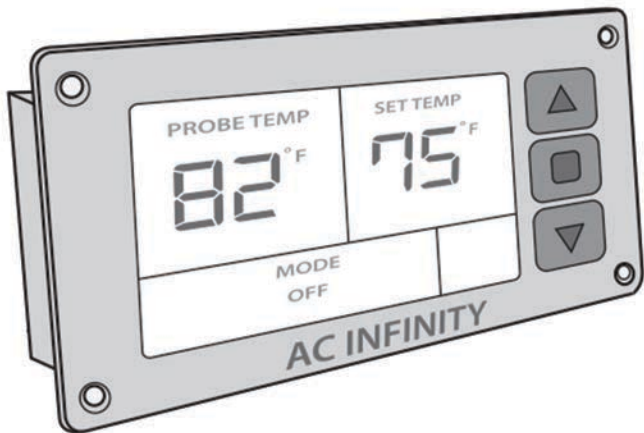




# THERMAL CONTROLLER ADVANCE THERMOSTAT



INSTALLATION AND WARRANTY MANUAL

# MANUAL INDEX

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**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!**

## **EMAIL**

support@acinfinit.com

## **PHONE**

626-336-0800

## **WEB**

www.acinfinit.com

## **FAX**

626-336-0810

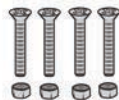
# PRODUCT CONTENTS



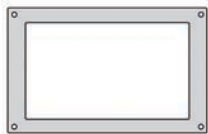
THERMAL CONTROLLER



POWER ADAPTER



MOUNTING SET

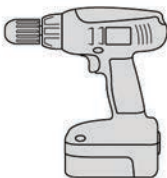


PLASTIC STENCIL

Depending on the product you purchased, your kit may include a cabinet fan with its own stencil, and mounting set.

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## WALL MOUNTING YOU MAY NEED



# FEATURES

## QUICK START

Press the square button to go through the four available modes: AUTO, SMART, OFF, and ON. The AUTO mode works just like a thermostat; leave the controller in this mode, then press the up and down triangle buttons to change the SET TEMP on the screen. The PROBE TEMP on the left is the temperature that the controller is measuring. When the PROBE TEMP exceeds the SET TEMP, the fan will start running.

### 1. SQUARE BUTTON

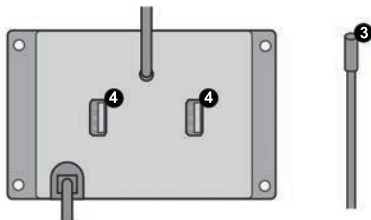
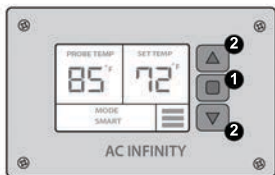
Changes the unit's mode: AUTO, SMART, OFF, and ON. Holding this button for three seconds will change degrees from Fahrenheit to Celsius.

### 2. UP / DOWN BUTTON

Depending on which mode you are in, the up and down buttons changes the SET TEMP or the speed of the fan.

### 3. THERMAL PROBE

The unit's thermal probe measures the surrounding temperature and shows it under PROBE TEMP of the display.



### 4. COMPATIBILITY

There are two USB ports on the unit's backside which can power up to a total of four MULTIFAN or AIRPLATE fans. Certain 5V DC USB fans can also be compatible but may not be fully functional with the unit's speed control feature.

# FEATURES

## 5. PROBE TEMP

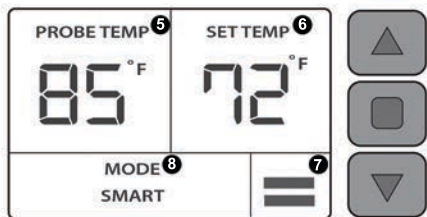
Shows the temperature the unit's thermal probe is measuring. Ranges from 70° to 110°F.

## 6. SET TEMP

Shows the temperature you set in AUTO or SMART mode for when to start the fan. Ranges from 70° to 110°F.

## 7. RECTANGLE BLOCKS

The rectangle blocks indicate the speed of the fan. You can set the speed in ON mode, the same speed will be used during AUTO mode.



## 8. MODE

Shows what mode the controller is currently running on.

**ON** - On Mode, Page 6

**OFF** - Off Mode, Page 7

**SMART** - Smart Mode, Page 7

**AUTO** - Auto Mode, Page 6

## VARIATION BUFFER

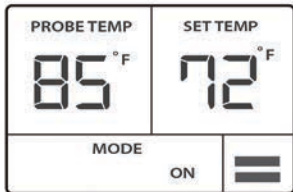
In AUTO and SMART mode, there is a buffer built in to prevent your fan from turning on and off too quickly due to small variations in the environment. When the PROBE TEMP exceeds your SET TEMP, the fan will start running immediately. However, the PROBE TEMP will need to fall below your SET TEMP by more than 4° Fahrenheit or 2° Celsius to stop the fan from running. Once it has stopped, the fan will start again when the PROBE TEMP exceeds your SET TEMP.

# OPERATING

Press the square button to change the mode of the thermal controller.

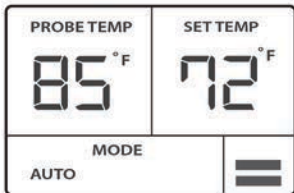
## ON MODE

In this mode, the fans are powered on regardless of set temperature. Pressing the up and down triangle buttons while in this mode will change the speed of the fan, indicated by the rectangle blocks. Whichever speed you leave this mode with will also be the speed used in AUTO Mode.



## AUTO MODE

This is the standard thermostat mode, you can change the SET TEMP by pressing the up and down triangle buttons. The fan will turn on when the PROBE TEMP exceeds your SET TEMP. The speed of the fan when it's running will also be the same as the speed you set during ON MODE.

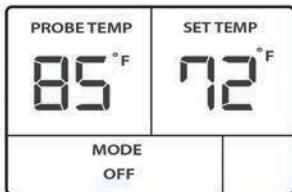


# OPERATING

Press the square button to change the mode of the thermal controller.

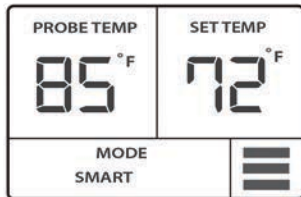
## OFF MODE

In this mode, the fans are powered off regardless of set temperature or set speed.



## SMART MODE

This is the energy saving mode, you can change the SET TEMP by pressing the up and down triangle buttons. The fans speed will adjust depending how far the PROBE TEMP is from the SET TEMP. The rectangle blocks will indicate what speed the fan is currently running at.



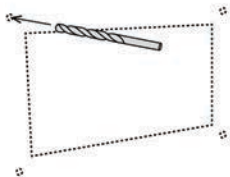
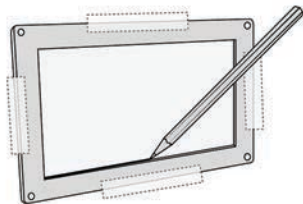
## IDEAL TEMPERATURE

The ideal ambient temperature range is between 68° to 75°F (20° to 24°C) for electronics and components. Temperatures exceeding 85°F may lower performance and reduce life expectancy.

# MOUNTING

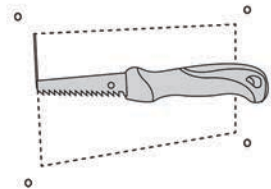
## STEP 1

Determine where you wish to mount the thermal controller. Position the plastic stencil and apply tape to the outer edges. Use a pencil to outline the stencil's center square and four outer screw holes on the stencil.



Using a power drill, create screw holes as outlined by your markings from the previous step. We recommend using a drill bit size from 10/64" to 14/64".

Using a small saw, cut out the center square piece as outlined by your markings from step one. You may need to first drill a hole in the center in order to fit your saw through.

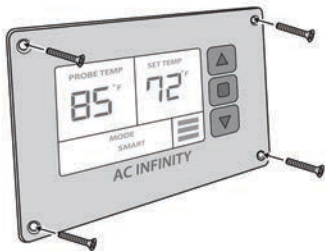




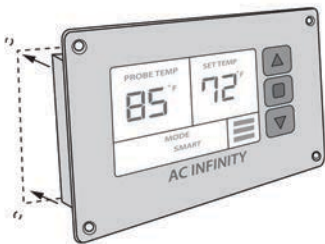
# MOUNTING

## STEP 2

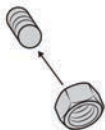
Place the thermal controller into the newly cut square, making sure that each screw hole is properly aligned.



Lastly, place the four nuts on each corresponding screw and tighten to finish securing the unit.



Using the four machine screws, secure the thermal controller's frame onto the cabinet or wall. Push each screw through their corresponding hole located on the frame and wall.



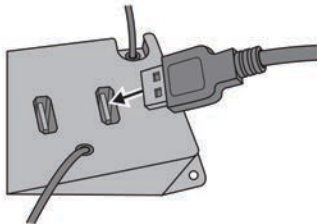
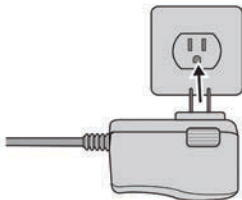
# MOUNTING

## STEP 3



Plug the male connector of the wall adapter into the female connector of the thermal controller unit.

Plug the wall adapter into a wall outlet, which should be a standard 110V.



Plug the fan's USB plug into the USB port located on the back of the thermal control unit. For information on compatible fans, please see page 4.

# 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 one (1) year from the date of delivery. 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 delivery. The program will expire one year from the date of delivery. 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!**

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