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AC Infinity AI-CFD80BA

AC Infinity AIRPLATE S5 Quiet Cabinet Cooling Fan 8-Inch with Speed Controller User Manual

Model: AI-CFD80BA

Introduction

The AC Infinity AIRPLATE S5 is an ultra-quiet UL-certified fan system designed for efficient cooling of cabinets, particularly those housing home theater, audio/video, and entertainment center components. It features a multi-speed controller, allowing users to adjust fan speed for optimal balance between airflow and noise levels. Constructed with a CNC machined aluminum frame and a brushed black finish, this unit combines durability with a modern aesthetic.
This manual provides detailed instructions for the setup, operation, and maintenance of your AIRPLATE S5 fan system.



Image: The AC Infinity AIRPLATE S5 fan system integrated into a cabinet, illustrating its cooling function with visual airflow indicators.



Image: Detailed view of the fan's dual-ball bearing design, emphasizing its ultra-quiet operation and compliance with UL, CE, and RoHS standards.

Safety Information

Please read all safety instructions carefully before installing and operating the AC Infinity AIRPLATE S5. Failure to follow these instructions may result in electric shock, fire, or other hazards, and may void the warranty.

- Ensure the power source matches the voltage requirements specified on the product label.
- Do not operate the fan with a damaged cord or plug.
- Avoid placing fingers or foreign objects into the fan blades.
- Keep the fan away from water or excessive moisture.
- Do not attempt to disassemble or repair the unit yourself. Contact customer support for assistance.
- This product is designed for indoor use only.

For detailed safety guidelines, refer to the official Safety Information document:Safety Information (PDF).

Package Contents

Verify that all components are present in the package:

- AC Infinity AIRPLATE S5 Fan Unit
- Multi-Speed Controller
- Power Adapter (Wall outlet or USB compatible)
- Mounting Hardware

Setup and Installation

The AIRPLATE S5 is designed for easy installation in various cabinet types. It can be powered via a wall outlet or a USB port, with an included Turbo Adapter to boost performance.

Mounting the Fan Unit

1. **Determine Placement:** Identify the optimal location within your cabinet for airflow. For exhaust, place near the top; for intake, place near the bottom.
2. **Prepare Opening:** If installing into a custom opening, ensure the cut-out dimensions are appropriate (refer to specifications). The unit dimensions are 8.5"L x 4.4"W x 1.3"H.
3. **Secure Unit:** Use the provided mounting hardware to secure the AIRPLATE S5 unit firmly to the cabinet.



Image: Example installation of AC Infinity fans (S1 model shown) and a controller in a cabinet, demonstrating a typical setup.

Connecting Power

1. Connect the fan unit's power cable to the multi-speed controller.
2. Connect the multi-speed controller to the power adapter.
3. Plug the power adapter into a standard wall outlet or a USB port. The included Turbo Adapter can be used with the USB connection for increased fan performance.

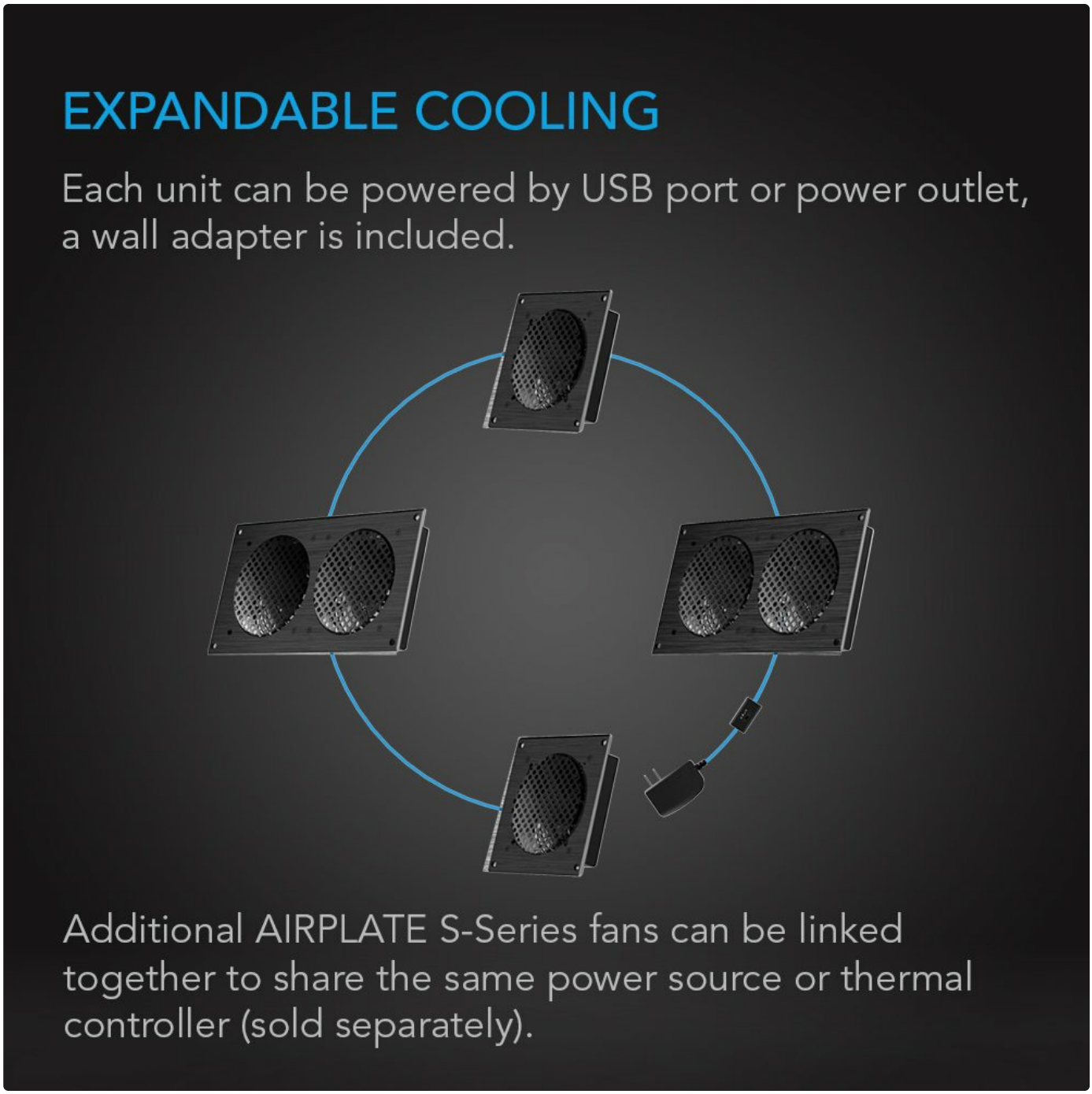


Image: Illustration of expandable cooling, showing how multiple AIRPLATE S-Series fans can be linked and powered from a single source.

Operating Instructions

The AIRPLATE S5 features a multi-speed controller to manage airflow and noise levels.

Using the Speed Controller

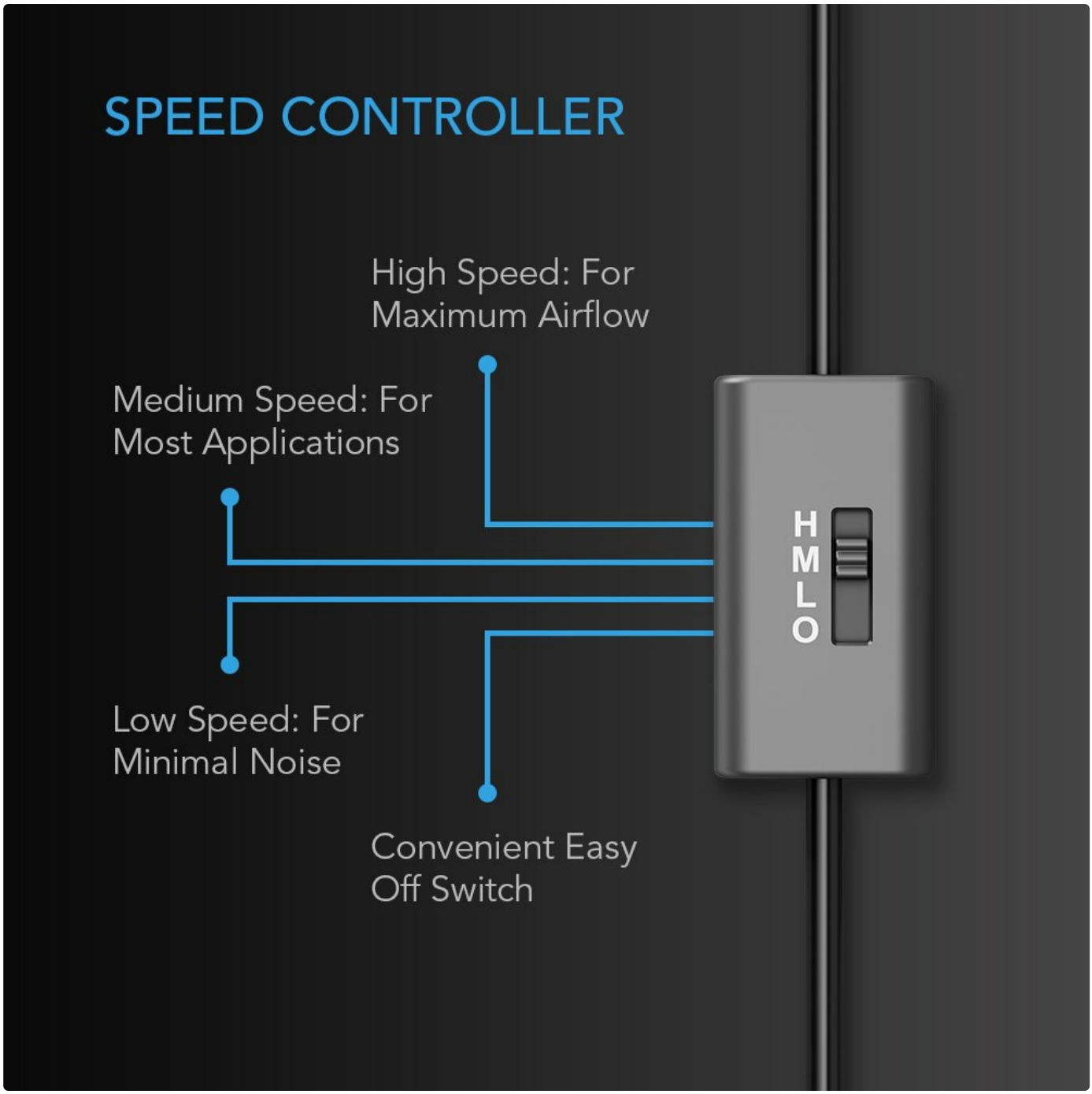


Image: The multi-speed controller, indicating settings for High, Medium, Low, and Off.

- **High Speed (H):** Provides maximum airflow for situations requiring significant cooling.
- **Medium Speed (M):** Suitable for most applications, offering a balance between cooling performance and noise.
- **Low Speed (L):** Ideal for minimal noise operation, providing gentle airflow.
- **Off (O):** Turns the fan system off.

Adjust the switch on the controller to your desired setting. Monitor your cabinet's temperature to find the optimal speed for your equipment.

Maintenance

Regular maintenance ensures optimal performance and longevity of your AIRPLATE S5 fan system.

- **Cleaning:** Periodically clean the fan blades and grille to prevent dust buildup, which can impede airflow and increase noise. Use a soft, dry cloth or a can of compressed air.
- **Inspection:** Check power cables and connections for any signs of wear or damage.

- **Do Not Lubricate:** The dual-ball bearings are designed for long-term, maintenance-free operation and do not require lubrication.

Troubleshooting

Problem	Possible Cause	Solution
Fan does not turn on.	No power, loose connection, controller set to 'Off'.	Check power outlet, ensure all cables are securely connected, set controller to 'L', 'M', or 'H'.
Fan is unusually loud.	Dust buildup, obstruction, fan speed too high.	Clean fan blades and grille. Ensure no objects are obstructing the fan. Reduce fan speed using the controller.
Insufficient cooling.	Fan speed too low, improper placement, blocked vents.	Increase fan speed. Ensure proper airflow direction (intake/exhaust). Clear any obstructions from cabinet vents.

If you encounter issues not listed here or if solutions do not resolve the problem, please contact AC Infinity customer support.

Specifications



Image: Visual representation of the AIRPLATE S5 dimensions and key specifications.

Feature	Detail
Model	AI-CFD80BA (AIRPLATE S5)
Product Dimensions	8.5"L x 1.3"W x 4.4"H
Total Airflow	52 CFM
Total Noise	18 dBa
Bearings	Dual Ball
Maximum Rotational Speed	2000 RPM
Wattage	1.9 watts
Voltage	240 volts (Input for adapter, unit uses lower DC voltage)

Feature	Detail
Material	Metal (CNC machined aluminum frame)
Power Connector Type	2-Pin (Internal fan connection)
Compatible Devices	AV Cabinets, Desktop, Gaming Console, Receiver

Note: Specifications are subject to change without notice.

Warranty

AC Infinity provides a **1-year warranty** that covers all defects in materials and workmanship from the date of purchase. This warranty applies to the original purchaser and is non-transferable. It does not cover damage caused by misuse, abuse, neglect, unauthorized modification, or improper installation.
To claim warranty service, please retain your proof of purchase and contact AC Infinity customer support.

Support

For technical assistance, troubleshooting, or warranty inquiries, please contact AC Infinity customer support through their official channels.

- **Online Support:** Visit the official AC Infinity website for FAQs, product guides, and contact forms.
- **Email Support:** Refer to your product packaging or the AC Infinity website for the appropriate support email address.
- **Brand Store:** Explore other AC Infinity products and resources at their Amazon store:AC Infinity Amazon Store.

When contacting support, please have your product model number (AI-CFD80BA) and proof of purchase readily available.

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