

AC Infinity AC-FKT4

AC Infinity Air Filtration PRO Kit 4-Inch with AI Controller User Manual

Model: AC-FKT4

1. INTRODUCTION AND OVERVIEW

The AC Infinity Air Filtration PRO Kit 4-Inch is a comprehensive system designed to manage the climate and air quality within your grow space. This kit includes an AI-powered controller, an inline fan, a carbon filter, and flexible ducting, providing a complete solution for cooling, ventilation, and odor control. The AI controller intelligently analyzes climate patterns to dynamically adjust the inline fan, ensuring optimal environmental conditions.

Key features include:

- **AI-Powered Controller:** Analyzes climate patterns and anticipates environmental changes to program the inline fan dynamically.
- **WiFi App Control:** Connect the controller to the WiFi app for real-time AI insights, guides, and chatbot support from any location.
- **4-Inch Inline Fan:** Features a PWM-controlled EC motor for quiet and energy-efficient operation, rated at 205 CFM airflow and 29 dBA noise level.
- **Australian Carbon Filter:** Designed with a gunmetal finish, this filter effectively traps odors.
- **Flexible Ducting:** Routes stale air away from your grow tent efficiently.



Figure 1: Overview of the AC Infinity Air Filtration PRO Kit 4-Inch components.

2. COMPONENTS INCLUDED

Your AC Infinity Air Filtration PRO Kit 4-Inch includes the following items:

- 1 x 4-Inch Inline Duct Fan (CLOUDLINE 4")
- 1 x AI Controller (Controller AI+)
- 1 x Carbon Filter (Australian Virgin Charcoal)
- 1 x Flexible Ducting
- 2 x Duct Clamps
- 1 x Set of Hanging Straps
- 1 x Temperature and Humidity Sensor Probe

SPECIFICATIONS

UIS™

FAN | CLOUDLINE 4"
DUCT SIZE | Ø 4"
POWER USAGE | 21 Watts
VOLTAGE | 100-240V AC

CONTROLLER | CONTROLLER AI+
SENSORS | Temp., Humidity, VPD
DEVICES SUPPORTED | 8 (32 w/ Splitters)
APP CONTROL | Wi-Fi + Bluetooth



Figure 2: Detailed view of kit components and their dimensions.

3. SETUP INSTRUCTIONS

Follow these steps to set up your AC Infinity Air Filtration PRO Kit:

1. **Mount the Inline Fan:** Position the inline fan within your grow tent or ventilation system. Use the provided hanging straps to secure it firmly. Ensure the fan's airflow direction aligns with your ventilation needs (typically exhausting air out of the grow space).
2. **Connect the Carbon Filter:** Attach the carbon filter to one end of the inline fan. The filter can be placed either before the fan (pulling air through the filter) or after the fan (pushing air through the filter), depending on your setup and space constraints. Use a duct clamp to secure the connection tightly.
3. **Install Ducting:** Connect the flexible ducting to the other end of the inline fan (or carbon filter, if placed after the fan). Route the ducting to an exhaust point outside your grow space. Secure all ducting connections with the remaining duct clamps to prevent air leaks.
4. **Position the Controller:** Mount the AI Controller in an easily accessible location, preferably outside the grow tent for optimal visibility and interaction.
5. **Connect the Sensor Probe:** Plug the temperature and humidity sensor probe into the controller. Place the sensor

inside your grow tent, away from direct light or airflow, to get accurate readings of the ambient conditions.

6. **Power On:** Connect the inline fan and controller to a power source. The controller will power on and display current environmental readings.



Figure 3: Example installation of the air filtration system within a grow tent.



Figure 4: Airflow diagram showing the fan and filter in operation.

4. OPERATING INSTRUCTIONS

4.1. Controller AI+ Operation

The Controller AI+ provides advanced control over your ventilation system. Refer to the dedicated controller manual for detailed programming instructions. Key functions include:

- **Manual Mode:** Set a constant fan speed.
- **Auto Mode:** Program the fan to respond to temperature and humidity thresholds.
- **Timer Mode:** Schedule on/off cycles.
- **Alarm Settings:** Receive alerts for out-of-range conditions.

DEPENDABLE AND SECURE

Devices and sensors connect directly to our controllers, which stores all programming locally, ensuring your environment stays optimal even if Wi-Fi goes down.



Figure 5: Controller AI+ interface and app connectivity.

4.2. WiFi App Control

Download the AC Infinity app from your device's app store to unlock advanced features and remote control:

1. **Download and Install:** Search for "AC Infinity" in the App Store or Google Play Store.
2. **Pair Device:** Follow the in-app instructions to pair your Controller AI+ with your smartphone via WiFi.
3. **Remote Monitoring & Control:** View real-time climate data, adjust settings, and receive notifications from anywhere.
4. **AI Insights & Automations:** Utilize the app's AI capabilities for climate predictions, pattern recognition, and deep learning to optimize your environment. The system anticipates climate spikes and adjusts equipment proactively to maintain ideal conditions.

AI CONTROLS: AUTOMATIONS

The controller monitors your grow space, making environmental adjustments to maintain stability. It continuously learns from past results to optimize climate and prevent over- or undershooting output levels.



Figure 6: AC Infinity app interface for monitoring and control.

ADAPTIVE AI



CLIMATE PREDICTIONS

Anticipates climate spikes and adjusts equipment early to the exact percentages needed to counteract them.



ENERGY-SAVING

Factors equipment efficiency and indoor/outdoor climates to determine how to reach targets with minimal power.



PATTERN RECOGNITION

Analyzes climate patterns to create a daily light cycle that would minimize overall temperature increases.



DEEP LEARNING

Self-teaches the need to preemptively turn on humidifiers to offset the unintended drying effects from heaters.

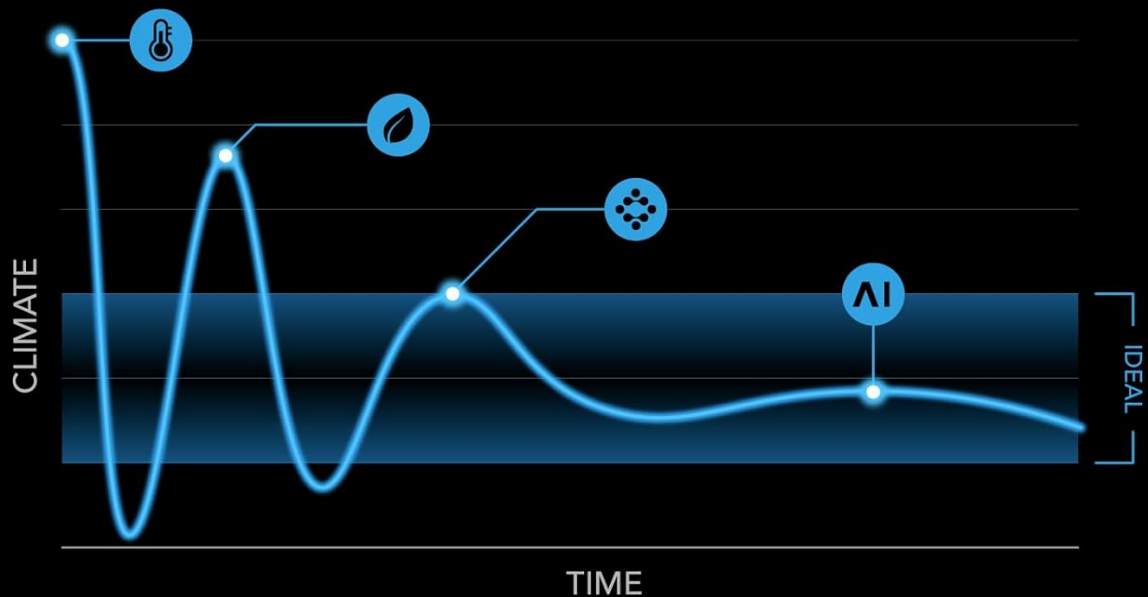


Figure 7: Explanation of the Adaptive AI functionality.

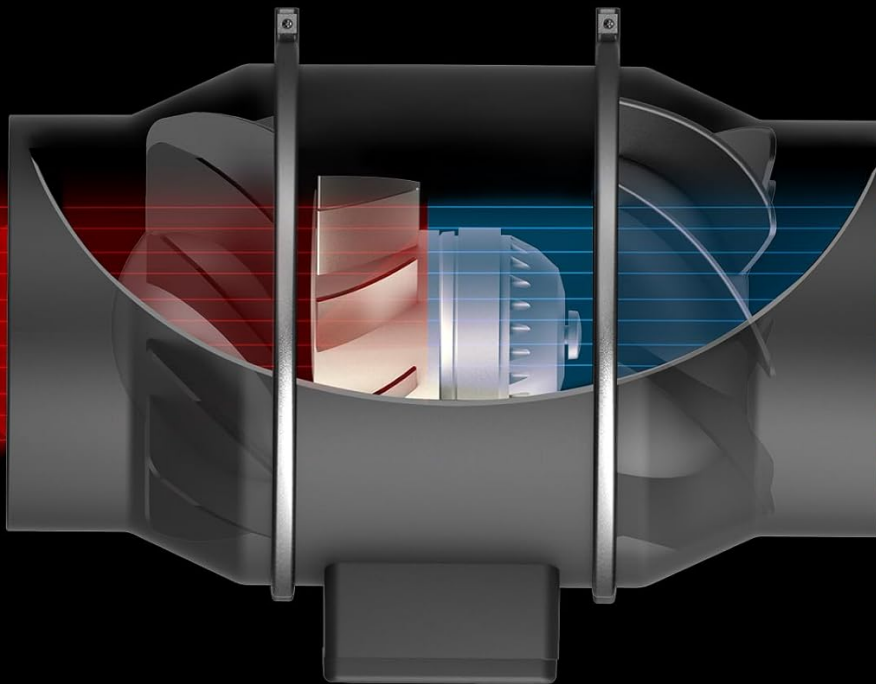
5. MAINTENANCE

5.1. Inline Fan Maintenance

- **Cleaning:** Periodically inspect the fan blades for dust and debris buildup. Disconnect power before cleaning. Use a soft brush or compressed air to gently remove any accumulation.
- **Inspection:** Check ducting and connections for any tears or loose clamps that could affect airflow efficiency.

QUIET AND ENERGY EFFICIENT

Each unit features a precise Pulse Width Modulated (PWM) controlled EC-motor that is exceptionally quieter and uses less power than conventional AC-motors.



CLOUDLINE 6" shown. May not be the same model as this listing.

Figure 8: Internal view of the quiet and energy-efficient EC motor in the inline fan.

5.2. Carbon Filter Maintenance

- **Pre-Filter Cleaning:** The carbon filter includes a pre-filter sleeve. This sleeve should be removed and washed regularly (every 2-4 weeks, depending on usage) to maintain optimal airflow and filter life. Allow it to dry completely before reattaching.
- **Carbon Filter Replacement:** The activated carbon inside the filter will eventually become saturated and lose its effectiveness in odor removal. The lifespan of the carbon filter varies based on usage and environmental conditions, typically 6-12 months. Replace the carbon filter when you notice odors returning.

HIGH QUALITY BUILD

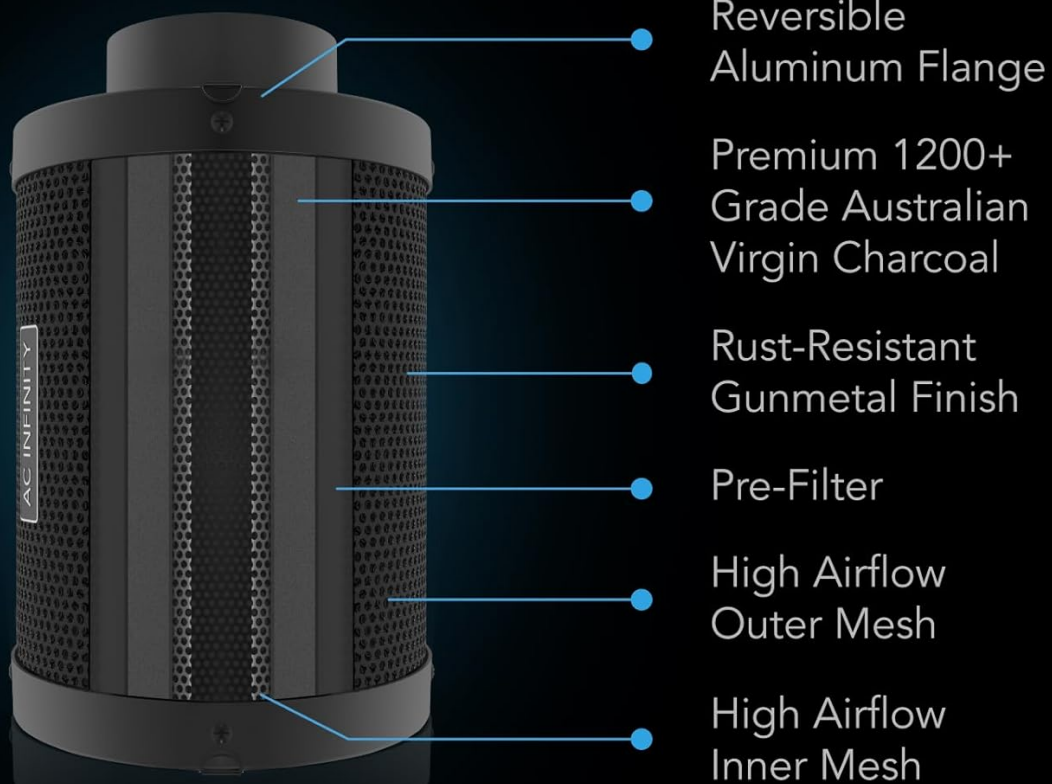


Figure 9: Construction details of the high-quality carbon filter.

6. TROUBLESHOOTING

If you encounter issues with your AC Infinity Air Filtration PRO Kit, refer to the following common troubleshooting steps:

- **Fan Not Turning On:**

- Check all power connections to the fan and controller.
- Ensure the power outlet is functional.
- Verify the controller settings are not set to 'OFF' or a very low threshold that isn't being met.

- **Poor Airflow/Odor Not Removed:**

- Inspect ducting for kinks, blockages, or leaks. Ensure all clamps are tight.
- Clean the pre-filter sleeve of the carbon filter.
- If the carbon filter is old (6-12 months or more), it may need replacement.
- Check fan speed settings on the controller; increase if necessary.

- **Controller Not Connecting to WiFi/App:**

- Ensure your WiFi network is 2.4GHz (5GHz networks are often not supported by smart devices).
- Verify your WiFi password is entered correctly.
- Move the controller closer to your WiFi router if signal strength is weak.
- Restart your router and the controller.

- **Inaccurate Temperature/Humidity Readings:**

- Ensure the sensor probe is not in direct contact with light, water, or extreme temperatures.
- Check for any damage to the sensor cable or probe.

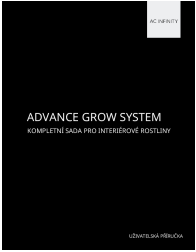
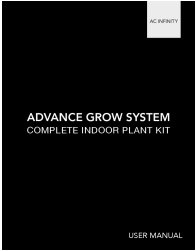
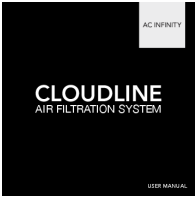

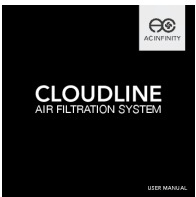
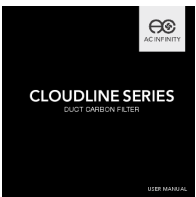
For further assistance, please refer to the AC Infinity support website or contact customer service.

7. SPECIFICATIONS

| Feature | Specification |
|--------------------|---------------------------------|
| Brand | AC Infinity |
| Model Number | AC-FKT4 |
| Duct Size | 4 Inches |
| Airflow (CFM) | 205 CFM |
| Noise Level | 29 dBa |
| Power Usage | 21 Watts |
| Voltage | 100-240V AC |
| Controller | Controller AI+ |
| Sensors | Temperature, Humidity, VPD |
| Supported Devices | 8 (32 with Splitters) |
| App Control | Wi-Fi + Bluetooth |
| Product Dimensions | 11.89"L x 6.93"W x 7.48"H (Fan) |
| Item Weight | 18.5 pounds (Total Kit) |
| UPC | 819137022911 |

8. WARRANTY AND SUPPORT

For warranty information and customer support, please refer to the official AC Infinity website or the documentation included with your product packaging. You can also visit the [AC Infinity Store on Amazon](#) for additional resources and contact options.

| | |
|---|---|
|  | <p>AC Infinity Advance Grow System: Uživatelská příručka pro kompletní sady pro interiérové rostliny</p> <p>Objevte AC Infinity Advance Grow System, kompletní sadu pro pěstování rostlin v interiéru. Tato uživatelská příručka poskytuje podrobné informace o instalaci, konfiguraci a používání stanů, osvětlení, ventilátorů a ovladačů pro automatizované pěstební prostředí.</p> |
|  | <p>AC Infinity Advance Grow System User Manual: Complete Indoor Plant Kit</p> <p>Comprehensive user manual for the AC Infinity Advance Grow System, a complete indoor plant kit. Learn about setup, installation, components, and programming for your grow tent, lights, fans, and controller.</p> |
|  | <p>AC Infinity CLOUDLINE Air Filtration System User Manual</p> <p>Comprehensive user manual for the AC Infinity CLOUDLINE Air Filtration System, detailing installation, features, programming, and maintenance for optimal air quality control.</p> |
|  | <p>AC Infinity CLOUDLINE Air Filtration System Manual - Installation & Operation Guide</p> <p>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.</p> |
|  | <p>AC Infinity CLOUDLINE Air Filtration System User Manual Installation, Features, and FAQ</p> <p>Comprehensive user manual for the AC Infinity CLOUDLINE Air Filtration System. Learn about key features, installation guides (hanging, mounting, filter & ducting), powering, controller upgrades, cleaning, programming, troubleshooting (FAQ), warranty, and other AC Infinity products.</p> |
|  | <p>AC Infinity Cloudline Series Duct Carbon Filter User Manual</p> <p>User manual for the AC Infinity Cloudline Series Duct Carbon Filter. Learn about key features, installation, maintenance, and warranty for models AC-DCF4, AC-DCF6, and AC-DCF8.</p> |