

Spider Farmer 4CFM-200

Spider Farmer 4-Inch Air Filtration Kit User Manual

Model: 4CFM-200

INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Spider Farmer 4-Inch Air Filtration Kit. This kit is designed to provide efficient air circulation and odor control for grow tents, hydroponic systems, and other indoor gardening environments. It includes an inline duct fan, an RJ12 speed humidity controller, a carbon filter, and 13 feet of ducting.

INCLUDED COMPONENTS

- 4-Inch Inline Duct Fan
- RJ12 Speed Humidity Controller
- Carbon Filter
- 13 Ft Flexible Ducting
- Stainless Steel Clamps
- Hanging Straps

SPECIFICATIONS

Feature	Specification
Brand	Spider Farmer
Model Number	4CFM-200

Feature	Specification
Duct Size	4 Inch / 100 mm
Air Flow Capacity	205 CFM
Noise Level	26.8 dB
Power	27 Watts \pm 5%
Voltage	AC 110-240V
Frequency	50/60Hz
Fan Speed	3000 RPM
Motor Type	EC (Brushless)
Material	Metal, Plastic
Item Weight	6 Kilograms
Power Cord Length	4.9 ft (1.5m)
Fan to Controller RJ12 Cord Length	8.2 ft (2.5m)

SAFETY INSTRUCTIONS

- 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 fan and filter in a stable, secure location to prevent falling.
- Avoid exposing the controller to water or high humidity environments.

SETUP GUIDE

1. Inline Duct Fan and Carbon Filter Assembly

The inline duct fan and carbon filter work together to provide optimal air filtration. Follow these steps for assembly:

1. **Attach the Carbon Filter:** Connect one end of the carbon filter to the intake side of the inline duct fan. Secure it tightly with one of the provided stainless steel clamps.
2. **Connect Ducting:** Attach the flexible ducting to the exhaust side of the inline duct fan. Use another stainless steel clamp to ensure a secure, airtight connection.
3. **Mounting:** Use the included hanging straps to suspend the assembled fan and filter unit within your grow tent or desired ventilation area. Ensure the unit is level and securely fastened.

High Airflow and Low Noise

205
CFM



Figure 1: Overview of the Spider Farmer 4-Inch Air Filtration Kit components.

Specifications

- Duct Size: 4 Inch/100 mm
- Power: 27W \pm 5%
- Fan Speed: 3000 RPM

- Airflow: 205 CFM
- Noise: 26.8 dB(A)
- Voltage: AC 110-240V



Figure 2: Installation suggestions for setting up the ventilation system in a grow tent.

2. RJ12 Speed Humidity Controller Connection

The RJ12 Speed Humidity Controller allows for precise control over your fan's operation.

1. **Connect RJ12 Cable:** Locate the RJ12 port on the inline duct fan and on the controller. Connect the provided RJ12 cable between these two ports. No additional power cable is needed for the controller as it is powered by the inline fan.
2. **Power On:** Plug the inline fan's power cord into a suitable electrical outlet. The controller display should illuminate, indicating a successful connection.

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Video 1: Demonstrates how to connect the RJ12 cable for fan control, highlighting that no extra power wire is needed for the controller.

Compatible with GGS Controller and Power Strip

By connecting the controller or power strip through RJ12 cord, you can set the fan on the mobile APP to realize intelligent ventilation



Figure 3: The RJ12 controller connected to the inline fan, compatible with GGS controllers and power strips for intelligent ventilation.

OPERATING INSTRUCTIONS

1. Fan Operation

The inline duct fan features an energy-efficient EC motor designed for quiet and powerful performance.

- **Airflow:** Provides 205 CFM (Cubic Feet Per Minute) of airflow.
- **Noise Level:** Operates at a low noise level of 26.8 dB.
- **Speed Control:** The fan speed can be adjusted via the RJ12 controller or a compatible app.



Figure 4: The Spider Farmer 4-inch inline duct fan, a key component of the air filtration kit.

Energy Efficient EC Motor

- Maximize airflow performance with **minimal noise** levels
- Use **30%** less power as compared to the AC motor fans
- Longer lasting with a lifespan up to **50,000 hours**

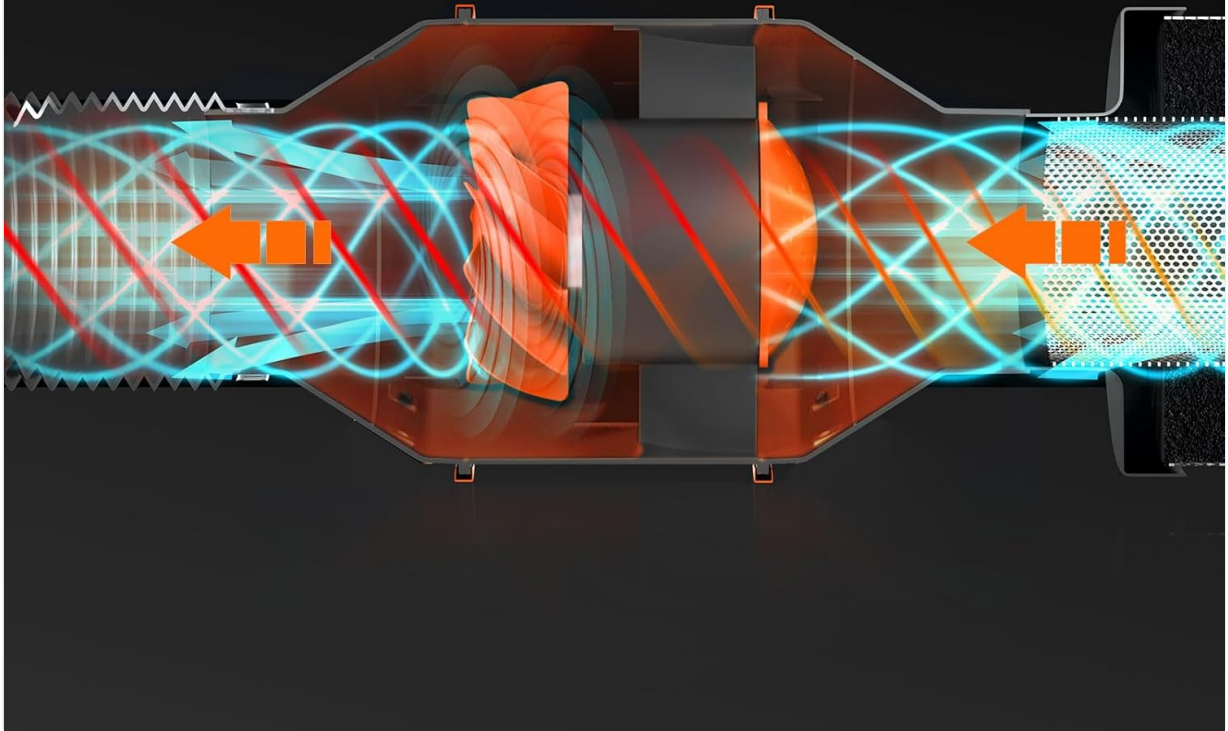


Figure 5: The fan's energy-efficient EC motor provides powerful airflow with minimal noise and a long lifespan.

2. RJ12 Speed Humidity Controller Functions

The RJ12 controller offers various modes to manage your environment:

- **Manual Mode:** Directly set the fan speed from 25% to 100%.
- **Time Slot Mode:** Schedule specific start and stop times for the fan to operate, along with desired running and standby speeds.
- **Cycle Mode:** Set the fan to run for a specified duration and then pause for another set duration, repeating the cycle a chosen number of times.
- **Environment Mode:** Prioritize either temperature or humidity. The fan will automatically adjust its speed to maintain your target environmental parameters.
- **CO2 Device Control:** The controller includes a switch to manage a connected CO2 device, if applicable.

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Video 2: A detailed guide on using the GGS controller to manage fan settings and environmental parameters.

MAINTENANCE

1. Carbon Filter Maintenance

The carbon filter is crucial for odor control. Regular maintenance ensures its effectiveness and extends its lifespan.

- **Pre-filter Cleaning:** The pre-filter captures larger particles. It should be removed and cleaned regularly (e.g., weekly or bi-weekly, depending on usage) by washing with warm water and mild soap, then air-dried completely before reinstallation.
- **Carbon Filter Replacement:** The RC412 activated carbon has a finite lifespan. Replace the carbon filter every 6-12 months, or sooner if odor control effectiveness diminishes. The filter features a reversible flange to potentially double its life by flipping it.



Figure 6: Exploded view of the carbon filter, showing its multi-layered design for effective filtration.

CARBON FILTER

Eliminate ALL Unwanted Odors

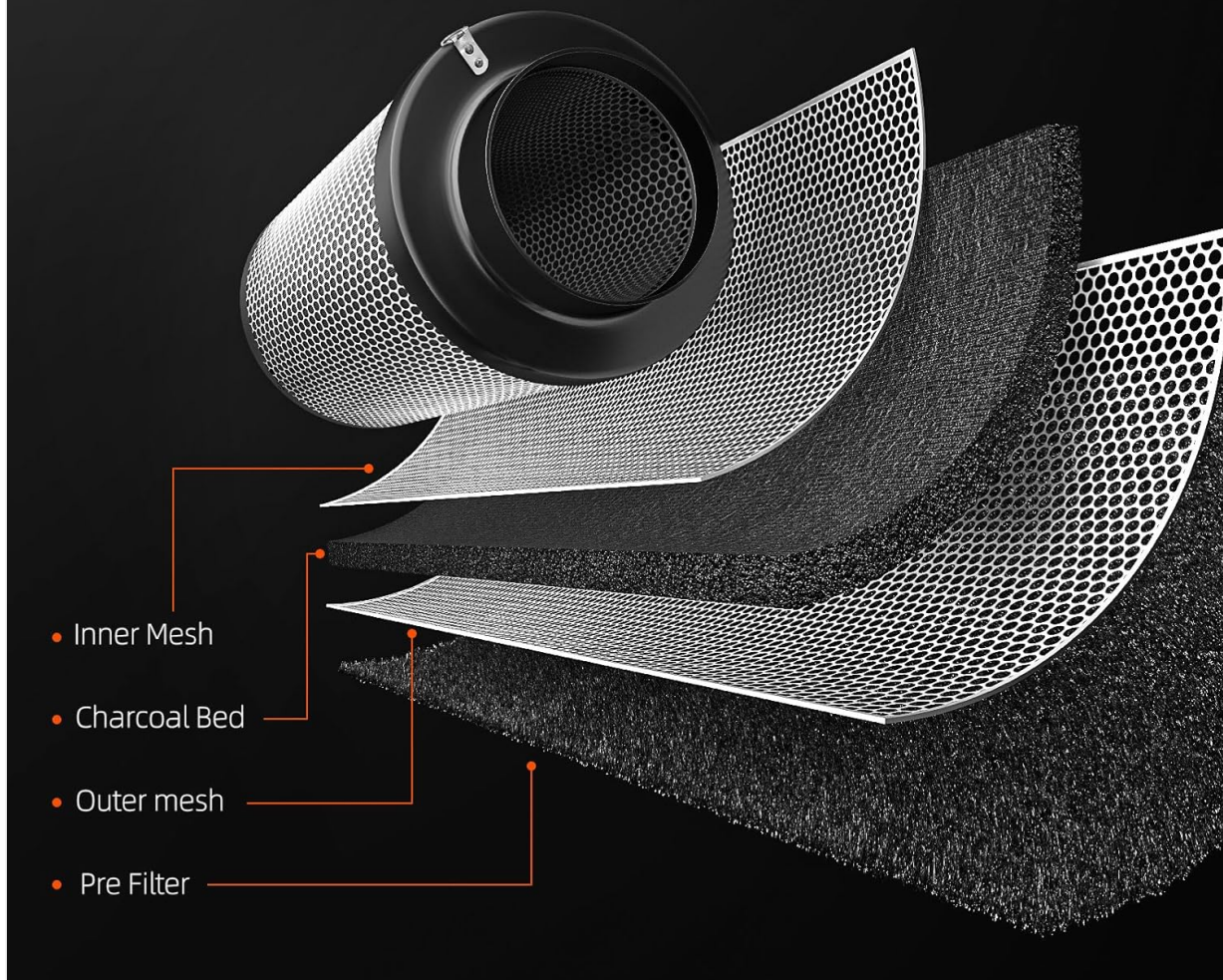


Figure 7: The premium carbon filter features a reversible flange and RC412 activated carbon for superior odor control.

2. Fan and Ducting Cleaning

- **Fan Blades:** Periodically inspect the fan blades for dust and debris accumulation. Clean gently with a soft cloth or brush. Ensure the fan is completely dry before resuming operation.
- **Ducting:** Check the flexible ducting for any tears, kinks, or blockages that could impede airflow. Replace damaged ducting as necessary.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Fan not turning on	No power, loose connection, controller off	Check power outlet, ensure all cables are securely connected, verify controller is on and in an active mode.
Poor airflow	Blocked filter, kinked ducting, low fan speed setting	Clean or replace pre-filter, check ducting for obstructions, increase fan speed setting on controller.

Problem	Possible Cause	Solution
Persistent odors	Saturated carbon filter	Replace the carbon filter. Ensure proper sealing of all connections.
Controller not responding	Loose RJ12 cable, power issue	Ensure RJ12 cable is firmly connected to both fan and controller. Check fan power.

WARRANTY AND SUPPORT

Spider Farmer products are manufactured to high-quality standards. For specific warranty details, please refer to the warranty card included with your product or visit the official Spider Farmer website. If you encounter any issues or require technical assistance, please contact Spider Farmer customer support through their official channels.

Online Resources:

- Official Spider Farmer Website: www.spider-farmer.com
- Amazon Store: [Spider Farmer Amazon Store](#)