

## AC Infinity AC-DCF6

# AC Infinity Air Carbon Filter 6" (Model AC-DCF6) Instruction Manual

Premium Australian Virgin Charcoal for Inline Duct Fan, Odor Control, Hydroponics, Grow Rooms

## 1. PRODUCT OVERVIEW

The AC Infinity Air Carbon Filter 6" is an essential component for maintaining optimal air quality in enclosed environments such as grow tents and hydroponic rooms. It is engineered to effectively neutralize odors and remove airborne chemicals, ensuring a clean and fresh atmosphere.

Key features include:

- **Premium Australian Virgin Charcoal:** Utilizes high-grade RC412 activated carbon with 1200+ IAV rating for superior adsorption and extended lifespan.
- **Durable Construction:** Features a powder-coated gunmetal finish for rust resistance and longevity in high-humidity conditions.
- **Galvanized Steel Mesh:** Provides robust structural integrity and protection.
- **Aluminum Flanges:** Designed for secure and reversible connection to inline duct fans.
- **Pre-Filters:** Includes two machine-washable pre-filter cloths to prevent dust buildup and extend the carbon filter's efficacy.



Figure 1: Main view of the AC Infinity Air Carbon Filter 6 inch.

## PREMIUM CARBON FILTER

A high-airflow filter designed to use activated charcoal to eliminate odors and chemicals. Popular in various applications requiring ventilation such as hydroponics.

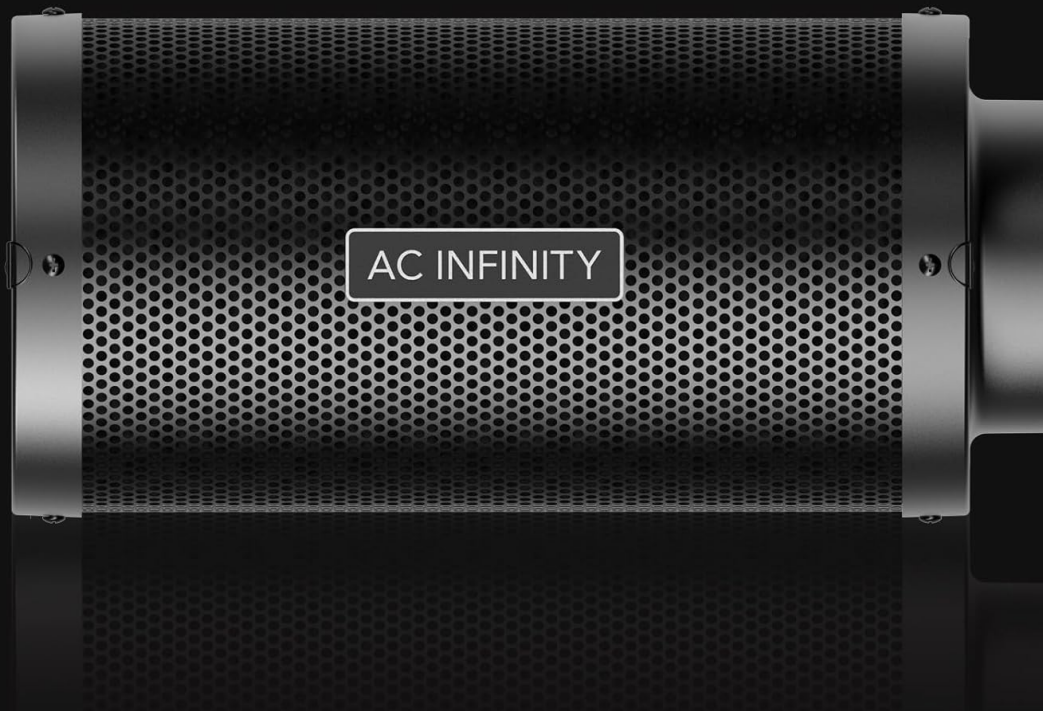


Figure 2: The filter utilizes activated charcoal to eliminate odors and chemicals, suitable for hydroponics and other ventilation applications.

## 2. COMPONENTS INCLUDED

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Your AC Infinity Air Carbon Filter package includes the following items:

- 1 x AC Infinity Air Carbon Filter 6"
- 2 x Hanging Straps
- 2 x Rope Clip Hangers
- 2 x Machine-Washable Pre-Filter Cloths

## PRE-FILTERS & HANGING SUPPORT

Includes two rope clip hangers and two hanging straps, plus two machine-washable prefilter cloths to block dust from entering the charcoal bed.

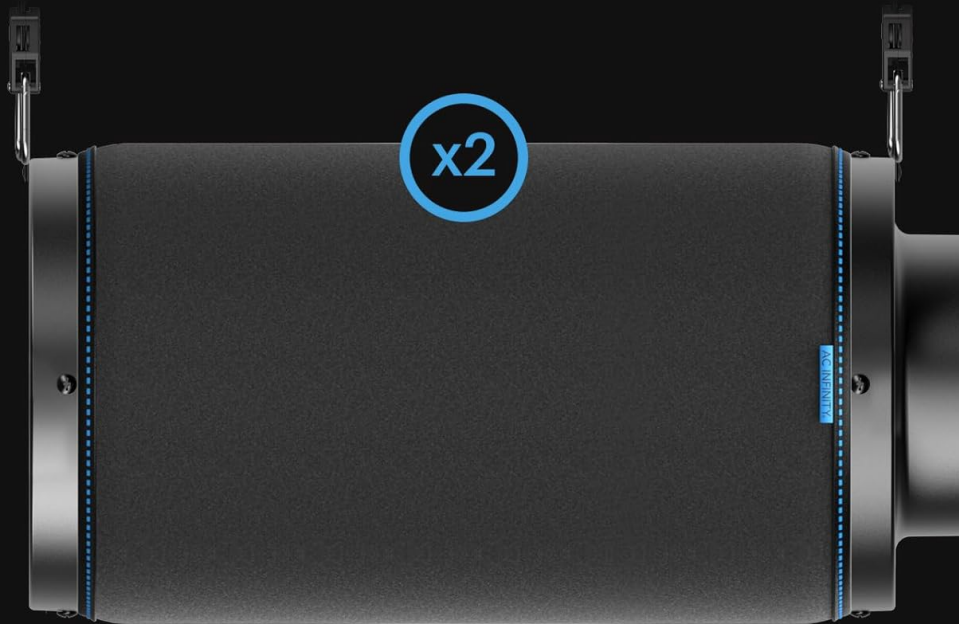


Figure 3: The filter comes with two pre-filters and hanging accessories for installation.

### 3. SETUP AND INSTALLATION

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Proper installation ensures optimal performance and longevity of your carbon filter.

#### 3.1 Preparing the Filter

1. Unpack the carbon filter and all included accessories.
2. Ensure the pre-filter cloth is securely wrapped around the carbon filter. This prevents larger dust particles from clogging the charcoal bed.

#### 3.2 Connecting to an Inline Duct Fan

The carbon filter can be used as either an intake or exhaust filter, depending on your ventilation system's requirements. Its aluminum flanges are reversible for flexible installation.

1. Connect one end of the carbon filter to your inline duct fan using appropriate ducting and clamps (not included). Ensure a tight seal to prevent air leaks.
2. The filter can be positioned before the fan (intake) to filter incoming air or after the fan (exhaust) to filter outgoing air.

## HIGH QUALITY BUILD

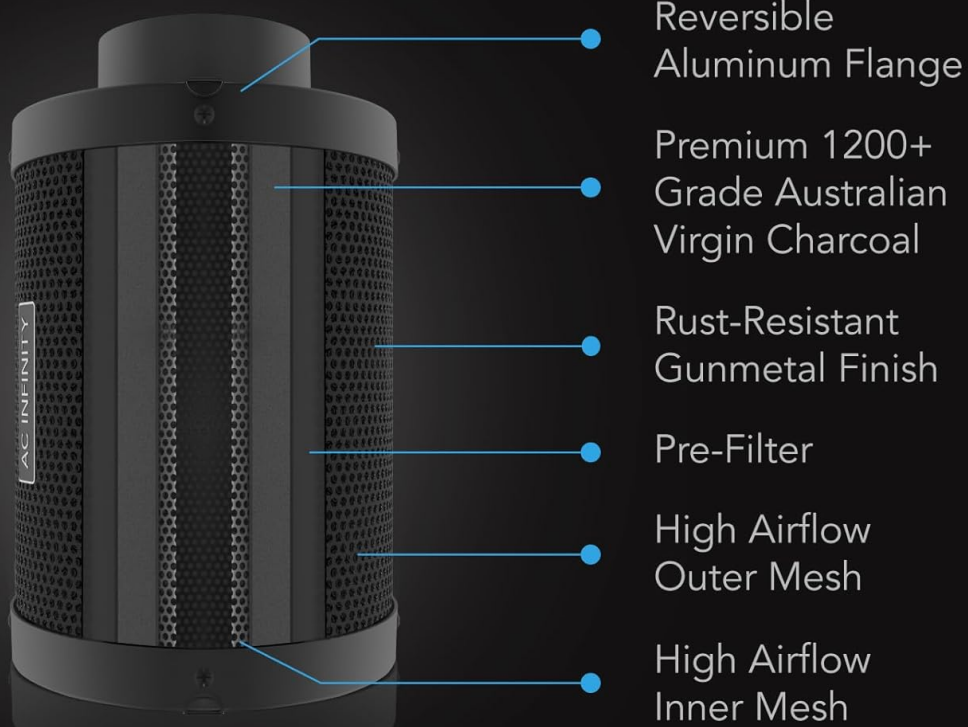


Figure 4: Internal components of the filter, including reversible aluminum flange, premium charcoal, rust-resistant finish, pre-filter, and high airflow mesh.

## RUST RESISTANT

Galvanized steel mesh is safeguarded by a highly durable gunmetal finish for even greater protection against corrosion and extreme humidity.



Figure 5: The galvanized steel mesh and durable gunmetal finish provide protection against corrosion and humidity.



## DUAL PURPOSE

The carbon filter can be used in conjunction with an inline duct fan as an intake or exhaust configuration.



Figure 6: The carbon filter can be configured as an exhaust filter (left) or an intake filter (right) within a ventilation system.

### 3.3 Hanging the Filter

Use the provided hanging straps and rope clip hangers to suspend the filter securely within your grow tent or ventilation area.

1. Attach the hanging straps to the designated points on the filter.
2. Use the rope clip hangers to suspend the filter from a sturdy support structure. Ensure the filter is level and stable.



Figure 7: An example of the carbon filter installed within a grow tent, connected to an inline duct fan.

## 4. OPERATING INSTRUCTIONS

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Once installed, the carbon filter operates passively in conjunction with your inline duct fan. Ensure your fan is running to draw air through the filter.

- **Airflow:** The filter is designed for high airflow, allowing your inline fan to operate efficiently while scrubbing the air.
- **Odor Control:** The activated charcoal will continuously adsorb odors and volatile organic compounds (VOCs) from the air passing through it.
- **Pre-Filter Function:** The outer pre-filter protects the charcoal bed from dust and debris, maintaining the filter's effectiveness.

## 5. MAINTENANCE

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Regular maintenance ensures the continued efficiency and lifespan of your carbon filter.

### 5.1 Pre-Filter Cleaning

The included pre-filter cloths are machine-washable. Clean them periodically to prevent dust buildup, which can restrict airflow and reduce the carbon filter's performance.



1. Carefully remove the pre-filter cloth from the carbon filter.
2. Wash the pre-filter cloth in a washing machine with mild detergent or hand wash it.
3. Allow the pre-filter to air dry completely before reattaching it to the carbon filter.

### 5.2 Carbon Filter Replacement

The lifespan of the activated charcoal depends on usage and air quality. When you notice a decrease in odor control effectiveness, it is time to replace the carbon filter. AC Infinity recommends replacing the filter every 1-2 years under normal operating conditions, or sooner if strong odors persist.

## 6. TROUBLESHOOTING

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If you encounter issues with your carbon filter, refer to the following common problems and solutions:

- **Reduced Airflow:**
  - Check if the pre-filter is dirty and needs cleaning.
  - Ensure all ducting connections are secure and free of obstructions.
  - Verify that your inline duct fan is operating correctly.
- **Persistent Odors:**
  - The carbon filter may have reached the end of its effective lifespan and requires replacement.
  - Ensure the filter is appropriately sized for your space and fan's CFM rating.
  - Check for air leaks in your ventilation system that might bypass the filter.

## 7. SPECIFICATIONS

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Detailed specifications for the AC Infinity Air Carbon Filter 6" (Model AC-DCF6):

Model	AC-DCF6
Duct Opening	6 inches (Ø6")
Length	16 inches (40.0 cm)
Product Dimensions	8.93 x 8.93 x 15.94 inches (22.7 x 22.7 x 40.5 cm)
Item Weight	10.18 pounds (4.63 kg)
Max Airflow Rating	410 CFM
Carbon Type	Australian RC412 Virgin Charcoal (1200+ IAV)
Carbon Thickness	38mm
Material	Alloy Steel, Aluminum
UPC	819137020672

# SPECIFICATIONS

MODEL | FILTER 6 (AC-DCF6)  
DUCT OPENING | Ø6"  
MAX AIRFLOW | 410 CFM

FILTER | Australian Charcoal  
GRADE | 1200+  
MATERIAL | Stainless Steel



Figure 8: Visual representation of the filter's dimensions and key specifications.

## 8. WARRANTY AND SUPPORT




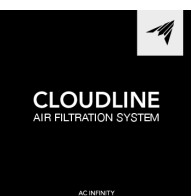

AC Infinity products are designed for durability and performance. For specific warranty terms and conditions, please refer to the official AC Infinity website or contact their customer support.

For further assistance or to explore other AC Infinity products, please visit the official AC Infinity store:

[Visit the AC Infinity Store](#)

### Related Documents - AC-DCF6

	<p><a href="#">AC Infinity Duct Carbon Filter User Manual and Guide</a></p> <p>Comprehensive user manual for the AC Infinity Duct Carbon Filter, featuring premium Australian charcoal for effective odor control. Includes installation, configuration, maintenance, product details, and warranty information.</p>
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	<p><a href="#">AC Infinity Duct Carbon Filter User Manual - Premium Australian Charcoal</a></p> <p>User manual for the AC Infinity Duct Carbon Filter featuring premium Australian charcoal. Includes product details, key features, installation guide, maintenance instructions, and warranty information.</p>
	<p><a href="#">AC Infinity Duct Carbon Filter User Manual</a></p> <p>User manual for the AC Infinity Duct Carbon Filter featuring premium Australian charcoal. Includes product details, key features, installation instructions, maintenance guidelines, and warranty information.</p>
	<p><a href="#">AC Infinity Duct Carbon Filter XL User Manual</a></p> <p>User manual for the AC Infinity Duct Carbon Filter XL, featuring premium Australian charcoal for odor control and air purification. Includes installation, maintenance, and warranty information.</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>
	<p><a href="#">AC Infinity CLOUDLINE Air Filtration System User Manual   Installation, Features, and FAQ</a></p> <p>Comprehensive user manual for the AC Infinity CLOUDLINE Air Filtration System. Learn about key features, installation guides (hanging, mounting, filter &amp; ducting), powering, controller upgrades, cleaning, programming, troubleshooting (FAQ), warranty, and other AC Infinity products.</p>

Documents - AC Infinity – AC-DCF6



[AC Infinity Duct Carbon Filter User Manual](#)

User manual for the AC Infinity Duct Carbon Filter featuring premium Australian charcoal. Includes product details, key features, installation instructions, maintenance guidelines, and warranty information.

lang:en score:32 filesize: 872.19 K page\_count: 16 document date: 2020-09-14



[AC Infinity Duct Carbon Filter User Manual - Premium Australian Charcoal](#)

User manual for the AC Infinity Duct Carbon Filter featuring premium Australian charcoal. Includes product details, key features, installation guide, maintenance instructions, and warranty information.

lang:en score:31 filesize: 873.47 K page\_count: 16 document date: 2020-09-14



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lang:en **score:31** filesize: 873.8 K page\_count: 24 document date: 2022-08-05



[AC Infinity Duct Carbon Filter User Manual and Guide](#)

Comprehensive user manual for the AC Infinity Duct Carbon Filter, featuring premium Australian charcoal for effective odor control. Includes installation, configuration, maintenance, product details, and warranty information.

lang:en **score:29** filesize: 873.8 K page\_count: 24 document date: 2022-08-05



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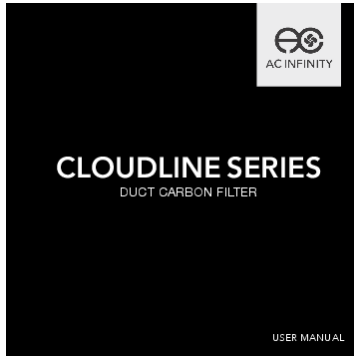
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[AC Infinity Duct Carbon Filter XL User Manual](#)

User manual for the AC Infinity Duct Carbon Filter XL, featuring premium Australian charcoal for odor control and air purification. Includes installation, maintenance, and warranty information.

lang:en **score:26** filesize: 840.16 K page\_count: 24 document date: 2023-03-29



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