

AC Infinity CTR67A

AC Infinity Controller 67 User Manual

Smart Bluetooth Fan Controller

1. PRODUCT OVERVIEW

The AC Infinity Controller 67 is a digital controller designed to provide smart environmental control for your AC Infinity fans. It integrates temperature and humidity sensing with advanced programming capabilities to maintain optimal climate conditions.

Key features include:

- Dynamic fan speed adjustment based on temperature and humidity.
- Comprehensive programming options: auto triggers, timers, cycles, and scheduling.
- Bluetooth connectivity for remote control and data monitoring via the AC Infinity App.
- Support for up to two EC motor fans (CLOUDLINE, AIRLIFT, CLOUDWAY series).
- Power-failure memory to retain settings.



Figure 1: The AC Infinity Controller 67, showing its display, a connected mobile app interface, and the sensor probe. This controller is designed for precise environmental management.

2. SETUP

Follow these steps to set up your AC Infinity Controller 67:

1. **Mounting the Controller:** Choose a suitable location for the controller. It can be mounted on a wall or placed on a flat surface. Ensure it is within reach of your fan(s) and a power source.
2. **Connecting Fans:** Plug your compatible AC Infinity EC motor fans (CLOUDLINE, AIRLIFT, CLOUDWAY series) into the 4-pin Molex ports on the Controller 67. The controller can power two fans simultaneously, sharing the same programming.
3. **Connecting the Sensor Probe:** Insert the 12-foot thermal-alloy sensor probe into the designated port on the controller. Position the probe in the area where you need to monitor temperature and humidity accurately.
4. **Powering On:** Connect the controller to a power outlet. The LCD screen will illuminate, indicating it is ready for operation.

5. **Downloading the App:** For full functionality and remote control, download the AC Infinity App from the App Store (for iOS) or Google Play (for Android). Search for "AC Infinity".
6. **Pairing with App:** Open the AC Infinity App on your mobile device and follow the on-screen instructions to pair with your Controller 67 via Bluetooth.

APP CONTROL & DATA

Download the AC Infinity App to unlock advance programs, monitor climate data, set notifications, and control remotely through Bluetooth.



Figure 2: The AC Infinity App provides comprehensive control and data monitoring for the Controller 67. It allows users to unlock advanced programs, set notifications, and view historical climate charts.

3. OPERATING MODES AND PROGRAMMING

The Controller 67 offers various operating modes and intelligent programming options to optimize your environment:

- **Auto Mode:** Dynamically adjusts fan speed based on set temperature and humidity triggers. You can define high and low thresholds for both parameters.
- **Minimum Speed Setting:** Set a constant minimum fan speed that the fan will run at, even when conditions

are within desired ranges. The speed will only increase when triggered by environmental changes.

- **Timer Mode:** Program the fan to run for a specific duration.
- **Cycle Mode:** Set the fan to cycle on and off at defined intervals.
- **Schedule Mode:** Create custom schedules for fan operation throughout the day or week.
- **Dynamic Speed Programming:** Beyond simple on/off triggers, the controller can respond to changes in temperature and humidity by incrementally adjusting fan speeds.

All programming and monitoring can be done directly on the controller's LCD screen or through the AC Infinity App. The app provides a user-friendly interface for setting up complex automations, viewing real-time data, and accessing historical climate charts.



Figure 3: The Controller 67's display highlights its smart programming capabilities, including precise PWM speed control and options to set constant minimum speeds and incremental speed changes.

4. COMPATIBILITY AND EXPANSION

The AC Infinity Controller 67 is designed for seamless integration with specific AC Infinity EC motor fans. It allows for an expandable system to manage your ventilation needs efficiently.

- **Compatible Fans:** The controller is compatible with the CLOUDLINE Series of Inline Duct Fans, AIRLIFT Series of Shutter Exhaust Fans, and CLOUDWAY Series of Whole House Fans.
- **Dual Fan Support:** The built-in Molex ports enable you to connect and control up to two compatible fans simultaneously. Both connected fans will share the same programming and speed settings, allowing for increased airflow and more comprehensive environmental control.

EXPANDABLE SYSTEM

Connect up to two AC Infinity EC-fans.
Mix and match models from the
same or different product series:

CLOUDLINE - Inline Duct Fans
AIRLIFT - Shutter Exhaust Fans
CLOUDWAY - Whole House Fans



Figure 4: The Controller 67 can connect to and manage two AC Infinity EC-fans, such as a CLOUDLINE inline duct fan and an AIRLIFT shutter exhaust fan, allowing them to operate under unified programming.

5. SPECIFICATIONS

Detailed technical specifications for the AC Infinity Controller 67:

Feature	Specification
Model	CTR67A
Display Type	LCD
Supported Fans	2 EC Motor Fans (CLOUDLINE, AIRLIFT, CLOUDWAY Series)
Sensors	Temperature & Humidity
Fan Speeds	10 Settings (PWM Control)
Probe Length	12 Feet (144 inches / 366 cm)
Product Dimensions	4.25 x 1 x 2.75 inches (10.8 x 2.54 x 6.98 cm)
Item Weight	14.9 ounces (0.42 kg)
Voltage	18 Volts
Color	Black
Manufacturer	AC Infinity
UPC	819137021426

SPECIFICATIONS

UIS™

MODEL | CONTROLLER 67
FANS SUPPORTED | 2 Fans
SENSORS | Temp & Humidity

FAN CONTROL | PWM
FAN SPEEDS | 10 Settings
PROBE LENGTH | 12 Feet



2.91"
(7.4 cm)



2.91"
(7.4 cm)

5.19" (13.2 cm)

1.06" (2.7 cm)



4.80" (12.2 cm)



Total Probe
Sensor Cord
Length:

12 FT
(144")
(366 cm)

Figure 5: Visual representation of the Controller 67's dimensions and key specifications, including fan control, sensor type, and probe length.

6. MAINTENANCE

To ensure the longevity and optimal performance of your AC Infinity Controller 67, follow these maintenance guidelines:

- **Cleaning:** Regularly wipe the controller's surface with a soft, dry cloth to remove dust and debris. Avoid using abrasive cleaners or solvents, which can damage the finish or electronic components.
- **Sensor Care:** Keep the thermal-alloy sensor probe clean and free from obstructions. Dust or moisture buildup on the sensor can affect its accuracy. Gently clean the probe with a soft, damp cloth if necessary, ensuring it is dry before re-installation.
- **Environmental Conditions:** Operate the controller within its specified operating temperature range. Avoid exposing it to extreme temperatures, high humidity, or direct water contact.
- **Cable Management:** Ensure all cables (power, fan, sensor) are securely connected and not under strain. Avoid sharp bends or kinks in the cables.

7. TROUBLESHOOTING

If you encounter issues with your Controller 67, refer to the following common troubleshooting tips:

- **Controller Not Powering On:**

- Check if the power adapter is securely plugged into both the controller and a working power outlet.
- Ensure the power outlet is active.

- **Fans Not Responding:**

- Verify that the fans are correctly connected to the controller's Molex ports.
- Check the fan speed setting on the controller or in the app; ensure it is not set to '0' or a very low speed.
- Confirm that the operating mode (e.g., Auto, Timer) is correctly configured and not preventing fan operation.

- **Inaccurate Temperature/Humidity Readings:**

- Ensure the sensor probe is clean and free from dust or moisture.
- Verify the sensor probe is securely plugged into the controller.
- Avoid placing the sensor probe directly in airflow or near heat/cold sources that do not represent the general environment.
- The app allows for sensor calibration if minor adjustments are needed.

- **Bluetooth Connectivity Issues:**

- Ensure Bluetooth is enabled on your mobile device.
- Make sure your mobile device is within range of the controller.
- Try restarting both the controller (by unplugging and replugging) and your mobile device.
- Ensure the AC Infinity App is updated to the latest version.

- **Settings Not Saving (Power Outage):**

- The Controller 67 features power-failure memory and should retain settings and resume programs automatically once power is restored. If not, reconfigure settings via the controller or app.

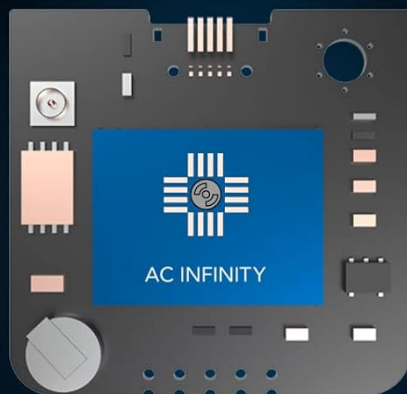
For further assistance, consult the official AC Infinity support resources or the detailed user manual available as a PDF document.

ADVANCE SENSORS

Thermal-alloy probe accurately measures temperature and humidity changes down to the millisecond.



POWER-FAILURE MEMORY



Retains all settings even if the controller is cut from power. Automatically resumes previous programs once power returns.

Figure 6: The advanced thermal-alloy sensor probe ensures accurate readings, while the internal design includes power-failure memory to protect your settings.



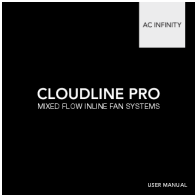


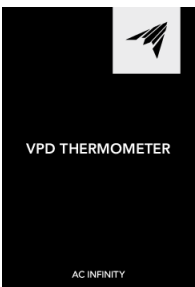
8. WARRANTY AND SUPPORT

AC Infinity products are designed for reliability and performance. For specific warranty information regarding your Controller 67, please refer to the warranty documentation included with your product packaging or visit the official AC Infinity website.

For technical support, product inquiries, or assistance with troubleshooting, please contact AC Infinity customer service through their official website or the contact information provided in your product documentation. You may also find additional resources, FAQs, and software updates on the AC Infinity support page.

A comprehensive User Manual (PDF) is available for download at: [AC Infinity Controller 67 User Manual PDF](#)

Related Documents - CTR67A

 <p>AC INFINITY CONTROLLER 67 USER MANUAL</p>	<p>AC Infinity Controller 67 User Manual</p> <p>User manual for the AC Infinity Controller 67, detailing its features, setup, programming modes, app integration, and troubleshooting. Compatible with AC Infinity EC-motor fans.</p>
 <p>AC INFINITY CLOUDLINE A/B MIXED FLOW INLINE FAN SYSTEMS USER MANUAL</p>	<p>AC INFINITY CLOUDLINE A/B Mixed Flow Inline Fan Systems User Manual</p> <p>Comprehensive user manual for AC INFINITY CLOUDLINE A/B Mixed Flow Inline Fan Systems. Covers key features, installation, programming, and FAQs for optimal ventilation in grow tents and similar environments.</p>
 <p>AC INFINITY CLOUDLINE PRO MIXED FLOW INLINE FAN SYSTEMS USER MANUAL</p>	<p>AC Infinity CLOUDLINE PRO Mixed Flow Inline Fan Systems User Manual</p> <p>Detailed user manual for AC Infinity CLOUDLINE PRO mixed flow inline fan systems, covering installation, setup, programming, features, and troubleshooting for optimal environmental control.</p>
 <p>AC INFINITY AIRLIFT SERIES SHUTTER EXHAUST FAN SYSTEM USER MANUAL</p>	<p>AC Infinity AIRLIFT Series Shutter Exhaust Fan System User Manual</p> <p>User manual for the AC Infinity AIRLIFT Series Shutter Exhaust Fan System. Covers installation, operation, programming, features like EC motor and smart controller, and warranty information for efficient ventilation.</p>
 <p>AC INFINITY CLOUDLINE AIR FILTRATION SYSTEM USER MANUAL</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 VPD THERMOMETER USER MANUAL</p>	<p>AC Infinity VPD Thermometer User Manual - Model AC-TRV3</p> <p>Comprehensive user manual for the AC Infinity VPD Thermometer (Model AC-TRV3), covering features, setup, operation, programming, and warranty information. Learn to measure air and leaf VPD, temperature, and humidity for optimal environmental control.</p>