Spider Farmer 100 mm/4 Inch mit Temp Feucht Controller

Spider Farmer 4 Inch Smart Inline Duct Fan User Manual

Model: 100 mm/4 Inch mit Temp Feucht Controller | Brand: Spider Farmer

1. Product Overview

The Spider Farmer 4 Inch Smart Inline Duct Fan is an advanced ventilation solution designed for various applications including heating, cooling, grow tents, and hydroponic systems. It integrates smart technology for precise environmental control.



Figure 1.1: Spider Farmer 4 Inch Smart Inline Duct Fan with GGS Controller and accessories.

This image displays the main components of the Spider Farmer 4 Inch Smart Inline Duct Fan system, including the fan unit, the GGS controller, and the temperature/humidity sensor. The fan is black with orange accents, indicating its robust design and brand identity.

2. Safety Information

Please read all safety instructions carefully before operating the device. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- Ensure the power supply voltage matches the fan's requirements (AC 110-240V).
- Do not immerse the fan or controller in water or other liquids.
- Keep the device away from heat sources, direct sunlight, and flammable materials.
- Do not operate the fan with a damaged cord or plug.
- Always disconnect power before cleaning or performing any maintenance.
- This appliance is for indoor use only.

- Keep out of reach of children and pets.

3. Package Contents

Verify that all components are present and in good condition upon opening the package:

- Spider Farmer 4 Inch Inline Duct Fan
- GGS Temperature Humidity Controller
- Temperature and Humidity Sensor
- Power Cord (4.9 ft / 1.5m)
- Fan to Controller RJ12 Cord (8.2 ft / 2.5m)
- Mounting Straps (2 pcs)
- User Manual (this document)

4. Product Features

The Spider Farmer 4 Inch Smart Inline Duct Fan is equipped with several key features to provide optimal performance and control:

- **Smart App Control:** Connect to the Spider Farmer App via WiFi for remote control and monitoring. The app allows you to manage fan settings from anywhere.



Figure 4.1: App Remote Control Interface.

This image illustrates the mobile application interface for remote control, showing options for speed adjustment, timer settings, temperature mode, humidity mode, and power control, highlighting the dual control system via GGS Controller or Power Strip.

- **Fully Automatic Adjustment:** The integrated temperature and humidity sensor allows the fan to monitor climate changes in real-time and automatically adjust fan speed and airflow to maintain desired conditions.



Figure 4.2: Scheduling and Automatic Control Interface.

This image shows the GGS controller and its display, demonstrating how users can set start and end times, operation speed, and standby speed for automated fan operation. It also highlights the RJ12 port and Ethernet port for connectivity.

- **Quiet and Powerful Operation:** Features an EC motor for energy efficiency (27 watts, 205 CFM airflow) and low noise levels (26.8 dB). Lightweight ABS blades enhance airflow by 40%. ETL/FCC listed for safety.



Figure 4.3: PWM-Controller EC-Motor Diagram.

This diagram illustrates the internal components of the fan, specifically highlighting the fan blades designed for strong airflow and low noise, and the durable ABS housing with low flammability material (UL 94 V-0).

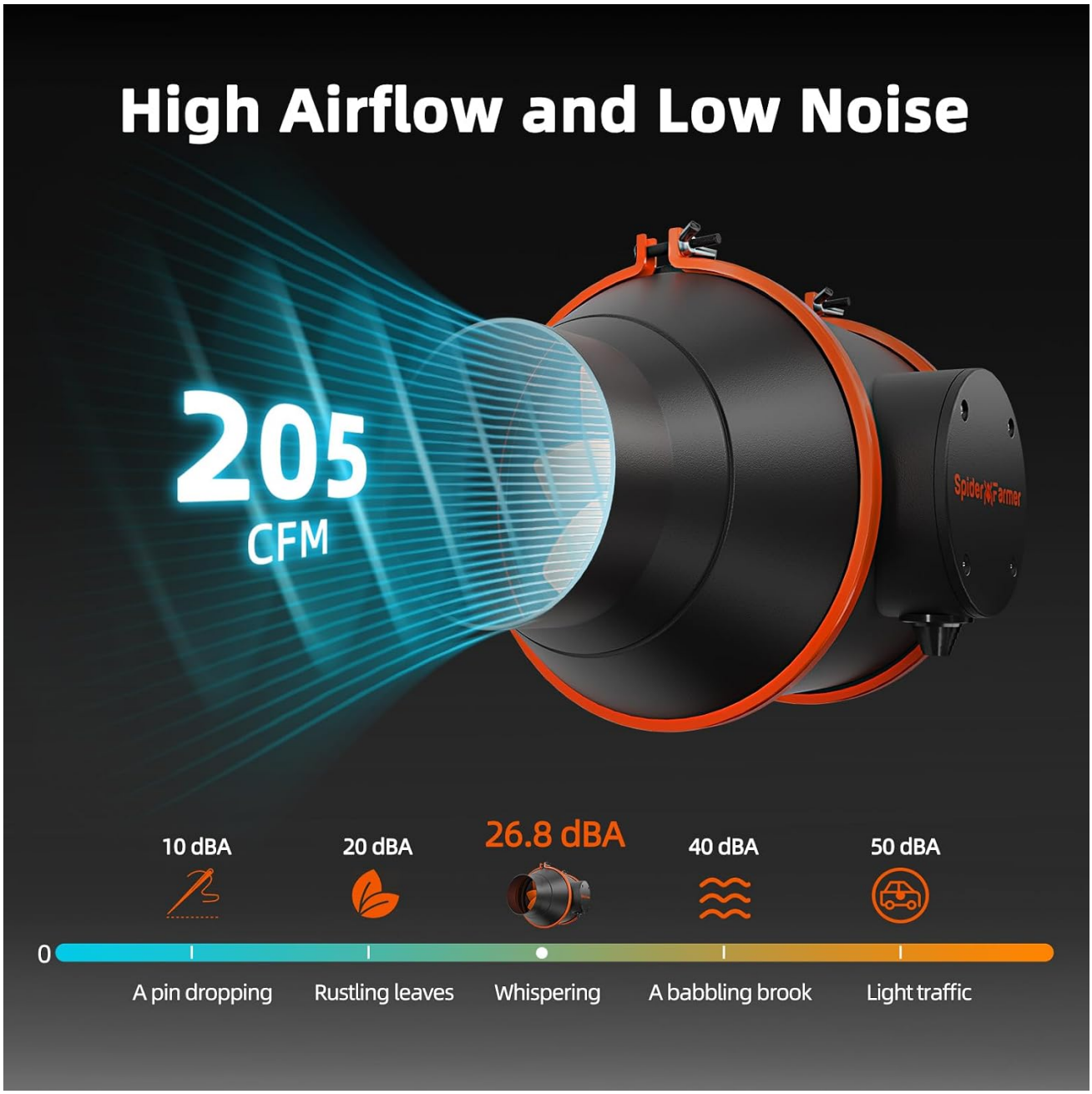


Figure 4.4: High Airflow and Low Noise Illustration.

This image visually represents the fan's airflow capacity of 205 CFM and its low noise level of 26.8 dBA, comparing it to common ambient sounds like whispering or rustling leaves, emphasizing its quiet operation.

- **Durable Construction:** Made from premium ABS plastic housing, providing superior durability and an IP42 rating for resistance against dust and liquids, ensuring performance in harsh environments.
- **Easy Installation:** Designed for quick and easy setup, allowing for hanging on a solid bracket without the need for special tools.
- **High-Precision 3-in-1 Sensor:** The included sensor monitors temperature, humidity, and light, supporting VPD (Vapor Pressure Deficit) monitoring for advanced environmental control.



Figure 4.5: High-Precision 3-in-1 Sensor.

This image shows the compact 3-in-1 sensor, detailing its capabilities to measure temperature (-4°F-212°F / -20°C-100°C) and humidity (0%-100%), and indicating its CO2 sensor functionality.

Product Videos

Spider Farmer 4 Inch Inline Duct Fan Overview

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Video 4.1: A comprehensive overview of the Spider Farmer 4 Inch Inline Duct Fan, demonstrating its design and primary functions.

Spider Farmer App Control Demonstration

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Video 4.2: This video demonstrates the functionality of the Spider Farmer mobile application, showcasing how to control the fan's settings and monitor environmental conditions remotely.

5. Setup and Installation

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

1. **Unpack Components:** Carefully remove all items from the packaging and verify against the package contents list.
2. **Choose Location:** Select a suitable location for the fan, typically within a grow tent, ventilation system, or hydroponic setup. Ensure adequate space for airflow and maintenance.
3. **Mount the Fan:** Use the provided mounting straps to securely hang the inline duct fan. Ensure it is firmly attached to a stable structure to prevent vibration and noise.
4. **Connect Ducting:** Attach appropriate ducting to both ends of the fan. Ensure connections are sealed to prevent air leaks.

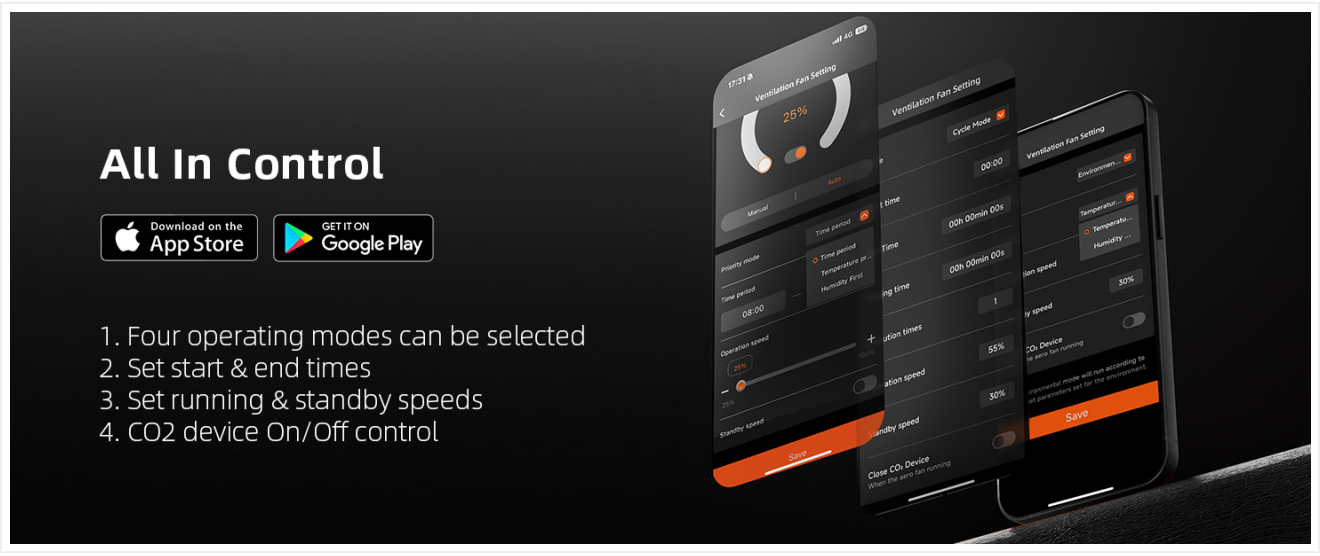


Figure 5.1: Installation Suggestions Diagram.

This diagram provides visual guidance for various installation configurations of the inline duct fan within a grow tent, showing different placements for the fan and filter to optimize air purification and circulation.

5. **Connect Controller:** Connect the GGS Temperature Humidity Controller to the fan using the provided RJ12 cord.

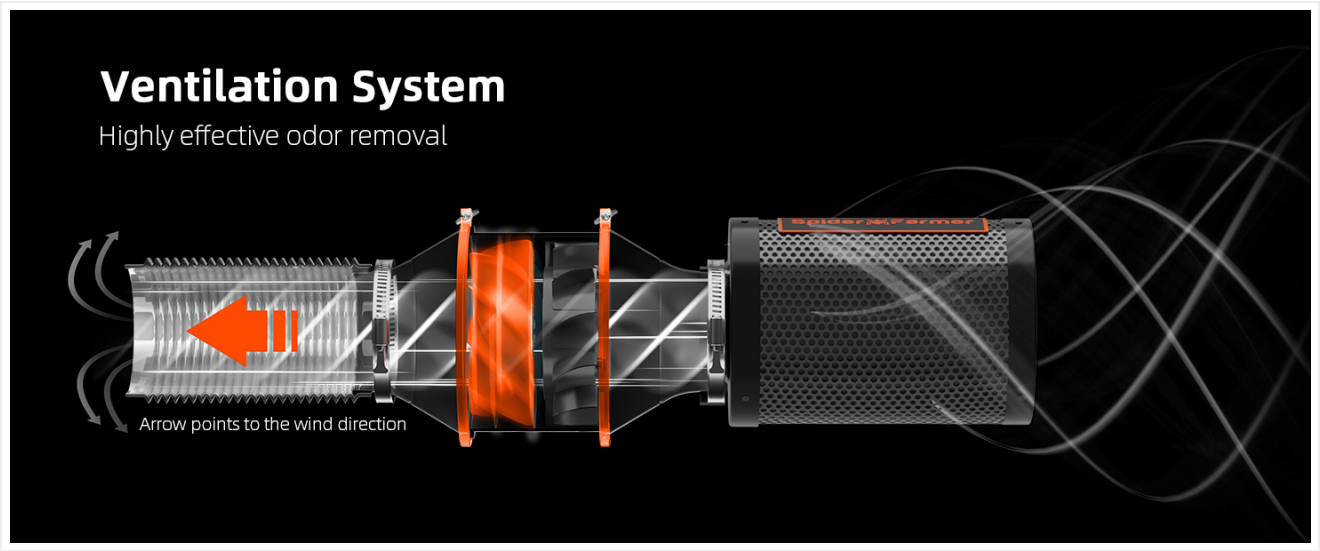


Figure 5.2: GGS Intelligent Control Connection Diagram.

This image illustrates how the inline duct fan connects to the GGS Intelligent Control system, either directly or via an RJ12 cord to a power strip, enabling smart control functionalities.

6. **Position Sensor:** Place the temperature and humidity sensor in the desired monitoring area, ensuring it is not directly exposed to airflow from the fan or other heat/humidity sources for accurate readings.



Figure 5.3: Temp Humid Light Sensor and Adapter Connection.

This diagram shows the connection of the Temp Humid Light Sensor and a Light & Fan Adapter to the GGS Controller, detailing how to obtain accurate environmental measurements and connect additional devices.

7. **Power On:** Plug the power cord into a suitable electrical outlet.

6. Operating Instructions

The GGS Controller and Spider Farmer App provide comprehensive control over your inline duct fan. Refer to the controller's display and the app interface for detailed settings.

6.1 GGS Controller Operation

- **Navigation:** Use the rotary knob to scroll through menus and adjust values. Press the knob to confirm selections.
- **Home Button:** Press the home button to return directly to the main screen.
- **Back Button:** Press the back button to return to the previous screen or menu.
- **Mode Selection:** Choose between manual or automatic modes. In automatic mode, the fan adjusts based on sensor readings.
- **Setting Parameters:** Adjust target temperature, humidity, fan speed, and timer settings directly from the controller's interface.



Figure 6.1: GGS Controller Interface.

This image displays the GGS Controller's screen and buttons, showing how to navigate the interface using the rotary knob and dedicated buttons to set up the inline fan and ventilation settings.

6.2 Spider Farmer App Operation

- **Download App:** Download the Spider Farmer App from your device's app store (available on iOS and Android).
- **Connect to WiFi:** Follow the in-app instructions to connect your GGS Controller to your home WiFi network.
- **Remote Control:** Control fan speed, set schedules, and monitor real-time temperature and humidity data from your smartphone.
- **Automated Programs:** Set up custom programs for automatic adjustments based on environmental conditions.

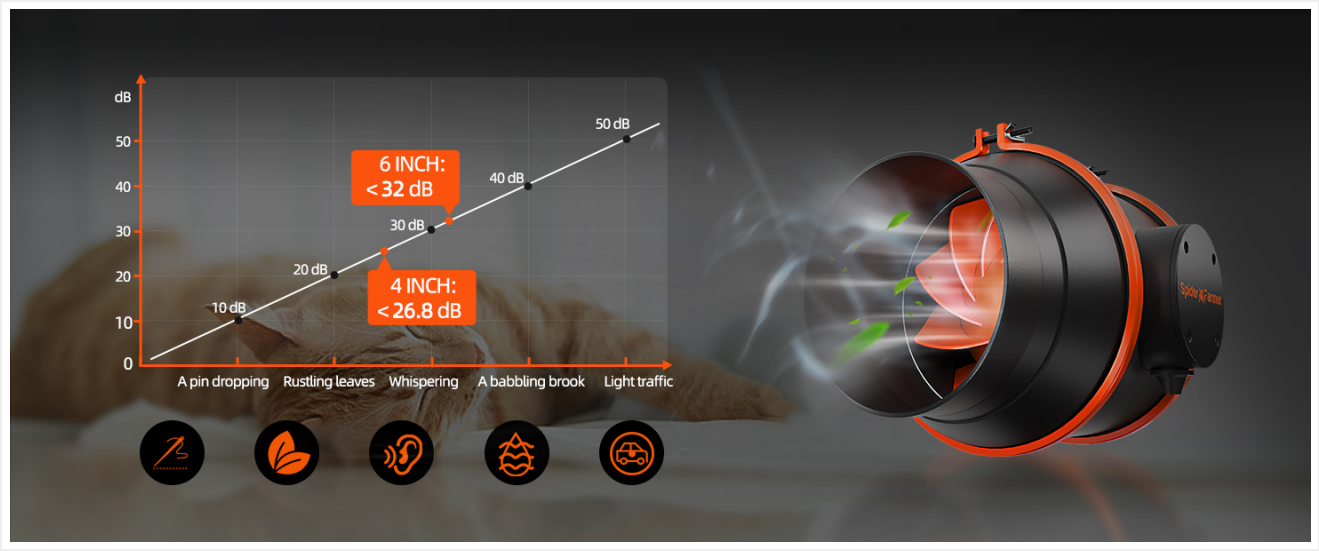


Figure 6.2: All In Control App Interface.

This image showcases the various screens within the Spider Farmer mobile application, demonstrating the four operating modes, options to set start/end times, running/standby speeds, and CO2 device On/Off control, emphasizing comprehensive control.

7. Maintenance

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

- **Cleaning the Fan Blades:** Periodically inspect and clean the fan blades to prevent dust and debris buildup, which can reduce airflow and increase noise. Disconnect power before cleaning. Use a soft, dry cloth or a brush to remove dust.
- **Cleaning the Sensor:** Gently wipe the temperature and humidity sensor with a soft, dry cloth to ensure accurate readings. Avoid using liquids or abrasive cleaners.
- **Ducting Inspection:** Check ducting for any tears, blockages, or loose connections that could affect ventilation efficiency.
- **Storage:** If storing the fan for an extended period, ensure it is clean and dry. Store in a cool, dry place away from direct sunlight.

8. Troubleshooting

Refer to the following table for common issues and their solutions:

Problem	Possible Cause	Solution
Fan not turning on.	No power, loose connection, controller issue.	Check power cord connection. Ensure outlet is functional. Verify controller is powered on and connected correctly.
Fan running but no airflow.	Ducting blockage, fan blades obstructed.	Inspect ducting for obstructions. Disconnect power and check fan blades for debris.
Inaccurate temperature/humidity readings.	Sensor dirty, sensor improperly placed.	Clean the sensor. Relocate the sensor away from direct airflow or heat sources.

Problem	Possible Cause	Solution
Fan is noisy.	Loose mounting, debris in fan, damaged blades.	Ensure fan is securely mounted. Disconnect power and check for debris. If blades are damaged, contact support.
App connectivity issues.	WiFi signal weak, incorrect app settings.	Ensure strong WiFi signal. Restart router and controller. Reconfigure app connection if necessary.

9. Specifications

Detailed technical specifications for the Spider Farmer 4 Inch Smart Inline Duct Fan:

Attribute	Value
Brand	Spider Farmer
Model Name	EF Round Duct Booster Fan
Duct Size	4 Inch / 100 mm
Air Flow Capacity	205 CFM (Cubic Feet Per Minute)
Noise Level	26.8 dB
Wattage	27 watts
Fan Speed	3000 RPM
Voltage	AC 110-240 Volts
Control Method	App
Product Dimensions	12.8"D x 9.06"W x 10.44"H
Item Weight	4.84 pounds (2.2 Kilograms)
Cable Length	8.2 Feet (2.5m) for RJ12, 4.9 ft (1.5m) for Power Cord
Material	Premium ABS Plastic Housing
IP Rating	IP42

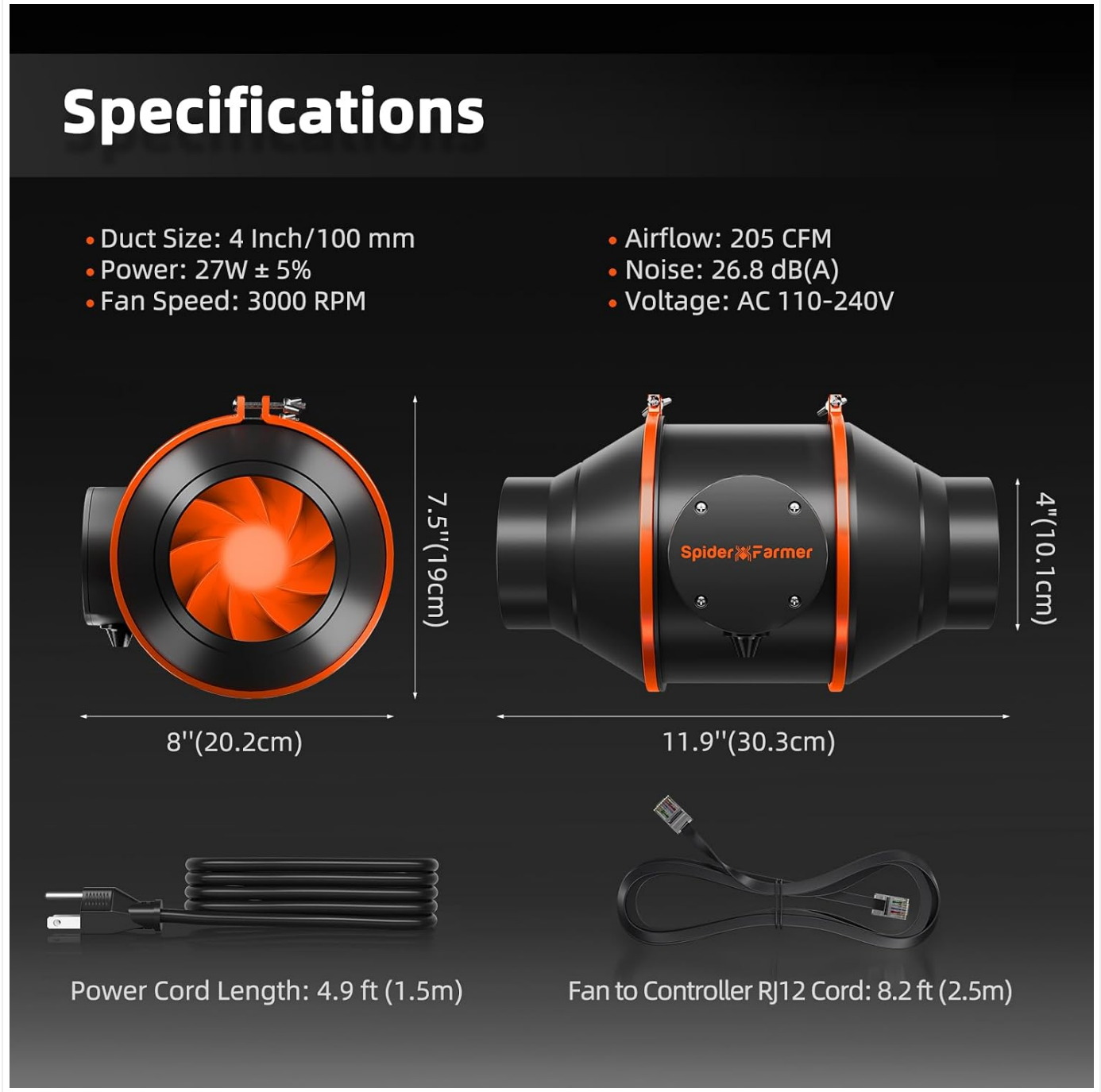


Figure 9.1: Detailed Specifications and Dimensions.

This image provides a visual representation of the fan's dimensions and key specifications, including duct size, power, RPM, airflow, noise level, and voltage, along with cable lengths for power and controller connections.

10. Warranty and Support

Spider Farmer products are designed for durability and performance. For specific warranty details and support, please refer to the official Spider Farmer website or contact their customer service directly.

- **Protection Plans:** Extended protection plans may be available for purchase. Please check with your retailer for options such as 3-Year or 4-Year Protection Plans.
- **Customer Service:** For technical assistance, troubleshooting beyond this manual, or warranty claims, please visit the Spider Farmer Store on Amazon or their official website.

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