

Antarctic Star A5405-10K-AS

Antarctic Star 10000 BTU Portable Air Conditioner

MODEL: A5405-10K-AS

Brand: Antarctic Star

1. Safety Information

Please read all safety instructions carefully before operating the appliance. Keep this manual for future reference.

- **Upright Position:** If the unit was tipped more than 45 degrees, allow it to stand upright for at least 4 hours before starting.
- **Room Size:** Install the unit in rooms that do not exceed 4 m² (approximately 43 sq.ft.) to ensure proper operation and safety.
- **Flammable Gas:** Do not install the unit in a place where inflammable gas may leak.
- **Proper Airflow:** Ensure at least 20 inches (50 cm) of free space around the unit for proper air circulation. Do not block air inlets or outlets.
- **Electrical Safety:** The power supply cord requires a 115 Volts (AC), 15 Amp fused grounded circuit.
- **Direct Sunlight:** Avoid placing the unit in direct sunlight.
- **Unstable Surface:** Place the unit on a firm, level surface.

2. Package Contents

Verify that all items are present and undamaged upon unpacking:

- 1 x Portable Air Conditioner Unit
- 1 x Exhaust Hose
- 1 x Hose Connector

- 1 x Window Kit (Adjustable Panel)
- 1 x Window Kit Adapter
- 1 x Remote Control (with batteries)
- 1 x Drainage Hose
- 1 x User Manual
- Installation Kit (screws, butterfly nuts)

3. Product Overview

The Antarctic Star Portable Air Conditioner is a versatile 3-in-1 unit designed to provide cooling, fan, and dehumidification functions for your home or office.



Image: The Antarctic Star Portable Air Conditioner highlighting its 4-in-1 functionality including Sleep, Cooling, Dry, and Fan modes.

Key Features:

- **4-in-1 Versatility:** Offers Cooling, Fan, Dehumidifier, and Sleep modes.
- **Cooling Power:** 10000 BTU (ASHRAE rated) for spaces up to 350-450 sq.ft.
- **Low Noise Operation:** Operates at approximately 51-52 decibels, ensuring minimal disturbance.
- **Portability:** Equipped with smooth rolling wheels and integrated handles for easy movement between rooms.
- **Smart Control:** Features a top-mounted control panel and a remote control for convenient operation.
- **24-Hour Timer:** Program the unit to turn on or off automatically.
- **Washable Air Filter:** Removable and reusable mesh filter for clean air.

Dimensions & Weight:

- **Product Dimensions:** 13.39"D x 15.94"W x 27.09"H
- **Item Weight:** 44.11 Pounds

4. Setup & Installation

Follow these steps for proper installation to ensure optimal performance.

1. **Positioning the Unit:** Place the portable AC unit on a firm, level surface. Ensure there is at least 20 inches (50 cm) of free space around the unit for proper air circulation. If the unit was tipped during transport, let it stand upright for 4 hours before use.

2. **Assemble Exhaust Hose:**

- Attach the hose connector to one end of the expandable exhaust hose by twisting it clockwise.
- Attach the adapter to the opposite end of the exhaust hose.
- Connect the assembled exhaust hose to the exhaust outlet on the back of the AC unit by sliding and snapping it into place.

3. **Install Window Kit:**

- The window kit is adjustable and designed for both vertical and horizontal sliding windows. Applicable window sizes range from 25 inches to 50 inches in width.
- Adjust the main window panel and extension panels (if needed) to fit your window opening. Secure the panels together using the provided butterfly nut.
- Place the assembled window kit into the window opening. Close the window sash against the panel to hold it securely.
- Attach the exhaust hose adapter to the opening in the window kit. Use the included screws to secure it.



Image: Diagram illustrating flexible installation of the window kit for both sliding and double-hung windows, showing adjustable panels.

4. **Drainage Hose (Optional for Dehumidifier Mode):** For continuous drainage during dehumidification, attach the provided drainage hose to the drain port at the bottom rear of the unit. Ensure the hose is sloped downwards to allow water to flow into a bucket or drain.

Video: This video demonstrates the installation process of the Antarctic Star Portable Air Conditioner, including attaching the exhaust hose and setting up the window kit. It also shows how to connect the continuous drainage hose.

5. Operating Instructions

The unit can be controlled via the top panel or the remote control.

User-Friendly Smart Remote Control

Enjoy a refreshingly comfortable summer day



Image: The user-friendly smart control panel and remote control for the portable air conditioner, allowing easy adjustment of settings.

Control Panel & Remote:

- **Power Button:** Turns the unit on or off.
- **Mode Button:** Cycles through Cooling, Fan, and Dehumidifier modes.
- **Up/Down Arrows:** Adjusts temperature settings or timer duration.
- **Speed Button:** Selects fan speed (Low/High).
- **Timer Button:** Activates the 24-hour timer function.
- **Sleep Button:** Activates Sleep Mode.
- **Lock Button:** Locks the control panel to prevent accidental changes (available on top panel).

Operating Modes:

- **Cooling Mode:** Provides fast and effective cooling. Temperature can be set between 61°F and 90°F.
- **Fan Mode:** Circulates air without cooling. Choose between Low and High fan speeds.
- **Dehumidifier Mode:** Removes excess moisture from the air, extracting up to 50.7 pints per day.
- **Sleep Mode:** Automatically adjusts temperature and operates at a lower noise level (approx. 52 dB) for comfortable sleep. Activate by pressing the Timer and Down arrow buttons simultaneously on the control panel, or the Sleep button on the remote.

Timer Function:

The 24-hour timer allows you to schedule the unit's operation. You can set it to:

- **Auto-On:** If the unit is off, set the timer for how long you want it to wait before turning on (1-24 hours).
- **Auto-Off:** If the unit is on, set the timer for how long you want it to run before turning off (1-24 hours).

6. Maintenance

Regular maintenance ensures efficient operation and prolongs the life of your air conditioner.

Air Filter Cleaning:



Image: The side panel of the portable air conditioner with the removable and washable air filter being taken out for cleaning.

- The unit features a removable and reusable mesh air filter.
- It is strongly recommended to clean the air filter once a week to maintain proper machine function and air quality.

- To clean, simply slide out the filter, rinse it under running water, and allow it to dry completely before reinserting.

Water Drainage:

- The unit has an internal water tank that collects condensate. An indicator light on the control panel will illuminate when the tank is full.
- To drain, locate the manual drain plug at the bottom rear of the unit. Remove the plug and allow water to drain into a suitable container.
- For continuous drainage, attach the provided drainage hose to the drain port and ensure it leads to a floor drain or large bucket.

7. Troubleshooting

If you encounter issues with your unit, refer to the following common solutions:

- **Unit Not Turning On:** Check if the power cord is securely plugged into a grounded 115V/15A outlet. Ensure the outlet is functional.
- **Insufficient Cooling:**
 - Verify that the air filter is clean.
 - Ensure the exhaust hose is properly installed and not kinked or blocked.
 - Check that windows and doors in the room are closed to prevent warm air from entering.
 - Confirm the room size is within the recommended cooling area (up to 350-450 sq.ft.).
- **Water Full Indicator On:** The internal water tank is full. Drain the water manually or set up continuous drainage.
- **Unusual Noise:** Ensure the unit is on a level surface and not vibrating against any objects.

8. Specifications

Brand	Antarctic Star
Model Name	Portable air conditioners
Model Number	A5405-10K-AS
Cooling Power	10000 British Thermal Units
Cooling Area	Up to 350-450 sq.ft.
Modes	Cool, Fan, Dehumidifier, Sleep
Dehumidification Capacity	50.7 Pints/Day
Noise Level	51-52 Decibels

Voltage	115 Volts (AC)
Wattage	690 watts
Refrigerant	R-32
Filter Type	Mesh Filter
Product Dimensions	13.39"D x 15.94"W x 27.09"H
Item Weight	44.11 Pounds
Window Opening Max Width	50 Inches
Window Opening Min Width	25 Inches

9. Warranty & Support

This Antarctic Star Portable Air Conditioner comes with a **1-Year Warranty** from the date of purchase.

For warranty claims, technical support, or any inquiries, please contact Antarctic Star customer service. Refer to the contact information provided in your product packaging or on the official Antarctic Star website.