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MELONFARM 4"Fan+Ducting+Filter

MELONFARM 4-inch Air Filtration Kit User Manual

Model: 4"Fan+Ducting+Filter

1. Introduction

Thank you for choosing the MELONFARM 4-inch Air Filtration Kit. This kit is designed to provide efficient air cooling and filtration for various environments, including grow tents, hydroponic rooms, bathrooms, basements, and kitchens. It effectively eliminates odors and improves air circulation. This manual provides detailed instructions for the safe and proper installation, operation, and maintenance of your air filtration system.

2. Safety Information

- Always disconnect power before installation, cleaning, or maintenance.
- Ensure all electrical connections comply with local codes and regulations.
- Do not operate the fan with a damaged cord or plug.
- Keep hands and foreign objects away from the fan blades during operation.
- Install the unit in a location where it is protected from water and excessive humidity.
- This product is intended for indoor use only.

3. Package Contents

Please verify that all components are present and undamaged:

- 1 x 4-inch Inline Duct Fan
- 1 x Speed Controller
- 1 x 12-inch High Carbon Filter
- 1 x 8 Ft Ducting
- 1 x Rubber Coupler
- 2 x Hanging Hooks (for carbon filter)
- 2 x Duct Clamps

4. Components Overview

4.1 Inline Duct Fan

The inline duct fan features a powerful motor delivering up to 190 CFM airflow. It includes a deflector to focus airflow and reduce turbulent kinetic energy, along with safety nets at both ends for protection.



Image: The inline duct fan showing its stepless speed control from 0-100% and internal safety nets. It also illustrates the hanging hooks for installation.



Image: An exploded view of the inline duct fan, highlighting the internal fan blades and the protective security nets installed at both ends of the unit.

4.2 Carbon Filter

The 12-inch high carbon filter utilizes premium RC 412 Australian virgin charcoal with an IAV of 1200+ for superior odor and chemical absorption. Its unique design includes double-sided galvanized steel mesh for maximum airflow and a removable pre-filter cloth to capture particles.



Image: The carbon filter with hanging hooks, illustrating its activated carbon super filtration capability to remove odors, with green leaves symbolizing fresh air.

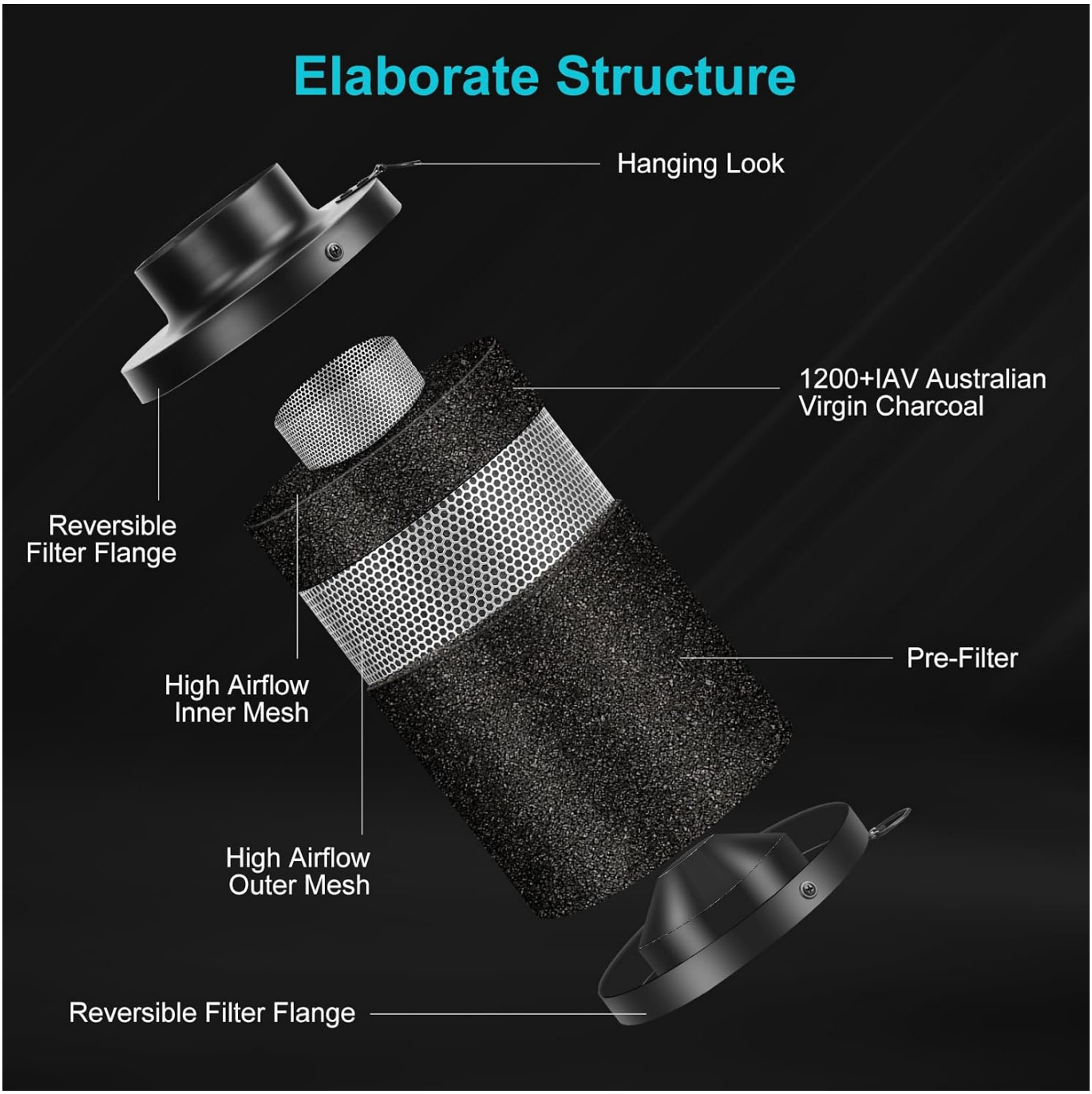


Image: An exploded diagram of the carbon filter, detailing its components: hanging loop, reversible filter flange, high airflow inner mesh, 1200+ IAV Australian Virgin Charcoal, pre-filter, and high airflow outer mesh.

4.3 Ducting & Rubber Coupler

The kit includes 8 feet of flexible ducting for directing airflow. The rubber coupler, measuring 4.53 inches, is designed with a recess to ensure a tight connection with duct clamps, effectively reducing noise generated by air movement.



Image: The rubber coupler with metal clamps, showing its rubber material for noise reduction and a recess design for secure installation.

5. Setup and Installation

Follow these steps to properly set up your MELONFARM Air Filtration Kit:

1. **Connect the Carbon Filter to the Inline Fan:** Attach one end of the carbon filter to the intake side of the inline duct fan. Use a duct clamp to secure the connection tightly.
2. **Attach Ducting:** Connect the 8 ft ducting to the exhaust side of the inline duct fan. Secure it with another duct clamp. If using the rubber coupler, attach it to the fan or filter first, then connect the ducting.
3. **Mount the System:** Use the provided hanging hooks to suspend the fan and filter assembly securely within your grow tent or desired space. Ensure it is stable and balanced.
4. **Positioning:** For optimal odor control and air circulation in a grow tent, it is generally recommended to place the carbon filter and fan at the top of the tent to extract warm, stale air. The ducting can then direct the exhausted air out of the tent.



Image: A diagram illustrating the complete air filtration kit, including the inline duct fan, carbon filter, and ducting, installed within a grow tent for optimal ventilation and odor control.

5. **Connect Speed Controller:** Plug the inline fan into the speed controller, then plug the speed controller into a power outlet.
6. **Vent Cover Installation (Optional):** If your grow tent has vent openings, consider using a grow tent vent cover to prevent dust and insects from entering while maintaining airflow.



Image: A visual representation of a grow tent vent cover, showing how it helps keep out dust and small contaminants without hindering ventilation, providing protection for plants.

6. Operating Instructions

Once installed, operating your MELONFARM Air Filtration Kit is straightforward:

1. **Power On:** Ensure the speed controller is plugged into a power source and the fan is connected to the controller.
2. **Adjust Fan Speed:** Use the dial on the speed controller to adjust the fan's airflow from 0% to 100%. Start with a lower setting and increase as needed to achieve desired ventilation and odor control.
3. **Monitor Airflow:** Observe the airflow within your space. The system should create a slight negative pressure in a sealed grow tent, drawing fresh air in through passive intakes and exhausting stale air.



Image: The inline fan in operation, demonstrating high speed, strong airflow, and low noise levels, indicating efficient performance.

7. Maintenance

Regular maintenance ensures optimal performance and extends the lifespan of your air filtration kit:

- **Pre-Filter Cleaning:** The removable pre-filter cloth should be cleaned regularly (e.g., every 2-4 weeks, depending on usage and environment). Gently remove the pre-filter and wash it with mild soap and water. Allow it to air dry completely before reattaching.
- **Carbon Filter Replacement:** The activated carbon in the filter will eventually become saturated and lose its effectiveness. The lifespan of the carbon filter varies depending on usage and air quality, typically 6-18 months. Replace the carbon filter when you notice a decrease in odor elimination.
- **Fan Cleaning:** Periodically inspect the fan blades and housing for dust and debris buildup. Disconnect power and use a soft brush or compressed air to clean the fan.
- **Ducting Inspection:** Check the ducting for any tears, kinks, or blockages that could impede airflow.

8. Troubleshooting

If you encounter issues with your air filtration kit, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Fan not turning on	No power; Loose connection; Faulty speed controller/fan	Check power outlet; Ensure all connections are secure; Test with a different outlet or contact support.
Poor odor elimination	Saturated carbon filter; Blocked pre-filter; Insufficient airflow	Replace carbon filter; Clean pre-filter; Increase fan speed or check for ducting blockages.
Excessive noise	Loose connections; Fan imbalance; Ducting vibration	Tighten all clamps and connections; Ensure fan is securely mounted; Use the rubber coupler and properly position ducting to minimize vibration.
Weak airflow	Low fan speed setting; Blocked ducting/filter; Fan motor issue	Increase fan speed; Check ducting and filter for obstructions; Clean fan blades; Contact support if motor is faulty.

9. Specifications

Feature	Specification
Brand	MELONFARM
Model Number	4"Fan+Ducting+Filter
Size	4" Kit
Material	Metal
Noise Level	26 Decibels
Air Flow Capacity	190 Cubic Feet Per Minute (CFM)
Voltage	12 Volts (DC)
Carbon Filter Type	RC 412 Australian Virgin Charcoal (IAV 1200+)
Ducting Length	8 Ft

10. Warranty and Support

MELONFARM products are manufactured to high-quality standards. For warranty information or technical support, please refer to the product packaging or contact MELONFARM customer service directly. Keep your purchase receipt for warranty claims.

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