AC INFINITY

AIRTITAN SERIES

CRAWLSPACE AND BASEMENT VENTILATION FANS

USER MANUAL

WELCOME

Thank you for choosing AC Infinity. We are committed to product quality and friendly customer service. If you have any questions or suggestions, please don't hesitate to contact us. Visit www.acinfinity.com and click contact for our contact information.

EMAIL
support@acinfinity.com

WEB
www.acinfinity.com

LOCATION
Los Angeles, CA

MANUAL CODE AT1803X2

PRODUCT	MODEL	UPC-A
AIRTITAN T3	AC-ATT3	00819137020467
AIRTITAN T7	AC-ATT7	00819137020474
AIRTITAN T8	AC-ATT8	00819137020481
AIRTITAN T8-N	AC-ATT8-N	00819137020498

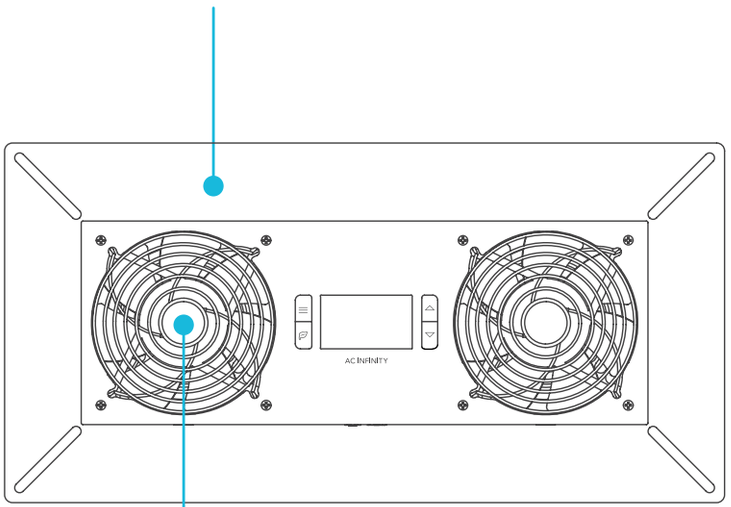
MANUAL INDEX

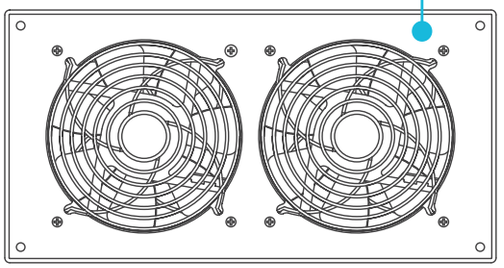
KEY FEATURES

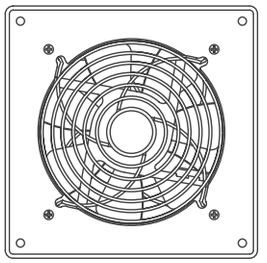
HEAVY DUTY BUILD
The fan system features a galvanized steel or aluminum mounting frame with fan guards. Fans are enclosed in steel or plastic.

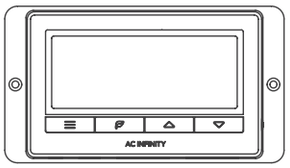
QUIET PWM MOTOR
PWM-controlled motor features precise speed control, reduced rotor noise, and runs on energy efficient DC voltage.

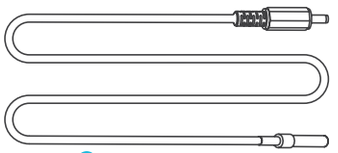
INGRESS PROTECTION
Fans are sealed to be dust proof and high water resistance. Can receive water splashes and high pressure water jets.











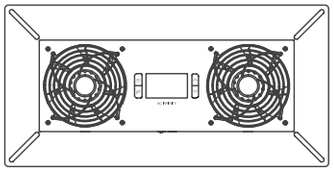
DUAL BALL BEARINGS
Each fan contains long-life ball bearings rated at 67,000 hours. This bearing system enables fans to be mounted in any direction.

SMART CONTROLLER
Digital controller can be set to trigger fans at high and low temperature and humidity. Features alarms and fan speed control.

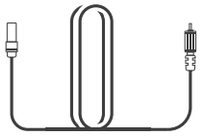
THERMAL PROBE
The corded precision sensor probe constructed of stainless steel ensures an accurate temperature and humidity reading.

PRODUCT CONTENTS

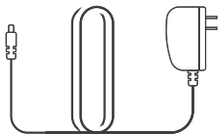
AIRTITAN T8 AC-ATT8
AIRTITAN T8-N AC-ATT8-N



FAN SYSTEM (x1)



THERMAL PROBE (x1)



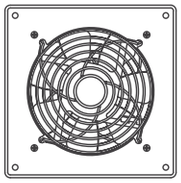
POWER ADAPTER (x1)

WALL ANCHORS (x4)

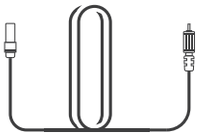
WOOD SCREW (x4)

MACHINE SCREWS (x4)

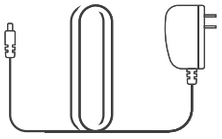
AIRTITAN T3 AC-ATT3



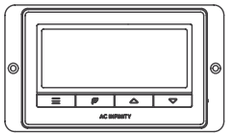
FAN SYSTEM (x1)



THERMAL PROBE (x1)



POWER ADAPTER (x1)

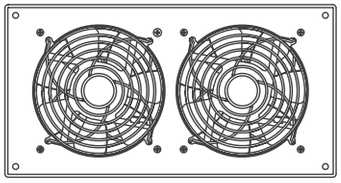


UNIVERSAL CONTROLLER (x1)

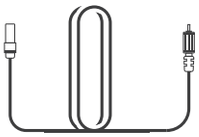
WOOD SCREW (x6)

MACHINE SCREWS (x6)

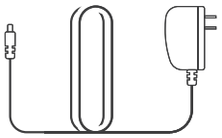
AIRTITAN T7 AC-ATT7



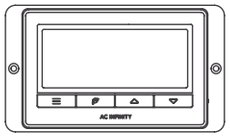
FAN SYSTEM (x1)



THERMAL PROBE (x1)



POWER ADAPTER (x1)



UNIVERSAL CONTROLLER (x1)

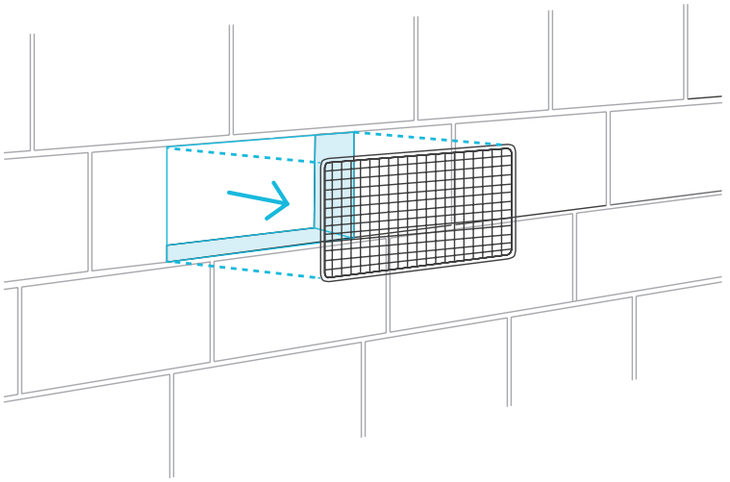
WOOD SCREW (x6)

MACHINE SCREWS (x6)

MOUNTING

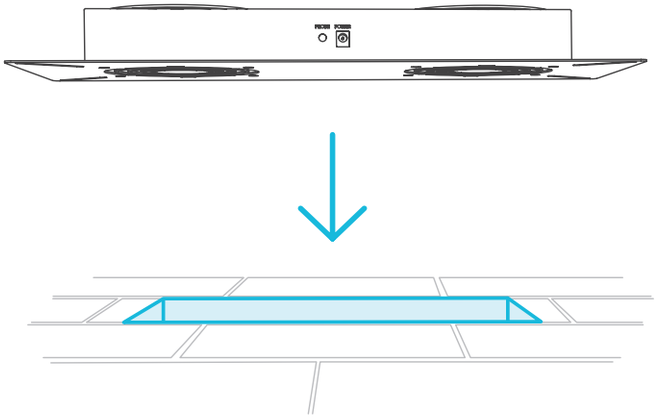
STEP 1

Remove any existing grilles, vents, or covers on ventilation opening where you wish to install the fan unit.



STEP 2

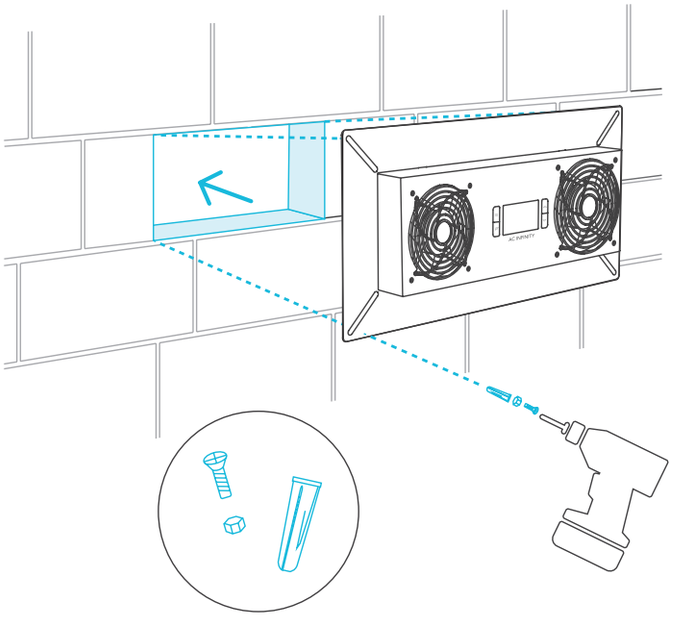
Position the fan unit over the ventilation opening. Depending on the model, the unit may be facing towards or away from the wall. Please be sure to check the airflow direction prior to installation.



MOUNTING

STEP 3 (Foundation Block Mounting)

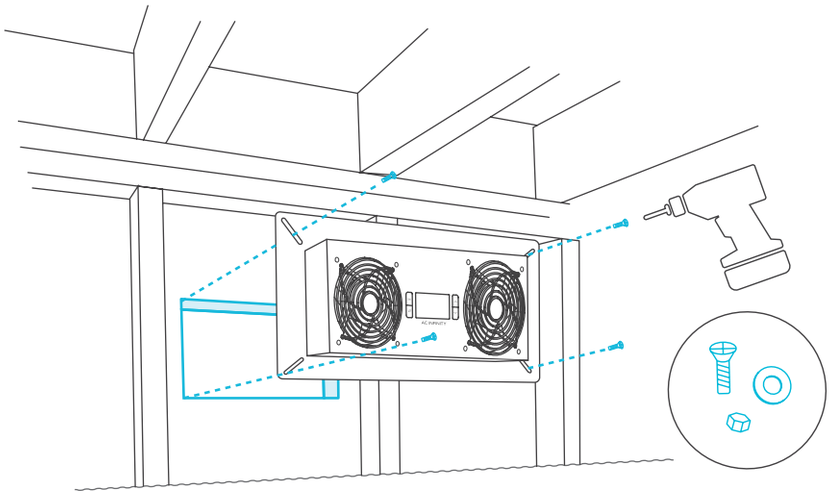
To install the unit onto a foundation brick or block, mark the mounting hole locations using the four corners of the metal face plate. Then drill 5/16" holes with a drill bit. Install wall anchors into openings and secure the unit into the wall with four screws. Note that the models T3 and T7 are designed for cabinet and wall mounting, and do not include wall anchors and larger type screws.



AIRTITAN T8, T8N Illustration shown above.

STEP 3 (Wall and Surface Mounting)

If installing the unit onto a cabinet, wall, wood header, rim joist, or mesh on an existing crawl space vent, please use the unit or plastic template to determine the mounting location. Secure the mounting frame onto the surface with the included wood screws. If using a machine screw with nuts, you may need to drill a hole. Note that models T8 and T8-N do not include a plastic template.



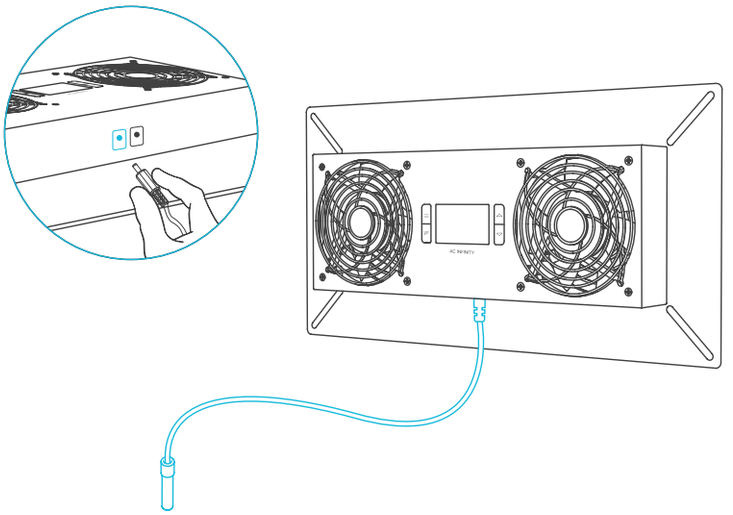
AIRTITAN T8, T8N Illustration shown above.

POWERING

AIRTITAN T8 T8-N

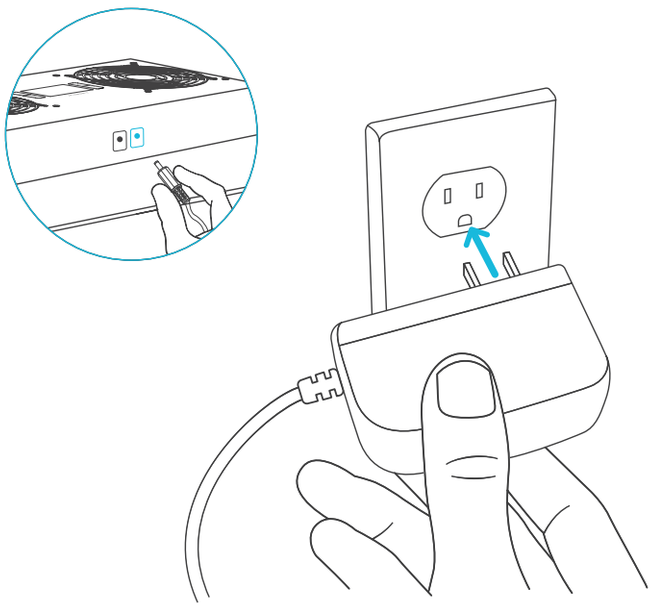
STEP 1

To set up temperature monitoring, plug the male connector of the thermal probe into the designated probe port located at the bottom side of the fan unit.



STEP 2

To power the unit plug in the power, plug the male connector of the corded power adapter into the designated power port located at the bottom side of the fan unit. Then plug the adapter head into an outlet.

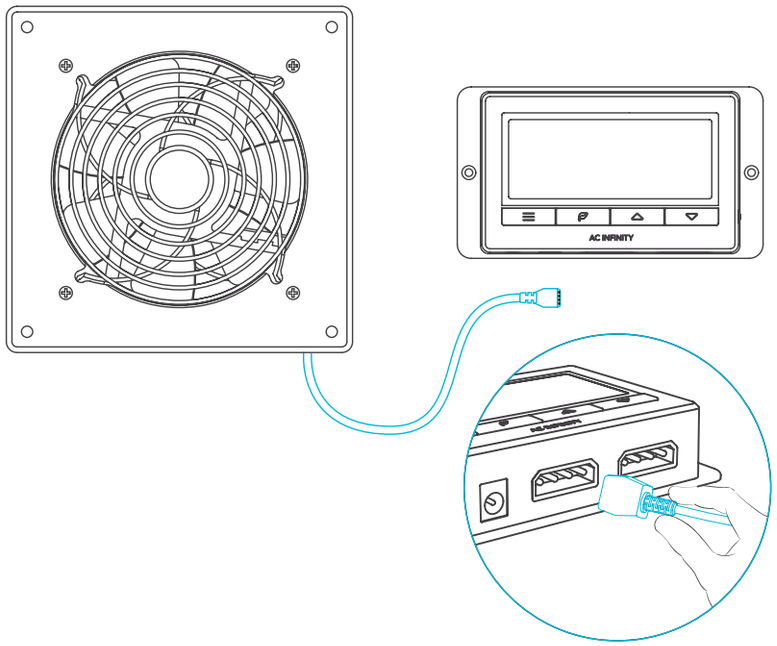


POWERING

AIRTITAN T3 T7

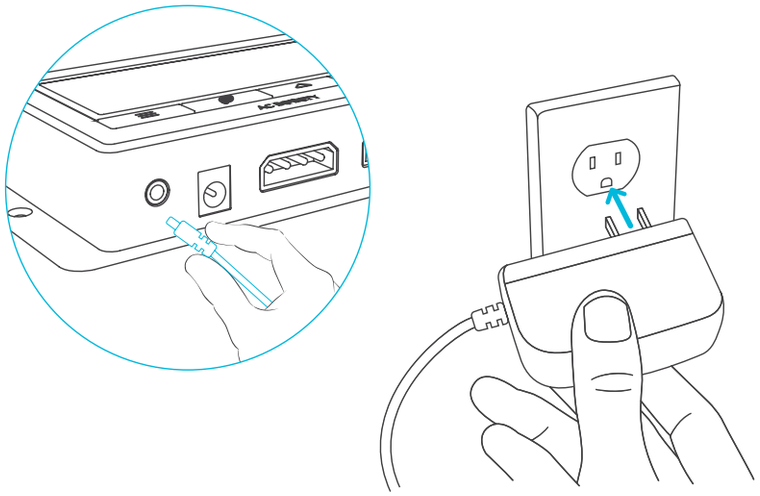
STEP 1

Plug the fan's male molex connector into one of the two designated probe ports located at the bottom side of the controller.



STEP 2

To power the unit plug in the power, plug the male connector of the corded power adapter into the designated power port located at the bottom side of the controller. Then plug the adapter head into an outlet.

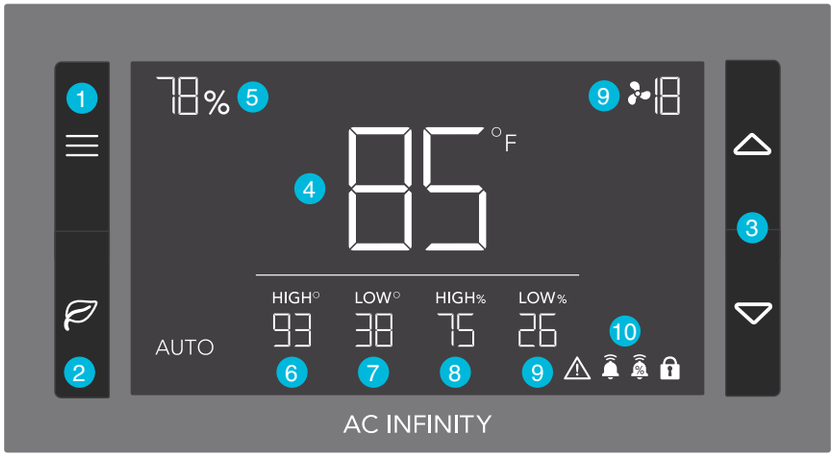


PROGRAMMING

1. MODE BUTTON
This button cycles through each of the controller's modes settings. Hold for two seconds to return to the main screen.

2. LEAF BUTTON
This turns the display off while programs run in the background. Hold for two seconds to lock or unlock the display.

3. UP / DOWN BUTTON
This increases, decreases, or adjusts the settings of the controller for each mode. Up to increases and down to decreases.



4. PROBE TEMP.
Displays the current temperature that the corded sensor probe is measuring. Shows “- -” if no probe is plugged in..

5. PROBE HUMIDITY
Displays the current humidity that the corded sensor probe is measuring. Shows “- -” if no probe is plugged in.

6. HIGH TEMP.
Displays the high temp. you have set the fans to run when the sensor’s temp. exceeds this setting.

7. LOW TEMP.
Displays the low temp. you have set the fans to run when the sensor’s temp. falls below this setting.

8. HIGH HUMIDITY
Displays the high humidity you have set the fans to run when the sensor’s humidity exceeds this setting.

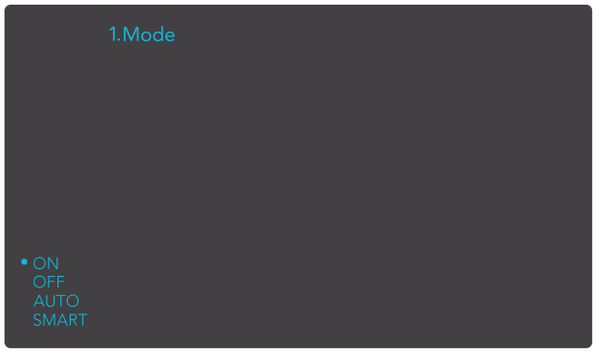
9. LOW HUMIDITY
Displays the low humidity you have set the fans to run when the sensor’s humidity falls below this setting.

10. ALERT ICONS
The icons on the display represents fan failure, temperature alarm, humidity alarm and display lock. The icons will flash and may emit an audible beep when triggered.

PROGRAMMING

1. MODE

In this settings mode, you can set the fan's primary programming mode. Remember to return to the main screen after you finished adjusting your settings.



ON Mode – Fans will run continuously regardless of temperature or humidity. The speed the fans run at will be the speed you have set in (2) Fan Speed.

OFF Mode – Fans will not run regardless of temperature or humidity.

AUTO Mode – For high temperature or humidity triggers, the fans will start running when the measured value exceeds your set value. The fans will stop running when the measured value falls below your set value by the number set as the buffer. For low temperature or humidity triggers, the fans will start running when the measured value falls below your set value. The fans will stop running when the measured value rises above your set value by the number set as the buffer. The speed the fans will run at is the speed set in (2) Fan Speed.

SMART Mode – For high temperature or humidity triggers, the fans will slowly increase in speed when the measured value exceeds your set value. When the measured value falls below your set value, the fans will slowly decrease in speed until the fan stops. For low temperature or humidity triggers, the fans will slowly increase in speed when the measured value falls below your set value. When the measured value rises above your set value, the fans will slowly decrease in speed until the fan stops, when the measured value rises above your set value. The max speed the fans will reach is the speed set in (2) Fan Speed.

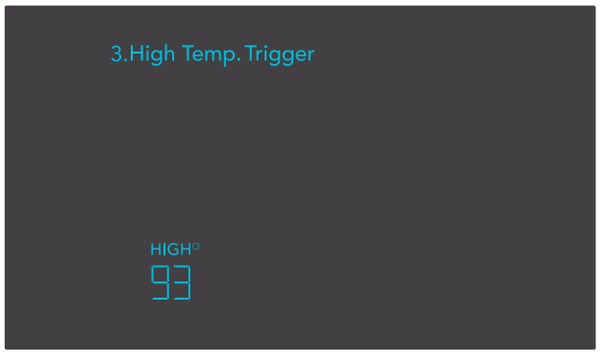
2.SPEED

In this mode, the fans will run non-stop regardless of temperature or humidity. Pressing the up and down buttons in this mode will change the speed of the fan. Which ever speed is designated in this mode will also be the speed used in ON, AUTO and SMART Mode.

PROGRAMMING

3. HIGH TEMP. TRIGGER

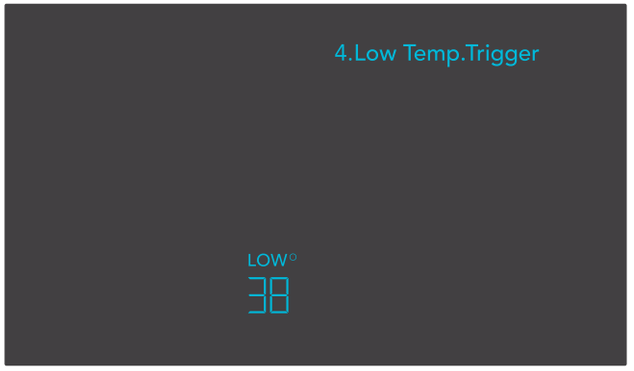
In this settings mode, press the up and down button to set a high temperature trigger. The fans will activate if the probe's measured temperature exceeds the temperature you have set in this mode. If in SMART Mode, activated fans will slowly increase in speed until it reaches the speed set in (2) Fan Speed; and will slowly decrease in speed whenever the measured temperature falls below your set temperature. If in AUTO Mode, activated fans will run at the speed set in (2) Fan Speed; and will stop running whenever the measured temperature falls below your set temperature by the number set as your buffer. You may also hold the up and down button simultaneously to turn off this trigger, in which the display will show OF for off. Remember to return to the main screen after you finished adjusting your settings.



---

4. LOW TEMP. TRIGGER SETTING

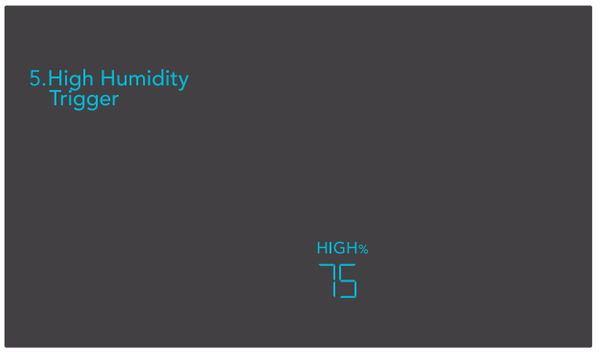
In this settings mode, press the up and down button to set a low temperature trigger. The fans will activate if the probe's measured temperature falls below the temperature you have set in this mode. If in SMART Mode, activated fans will slowly increase in speed until it reaches the speed set in (2) Fan Speed; and will slowly decrease in speed whenever the measured temperature rises above your set temperature. If in AUTO Mode, activated fans will run at the speed set in (2) Fan Speed; and will stop running whenever the measured temperature rises above your set temperature by the number as your buffer. You may also hold the up and down button simultaneously to turn off this trigger, in which the display will show OF for off. Remember to return to the main screen after you finished adjusting your settings.



PROGRAMMING

5. HIGH HUMIDITY TRIGGER

In this settings mode, press the up and down button to set a high humidity trigger. The fans will activate if the probe's measured humidity exceeds the humidity you have set in this mode. If in SMART Mode, activated fans will slowly increase in speed until it reaches the speed set in (2) Fan Speed; and will slowly decrease in speed whenever the measured humidity falls below your set humidity. If in AUTO Mode, activated fans will run at the speed set in (2) Fan Speed; and will stop running whenever the measured humidity falls below your set humidity by the number set as your buffer. You may also hold the up and down button simultaneously to turn off this trigger, in which the display will show OF for off. Remember to return to the main screen after you finished adjusting your settings.



---

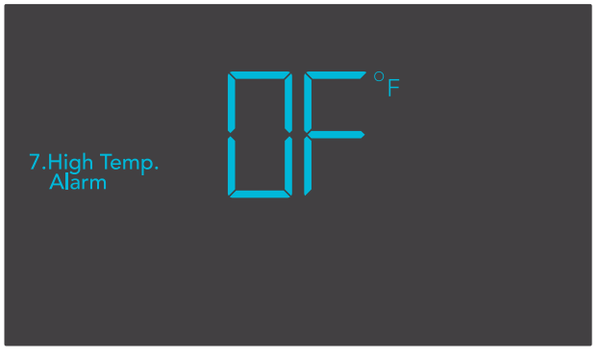
6. LOW HUMIDITY TRIGGER

In this settings mode, press the up and down button to set a low humidity trigger. The fans will activate if the probe's measured humidity falls below the humidity you have set in this mode. If in SMART Mode, activated fans will slowly increase in speed until it reaches the speed set in (2) Fan Speed; and will slowly decrease in speed whenever the measured humidity rises above your set humidity. If in AUTO Mode, activated fans will run at the speed set in (2) Fan Speed; and will stop running whenever the measured humidity rises above your set humidity by the number set as your buffer. You may also hold the up and down button simultaneously to turn off this trigger, in which the display will show OF for off. Remember to return to the main screen after you finished adjusting your settings.

PROGRAMMING

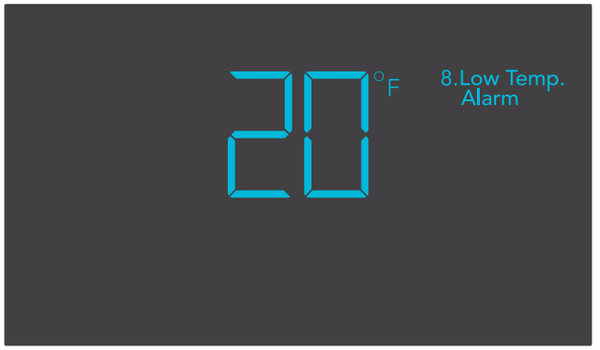
7. HIGH TEMPERATURE ALARM

In this settings mode, press the up and down button to set a high temperature alarm. The alarm will activate if the probe's measured temperature exceeds the temperature you have set in this mode. When the alarm triggers, the fan will start spinning at max speed regardless of your other settings. You may also hold the up and down button simultaneously to turn off this alarm, in which the display will show OF for off. Remember to return to the main screen after you finished adjusting your settings.



8. LOW TEMPERATURE ALARM

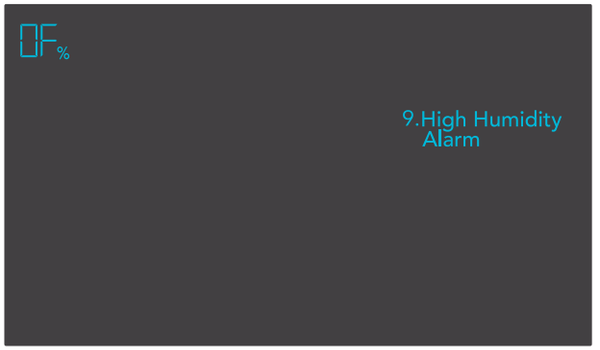
In this settings mode, press the up and down button to set a low temperature alarm. The alarm will activate if the probe's measured temperature falls below the temperature you have set in this mode. When the alarm triggers, the fan will start spinning at max speed regardless of your other settings. You may also hold the up and down button simultaneously to turn off this alarm, in which the display will show OF for off. Remember to return to the main screen after you finished adjusting your settings.



PROGRAMMING

9. HIGH HUMIDITY ALARM

In this settings mode, press the up and down button to set a high humidity alarm. The alarm will activate if the probe's measured humidity exceeds the humidity you have set in this mode. When the alarm triggers, the fan will start spinning at max speed regardless of your other settings. You may also hold the up and down button simultaneously to turn off this alarm, in which the display will show OF for off. Remember to return to the main screen after you finished adjusting your settings.



---

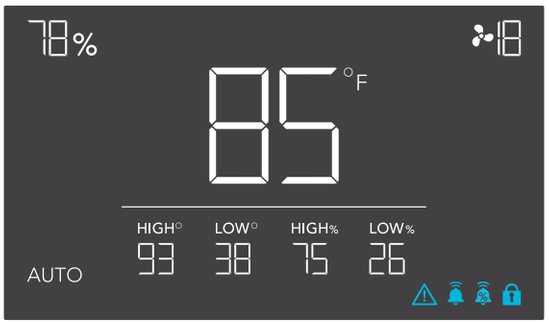
10. LOW HUMIDITY ALARM

In this settings mode, press the up and down button to set a low humidity alarm. The alarm will activate if the probe's measured humidity falls below the humidity you have set in this mode. When the alarm triggers, the fan will start spinning at max speed regardless of your other settings. You may also hold the up and down button simultaneously to turn off this alarm, in which the display will show OF for off. Remember to return to the main screen after you finished adjusting your settings.

PROGRAMMING

ALERT ICONS

On the bottom right of the display there are four alert icons. They are visible to show that the system's functions are being monitored. They will flash when the controller wishes to alert you that a particular function is being triggered.



FAN FAILURE ALERT

The fan failure icon will flash when one or more fans in the AIRTITAN cooling system fails. Please see page 21 for contact information regarding fan replacement and exchanges.

TEMPERATURE ALARM ALERT

The temperature alarm alert icon will flash when the probe temperature reaches or exceeds the high temp. alarm temperature you have set. The alarm will also turn on if the probe temperature is lower than the low temp. alarm temperature.

HUMIDITY ALARM ALERT

The humidity alarm alert icon will flash when the probe humidity reaches or exceeds the high humidity alarm humidity you have set. The alarm will also turn on if the probe humidity is lower than the low humidity alarm humidity.

DISPLAY LOCK ALERT

This icon is not visible when the controller is unlocked. The icon will flash when any buttons are pressed while the controller is locked. Please see page 19 for more information.

PROGRAMMING

FAHRENHEIT OR CELSIUS

The temperatures displayed can be set to Fahrenheit or Celsius scale by holding up button to change into Fahrenheit and holding down button to change into Celsius. All digits displayed will be automatically converted to the designated scale.

DISPLAY BRIGHTNESS

To adjust the brightness of the display, please be in the main screen view, then press the up button repeatedly to increase the brightness. Press the down button repeatedly to decrease the brightness. There are three brightness settings available.

CONTROLLER LOCK

Holding the LEAF button for three or more seconds will lock the controller. The controller will still work as programmed; however, pressing any buttons will not have an effect and will cause the screen lock icon to flash and will make an audible beep three times a second. This option was designed to prevent your controller settings from being changed by accident. Holding the LEAF button again for three or more seconds will unlock the controller.

BUFFER

Holding the MODE button and up or down button simultaneously, you can change the buffer to 2 or 4. For high temperature or alarm triggers, the fans will stop running when the measured value falls below your set value by the number set as the buffer. For low temperature or alarm triggers, the fans will stop running when the measured value rises above your set value by the number set as the buffer.

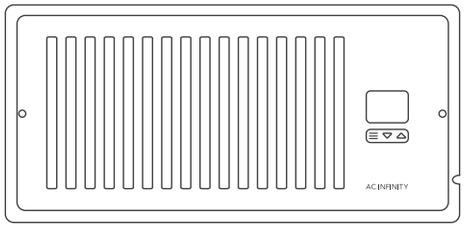
ECO-DISPLAY

To conserve energy, you can choose to set the display into Eco Mode by pressing the button with a leaf on it to turn the display off. All programs will be operating in the background and fans will still be triggered to run according to the settings. Press any button will turn the display back on.

AC INFINITY PRODUCTS

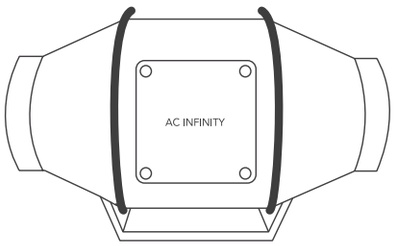
Register Booster Fans

The AIRTAP series is a line of register booster fans designed to quietly increase airflow coming from your central heat and air conditioning systems, increasing comfort for your home. Features a thermal controller with intelligent programming that will automatically adjust airflow strength in response to heating and cooling temperatures you have set.



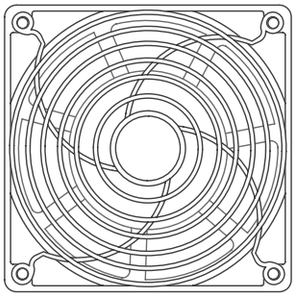
Duct Fans

The CLOUDLINE series is a line of duct fans designed to quietly ventilate AV rooms and closets, as well as various DIY air circulation and exhaust projects. Features a thermal controller with intelligent programming that will automatically adjust duct fan speeds in response to changing temperatures.



Project Muffin Fans

The AXIAL series fan kit is designed for various DIY projects that requires cooling or ventilation; or as a replacement fan for many products on the market. Each fan kit includes fan guards and everything needed to mount the unit onto a wall and power it through a wall outlet. S-series models include a speed controller.



Discover the latest innovations in cooling and ventilation at acinfinity.com

WARRANTY

This warranty program is our commitment to you, the original purchaser, that each product sold by AC Infinity will be free from defects in manufacturing for a period of two years from the date of purchase. If a product is found to have a defect in material or workmanship, we will take the appropriate actions defined in this warranty to resolve any issues.

The warranty program applies to any order, purchase, receipt, or use of any products from AC Infinity. The program covers products that have become defective, malfunctioned, or expressively if the product becomes unusable. The warranty program goes into effect on the date of purchase. The program will expire two years from the date of purchase. If your product becomes defective during that period, AC Infinity will replace your product with a new one or issue you a full refund.

The warranty program does not cover abuse or misuse. This includes physical damage, submersion of the product in water, incorrect Installation such as wrong voltage input, and misuse for any reason other than intended purposes. AC Infinity is not responsible for consequential loss or incidental damages of any nature caused by the product. We will not warrant damage from normal wear such as scratches and dings.

If you are not 100% satisfied with this product, we will be happy to replace it or issue you a full refund. Please contact us!

COPYRIGHT © 2018 AC INFINITY INC. ALL RIGHTS RESERVED
No part of the materials including graphics or logos available in this booklet may be copied, photocopied, reproduced, translated or reduced to any electronic medium or machine readable form, in whole or in part, without specific permission from AC Infinity Inc.

www.acinfinity.com