and heat dissipation.
- **Children and Pets:** Keep children and pets away from the unit during operation and maintenance. The unit features a Child Lock function for added safety.
- **Cleaning:** Disconnect power before cleaning. Use a soft, dry cloth. Do not use water directly on electrical components.

3. PRODUCT FEATURES

The Antarctic Star Mini Split Air Conditioner and Heat Pump is equipped with advanced features for optimal comfort and

energy efficiency.

- **Powerful Cooling & Heating:** 12,000 BTU capacity for spaces up to 750 sq.ft.
- **High Energy Efficiency:** 22 SEER2 rating with Inverter Technology for reduced energy consumption.
- **Eco-Friendly Refrigerant:** Utilizes R-32 refrigerant.
- **Versatile Modes:** Cooling, Heating, Fan, Dehumidification, and Auto modes.
- **Smart Control:** Wi-Fi enabled for control via a mobile app, in addition to the included remote control.
- **Quiet Operation:** Operates as low as 25dB in Sleep Mode.
- **Self-Cleaning Function:** Automatically cleans the indoor unit to maintain air quality.
- **Customizable Airflow:** 6 fan speeds (Silence, Low, Mid, High, Turbo, Auto) and 90° vertical swing.
- **Convenience Features:** 24-hour timer, Sleep Mode, Child Lock, Intelligent Defrost.

12000BTU Mini Split Air Conditioner



Inverter System



Turbo Mode



Intelligent (Automatic) Defrost



ECO-Friendly



24H Timer



Sleep Mode



Swing Function



Self-cleaning Function



Child-lock



Image: Overview of key features of the Antarctic Star 12000 BTU Mini Split Air Conditioner.

Fast Frequency Increase Technology

Reduce startup time by 1/3

12000 Btu/h
Cooling Capacity

12000 Btu/h
Heating Capacity

750 Sq.Ft
Coverage Area

1 Ton
Heat Pump

30s QUICK COOLING

60s QUICK HEATING

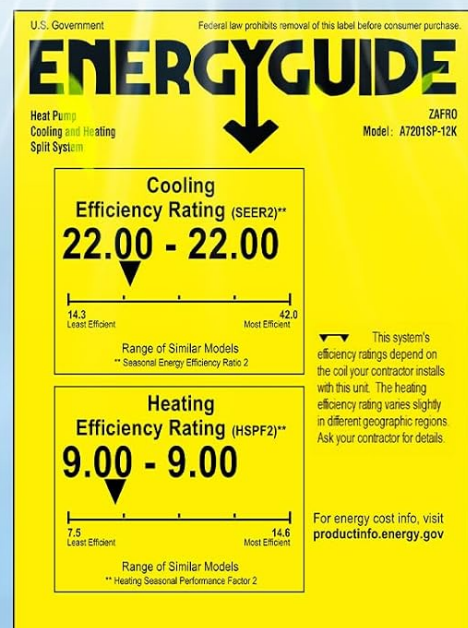


Image: Illustration of the unit's fast cooling and heating performance and coverage area.

Inverter Split Air Conditioner

- ✓ Efficient Energy Saving
- ✓ Lower Energy Cost

22 SEER2
R32 Refrigerant



Advance Inverter Technology

Image: Energy efficiency details, highlighting the 22 SEER2 rating and R32 refrigerant.

4. SETUP AND INSTALLATION

The Antarctic Star Mini Split Air Conditioner and Heat Pump requires professional installation. Incorrect installation can lead to operational issues, safety hazards, and void the warranty. The installation kit is included with the unit.

Installation Steps Overview (Professional Installation Recommended):

- Mounting Plate Installation:** Securely mount the indoor unit's mounting plate on a suitable wall.
- Drilling Wall Hole:** Drill a hole through the wall for refrigerant piping, drainage hose, and electrical cables.
- Refrigerant Piping Connection:** Connect the refrigerant lines between the indoor and outdoor units. Ensure proper vacuuming of the lines.
- Drainage Hose Installation:** Install the drainage hose to ensure proper condensate removal.
- Electrical Wiring:** Connect the electrical wiring according to the wiring diagram provided in the full installation manual.

6. **Outdoor Unit Placement:** Position the outdoor unit on a stable, level surface with adequate clearance for airflow.
7. **Leak Test:** Perform a leak test on all connections.
8. **Test Run:** Conduct a test run to ensure all functions operate correctly.

Your browser does not support the video tag.

Video: Detailed installation guide for the Mini Split Air Conditioner & Heat Pump. This video demonstrates the process of installing both the indoor and outdoor units, connecting refrigerant lines, and securing the system.



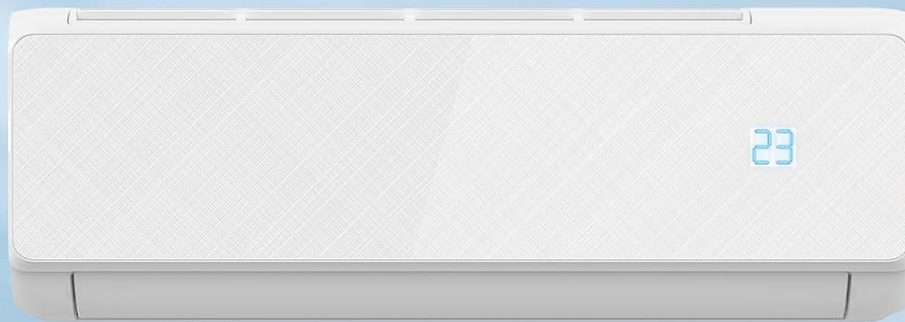
Image: Dimensions of the indoor and outdoor units for installation planning.

5. OPERATING INSTRUCTIONS

Your mini split unit can be controlled via the included remote control or through the dedicated mobile application.

Remote Control Functions:

User-Friendly Operation with Multiple Functions



5 Modes

AUTO

COOL

DRY

HEAT

FAN

6 Fan Speeds

(SILENCE)

Silence

(•)

Low

(|||)

Mid

(||||)

High

(TURBO)

Turbo

(AUTO)

Auto

More Functions



Screen Display



Portable Sensing



24H Timer



°F/°C



Self-Cleaning



Sleep



ECO



Child-lock

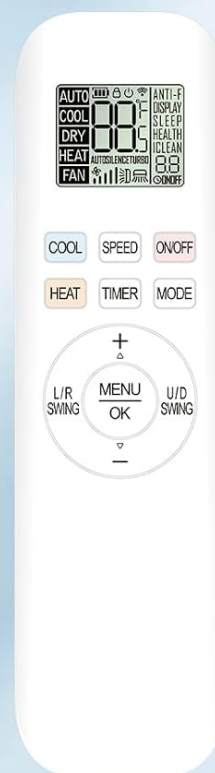


Image: Remote control layout with various operating modes and functions.

- **Power ON/OFF:** Press the ON/OFF button to start or stop the unit.
- **Mode Selection:** Use the MODE button to cycle through Cooling, Heating, Fan, Dehumidification (DRY), and Auto modes.
- **Temperature Adjustment:** Use the UP/DOWN arrows to set the desired temperature (60°F to 90°F / 16°C to 32°C).
- **Fan Speed:** Press the SPEED button to select from Silence, Low, Mid, High, Turbo, or Auto fan speeds.
- **Swing Function:** Activate the SWING button for automatic vertical airflow adjustment.
- **Timer:** Set the 24-hour timer for automatic ON/OFF operation.
- **Sleep Mode:** Engages quiet operation and adjusts temperature gradually for comfortable sleep.
- **ECO Mode:** Optimizes energy consumption for sustainable comfort.
- **Child Lock:** Activates to prevent accidental changes to settings.

Wi-Fi Smart Control:

Download the dedicated mobile application (e.g., Tuya Smart APP) to control your unit remotely. Follow the app's instructions for pairing your device. This allows you to adjust settings, set schedules, and monitor the unit from anywhere.

Mini Split AC Control With Mobile APP

Adjust your mini split air conditioner anywhere
The temperature setting range: 16°C (60°F) ~ 32°C(90°F).



Tuya Smart APP



Remote

Image: Demonstrates control options via mobile application and remote.

Low Noise

Enjoy a quiet and comfortable night

 **25dB_{in}** Mute
ModedB



Sleep Mode



Screen Off



24H Timer



Image: Illustrates the quiet operation and sleep-friendly features of the unit.

6. MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your unit.

Self-Cleaning Function:

The unit features a self-cleaning function that automatically cleans the indoor coil. Refer to your remote control or app instructions to activate this feature. This helps prevent mold and bacteria buildup, ensuring fresh air output.

Filter Cleaning:

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

1. **Turn Off Power:** Always disconnect the power supply to the unit before cleaning.
2. **Open Front Panel:** Gently open the front panel of the indoor unit.

3. **Remove Filters:** Carefully remove the air filters.
4. **Clean Filters:** Wash the filters with lukewarm water and a mild detergent. Rinse thoroughly. For heavily soiled filters, a soft brush can be used.
5. **Dry Filters:** Allow the filters to air dry completely in a shaded area before reinstallation. Do not expose to direct sunlight.
6. **Reinstall Filters:** Place the dry filters back into the indoor unit and close the front panel.



Removable & Washable Filter



Image: Visual guide for the self-cleaning function and removable, washable air filter maintenance.

7. TROUBLESHOOTING

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

- **Unit Does Not Start:**
 - Check if the power cord is securely plugged in.
 - Verify the circuit breaker has not tripped.

- Ensure the remote control batteries are not depleted.
- Check if the timer function is set to OFF.

- **Insufficient Cooling/Heating:**

- Clean the air filters.
- Ensure no obstructions are blocking the indoor or outdoor unit's airflow.
- Check if windows and doors are closed.
- Verify the temperature setting is appropriate for the desired mode.
- If the issue persists, there might be a refrigerant leak or compressor problem, requiring professional service.

- **Unusual Noises:**

- Gurgling or hissing sounds are normal due to refrigerant flow.
- Cracking sounds may occur due to expansion/contraction of plastic parts.
- If loud or persistent grinding/rattling noises occur, turn off the unit and contact service.

- **Water Leakage from Indoor Unit:**

- Check if the drainage hose is clogged or kinked.
- Ensure the indoor unit is installed level.

- **Remote Control Not Working:**

- Replace batteries.
- Ensure there are no obstructions between the remote and the indoor unit's receiver.

For issues not listed here or if troubleshooting steps do not resolve the problem, please contact customer support.

8. SPECIFICATIONS

Feature	Specification
Brand	Antarctic Star
Model Name	Split Air Conditioner & Heat Pump
Model Number	A7201SP-12K
Cooling Power	12000 BTU
Heating Power	12000 BTU
Coverage Area	Up to 750 sq.ft
Seasonal Energy Efficiency Ratio (SEER2)	22
Voltage	115V
Wattage	690 watts
Noise Level	25 dB (in Sleep Mode)
Refrigerant	R-32

Filter Type	Mesh Filter
Control Method	Remote, App Control
Product Dimensions (Indoor Unit)	28.94"D x 18.7"W x 14.96"H (Note: This seems to be the package dimensions, actual unit dimensions are typically smaller. Refer to installation guide for precise unit dimensions.)
Item Weight	68.2 pounds

9. WARRANTY AND SUPPORT

Your Antarctic Star Mini Split Air Conditioner and Heat Pump (Model A7201SP-12K) comes with a**1-Year Limited Manufacturer Warranty**. This warranty covers defects in materials and workmanship under normal use. For warranty claims, technical support, or service inquiries, please contact Antarctic Star customer service. Keep your purchase receipt and model number (A7201SP-12K) readily available when contacting support. For the most up-to-date contact information, please refer to the official Antarctic Star website or your purchase documentation.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question