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## AC Infinity AC-AFB6

# AC Infinity Inline Filter Box 6-Inch User Manual

Model: AC-AFB6 | Brand: AC Infinity

## INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your AC Infinity Inline Filter Box 6-Inch. This whole-house air filtration system is designed for use with inline duct fans, such as the AC Infinity CLOUDLINE Series, to effectively circulate fresh air and prevent particles like dust, dirt, lint, and odors from entering your home in intake applications. Please read this manual thoroughly before installation and use to ensure proper function and longevity of the product.

## SAFETY INFORMATION

Observe the following safety precautions to reduce the risk of injury, electrical shock, or damage to the product:

- Always disconnect power to any associated inline duct fan or HVAC system before installing, servicing, or cleaning the filter box.
- Ensure all electrical connections are made in accordance with local codes and regulations.
- Do not operate the filter box with a damaged filter or if the housing is compromised.
- Keep hands and loose clothing away from moving parts of any connected fan during operation.
- This product is designed for air filtration. Do not use it for purposes other than its intended use.
- Install the unit in a location that allows for adequate access for filter replacement and maintenance.

## PACKAGE CONTENTS

Verify that all components are present before proceeding with installation:

- AC Infinity Inline Filter Box 6-Inch
- High-Efficacy Pleated Air Filter (12" x 20" x 1")

## PRODUCT OVERVIEW

The AC Infinity Inline Filter Box is constructed from durable 1mm thick cold-rolled steel with a matte black powder coating, ensuring resilience against various environmental conditions. It features aluminum duct flanges for secure connection to inline ducting systems.



Image: The AC Infinity Inline Filter Box 6-Inch, a rectangular black metal box with circular duct connections on each end and a latch on the side.

### Key Features:

- **Robust Construction:** Built with 1mm thick cold-rolled steel and aluminum duct flanges for durability.
- **Easy Access Design:** A hinge-sealed door with a slide lock provides convenient access to the inner chamber for filter replacement. The door is lined with a soft neoprene layer to ensure a dust-free seal.
- **High-Efficacy Filtration:** Includes a standard pleated air filter capable of trapping particles between 0.3-1.0 microns, such as dust, dirt, lint, and odors.
- **Compatibility:** Designed to fit 6-inch inline duct fans, enabling streamlined installation for HVAC and grow applications.

# INDOOR AIR FILTERING

Intake air filtration system designed for use with inline duct fans to block dust particles from entering your home and circulate fresh air.



Image: Diagram illustrating air flow through the filter box. Red arrows show unfiltered air entering from the left, passing through the filter, and blue arrows show filtered air exiting to the right.

The filter box is designed to be integrated into your ductwork to significantly reduce airborne particles in your indoor environment.

## SETUP AND INSTALLATION

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Proper installation is crucial for the optimal performance of your inline filter box. It is recommended to install the filter box at the starting end of your ductwork for intake applications.

1. **Plan Placement:** Determine the ideal location for the filter box within your ducting system. It should be easily accessible for future filter replacements.
2. **Prepare Ducting:** Ensure that the 6-inch ducting on both the intake and exhaust sides is ready for connection.
3. **Connect to Ducting:** Attach the filter box to your existing 6-inch inline ducting using appropriate clamps or fasteners (not included). The aluminum duct flanges are designed for a secure fit.

4. **Integrate with Fan:** For maximum filtration efficiency, it is highly recommended to use the filter box with a high static pressure inline duct fan, such as the AC Infinity CLOUDLINE Series. Connect the filter box to the intake side of your inline fan.
5. **Secure Installation:** Ensure the filter box is securely mounted or supported to prevent movement or strain on the ducting.



Image: The AC Infinity Inline Filter Box installed horizontally, connected to flexible ducting on both ends, positioned above cabinetry.

## OPERATING INSTRUCTIONS

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Once installed, the AC Infinity Inline Filter Box operates passively as part of your ventilation system. Its primary function is to filter incoming air as it passes through the installed filter.

- Ensure the filter is correctly seated within the inner chamber before closing the door.
- Close the hinge-sealed door and engage the slide lock to secure it and maintain an airtight seal.
- The filtration process begins when the connected inline duct fan is activated, drawing air through the filter box.

Regular maintenance, primarily filter replacement, is essential to maintain optimal air quality and system performance.

### Filter Replacement:

1. **Power Off:** Always turn off and disconnect power to the inline duct fan and any associated HVAC system before opening the filter box.
2. **Open Door:** Locate the slide lock on the side of the filter box. Disengage the lock and open the hinge-sealed door.
3. **Remove Old Filter:** Carefully slide out the used high-efficacy pleated air filter from the inner chamber.
4. **Insert New Filter:** Insert a new standard 12" x 20" x 1" MERV-rated filter into the slot. Ensure it is seated correctly.
5. **Close Door:** Close the door and engage the slide lock to ensure a tight, dust-free seal.
6. **Restore Power:** Reconnect power to your inline duct fan and HVAC system.

## EASY ACCESS DESIGN

Slide lock door gives easy chamber access to the inner slot for quick MERV filter replacement. Soft neoprene layer lines the door to create a dust-free seal.



Image: The filter box with its hinged door open, showing a pleated air filter being inserted or removed from the internal slot.

The frequency of filter replacement depends on usage and environmental conditions. It is recommended to inspect the filter regularly and replace it when it appears visibly dirty or airflow is noticeably reduced.

# FIT FOR HOMES & WORKSHOPS

Includes a standard filter that purifies the air by blocking 0.3-1.0 micron sized particles like dust, fumes, and dirt from passing through.



Image: A close-up of a pleated air filter with small blue particles (representing dust/dirt) being trapped within its fibers, illustrating its filtration capability.

## TROUBLESHOOTING

If you encounter issues with your AC Infinity Inline Filter Box, refer to the following common troubleshooting steps:

Problem	Possible Cause	Solution
Reduced Airflow	Clogged or dirty filter.	Inspect and replace the air filter.
Air Leakage Around Door	Door not properly latched or neoprene seal damaged.	Ensure the slide lock is fully engaged. Check the neoprene seal for damage and replace if necessary.

Problem	Possible Cause	Solution
Unfiltered Air Entering System	Filter missing or improperly installed. Gaps in duct connections.	Verify filter presence and correct orientation. Ensure all duct connections are sealed tightly.

## SPECIFICATIONS

Attribute	Detail
Model	AC-AFB6
Brand	AC Infinity
Duct Opening Diameter	6 inches
Product Dimensions (L x W x H)	23.46" x 8.42" x 11.73" (59.6 cm x 21.4 cm x 29.8 cm)
Item Weight	15.07 pounds
Material	Cold-rolled steel, Aluminum
Maximum Airflow	800 CFM
Compatible Filter Size	12" x 20" x 1"
MERV Rating (Included Filter)	13 (High Efficacy)
Compatible Devices	AC Infinity CLOUDLINE Series inline duct fans
UPC	819137021709



# SPECIFICATIONS

MODEL | FILTER BOX 6  
DUCT OPENING | Ø6"  
MAX AIRFLOW | 800 CFM

FPR RATING | 10  
MPR RATING | 1500-1900  
FILTER | HIGH EFFICACY

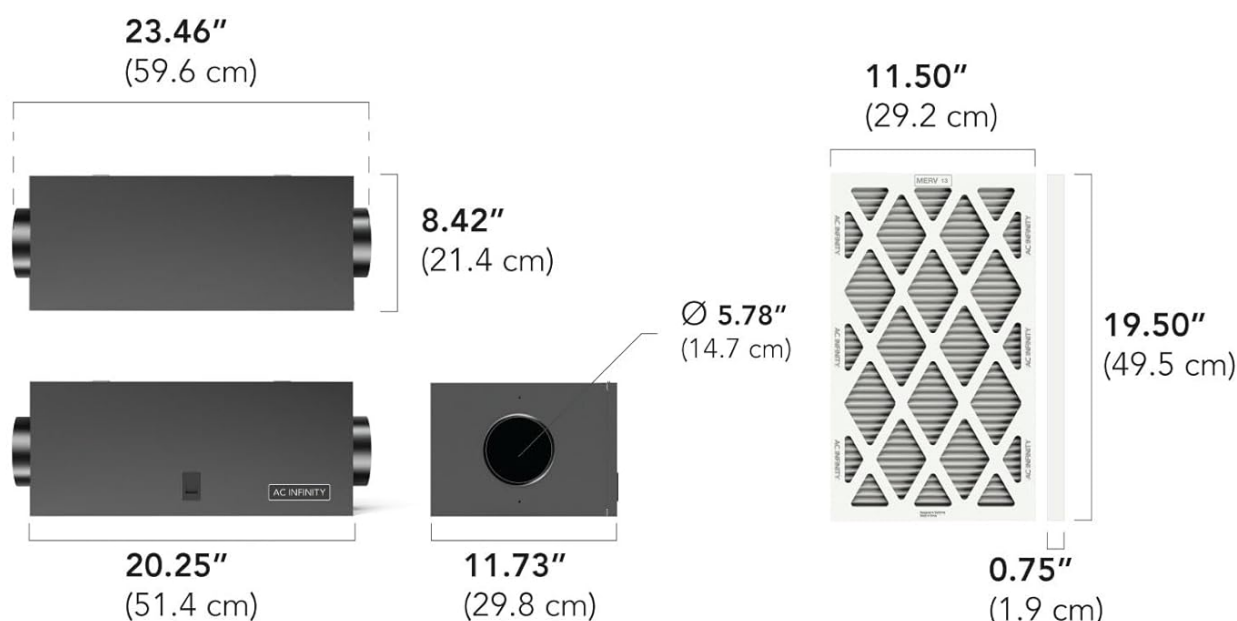



Image: Technical drawing showing the dimensions of the AC Infinity Inline Filter Box 6-Inch and its compatible filter, including length, width, height, and duct opening diameter.

## WARRANTY AND SUPPORT


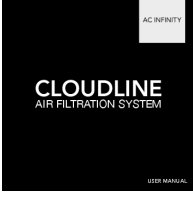
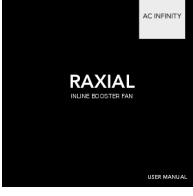
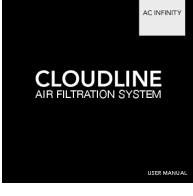
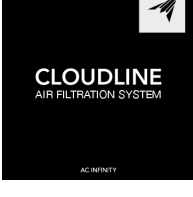
Specific warranty information for the AC Infinity Inline Filter Box 6-Inch is not provided within this manual. For details regarding warranty coverage, technical support, or replacement parts, please refer to the official AC Infinity website or contact their customer service directly. Keep your purchase receipt as proof of purchase for any warranty claims.

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## Related Documents - AC-AFB6

	<p><a href="#">AC Infinity Inline Filter Box User Manual with MERV 13 Filter</a></p> <p>User manual for the AC Infinity Inline Filter Box, detailing its features, installation, maintenance, and warranty. Includes information on MERV 13 filter compatibility and other AC Infinity ventilation products.</p>
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	<p><a href="#">AC Infinity Inline Filter Box User Manual</a></p> <p>User manual for the AC Infinity Inline Filter Box, including MERV 13 filter. Covers product features, installation, maintenance, and warranty information.</p>
	<p><a href="#">AC Infinity Cloudline Air Filtration System User Manual</a></p> <p>Comprehensive user manual for the AC Infinity Cloudline Air Filtration System, detailing installation, features, programming, and troubleshooting for models like AC-FKS4 and AC-FKT8.</p>
	<p><a href="#">AC Infinity RAXIAL Inline Booster Fan User Manual</a></p> <p>User manual for the AC Infinity RAXIAL Inline Booster Fan, detailing installation, features, programming, and warranty information for models S4, S6, and S8.</p>
	<p><a href="#">AC Infinity CLOUDLINE Air Filtration System User Manual</a></p> <p>User manual for the AC Infinity CLOUDLINE Air Filtration System, detailing its features, installation, setup, cleaning, programming, frequently asked questions, and warranty information. Includes models AC-FKS4, AC-FKS6, and AC-FKS8.</p>
	<p><a href="#">AC Infinity CLOUDLINE Air Filtration System Manual - Installation &amp; Operation Guide</a></p> <p>Comprehensive user manual for the AC Infinity CLOUDLINE Air Filtration System. Covers installation, features, operation, and maintenance for models including AC-FKS4, AC-FKS6, AC-FKS8, AC-FKT4, AC-FKT6, and AC-FKT8. Features include AI-powered control, activated carbon filtration, and flexible ducting.</p>

Documents - AC Infinity – AC-AFB6



[AC Infinity Inline Filter Box User Manual with MERV 13 Filter](#)

User manual for the AC Infinity Inline Filter Box, detailing its features, installation, maintenance, and warranty. Includes information on MERV 13 filter compatibility and other AC Infinity ventilation products.

lang:en score:31 filesize: 239.08 K page\_count: 16 document date: 2021-09-02



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WITH HIGH EFFICACY FILTER acfserver 7 KEY FEATURES Includes a filter that traps 0.3-1 micron particles with 90% efficiency such as dust lint and welding fumes 20211027 Filter Box MANUAL manuals

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### [AC Infinity Inline Filter Box User Manual](#)

User manual for the AC Infinity Inline Filter Box, including MERV 13 filter. Covers product features, installation, maintenance, and warranty information.

lang:en **score:25** filesize: 256.46 K page\_count: 16 document date: 2020-12-02