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### TerraBloom ECMF-315-HVI, CF-1224, 12x8 Black Duct

# TerraBloom 12-inch Grow Room Ventilation Combo User Manual

Model: ECMF-315-HVI EC Duct Fan, CF-1224 Carbon Filter, 12x8 Black Duct

## PRODUCT OVERVIEW

The TerraBloom 12-inch (315mm) Grow Room Ventilation Combo is designed for efficient air circulation and purification in indoor grow facilities, vertical farms, and various air filtration applications. This comprehensive kit includes a high-performance EC Duct Fan, a premium Activated Air Carbon Filter, and lightproof ducting, providing a complete solution for maintaining optimal environmental conditions.



**Figure 1:** The TerraBloom 12-inch Grow Room Ventilation Combo, featuring the EC Duct Fan, Carbon Filter, and digital speed controller. This system is designed for comprehensive air management.

## SETUP AND INSTALLATION

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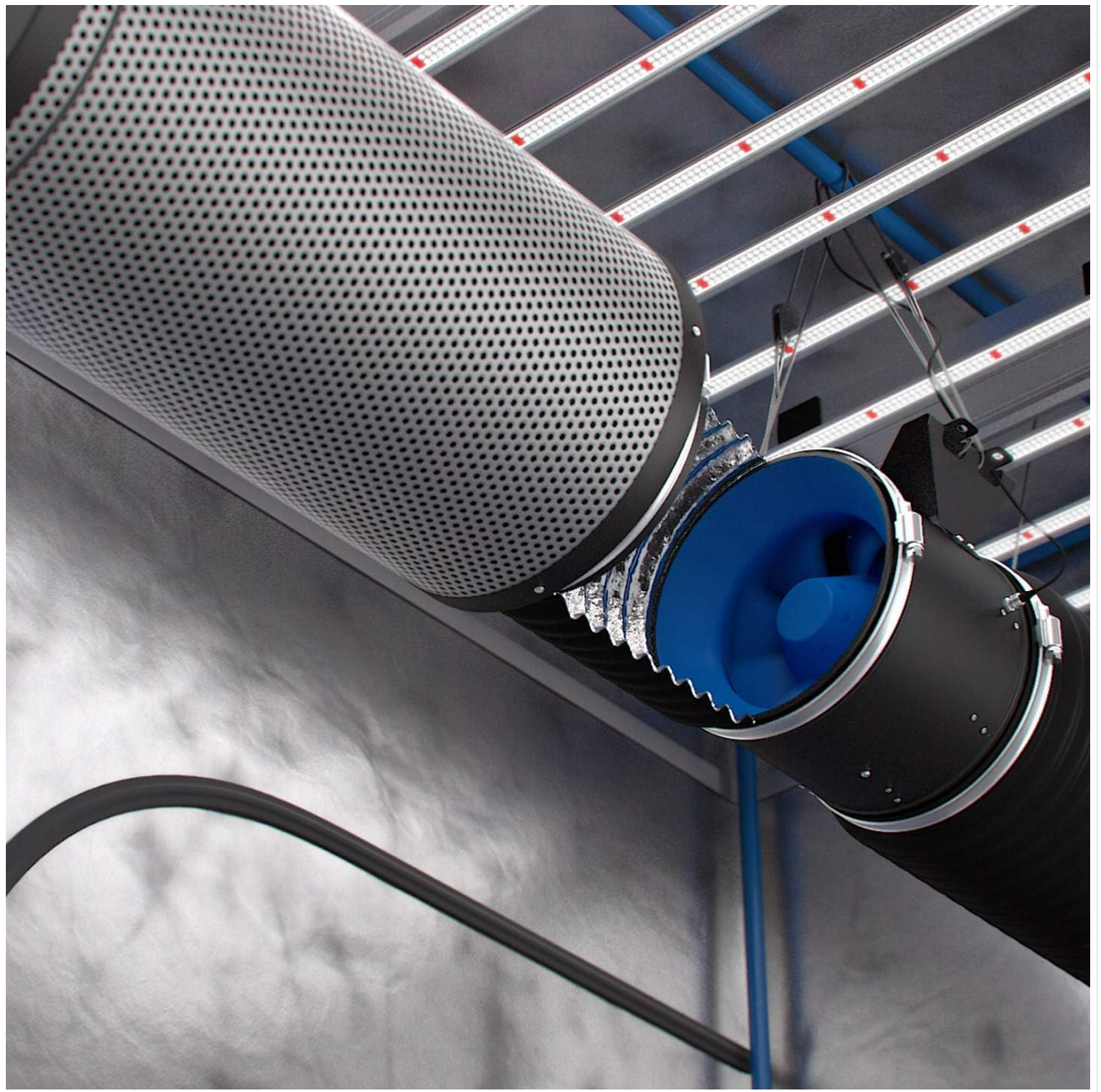
Proper installation is crucial for the optimal performance and longevity of your ventilation system. Follow these steps carefully.

### Components Included:

- 12-inch EC Duct Fan (Model: ECMF-315-HVI)
- 12x24 Premium Activated Air Carbon Filter (Model: CF-1224)
- 12-inch x 8 Ft Lightproof Ducting
- Duct Clamps (2 included)
- Digital Speed Controller

## Installation Steps:

1. **Positioning:** Determine the ideal location for your fan and filter within your grow room or ventilation area. Ensure adequate space for airflow and maintenance. The fan can be mounted horizontally or vertically.
2. **Connecting Fan to Filter:** Attach one end of the 12-inch lightproof ducting to the outlet of the EC Duct Fan and the other end to the inlet of the Carbon Filter. Secure both connections tightly using the provided duct clamps to prevent air leaks.



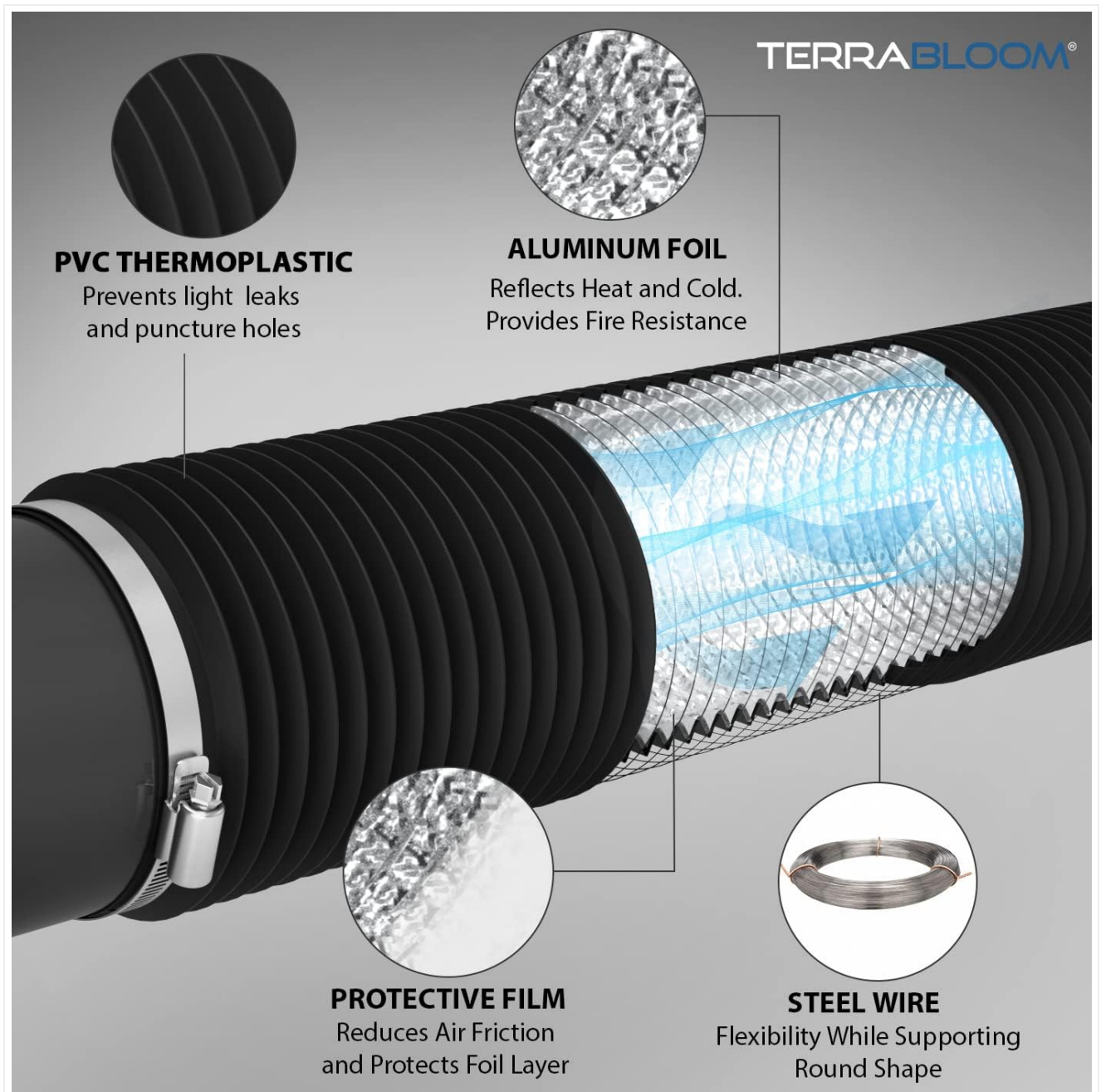
**Figure 2:** Example of the EC Duct Fan connected to the Carbon Filter using the lightproof ducting. Ensure all connections are sealed.

3. **Ducting Connection:** If extending the exhaust or intake, connect additional ducting as needed. The included 8 ft lightproof ducting is designed for durability and light blockage.





**Figure 3:** The 12-inch x 8 ft lightproof ducting and included duct clamps, essential for secure and light-tight connections.



**Figure 4:** Cross-section view of the ducting, highlighting its PVC thermoplastic outer layer, aluminum foil inner layer for heat reflection and fire resistance, protective film, and steel wire spiral for shape retention.

4. **Mounting:** Securely mount the fan and filter assembly using appropriate hangers or supports. Ensure the setup is stable and vibrations are minimized.
5. **Power Connection:** Connect the EC Duct Fan to a standard electrical outlet. Ensure the power source matches the fan's requirements.

## OPERATING INSTRUCTIONS

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The TerraBloom EC Duct Fan is controlled via a digital speed controller, offering precise airflow management.

### Fan Control:

- The fan features an 8-speed digital controller with a 0-100% variable dial.
- Adjust the dial to set the desired fan speed and airflow.
- The EC motor ensures efficient operation across all speed settings, avoiding energy waste at lower speeds.

## Recommended Uses:

- **Air Circulation:** Maintain consistent air movement within enclosed spaces.
- **Odor and Smoke Exhaust:** Effectively remove unwanted odors and smoke.
- **Fresh Air Intake:** Introduce fresh air from outdoors into the controlled environment.
- **Drying Applications:** Facilitate drying processes by moving large volumes of air.
- **Negative Pressure Environments:** Create and maintain negative pressure for specific applications.



**Figure 5:** Illustration demonstrating the dual functionality of carbon filters for both exhaust and intake airflow, ensuring comprehensive air purification.

## MAINTENANCE

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Regular maintenance ensures the efficiency and extends the lifespan of your TerraBloom ventilation system.

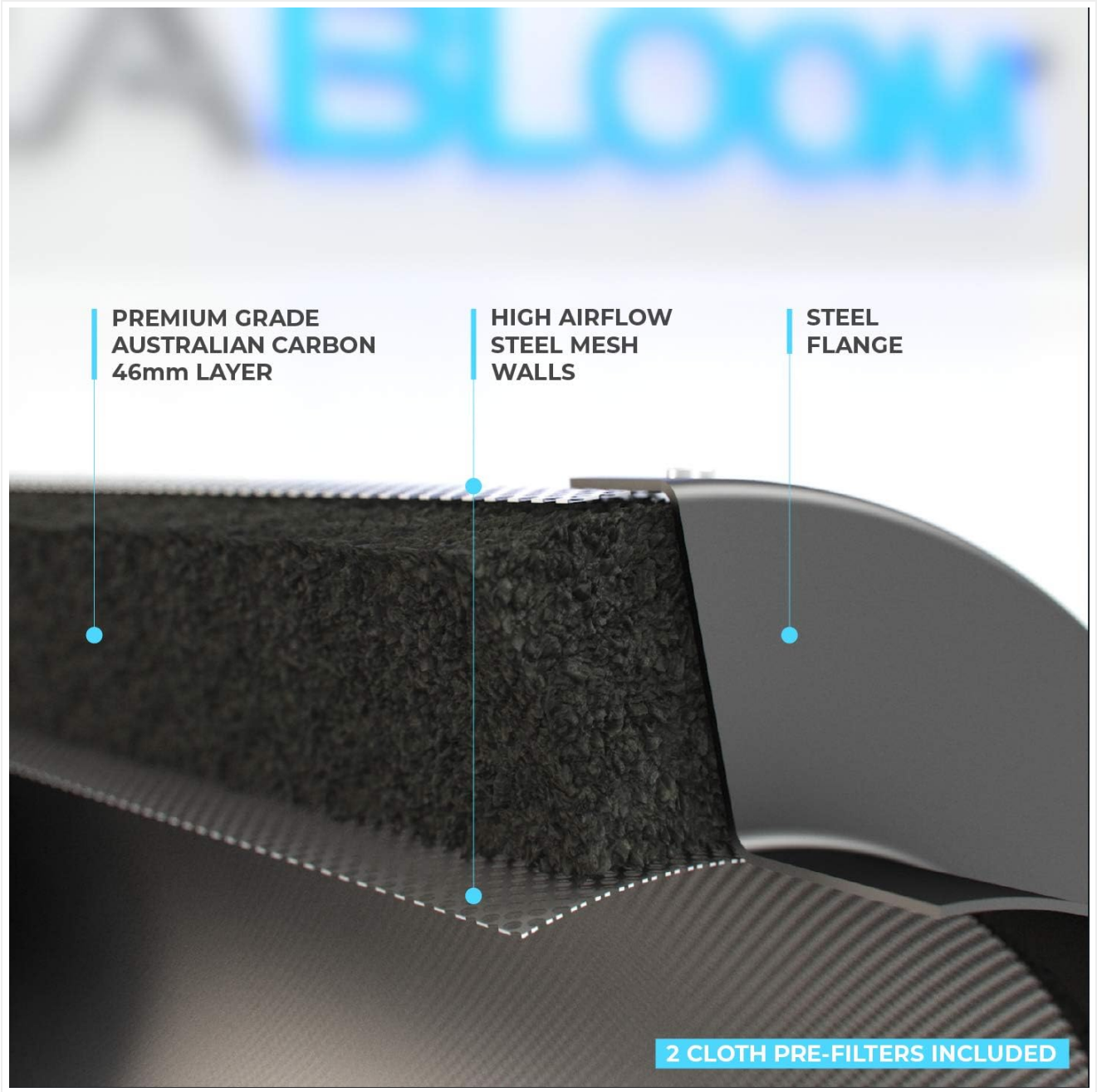
### Carbon Filter Maintenance:

- The CF-1224 Carbon Filter features a 1.8-inch (46mm) deep carbon bed for extended life and superior filtration.
- **Pre-filters:** The carbon filter includes two cloth pre-filters. Regularly inspect and clean or replace these pre-filters to prevent



dust and debris from clogging the carbon bed. This will significantly extend the life of the carbon filter.

- **Replacement:** The lifespan of the carbon filter depends on usage and air quality. Replace the filter when odor filtration effectiveness decreases.



**Figure 6:** Detailed cross-section of the carbon filter, showing the premium grade Australian carbon layer, high airflow steel mesh walls, steel flange, and the location of the two cloth pre-filters.

**Fan Maintenance:**

- Periodically inspect the fan blades for dust and debris buildup.
- Disconnect power before cleaning. Use a soft brush or cloth to gently clean the blades and housing.
- Ensure all connections remain secure.

**TROUBLESHOOTING**

If you encounter issues with your TerraBloom ventilation system, refer to the following common problems and solutions.

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Fan not turning on.	No power, loose connection, controller issue.	Check power outlet. Ensure all cables are securely connected. Verify controller settings.
Reduced airflow.	Clogged filter, obstructed ducting, fan speed too low.	Clean or replace carbon filter pre-filters. Check ducting for kinks or blockages. Increase fan speed via controller.
Unusual noise from fan.	Loose mounting, debris in fan blades, motor issue.	Ensure fan is securely mounted. Disconnect power and inspect blades for foreign objects. If noise persists, contact support.
Odor not being filtered.	Carbon filter exhausted, pre-filter clogged, air leaks.	Replace carbon filter. Clean or replace pre-filter. Check all ducting connections for leaks and seal them.

## TECHNICAL SPECIFICATIONS

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### EC Duct Fan (Model: ECMF-315-HVI)



# FAN DETAILS

**MODEL ECMF-315**  
**DUCT DIAMETER 12.3" (313mm OD)**  
**AIRFLOW/MAX POWER**  
**CONSUMPTION 1700 CFM/ 260W**

**STATIC PRESSURE 500 Pa (2 in W.G.)**  
**SPEED CONTROLLER DIGITAL 8-SPEED**  
**AND VARIABLE DIAL (0-100% RANGE)**  
**CASE MATERIAL COLD ROLLED STEEL**



**Figure 7:** Detailed specifications and dimensions for the TerraBloom ECMF-315 EC Duct Fan, including airflow, power consumption, static pressure, and physical measurements.

- **Model:** ECMF-315-HVI
- **Duct Diameter:** 12.3 inches (313mm OD)
- **Airflow/Max Power:** 1662 CFM / 260 Watts (at 0" w.g. static pressure)
- **Static Pressure:** 500 Pa (2 in W.G.)
- **Speed Controller:** Digital 8-speed and Variable Dial (0-100% range)
- **Motor Type:** Brushless EC Motor
- **Blade Type:** Dual Jet Blades (Plastic)
- **Case Material:** Cold Rolled Steel
- **Recommended Use:** Drying, Exhausting, Air Filtration
- **Indoor/Outdoor Usage:** Indoor
- **Control Method:** App (as per product specifications)

## Carbon Filter (Model: CF-1224)

# FILTER DETAIL

**MODEL TB-CF-1224**  
**DUCT OPENING 12.4" (315mm)**  
**LENGTH 24"**

**MEDIUM PREMIUM AUSTRALIAN CHARCOAL**  
**GRADE RC-48 (1050+ mg/g ID)**  
**MATERIAL STAINLESS STEEL, ALLUMINUM**



**Figure 8:** Detailed specifications and dimensions for the TerraBloom CF-1224 Carbon Filter, including its material, carbon grade, and physical measurements.

- **Model:** CF-1224
- **Duct Opening:** 12.4 inches (315mm)
- **Length:** 24 inches
- **Carbon Bed Depth:** 1.8 inches (46mm)
- **Carbon Grade:** Medium Premium Australian Charcoal Grade RC-48 (1050+ mg/g ID)
- **Material:** Stainless Steel, Aluminum
- **Pre-filters:** 2 Cloth Pre-filters Included

**Lightproof Ducting (Model: 12x8 Black Duct)**

# DUCT DETAILS

**MODEL 12x8 BLACK DUCT**  
**DUCT DIAMETER 12.4 INCH**  
**LENGTH 8 FT**

**MATERIAL PVC, LIGHTPROOF**  
**INNER MATERIAL ALUMINUM FOIL**  
**STRUCTURE STEEL WIRE SPIRAL**



**Figure 9:** Detailed specifications and dimensions for the 12x8 Black Duct, including its material composition and length.

- **Model:** 12x8 Black Duct
- **Duct Diameter:** 12.4 inches (316mm ID)
- **Length:** 8 Ft (2.4 m)
- **Material:** PVC, Lightproof
- **Inner Material:** Aluminum Foil
- **Structure:** Steel Wire Spiral



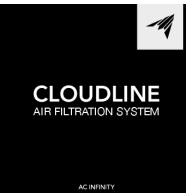



## WARRANTY AND SUPPORT

For information regarding product warranty, technical support, or replacement parts, please refer to the official TerraBloom website or contact their customer service directly.

**Contact Information:** Please visit [TerraBloom's Amazon Store](#) or their official website for the most up-to-date support resources.



## Related Documents - ECMF-315-HVI, CF-1224, 12x8 Black Duct

	<a href="#">TerraBloom Carbon Filters User Manual</a> User manual for TerraBloom Carbon Filters, detailing product features, application tips, performance data, and installation instructions. Includes information on recommended fan pairings and maintenance.
	<a href="#">TerraBloom Carbon Filters User Manual</a> User manual for TerraBloom Carbon Filters, detailing product features, application tips, performance data, and installation instructions. Includes information on recommended fan pairings and maintenance.
	<a href="#">AC Infinity CLOUDLINE Air Filtration System Manual - Installation &amp; Operation Guide</a> 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.
	<a href="#">iPower Inline Duct Fan and Variable Speed Controller Instruction Manual</a> User manual for the iPower 4 Inch 230 CFM Inline Duct Fan and 350W Variable Speed Controller, detailing operating instructions, safety precautions, and warranty information for grow room ventilation systems.
	<a href="#">Heat Pump Water Heater Ducting Kit Installation Instructions</a> This document provides installation instructions for the Heat Pump Water Heater Ducting Kit, including safety precautions, parts included, tools needed, clearances, ducting length guidelines, and step-by-step installation procedures.
	<a href="#">AC Infinity Duct Carbon Filter User Manual - Premium Australian Charcoal</a> 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.