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- › [AC Infinity](#) /
- › [AC Infinity CLOUDLINE PRO T6 Inline Duct Fan User Manual](#)

AC Infinity AI-CLT6

AC Infinity CLOUDLINE PRO T6 Inline Duct Fan User Manual

Model: AI-CLT6 | Brand: AC Infinity

1. INTRODUCTION

The AC Infinity CLOUDLINE PRO T6 is a quiet and energy-efficient 6-inch inline duct fan designed for a variety of ventilation applications. This advanced system features integrated WiFi connectivity, allowing for remote control and monitoring via a dedicated app. It is ideal for managing climate in hydroponic grow rooms, transferring heating and cooling, cooling AV closets, and exhausting odors. This manual provides comprehensive instructions for the setup, operation, and maintenance of your CLOUDLINE PRO T6 fan.



Image: The CLOUDLINE PRO T6 inline duct fan shown with its smart controller and the accompanying mobile application interface.

2. PRODUCT OVERVIEW

Key Features

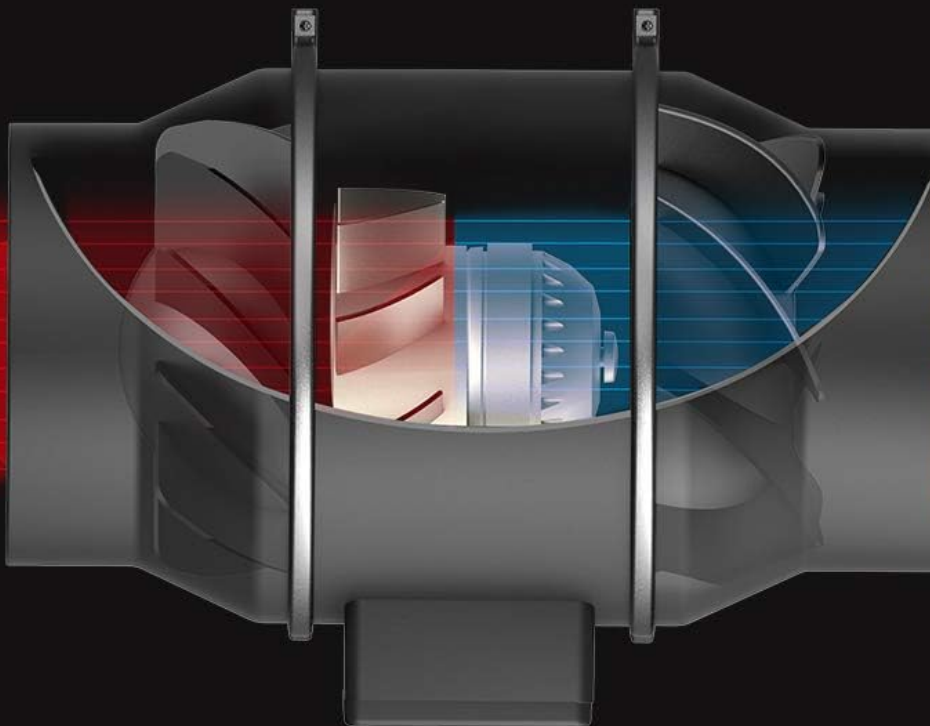
- Designed to ventilate hydroponic grow rooms, transfer heating/cooling, cool AV closets, and exhaust odors.
- Dynamic temperature and humidity programming, with timers, grow cycles, and scheduling capabilities.
- Remotely connect to the WiFi app to access advanced programs, view climate data, and set automation.
- Mixed flow design combined with a PWM-controlled EC-motor for quiet and energy-efficient performance.
- Duct Size: 6 inches | Airflow: 402 CFM | Noise: 32 dBA | Bearings: Dual Ball.

Components

The CLOUDLINE PRO T6 system includes the inline duct fan unit, a smart controller (Controller 69 PRO), a thermal-alloy probe for precise environmental sensing, and necessary power and sensor cables.

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 T6 shown. May not be the same model as this listing.

Image: An internal diagram of the CLOUDLINE T6 fan, highlighting its Pulse Width Modulated (PWM) controlled EC-motor, which contributes to its quiet and energy-efficient operation.

3. SETUP

3.1 Fan Installation

Install the CLOUDLINE PRO T6 fan within your ducting system. Ensure the airflow direction matches your ventilation needs. The fan can be mounted horizontally or vertically using the included mounting bracket. Secure the fan to a stable surface or suspend it using appropriate hangers.



Image: A visual representation of the AC Infinity duct fan system, demonstrating its integration with ducting and an optional carbon filter (not included) for comprehensive ventilation.

3.2 Controller and Sensor Connection

1. Connect the fan's power cable to the Controller 69 PRO.
2. Plug the thermal-alloy probe into the designated sensor port on the controller. Position the probe in the area where you wish to monitor temperature, humidity, and VPD.
3. Connect the controller to a standard power outlet using the provided power adapter.

3.3 WiFi App Integration

Download the AC Infinity app from your device's app store (available on iOS and Android). Follow the in-app instructions to pair your Controller 69 PRO with your WiFi network. This will enable remote monitoring and advanced programming features.



Image: Icons for downloading the AC Infinity app from the Apple App Store and Google Play Store.

4. OPERATING INSTRUCTIONS

4.1 Basic Operation

The Controller 69 PRO allows for manual control of fan speed and basic on/off functions. Refer to the controller's display and buttons for direct adjustments.

4.2 Dynamic Programming (Controller & App)

Utilize the controller or the AC Infinity app to set up dynamic programs based on temperature, humidity, and VPD (Vapor Pressure Deficit). You can configure:

- **Target Settings:** Define desired temperature, humidity, and VPD ranges. The fan will automatically adjust speed to maintain these conditions.
- **Timers:** Schedule specific on/off times for the fan.
- **Grow Cycles:** Program different environmental settings for various stages of plant growth.
- **Scheduling:** Create custom schedules for fan operation throughout the day or week.
- **Minimum Speed:** Set a minimum fan speed to ensure continuous air circulation.

SMART CONTROLS

Independent Programs for Four Devices

Grow Cycles, Timers, and Schedules

Dynamic Temperature and Humidity

Precise PWM 10-Level Control

Remote Access via WiFi App

Advance Automation Programming

Climate Charts and CSV Data Export

Set up Alert Notifications and Alarms



Image: The smart controller and mobile app interface, illustrating options for independent programs, remote access, advanced automation, dynamic temperature/humidity control, precise PWM levels, climate charts, CSV data export, and alert notifications.

4.3 Remote Access and Automation (App)

The WiFi-integrated app provides comprehensive control and monitoring features:

- **Real-time Data:** View current temperature, humidity, and VPD readings.
- **Climate Charts:** Analyze historical climate data to optimize your environment.
- **Alerts:** Receive notifications for out-of-range conditions or system events.
- **Advanced Automation:** Create complex automation rules to manage your environment precisely.

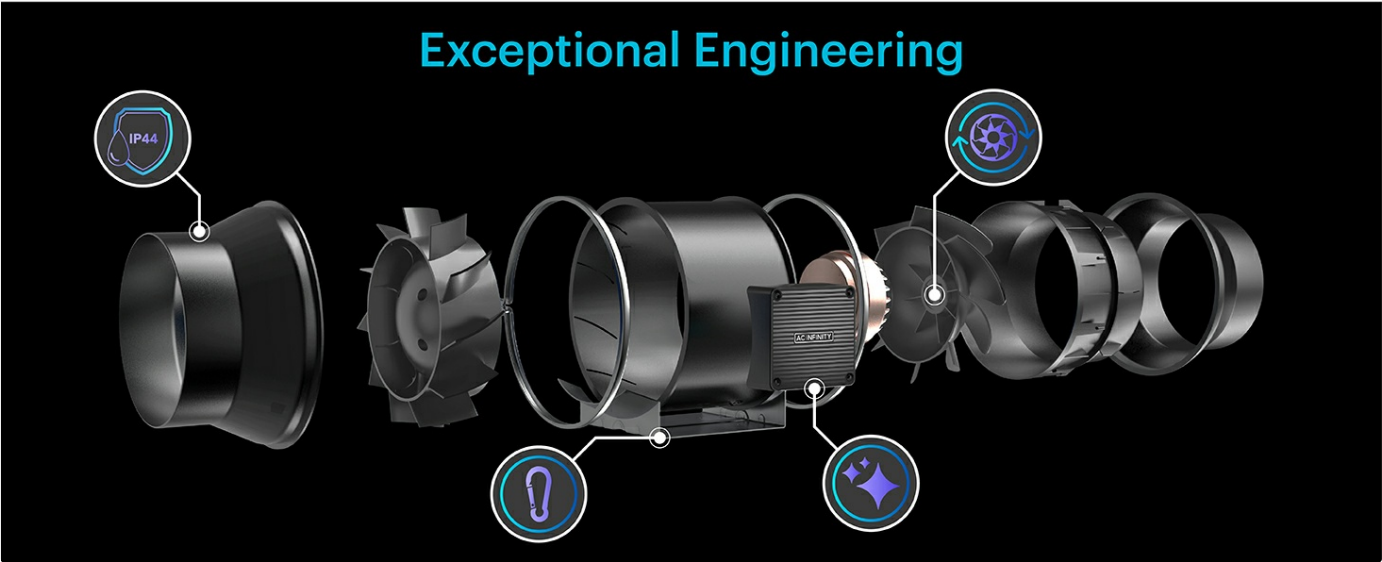


Image: A screenshot of the AC Infinity mobile app displaying climate charts for temperature, humidity, and VPD over time, allowing users to track environmental conditions.

5. MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your CLOUDLINE PRO T6 fan.

5.1 Cleaning

- Periodically inspect the fan blades and housing for dust and debris buildup.
- Disconnect the fan from power before cleaning.
- Use a soft, dry cloth or a brush to gently remove any accumulated dust. For stubborn dirt, a slightly damp cloth can be used, ensuring no moisture enters the motor or electrical components.
- Do not use harsh chemicals or abrasive cleaners.

5.2 Inspection

- Check all cable connections regularly to ensure they are secure.
- Inspect the ducting for any leaks or obstructions that could impede airflow.

6. TROUBLESHOOTING

If you encounter issues with your CLOUDLINE PRO T6 fan, refer to the following common troubleshooting steps:

Problem	Possible Cause	Solution
Fan not turning on	No power, loose connection, controller issue.	Check power outlet, ensure all cables are securely connected to the fan and controller. Verify controller is powered on.
Fan not responding to controller/app	Controller not paired, WiFi issue, app glitch.	Ensure controller is properly paired with the app. Check WiFi connection. Restart the app or controller.
Inaccurate sensor readings	Sensor placement, dirty sensor.	Relocate the sensor to an area representative of the environment. Gently clean the sensor probe.
Excessive noise	Obstruction in fan, loose mounting, damaged bearings.	Inspect fan for obstructions. Ensure fan is securely mounted. If noise persists, contact support.

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

7. SPECIFICATIONS

Detailed technical specifications for the AC Infinity CLOUDLINE PRO T6 inline duct fan:

Specification	Value
Model Name	AI-CLT6
Duct Size	6 Inches
Air Flow Capacity	402 Cubic Feet Per Minute (CFM)
Noise Level	32 dB
Wattage	38 watts
Voltage	240 Volts
Product Dimensions	7.9"D x 8.4"W x 12.6"H
Item Weight	7.02 pounds (3.19 Kilograms)
Control Method	App
Special Feature	App Operable, Remote Controlled, Water Resistant
Included Components	Cord, Remote (Controller 69 PRO)
Indoor/Outdoor Usage	Indoor
Certifications	CE, ETL, RoHS

SPECIFICATIONS

UIS™

MODEL | CLOUDLINE T6 (AI-CLT6)

DUCT SIZE | Ø 6"

POWER USAGE | 38 Watt

CONTROLLER | Controller 69 PRO

ENGINE | EC-Motor PWM

AIRFLOW | 402 CFM

NOISE | 32 dBA

SENSORS | Temp. & Humidity



8.35"
(21.2 cm)

12.60" (32.0 cm)



3.11"
(7.9 cm)

3.66" (9.3 cm)



5.79"
(14.7 cm)

3.31" (8.4 cm)

Probe
Length:



Power Cord
Length:



Fan to Controller
Cord Length:



12 FT
(144")

8 FT
(96")

10 FT
(120")

Image: Detailed dimensional drawing of the CLOUDLINE T6 fan and Controller 69 PRO, including probe, power cord, and fan-to-controller cord lengths.

8. WARRANTY AND SUPPORT

For warranty information and technical support, please visit the official AC Infinity website or refer to the documentation included with your product. You can also find a digital version of the user manual and safety information via the links below:

- [Official User Manual \(PDF\)](#)
- [Safety Information \(PDF\)](#)

AC Infinity is committed to providing high-quality products and customer service. If you have any questions or require assistance, please do not hesitate to contact their support team.

