AC Infinity AC-ACT10

AC Infinity AIRCOM T10 User Manual

Model: AC-ACT10

1. INTRODUCTION

The AC Infinity AIRCOM T10 is a quiet cooling blower fan system designed to maintain optimal temperatures for various AV components such as receivers, amplifiers, and DVRs. By preventing overheating, this system helps ensure consistent performance and extends the lifespan of your valuable electronics. It features intelligent programming with a smart thermostat and multiple speed controls, housed in a durable, low-profile steel enclosure.

Figure 1: The AC Infinity AIRCOM T10 Quiet Cooling Blower Fan System.

2. FEATURES

- **Component Cooling:** Designed to cool receivers, amplifiers, DVRs, and other AV components, preventing overheating and performance degradation.

- **Intelligent Programming:** Features an LCD thermostat with six speed controls, alarm alerts, fan failure triggers, and memory functions.

- **Quiet Operation:** Equipped with three dual-ball bearing fans with PWM-controlled motors to minimize noise, suspended with silicone mounts to absorb vibrations.

- **Low-Profile Design:** Slim 1.5-inch height allows for placement in tight spaces.

- **Durable Construction:** Aluminum and steel construction supports up to 30 pounds of stacked components.

- **Expandable:** Ports on the backside allow connection and control of up to six additional AC Infinity AIRPLATE Cabinet fans and MULTIFAN Component fans.

COMPONENT COOLING SYSTEM

Prevents overheating and optimizes performances for receivers, DVRs, amplifiers, and other AV components.

Figure 2: The AIRCOM T10 positioned above an AV receiver, illustrating airflow for cooling.

INTELLIGENT PROGRAMMING
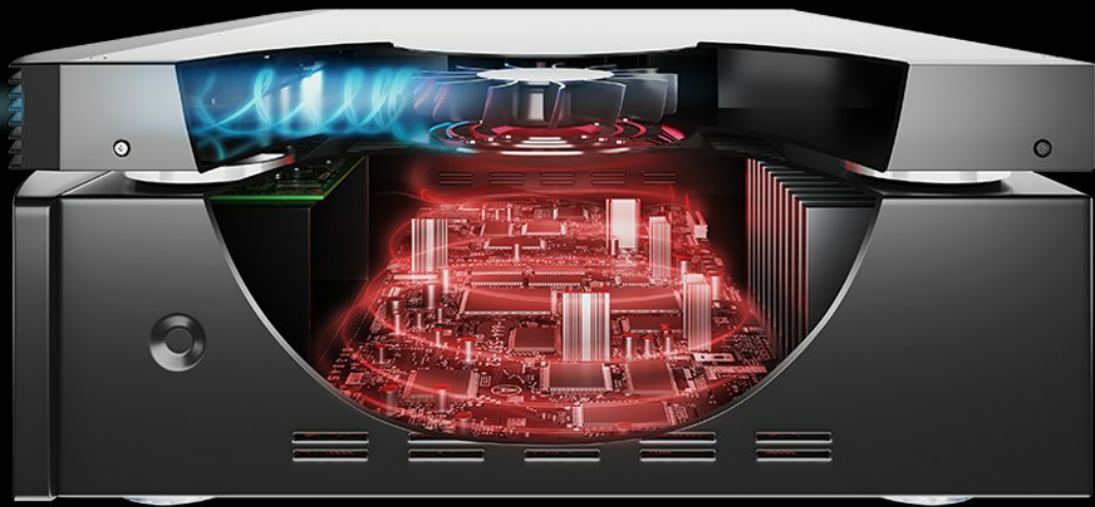
Automated Programming is Easy to Configure

Self Adjusts Cooling in Response to Temperatures

SETTING **85°F** ALARM **95°F** PROBE **93°F**

SMART

Six Speeds from Silent to Powerful

Ports to Connect Additonal Fans

Alarm and Fan Failure Triggers

Figure 3: Detailed view of the LCD display, showing temperature settings, fan speed, and alarm indicators.

ULTRA QUIET DESIGN

Dual-ball bearing fans containing a PWM-controlled motor are mounted with silicone to minimize noise.

Side view of AIRCOM T10 in action

Figure 4: Internal view of the AIRCOM T10, highlighting the dual-ball bearing fans and their quiet operation.

Figure 5: The low-profile design of the AIRCOM T10, measuring 1.5 inches in height.

3. SETUP

1. **Placement:** Place the AIRCOM T10 directly on top of your AV component (receiver, amplifier, DVR) that requires cooling. Ensure the front-exhaust fans are not obstructed.

2. **Power Connection:** Connect the included corded power adapter to the unit's power port on the backside and plug it into a standard electrical outlet.

3. **Optional Fan Connection:** If you have additional AC Infinity AIRPLATE Cabinet fans or MULTIFAN Component fans, connect them to the available ports on the backside of the AIRCOM T10.

Figure 6: The AIRCOM T10 seamlessly integrated into an entertainment cabinet, cooling an AV component.

4. OPERATING INSTRUCTIONS

The AIRCOM T10 features an intuitive LCD digital controller for programming and monitoring.

4.1. Intelligent Programming Modes

- **Thermostat Mode:** Set a desired temperature threshold. The fans will activate when the component's temperature exceeds this setting and turn off once it cools down.
- **SMART Mode:** Automatically adjusts fan speed in response to varying temperatures, providing efficient cooling while minimizing noise. This mode is recommended for most users.
- **Manual Mode:** Allows you to manually set the fan speed from one to six, regardless of temperature.

4.2. Display and Controls

The LCD display shows the current temperature, set temperature, and alarm temperature. Buttons on the unit allow you to navigate menus and adjust settings.

- **Temperature Settings:** Use the up/down arrows to adjust the activation temperature and alarm

temperature.

- **Fan Speed:** Six fan speeds are available, from silent to powerful.
- **Alarm Alerts:** Configure alerts for fan failure or when temperatures exceed a set maximum.
- **Display Lock:** Lock the control buttons to prevent accidental changes.
- **Power Savings:** Enable settings to optimize power consumption.
- **Backup Memory:** The system retains your settings even after power loss.

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Video 1: An official product video demonstrating the features and operation of the AC Infinity AIRCOM Series.

5. Maintenance

To ensure the longevity and optimal performance of your AIRCOM T10, follow these simple maintenance guidelines:

- **Regular Cleaning:** Periodically wipe down the exterior of the unit with a soft, dry cloth to remove dust.
- **Fan Vents:** Ensure the fan vents are free from dust and debris. Use a can of compressed air to gently clear any blockages if necessary. Do not use liquid cleaners directly on the fans or internal components.
- **Power Cord:** Inspect the power cord for any signs of damage. If damaged, discontinue use and contact customer support.

6. Troubleshooting

6.1. Common Issues and Solutions

- **Fans Not Spinning:**

  - Check if the power adapter is securely plugged into both the unit and the electrical outlet.
  - Verify that the unit is powered on and not in a standby mode.
  - Ensure the set temperature threshold has been met or exceeded if operating in thermostat or SMART mode.
  - Check for any fan failure alerts on the LCD display.

- **Unit Not Displaying Temperature:**

  - Ensure the temperature probe is correctly connected and positioned to measure the component's temperature.
  - Check if the display lock feature is active.

- **Excessive Noise:**

  - Verify the fan speed setting. Higher speeds will naturally produce more airflow noise.
  - Ensure the unit is placed on a stable, flat surface and not vibrating against other components.
  - Check for any obstructions in the fan blades.

6.2. Alarm Conditions

The AIRCOM T10 can alert you to specific conditions:

- **High Temperature Alarm:** Indicates that the component's temperature has reached or exceeded the set alarm threshold. Increase fan speed or ensure proper ventilation.

- **Fan Failure Alarm:** Notifies you if one or more fans are not operating correctly. Inspect the fans for obstructions or damage.

7. SPECIFICATIONS

SPECIFICATIONS

MODEL | AIRCOM T10
DESIGN | Front Exhaust Fans
POWER | 9.5 Watt

ENGINE | Triple 120mm
AIRFLOW | 160 CFM
NOISE | 24 dBA

17" (43.2 cm)

1.5" (3.8 cm)

13.5" (34.3 cm)

Figure 7: Visual representation of the AIRCOM T10's dimensions and key performance metrics.

Attribute	Value
Model	AIRCOM T10 (AC-ACT10)
Dimensions (L x W x H)	17 x 13.5 x 1.5 inches (43.2 x 34.3 x 3.8 cm)
Fan Quantity	3
Exhaust Direction	Front
Total Airflow	160 CFM

Attribute	Value
Total Noise	24 dBA
Static Pressure	1 mm-H2O
Operating Voltage	12V DC
Power Consumption	9.5 W
Current	0.79 A
Wall Adapter Input	100 to 240V AC
Operating Humidity	35 to 85% RH
Operating Temperature	0 to 158°F
Fan Bearings	Dual Ball
L10 Life Expectancy	67,000 Hours
Top Weight Capacity	30 Pounds

8. WARRANTY AND SUPPORT

AC Infinity products are designed for reliability and performance. For detailed warranty information and customer support, please refer to the official AC Infinity website or the comprehensive user manual PDF available online.
You can access the official User Manual PDF here.