AC INFINITY

# AIRBLAZE

## FIREPLACE BLOWER SYSTEM

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 AB1902X2

| PRODUCT | MODEL | UPC-A |
|---|---|---|
| AIRBLAZE T10 | AC-FBA10 | 00819137020863 |
| AIRBLAZE T12 | AC-FBA12 | 00819137020870 |
| AIRBLAZE T14 | AC-FBA14 | 00819137020887 |



**SERIOUS INJURY OR DEATH. Please do not touch the blower's impeller and blades. Secure all nearby objects including wires and cables from coming into contact with the blower's impeller and blades. Use caution when deciding where to install this blower.**

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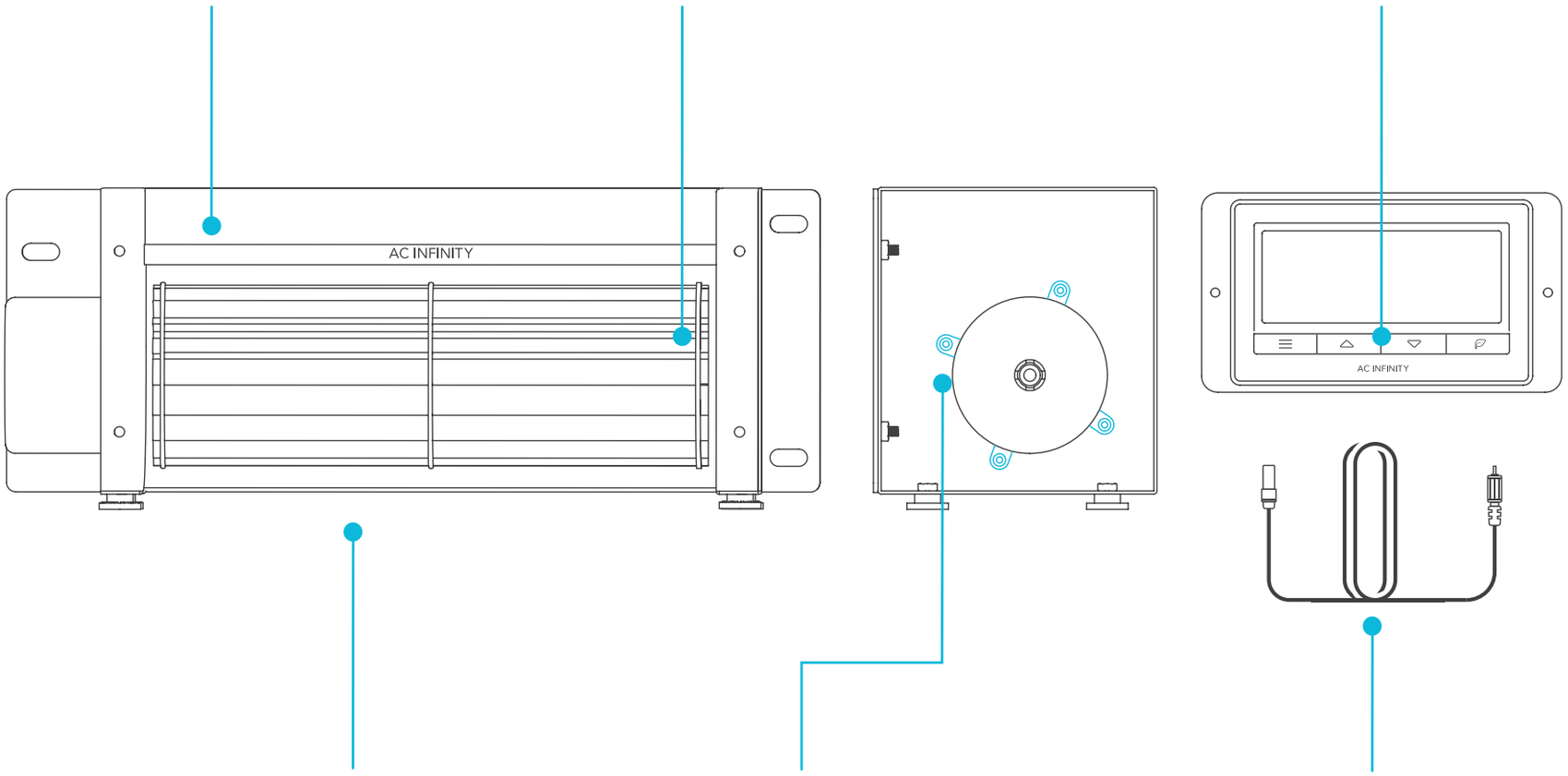
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# KEY FEATURES

## HEAVY DUTY BUILD
Cold-rolled steel construction ensures the blower unit can with stand an high temperatures environment.

## IP-32 PROTECTION
The blower unit is sealed to Ingress Protection 32 standards to be highly resistant to liquid and dust.

## SMART CONTROLLER
Digital controller adjusts airflow in response to high and low temperatures, as well as humidity.



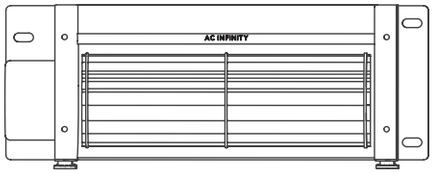

## DUAL BALL BEARINGS
Fans contain long-life ball bearings rated at 67,000 hours. Also enables fans to be mounted in any direction.

## ANTI VIBRATION
The impeller is suspended in mid-air with four silicone rubber rivets to absorb vibrations and reduce blower noise.

## PRECISE PROBE
The corded probe is constructed of stainless steel to ensure precise temperature and humidity readings.

# PRODUCT CONTENTS

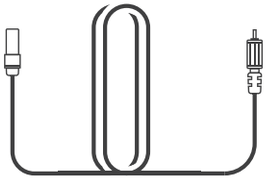
## AIRBLAZE FIREPLACE BLOWER SYSTEM (Included in all series)



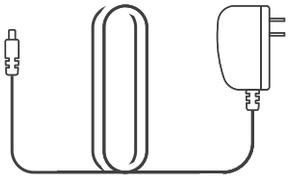

BLOWER
UNIT
(x1)



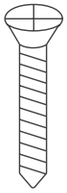
UNIVERSAL
CONTROLLER
(x1)



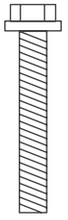
SENSOR
PROBE
(x1)



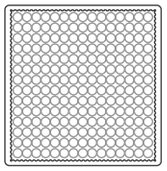
POWER
ADAPTER
(x1)



WOOD
SCREW
(x3)



MOUNTING
SCREWS
(x3)



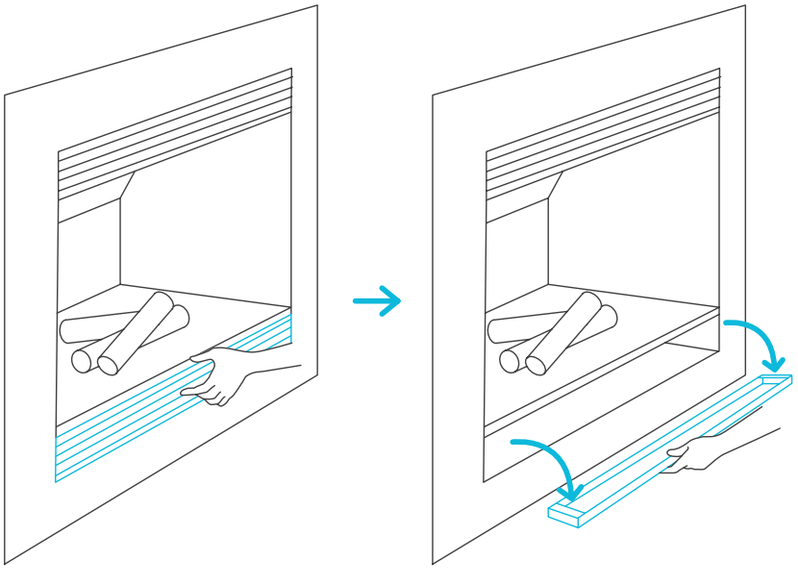
VELCRO
STRIPS
(x2) (x3) (x4)

# MOUNTING

## STEP 1

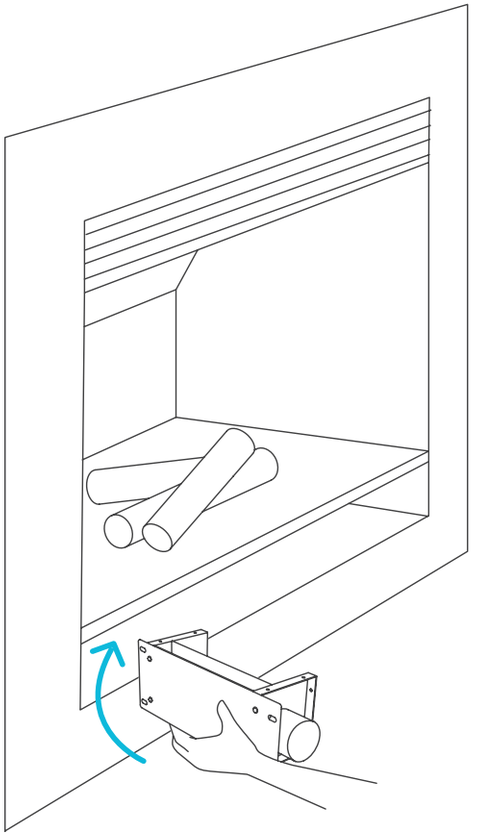
**WARNING: Turn off the gas and electrical power before installing the kit!**

While the fireplace is cool and off, remove the lower half of the fireplace vent plate. Clean the inside of the area of any dust or dirt.



## STEP 2

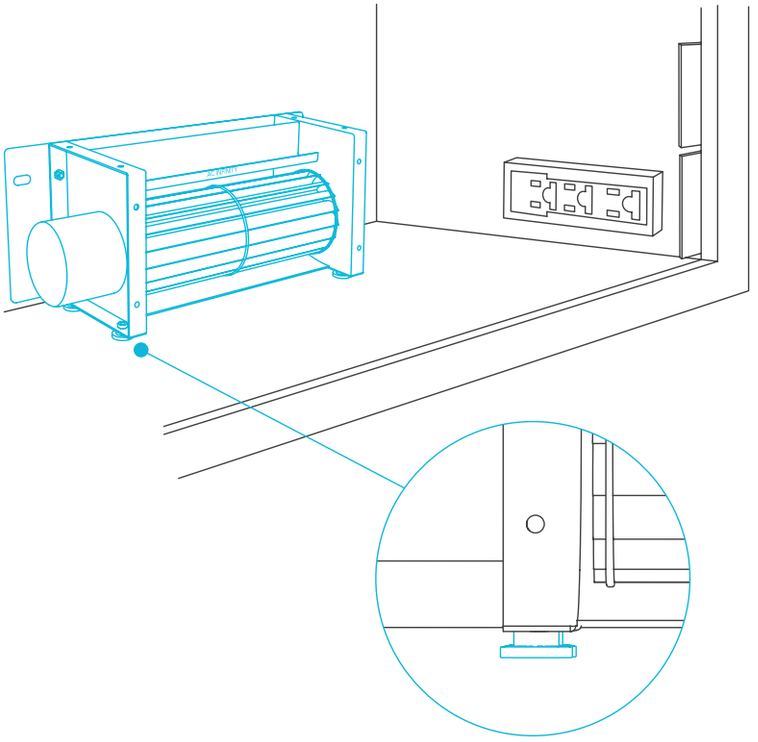
While very carefully placing the blower towards the rear, be sure the opening of the fan in which the air blows out is facing up and the rubber feet are facing the floor. Avoid any gas lines or electrical wires that are already in place.



# MOUNTING

### STEP 3

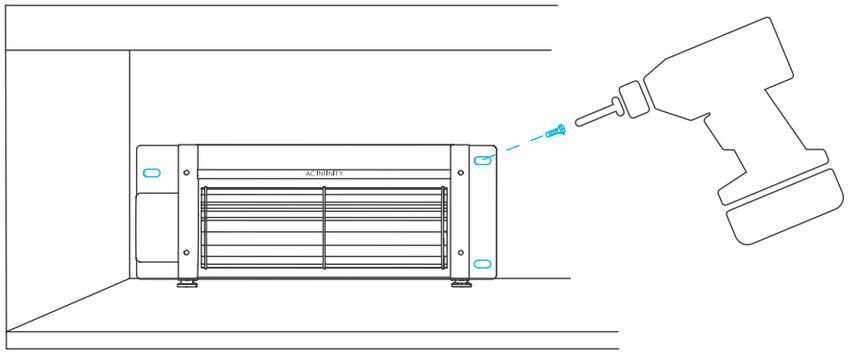
Be sure the metal plate is placed towards the wall of the vent and the rubber feet are placed against the floor with the fan blades facing forward as pictured in the illustration.



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### STEP 4

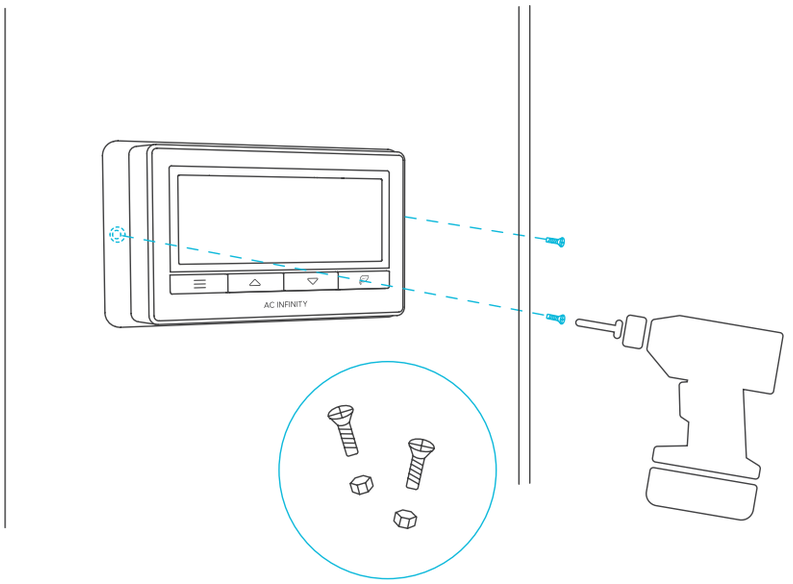
Be sure that the area you are mounting has no gas lines or electrical wires in the way of the drilling area. Use a power drill to mount the fan in place with the included screws to reduce any unwanted vibrations.



# MOUNTING

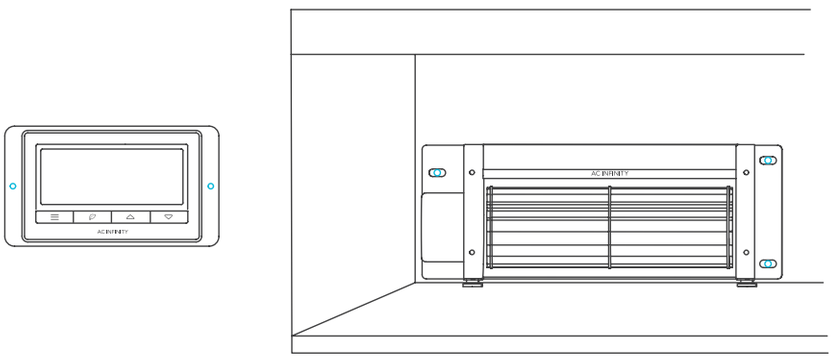
## STEP 5

To mount the controller, position it on the outside of the vent away from the fireplace and use the included screw sets. Use a drill to screw the controller into place.




## STEP 6

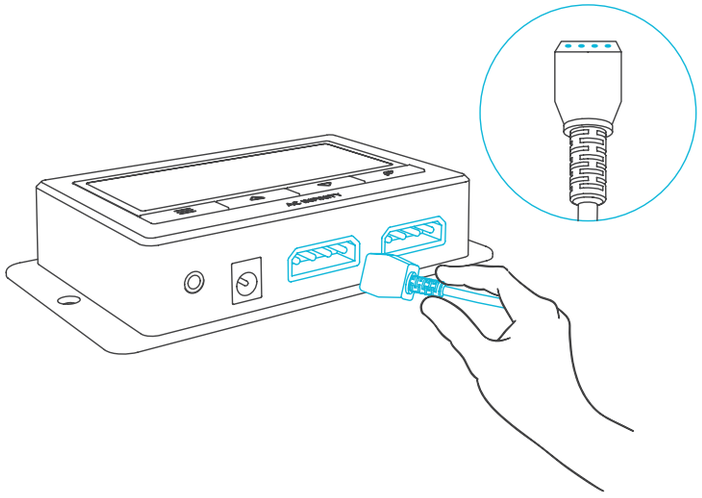
Once the fan and Universal Controller are securely mounted with in a safe distance, you are now able to continue to powering.



# POWERING

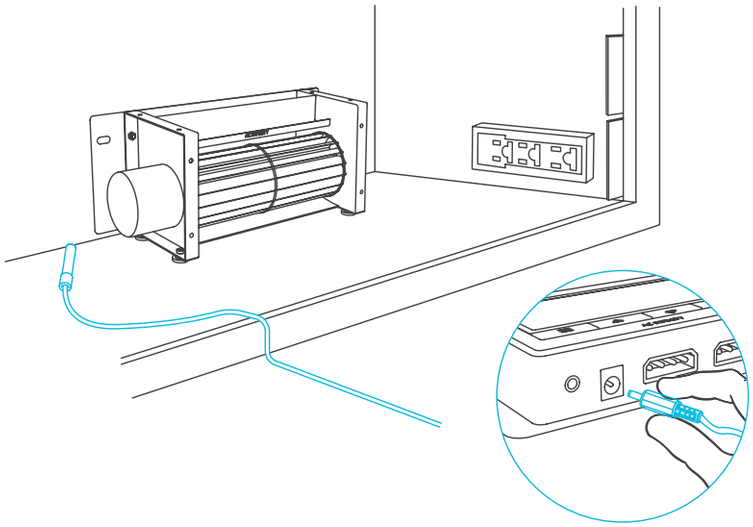
## STEP 1

The blower unit comes corded with a 4-pin molex connector. Locate the connector and plug it into the bottom of the controller. Please make sure the this cord is secured away from contacting the blower's spinning impeller and blades.



## STEP 2

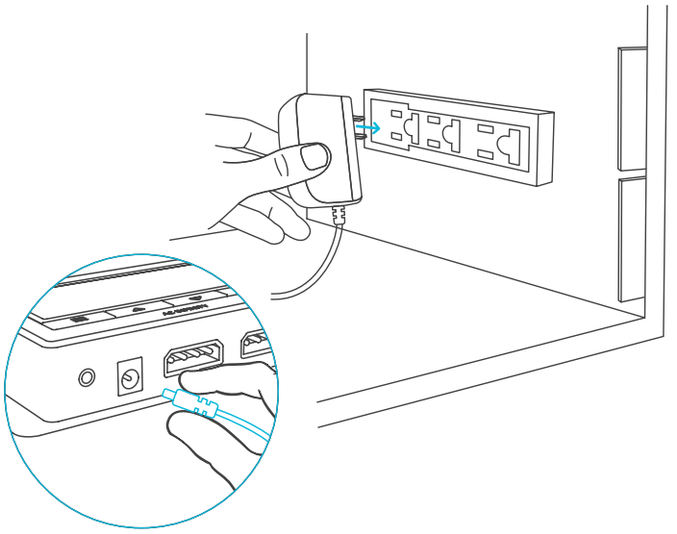
Plug in the thermal probe directly under the controller, the probe has to be placed with in the same area as the blower underneath the fireplace. The probe should be able to detect heat once the fire place is on to start the blower. Please make sure the this cord is secured away from contacting the blower's spinning impeller and blades.



# POWERING

### STEP 3

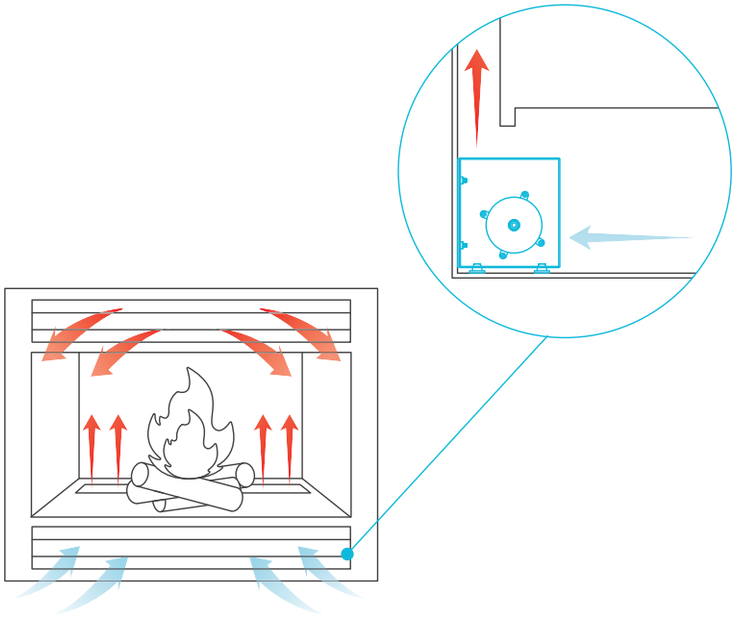
To power the device, plug the adapter pin into the Universal controller, and the prong end into the outlet inside the fire place or outside the fireplace if there are no outlets.



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### STEP 4

Follow the instructions starting on page 13 to program the controller. When the sensor probe detects a temperature or humidity that exceeds your settings, the blower will starting moving air. This accelerates air being moved from the bottom of the fireplace vents, through the fire place, and exhausting out the top. The heated air that the fireplace created will circulate back into the room at a faster face and warm up a larger area.

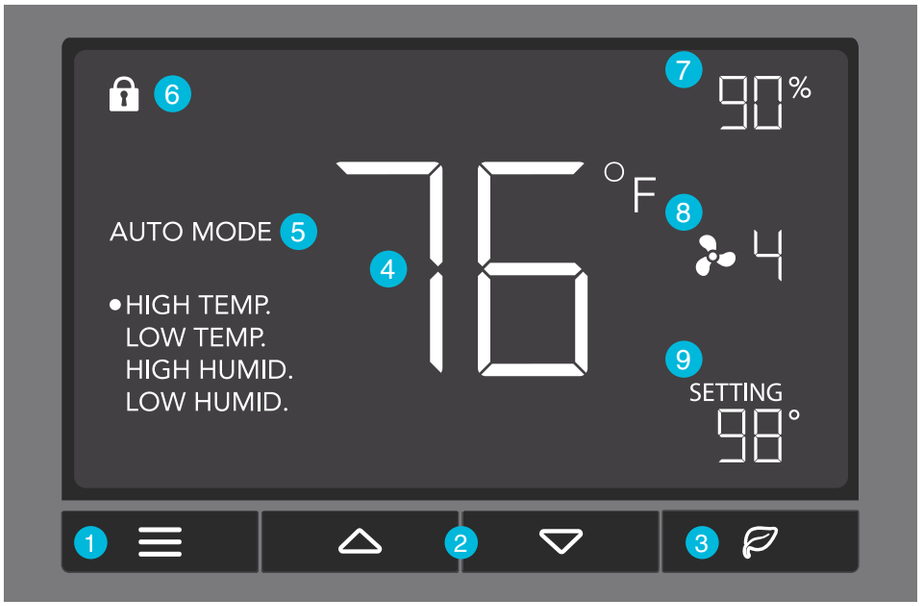


# PROGRAMMING

### 1. MODE BUTTON
This button cycles through each of the controller's modes: ON, OFF, TIMER, AUTO (4 triggers), and ALARM (4 settings).

### 2. UP / DOWN BUTTON
The up and down buttons adjusts the settings of the mode that you are in. Up button increases and down button decreases.

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




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

### 5. CONTROLLER MODE
This area displays the mode that the controller is currently in. Press the Mode Button to cycle through the modes.

### 6. ALERT ICONS
This area displays the alerts and statuses from the controller including alarms and screen lock.

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

### 8. FAN SPEED
Displays the current speed the fan is running at, or what speed it should be running at if no fans are plugged in.

### 9. SETTING
Displays the value you have set for the current mode. Press the up or down button to change.

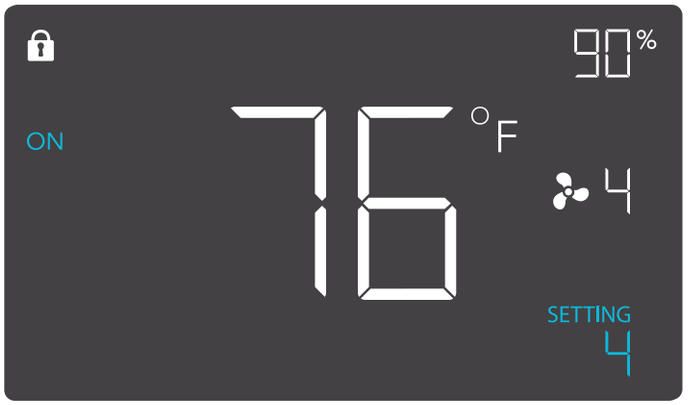
# PROGRAMMING

## MODE SETTING

Press the Mode button to cycle through the controller's available programming modes and settings: ON Mode, OFF Mode, TIMER Mode, AUTO Mode (4 triggers), ALARM Settings (4 settings).

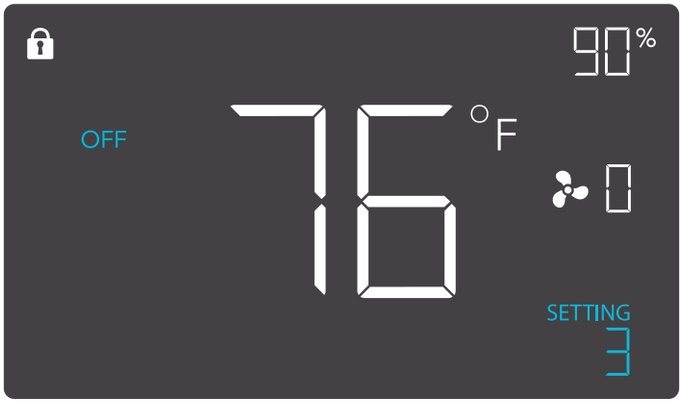
### ON MODE

In this mode, the fans will run continuously regardless of temperature or humidity. The speed set in this mode will be the max speed the fans can reach in AUTO Mode.



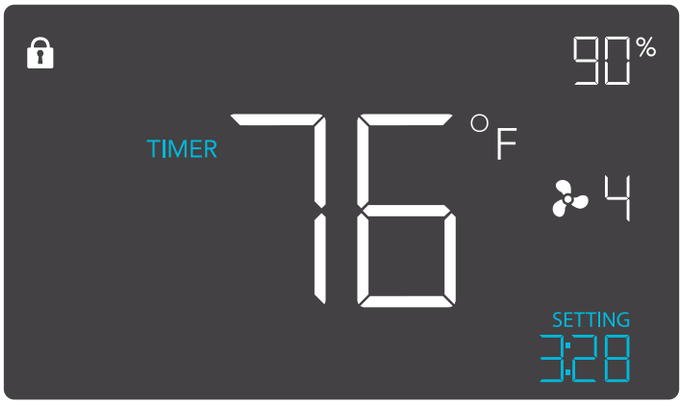

### OFF MODE

In this mode, the fans will not run regardless of temperature or humidity. While in this mode, pressing the up or down button will change the display's brightness. There are four settings for brightness, (Setting:1/2/3/A3). On setting A3, if the device is left unattended for 30 seconds, the display will automatically dim its brightness back to setting 1. Holding up or down button will change the display's units F or C.




### TIMER MODE

In this mode, press the up or down button to set a time for the timer. The fans will run at the speed set in ON Mode until the timer's clock runs out, in which the fans will stop running. The clock will begin counting down if no buttons are pressed for 3 seconds. Leaving the timer mode while the countdown is running will pause the clock until you return to this mode.



# PROGRAMMING

## AUTO MODE: HIGH TEMP.

In this mode, press the up or 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. The activated fans will slowly increase in speed until it reaches the speed set in ON Mode. Whenever the measured temperature falls below your set temperature, the fans will slowly decrease in speed until the fans stop. You may also hold the up and down button simultaneously to turn off this trigger, in which the digits under settings will show OFF.

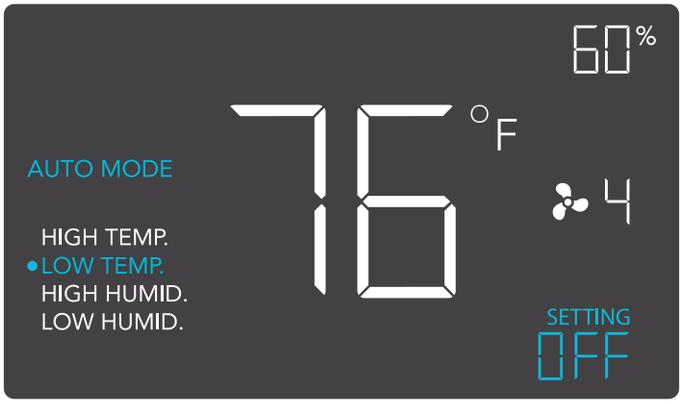



Note that this trigger can activate as long as you are in AUTO Mode, even if you are viewing a different trigger within AUTO Mode.

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## AUTO MODE: LOW TEMP.

In this mode, press the up or 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. The activated fans will slowly increase in speed until it reaches the speed set in ON Mode. Whenever the measured temperature rises above your set temperature, the fans will slowly decrease in speed until the fans stop. You may also hold the up and down button simultaneously to turn off this trigger, in which the digits under settings will show OFF.

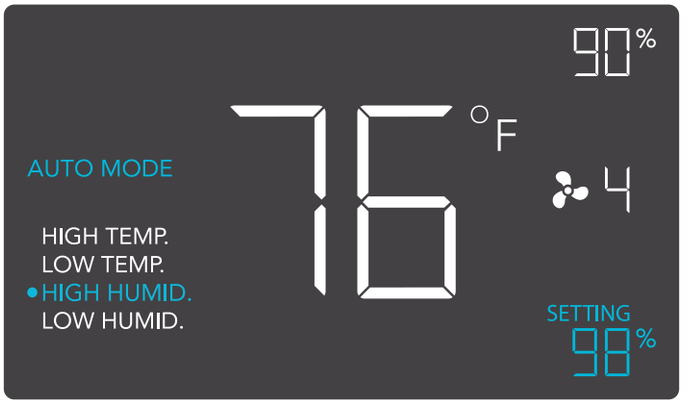



Note that this trigger can activate as long as you are in AUTO Mode, even if you are viewing a different trigger within AUTO Mode.

# PROGRAMMING

## AUTO MODE: HIGH HUMID.

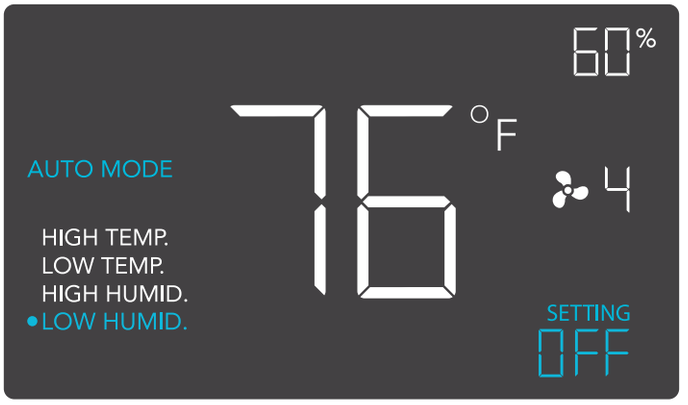
In this mode, press the up or down button to set a high humidity trigger. The fans will activate if the probe's measured humidity exceeds the humidity you have set in this mode. The activated fans will slowly increase in speed until it reaches the speed set in ON Mode. Whenever the measured humidity falls below your set humidity, the fans will slowly decrease in speed until the fans stop. You may also hold the up and down button simultaneously to turn off this trigger, in which the digits under settings will show OFF.




Note that this trigger can activate as long as you are in AUTO Mode, even if you are viewing a different trigger within AUTO Mode.

## AUTO MODE: LOW HUMID.

In this mode, press the up or 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. The activated fans will slowly increase in speed until it reaches the speed set in ON Mode. Whenever the measured humidity rises above your set temperature, the fans will slowly decrease in speed until the fans stop. You may also hold the up and down button simultaneously to turn off this trigger, in which the digits under settings will show OFF.

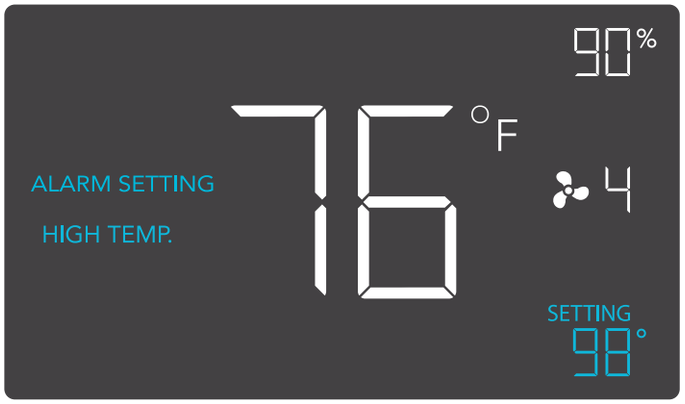



Note that this trigger can activate as long as you are in AUTO Mode, even if you are viewing a different trigger within AUTO Mode.

# PROGRAMMING

## ALARM SETTING: HIGH TEMP.

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 gradually to 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 digits under settings will show OFF.

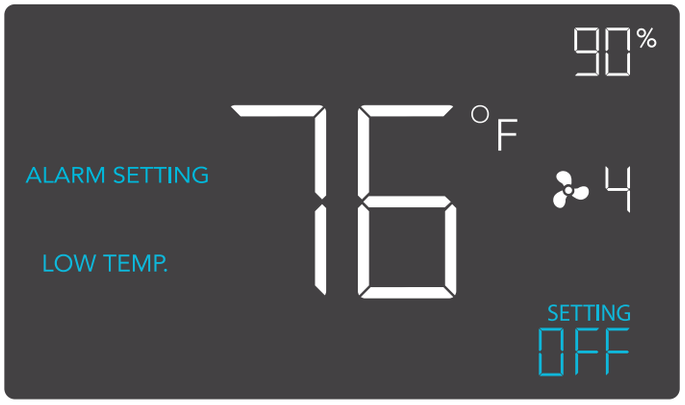



Note that alarm triggers can only activate in AUTO, ON, or TIMER Mode. Please leave ALARM SETTING to arm the controller.

---

## ALARM SETTING: LOW TEMP.

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 gradually to 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 digits under settings will show OFF.




Note that alarm triggers can only activate in AUTO, ON, or TIMER Mode. Please leave ALARM SETTING to arm the controller.

# PROGRAMMING

### ALARM SETTING: HIGH HUMID.

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 gradually to 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 digits under settings will show OFF.

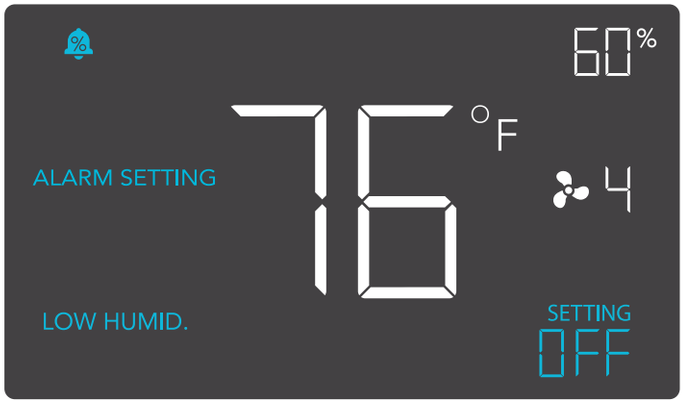



Note that alarm triggers can only activate in AUTO, ON, or TIMER Mode. Please leave ALARM SETTING to arm the controller.

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### ALARM SETTING: LOW HUMID.

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 gradually to 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 digits under settings will show OFF.




Note that alarm triggers can only activate in AUTO, ON, or TIMER Mode. Please leave ALARM SETTING to arm the controller.

# PROGRAMMING

## FAHRENHEIT OR CELSIUS

To change to displayed units between Fahrenheit and Celsius, please set the controller to OFF Mode, then hold the up button for Fahrenheit (°F) or hold the down button for Celsius (°C).

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## DISPLAY BRIGHTNESS

To adjust the brightness of the display, please set the controller to OFF Mode, then press the up or down button to increase or decrease the brightness level. Four brightness settings are available.

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## TEMPERATURE CALIBRATION

To adjust the temperature that the probe sensor is measuring, please press the MODE and UP button simultaneously. This can be done while the controller is any mode or setting. The calibration cycle ranges from -8°F to 8°F (or -4°C to 4°C) and will be applied to the probe sensor's measurements.

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## HUMIDITY CALIBRATION

To adjust the humidity that the probe sensor is measuring, please press the MODE and DOWN button simultaneously. This can be done while the controller is any mode or setting. The calibration cycle ranges from -8% to 8% and will be applied to the probe sensor's measurements.

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## CONTROLLER LOCK

To lock the controller to prevent settings to be changed accidentally, hold the LEAF button for two or more seconds. While the display is locked, you will not be able to switch modes or changes any settings. You will only be able to put the controller in ECO display by pressing the LEAF button. Holding the LEAF button for two or more seconds will unlock the controller.

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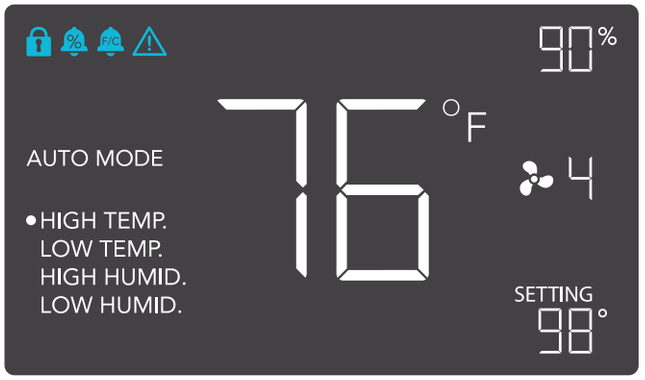
## ECO-MODE

The controller can be put into ECO display in which the screen will be turned off but all programs, settings, and alarms will be running in the background. This can be done by pressing the LEAF button. You may also do this while the controller is locked. To exit ECO display, simply press any buttons.

# PROGRAMMING

## ALERT ICONS

On the top left of the display is the alert icon section. Icons may flash when the controller wishes to alert you that a particular function or alarm is being triggered.




### DISPLAY LOCK ALERT

This icon is visible when the controller has been locked. The icon will flash to alert you that the controller is locked if you try to change the mode or settings.

### HUMIDITY ALARM ALERT

This icon will flash when the high or low humidity alarm that you have set has been triggered.

### TEMPERATURE ALARM ALERT

This icon will flash when the high or low temperature alarm that you have set has been triggered.

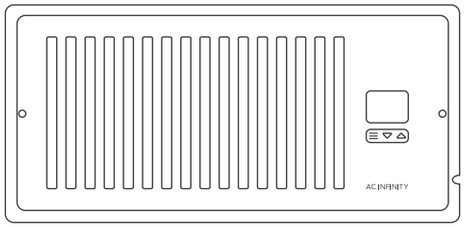
### CHECK FAN ALERT

This icon will flash when the fan's sensor detects interference to its operation. Please check the fan for possible issues. If the fan is rotating, it may just be static pressure resistance and operating as intended. If the fan is not rotating, please see the warranty page for replacement information.

# AC INFINITY PRODUCTS

## Register Booster Fans

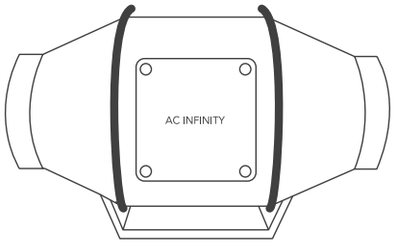
The AIRTAP series is a line of register booster fans designed to quietly increase airflow coming from your central heat and air conditioning systems, increasing comfort for your home. Features a thermal controller with intelligent programming that will automatically adjust airflow strength in response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




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## Duct Fans

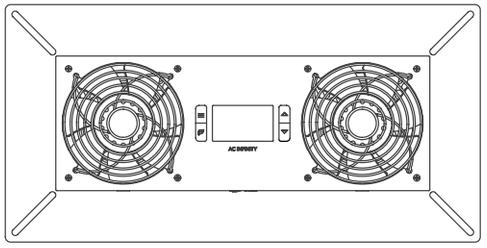
The CLOUDLINE series is a line of duct fans designed to quietly ventilate AV rooms and closets, as well as various DIY air circulation and exhaust projects. Features a thermal controller with intelligent programming that will automatically adjust duct fan speeds in re-sponse to changing temperatures.




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## Crawlspace Fans

The AIRTITAN is a line of weather-proof fans designed to provide ventilation, odor, and moisture control for crawl spaces and basements. It features a digital controller with intelligent programming that will adjust airflow strength in response to high and low temperatures, as well as humidity.



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

# WARRANTY

This warranty program is our commitment to you, the 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 sold by AC Infinity or our authorized dealerships. 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.

For more information about our dealers and distributors, please contact our customer service at support@acinfinity.com or (626) 923-6399 Monday to Friday (9:00 am to 5:00 pm PST).




**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!**

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