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> VIVOSUN 4 Inch Air Carbon Filter Instruction Manual

## VIVOSUN 4316274413

# VIVOSUN 4 Inch Air Carbon Filter Instruction Manual

Model: 4316274413

Brand: VIVOSUN

## 1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your VIVOSUN 4 Inch Air Carbon Filter. Designed for effective odor control and air purification, this filter is ideal for use in indoor grow tents, hydroponics rooms, kitchens, and basements. Please read this manual thoroughly before use to ensure proper function and longevity of your product.



Figure 1: VIVOSUN 4 Inch Air Carbon Filter

## 2. PRODUCT FEATURES

- **Excellent Odor Control:** Made of premium RC 412 Australian Virgin charcoal at 1200+ IAV, effectively eliminates pungent smells and chemicals. The 38mm thick charcoal bed with high microporosity ensures high absorption.
- **Unique Design:** Features dual-sided galvanized steel mesh with a round hole design, increasing open area for maximum airflow (223 CFM). The lengthened carbon canister enables a higher filtration rate.
- **Versatile Applications:** Effective for eliminating odors and gaseous compounds in indoor grow tents, hydroponics rooms, kitchens, or basements.
- **Reversible Flange and Base:** Heavy-duty iron flange and base can be exchanged to reverse the charcoal canister for exhaustive smell filtration, prolonging the filter's service life.
- **Compatible Function:** Works seamlessly with a 4-inch inline duct fan for both intake and exhaust ventilation systems. Includes a pair of belts for convenient assembly in grow tents.
- **Pre-filter Included:** A detachable pre-filter cloth is included to block 99% of particles, keeping the filter clean and extending its lifespan.

# Carbon Filter Feature

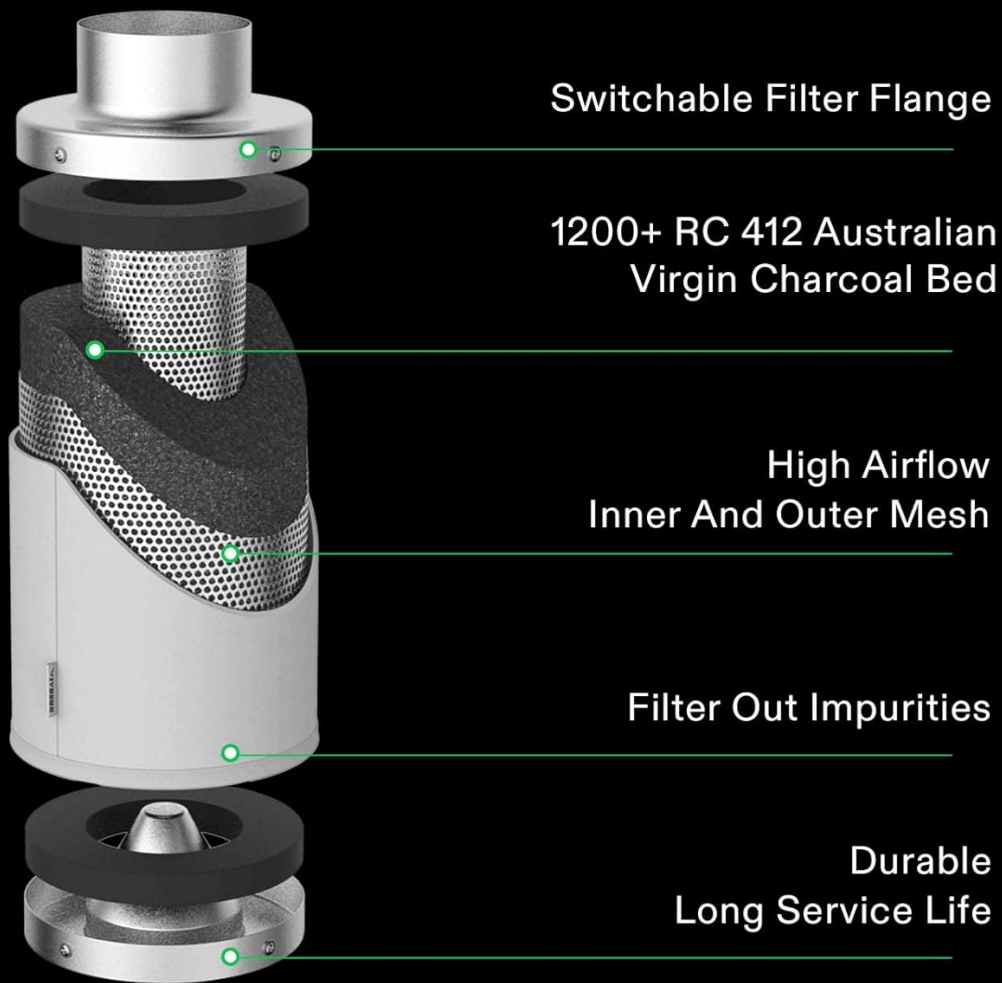


Figure 2: Carbon Filter Internal Features - Illustrates the switchable filter flange, 1200+ RC 412 Australian Virgin Charcoal bed, high airflow inner and outer mesh, and durable long service life components.

# Activated Carbon Super Filtration

## Imported Virgin Australian Activated Charcoal



Good Filterability

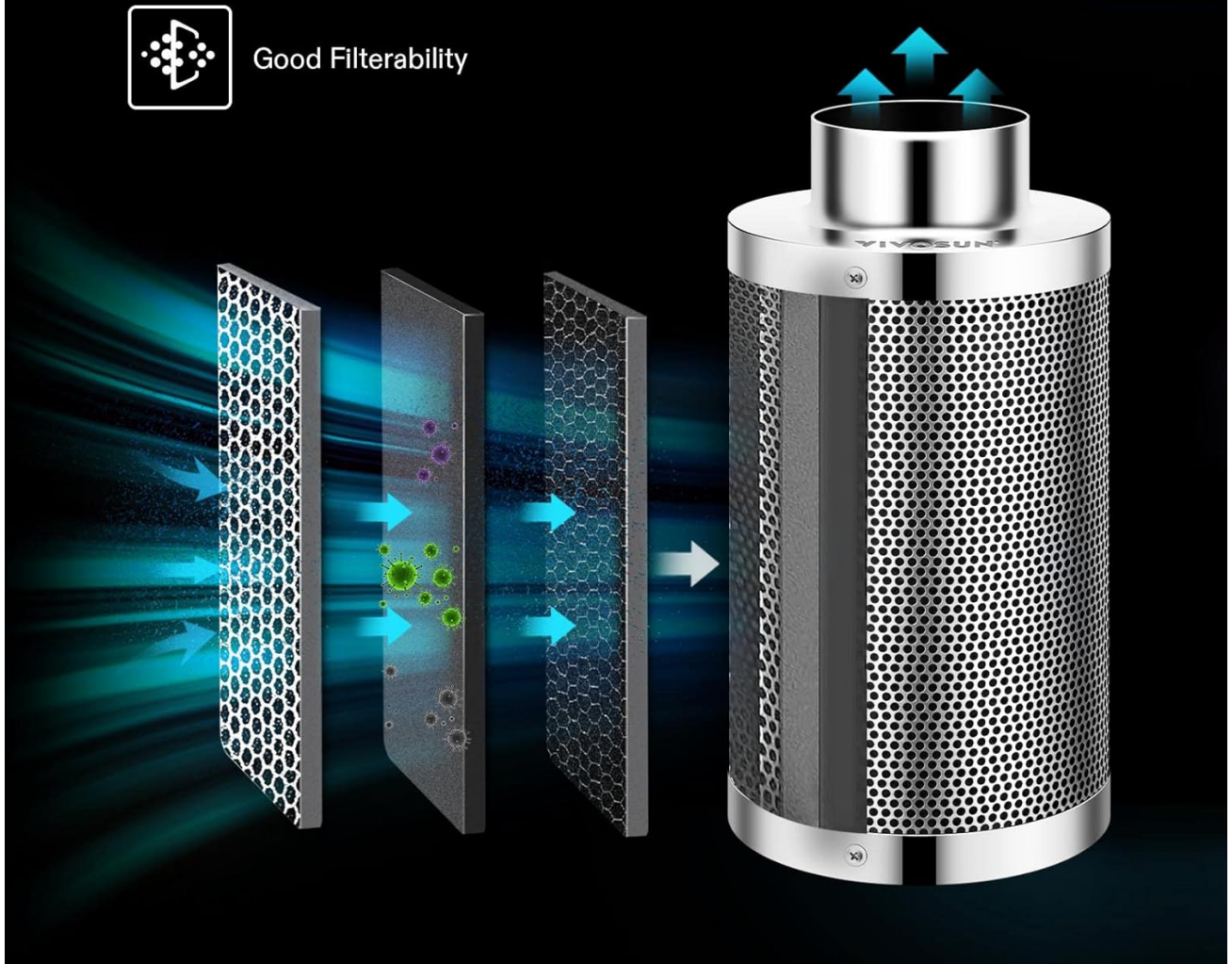


Figure 3: Activated Carbon Super Filtration - Shows the multi-layer filtration process with imported Virgin Australian Activated Charcoal for good filterability.

### 3. COMPONENTS

Your VIVOSUN 4 Inch Air Carbon Filter package includes the following:

- 1 x VIVOSUN 4 Inch Air Carbon Filter Unit
- 1 x Detachable Pre-filter Cloth
- 1 x Pair of Hanging Belts

# Pre-filter Included

Includes a pre-filter cloth to prevent the air carbon filter from being clogged.



Figure 4: Included Components and Dimensions - Displays the carbon filter unit, pre-filter, and carbon filter belt, along with key dimensions.

## 4. SETUP AND INSTALLATION

The VIVOSUN Air Carbon Filter is designed for easy integration into various ventilation systems. Follow these steps for proper setup:

- 1. Attach Pre-filter:** Carefully slide the included pre-filter cloth over the main carbon filter unit. Ensure it covers the entire mesh surface evenly. This pre-filter helps capture larger particles and extends the life of the carbon.
- 2. Connect to Inline Fan:** Securely connect one end of the carbon filter to your 4-inch inline duct fan using appropriate ducting and clamps (not included). Ensure a tight seal to prevent air leaks.
- 3. Positioning:**
  - **Inside Grow Tent:** The filter and fan can be placed inside the grow tent, typically suspended from the tent's support bars. Use the provided hanging belts for secure mounting.
  - **Outside Grow Tent:** Alternatively, the fan and filter can be placed outside the tent, with ducting running into

and out of the tent.

4. **Ducting Connection:** Connect the other end of the filter/fan assembly to your exhaust or intake ducting, depending on your system configuration.
5. **Secure Installation:** Use the provided hanging belts to securely suspend the filter and fan assembly from sturdy support structures within your grow tent or room. Ensure the setup is stable and balanced.



Figure 5: Typical Ventilation System Setup - Illustrates the connection between VIVOSUN Ducting, Inline Fan, and Carbon Filter for efficient air movement.

## Versatile Applications

Effective to eliminate odors and gaseous compounds for indoor grow tent, hydroponics room, kitchen or basement



Grow Tent



Grow Rooms



Hydroponics System

Figure 6: Installation Options - Shows various configurations for placing the fan and filter inside or outside the grow tent.

### Installation Video Guide

Video 1: VIVOSUN Carbon Filter Installation - This official VIVOSUN video demonstrates the setup and installation process of the carbon filter within a grow tent environment.

## 5. OPERATING INSTRUCTIONS

The VIVOSUN Air Carbon Filter operates by drawing air through its activated carbon bed, which absorbs odors and impurities. It can be configured for both intake and exhaust functions:

- **Exhaust Filter (Odor Removal):** When used as an exhaust filter, the fan pulls air from the grow space through the carbon filter and expels purified air outside. This is the most common application for odor control. Ensure the pre-filter is on the outside of the carbon filter for this configuration.
- **Intake Filter (Air Purification):** When used as an intake filter, the fan pulls fresh air from outside through the carbon filter into the grow space, purifying incoming air. For this setup, the pre-filter should be placed inside the carbon filter.

Ensure your inline fan is properly connected and powered on to initiate airflow through the carbon filter. The filter works continuously as long as air passes through it.

# Air Carbon Filter Features

Used as Intake Filter

To Suck In Odor



Used as Exhaust Filter

To Emit Fresh Air



Figure 7: Intake vs. Exhaust Configuration - Illustrates how the carbon filter can be used to suck in odor (intake) or emit fresh air (exhaust).

## 6. MAINTENANCE

Regular maintenance ensures optimal performance and extends the lifespan of your VIVOSUN Air Carbon Filter.

- 1. Pre-filter Cleaning/Replacement:** The detachable pre-filter cloth should be regularly inspected for dust and debris buildup. It is recommended to clean or replace the pre-filter every 6 months, or more frequently depending on the air quality of your environment. The pre-filter can be gently hand-washed with mild soap and water, then air-dried completely before reinstallation.
- 2. Carbon Canister Reversal:** To prolong the filter's service life and ensure exhaustive smell filtration, the heavy-duty iron flange and base can be exchanged to reverse the charcoal canister. This allows for even usage of the activated carbon.
- 3. Carbon Replacement:** The activated carbon inside the filter has a finite lifespan. When you notice a decrease in odor control effectiveness, it indicates that the carbon is saturated and needs replacement. The frequency of

carbon replacement depends on usage and air contaminants.

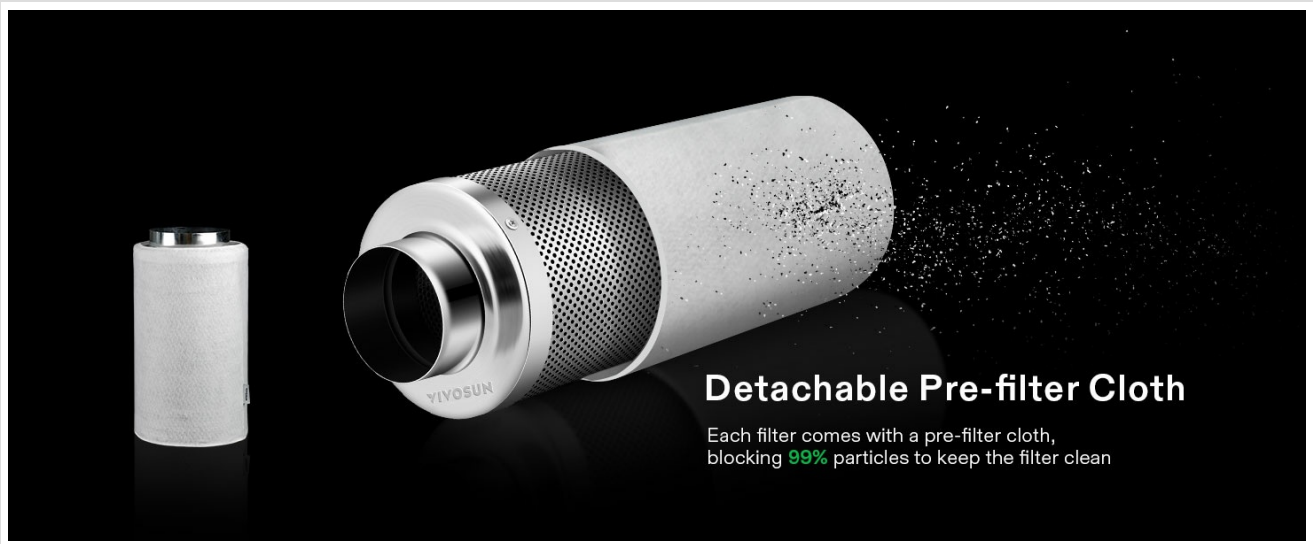


Figure 8: Detachable Pre-filter Cloth - Shows how the pre-filter can be removed for cleaning or replacement.



Figure 9: Reversible Flange and Base - Illustrates how the filter can be reversed to extend its service life.

## 7. TROUBLESHOOTING

If you encounter issues with your VIVOSUN Air Carbon Filter, refer to the common problems and solutions below:

Problem	Possible Cause	Solution
Reduced Odor Control	Saturated activated carbon; Clogged pre-filter; Air leaks in ducting.	Replace activated carbon; Clean or replace pre-filter; Check all ducting connections and seal any leaks.
Low Airflow	Clogged pre-filter; Incorrect fan speed setting; Obstruction in ducting.	Clean or replace pre-filter; Adjust fan speed; Inspect ducting for kinks or blockages.
Unusual Noise	Loose connections; Fan vibration; Filter not securely mounted.	Tighten all clamps and connections; Ensure fan is properly balanced; Securely mount the filter using hanging belts.

## 8. SPECIFICATIONS

Attribute	Value
Product Dimensions	4 x 4 x 14 inches (10.16 x 10.16 x 35.56 cm)
Item Weight	4.8 pounds (2.18 kg)

Attribute	Value
Manufacturer	VIVOSUN
Model Number	4316274413
Material	Australian Activated Charcoal
Compatible Devices	Inline Duct Fan, Grow Tent
UPC	714119464089

## 9. WARRANTY AND SUPPORT

VIVOSUN products are manufactured to high-quality standards. For warranty information, technical support, or any inquiries regarding your VIVOSUN Air Carbon Filter, please refer to the official VIVOSUN website or contact their customer service directly. Keep your purchase receipt for warranty claims.

For more information, visit the official [VIVOSUN Store](#).