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Spider Farmer 4 Inch GGS Controller

Spider Farmer 4 Inch Smart Inline Duct Fan User Manual

Model: 4 Inch GGS Controller

1. Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of your Spider Farmer 4 Inch Smart Inline Duct Fan with GGS Temperature Humidity Controller. This intelligent ventilation system is designed to optimize environmental conditions in various settings, including grow tents and hydroponic systems, by precisely controlling airflow, temperature, and humidity.

2. Product Features

- **Smart App Control:** Connect to the Spider Farmer App via WiFi for remote control and monitoring.
- **Automated Adjustment:** Real-time climate monitoring with automatic fan speed and airflow adjustments based on programmed settings.
- **Quiet and Powerful Operation:** Features an EC motor for energy efficiency, 205 CFM airflow, and a low noise level of 26.8 dB.
- **Durable Construction:** Made from premium ABS plastic housing, IP42 rated for dust and liquid resistance.
- **Easy Installation:** Designed for quick and straightforward setup without specialized tools.
- **High-Precision 3-in-1 Sensor:** Includes temperature, humidity, and light sensing capabilities, supporting VPD monitoring.



Figure 2.1: Overview of the Spider Farmer 4 Inch Smart Inline Duct Fan system, including the fan unit, GGS controller, and environmental sensor.

3. Package Contents

Verify that all components are present in the package:

- 1 x Spider Farmer 4 Inch Inline Duct Fan
- 1 x GGS Temperature Humidity Controller
- 1 x High-Precision 3-in-1 Environmental Sensor
- 1 x Power Cord
- 1 x RJ12 Fan to Controller Cord
- 2 x Duct Clamps
- 1 x User Manual (this document)

4. Setup and Installation

Follow these steps to set up your Spider Farmer Smart Inline Duct Fan:

1. **Mount the Fan:** Securely hang the inline duct fan using appropriate mounting hardware (not included) in your desired location, ensuring proper airflow direction.
2. **Connect Ducting:** Attach your ducting to both ends of the inline fan and secure with the provided duct clamps.
3. **Connect Controller:** Connect the RJ12 fan to controller cord from the inline fan to the designated RJ12 port on the GGS Controller.
4. **Connect Sensor:** Plug the 3-in-1 environmental sensor into the appropriate port on the GGS Controller. Position the sensor in the area where you want to monitor temperature and humidity.
5. **Power Connection:** Connect the power cord to the GGS Controller and then plug it into a standard electrical outlet.
6. **Initial Power On:** The controller display should illuminate. Follow the on-screen prompts for initial setup.
7. **WiFi Setup (Optional but Recommended):** For smart app control, connect the GGS Controller to your WiFi network. Refer to the controller's on-screen instructions or the Spider Farmer App for detailed WiFi setup procedures.



Figure 4.1: Rear view of the GGS Controller showing the RJ12 port for fan connection and Ethernet port for WiFi (optional).



Figure 4.2: The 3-in-1 sensor for monitoring environmental conditions.

5. Operating Instructions

5.1 GGS Controller Operation

The GGS Controller allows for direct control and programming of the fan. Use the rotary knob to navigate menus and confirm selections. The display provides real-time data on temperature, humidity, and fan status.

- **Manual Mode:** Adjust fan speed manually using the controller's interface.
- **Auto Mode:** Program the controller to automatically adjust fan speed based on temperature and humidity thresholds set by the user.
- **Scheduling:** Set specific start and end times for fan operation and desired operation speeds.



Figure 5.1: GGS Controller display and navigation knob for setting fan parameters.

5.2 Spider Farmer App Control

The Spider Farmer App provides comprehensive remote control and monitoring capabilities. Download the app from your device's app store and follow the in-app instructions to pair your controller.

- **Remote Monitoring:** View real-time temperature, humidity, and fan status from anywhere.
- **Full Automation:** Set advanced automation rules based on environmental conditions, schedules, and priority modes (e.g., temperature priority, humidity priority).
- **Speed Adjustment:** Adjust fan speed remotely.
- **Timer Settings:** Program detailed on/off schedules.



Figure 5.2: The Spider Farmer App interface demonstrating various control options including speed adjustment, temperature, and humidity modes.

6. Maintenance

Regular maintenance ensures optimal performance and longevity of your duct fan.

- **Cleaning Fan Blades:** Periodically inspect the fan blades for dust and debris buildup. Disconnect power before cleaning. Use a soft brush or cloth to gently remove any accumulation.
- **Cleaning Sensor:** Keep the environmental sensor clean and free from obstructions to ensure accurate readings.
- **Ducting Inspection:** Check ducting for any leaks or blockages that could impede airflow.

7. Troubleshooting

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
Fan not turning on.	No power; loose connections; controller issue.	Check power cord connection. Ensure outlet is functional. Verify RJ12 cable connection between fan and controller. Restart controller.
Inaccurate temperature/humidity readings.	Sensor obstructed or dirty; sensor faulty; improper sensor placement.	Clean the sensor. Ensure sensor is placed in an open area away from direct airflow or heat sources. If problem persists, contact support.
Fan not responding to App control.	No WiFi connection; app not paired; controller offline.	Check WiFi connection on controller and mobile device. Re-pair the device in the app. Ensure controller is powered on and online.
Excessive noise from fan.	Debris in fan blades; improper mounting; damaged fan.	Disconnect power and inspect fan blades for obstructions. Ensure fan is securely mounted and not vibrating against surfaces. If noise persists, contact support.

8. Specifications

- **Duct Size:** 4 Inch / 100 mm
- **Airflow:** 205 CFM
- **Power:** 27W ± 5%
- **Noise Level:** 26.8 dB(A)
- **Fan Speed:** 3000 RPM
- **Voltage:** AC 110-240V
- **Product Dimensions:** 12.8"D x 9.06"W x 10.44"H
- **Power Cord Length:** 4.9 ft (1.5m)
- **Fan to Controller RJ12 Cord:** 8.2 ft (2.5m)
- **Material:** Premium ABS Plastic Housing
- **IP Rating:** IP42

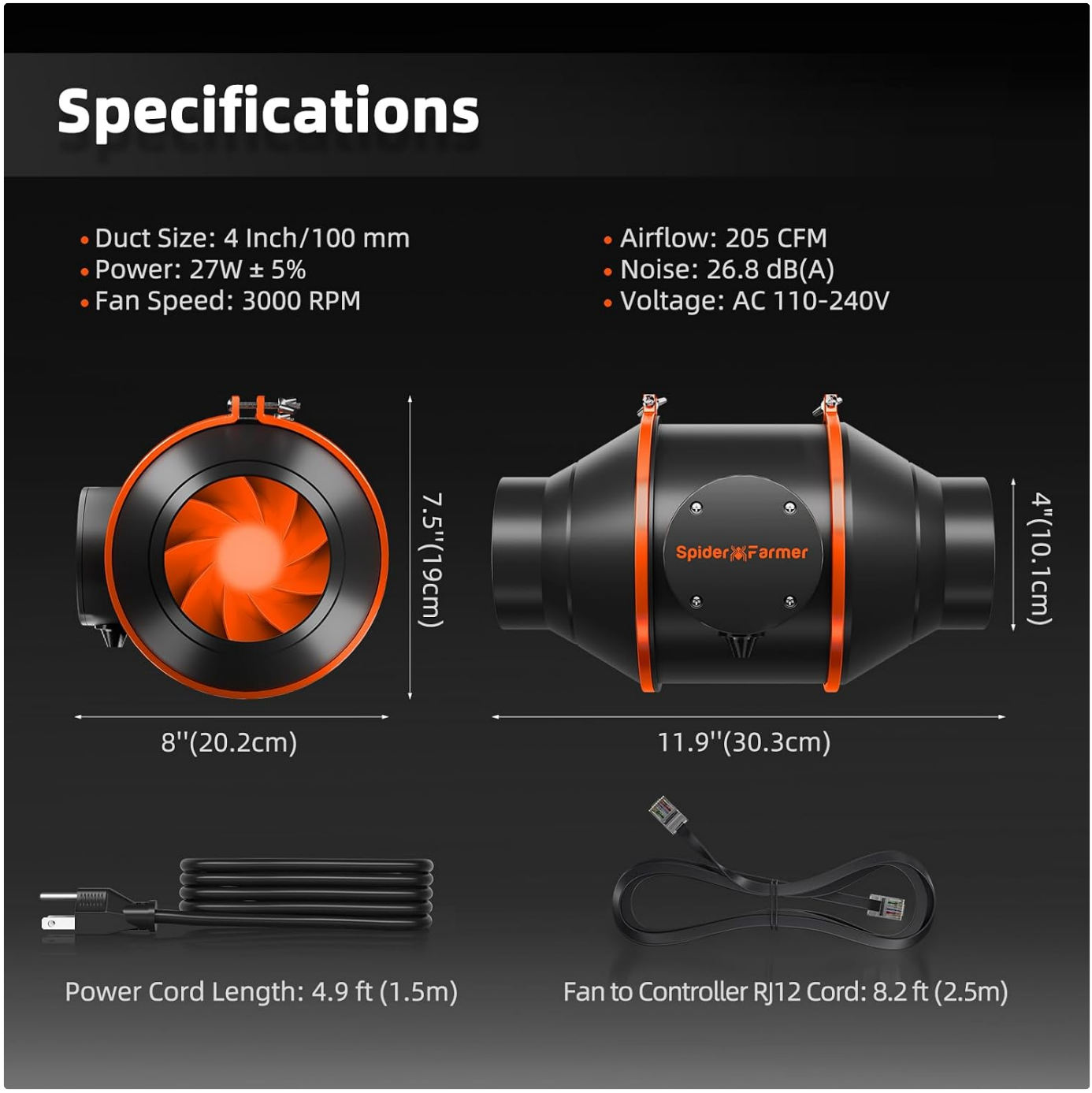


Figure 8.1: Detailed dimensions and key specifications of the duct fan and included cables.



Figure 8.2: Visual representation of the fan's airflow capacity and low noise output compared to common sounds.

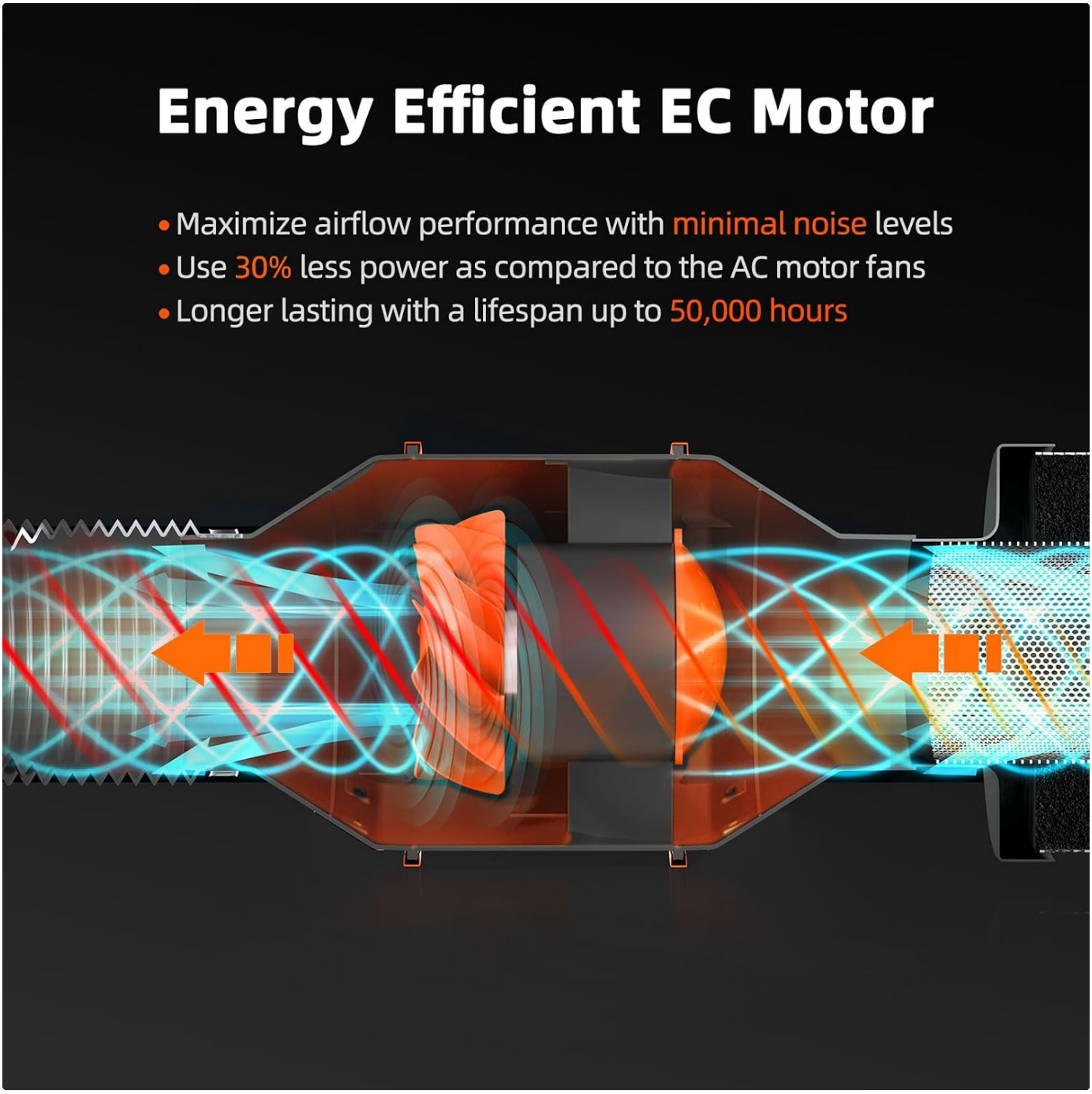


Figure 8.3: Illustration of the energy-efficient EC motor and optimized airflow path within the fan.

9. Warranty and Support

Spider Farmer products are designed for durability and performance. For warranty information or technical support, please contact Spider Farmer customer service through their official website or the retailer where the product was purchased. Please have your model number (4 Inch GGS Controller) and purchase details ready when contacting support.

For more information, visit the official Spider Farmer Store:Spider Farmer Store on Amazon

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