AC INFINITY

ARKTICA SERIES

EQUIPMENT RACK CABINETS

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 AR1902X1

PRODUCT	MODEL	UPC-A
ARKTICA T6 Wall Mount	AC-ARK6-TW	819137020740
ARKTICA T9 Wall Mount	AC-ARK9-TW	819137020757
ARKTICA T12 Wall Mount	AC-ARK12-TW	819137020788
ARKTICA T12 With Casters	AC-ARK12-TC	819137020771

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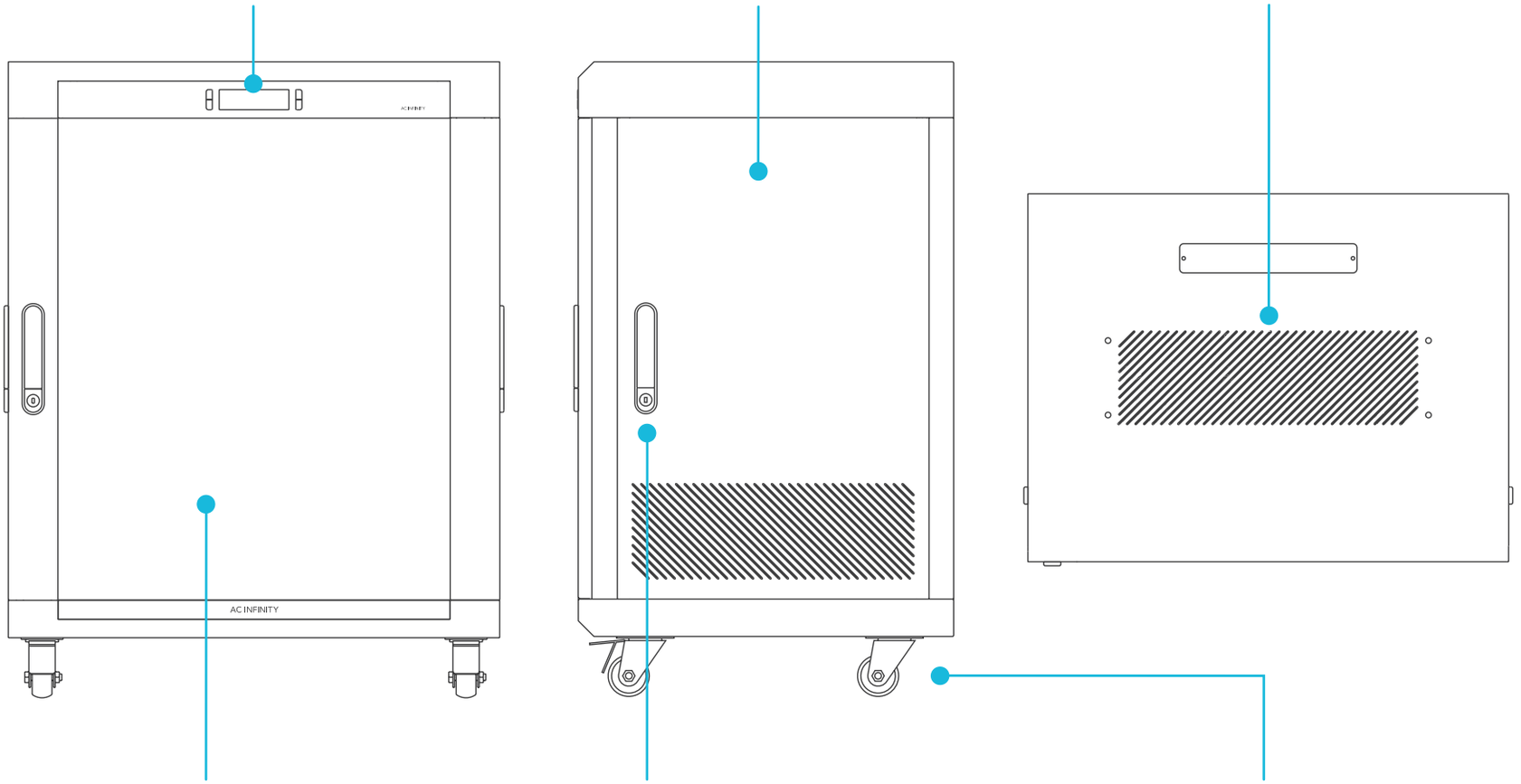
KEY FEATURES

SMART CONTROLLER
LCD display enables temp, monitoring, automated triggers, speed control, timer, alarms, and energy mode.

HEAVY-DUTY BUILD
Thick Cold-rolled steel construction ensures the rack protects mounted equipment and can hold up to 200 lbs.

QUIET COOLING
The internal fan system features a PWM-controlled motor with dual-ball bearings to quietly exhaust out heat.



PREMIUM MATERIALS
Feature smoked tempered glass with anodized aluminum high lights for a professional appearance.

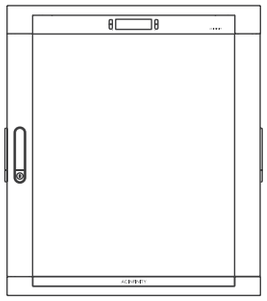
RETRACTABLE HANDLES
Features three full-sized handles that can retract when not in use. Lockable and includes keys.

LOCKABLE CASTERS
Optional casters can be installed onto the rack to allow it to roll on the floor. Can also be locked.

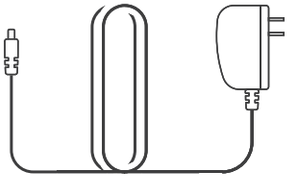
PRODUCT CONTENTS

ARKTICA SERIES - EQUIPMENT RACK CABINETS

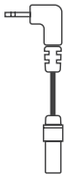
Included In Standing And Wall Mount Models



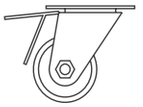
RACK
UNIT
(x1)



POWER
ADAPTER
(x1)

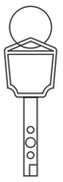


THERMAL
PROBE
(x1)

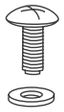


LOCKABLE
WHEELS
(x4)

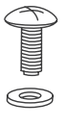
MOUNTING
BAR
(x1)



DOOR
KEYS
(x2)



WHEEL
SCREWS
(x16)



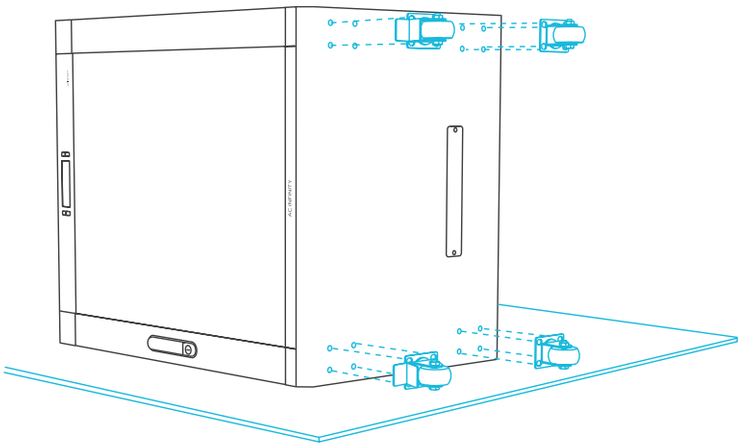
10-32 MOUNT-
ING SCREWS
(x50)

(Wall-mount screws for the brackets are not included. Thermal Probe may be pre-installed already behind the thermal controller.)

ASSEMBLY

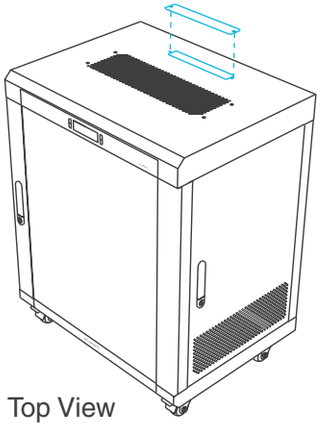
STEP 1

For standing rack models attach the wheels to the rack system by carefully laying down the rack onto a piece of cardboard or carpet to avoid any damage or scratches. Simply screw on the wheels using the included hardware.

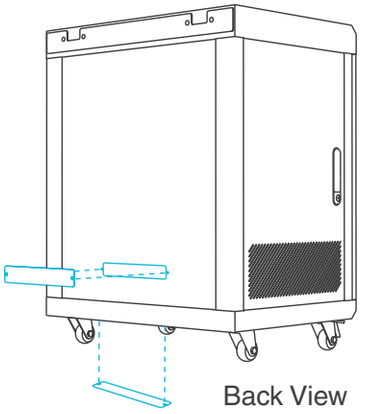


STEP 2

The rack includes three slots, one located on the top and one in the back and another directly underneath the rack that are removable. Depending on your set up you may remove these to connect cable and power connections.



Top View

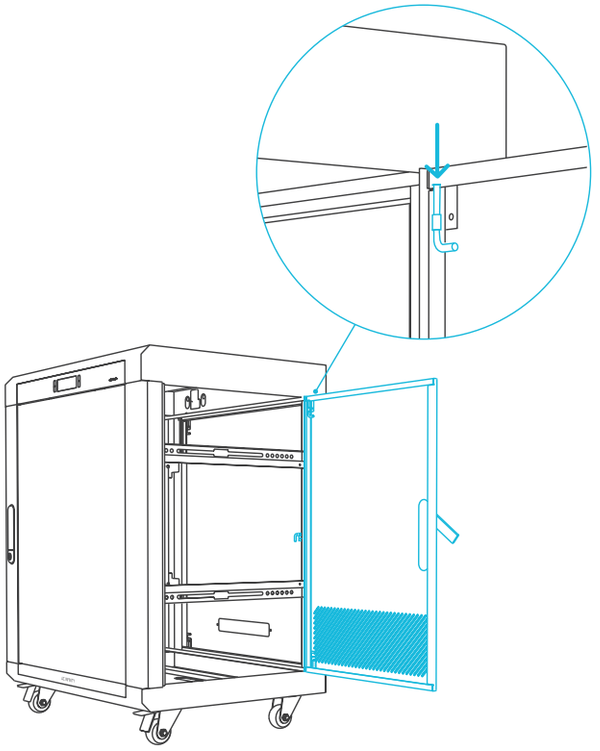


Back View

ASSEMBLY

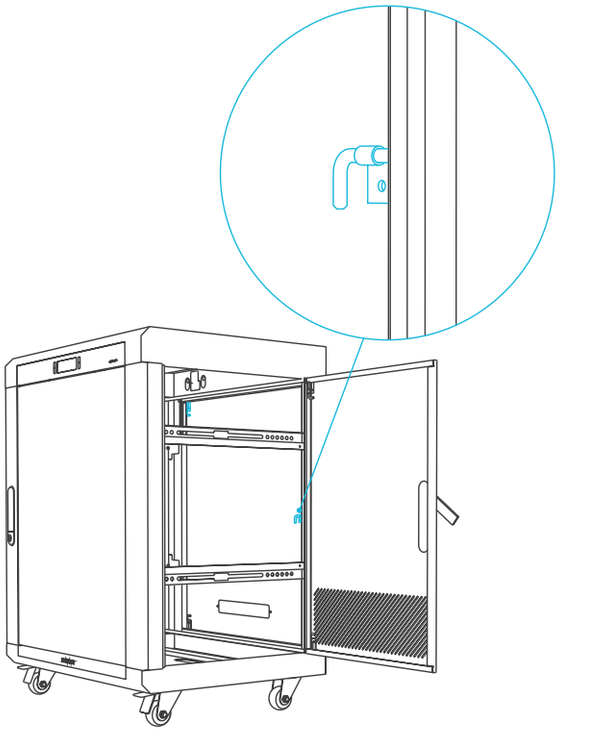
STEP 3

Every door on the rack is removable, if needed you can remove the doors by pushing down the pin hinge on thats on the inside corner. Tilt the door out so the top hinge is outside the hole, and then pull up so the bottom hinge comes off the rack. Remove doors to help during wall installation to prevent any damage.



STEP 4

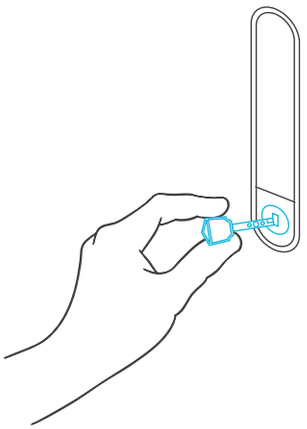
It is recommended to remove the back door or bottom slot if you are mounting your rack against a wall. To remove the back door unhinge the door, on the left side of the door on the inside of the rack is a pin similar to step three, pull the pin to open the back then remove the hinge pin and remove the door.



ASSEMBLY

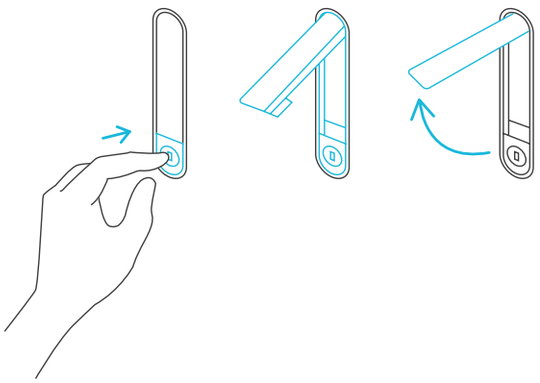
STEP 5

Each door is lockable with the included key set. Make sure the door is completley closed before locking, keep keys in a secure location.



STEP 6

To open each door, push in the key hole area that says PUSH. The door handle will extend out, and can be rotated to the left to open the door.

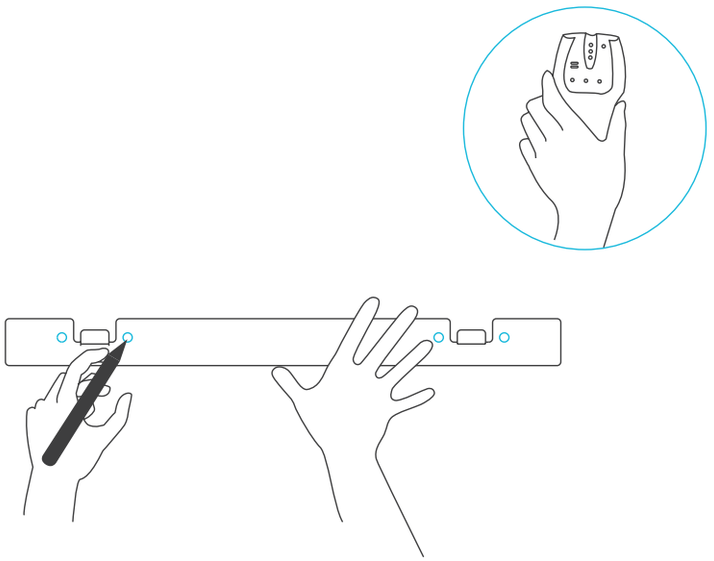


MOUNTING

STEP 1

If you are mounting your rack against the wall, check the wall area for a stud location. The mounting holes must go through a stud support. Lay the mounting bar flat side against the wall. Using the included mounting bar to mark the hole locations.

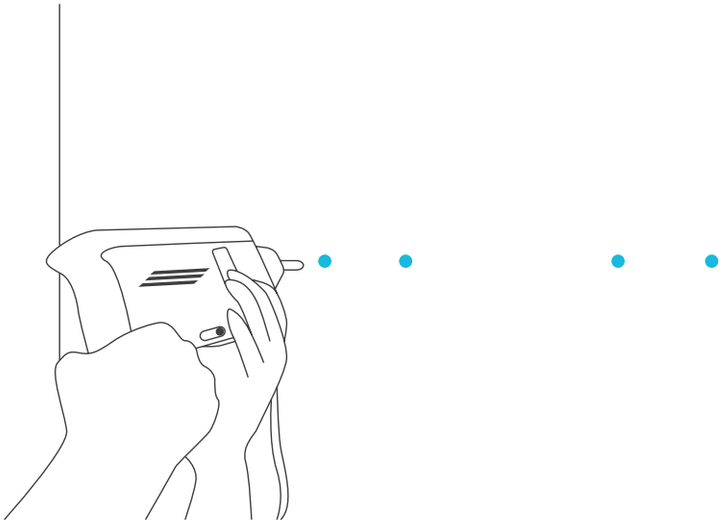
NOTE: Wall Mounting screws are not included.



STEP 2

Once all the hole locations are marked and leveled, drill a 1/2" sized hole for the wall for the anchors.

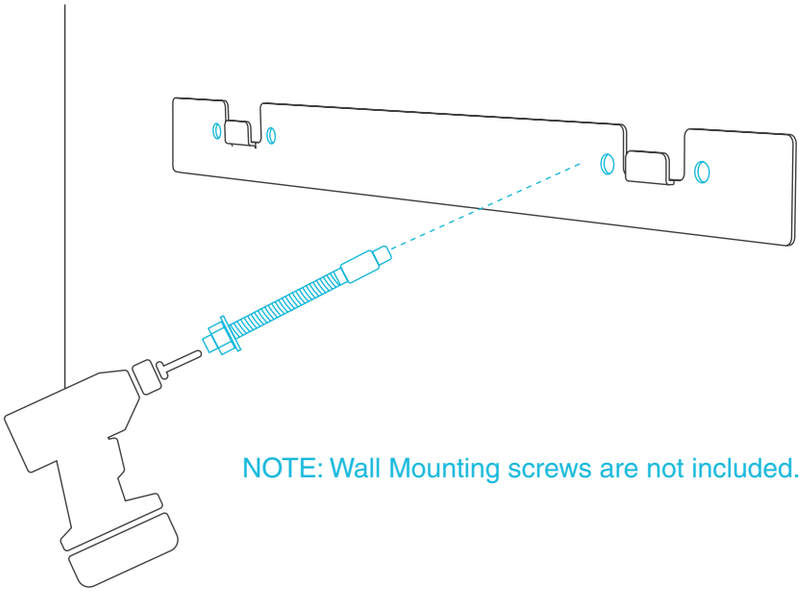
NOTE: Drill hole size may depend on the mounting screws of your choice.



MOUNTING

STEP 3

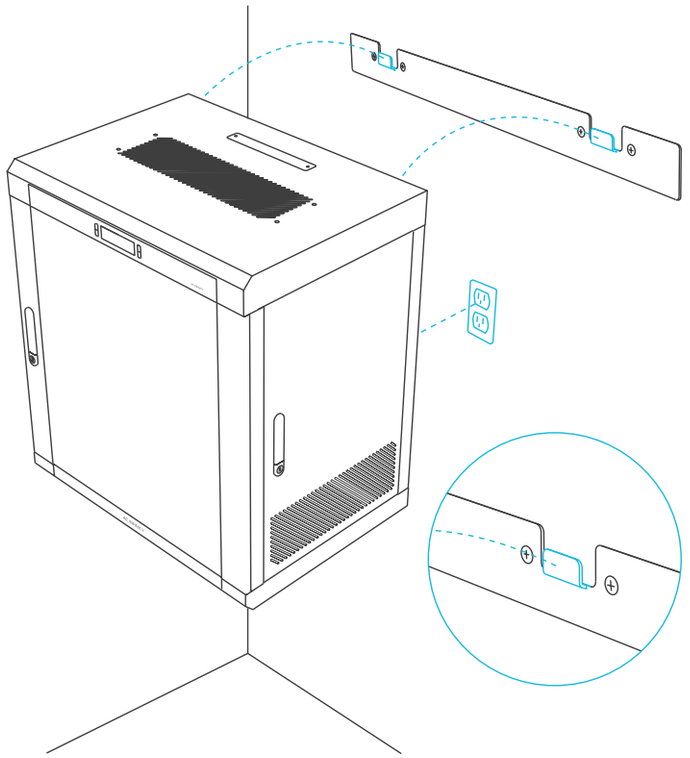
Using the included mounting anchors, place them inside the holes you previously made and secure the mounting bar.



NOTE: Wall Mounting screws are not included.

STEP 4

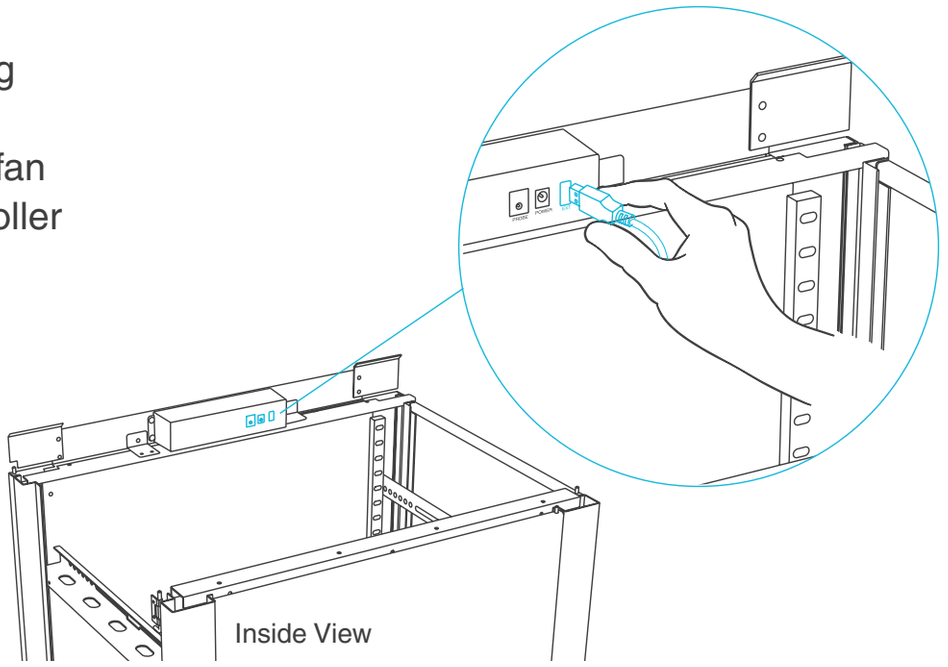
Carefully lift the rack with assistance up against the mounted bar, in the back of the rack there are hollow holes that will hang on like a picture frame. Once hooked on carefully release the rack. Be sure the back is open for outlet access.



POWERING

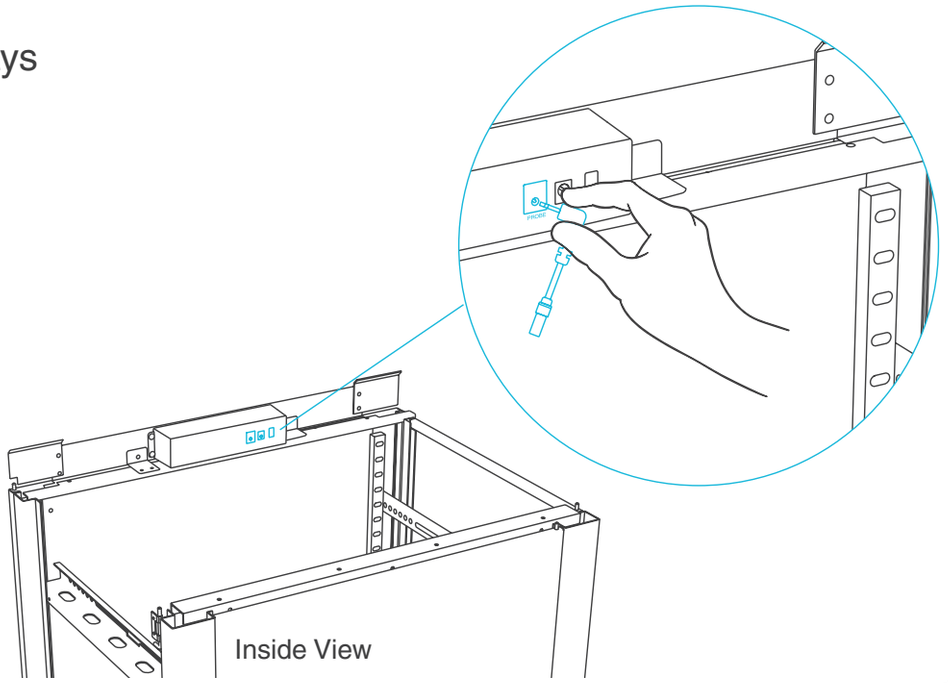
STEP 1

To attach the fan locate the usb cord coming from the top fan and plug it in to the back of the controller's plug named EXT. This USB fan cord may already be plugged into the controller for you.



STEP 2

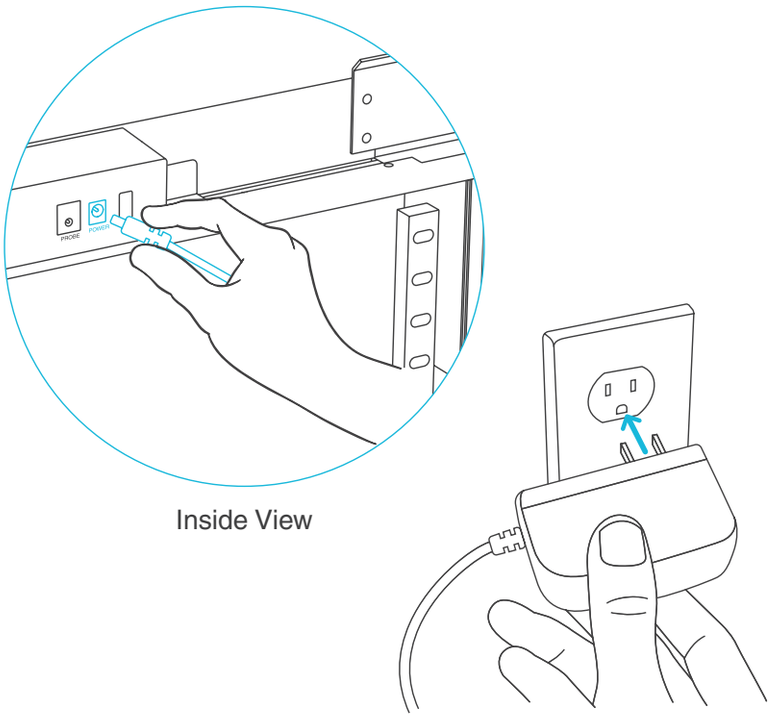
To attach the thermal probe plug it into the back of the controller under the plug that says PROBE. The probe may already be pre-installed behind the controller for you.



POWERING

STEP 3

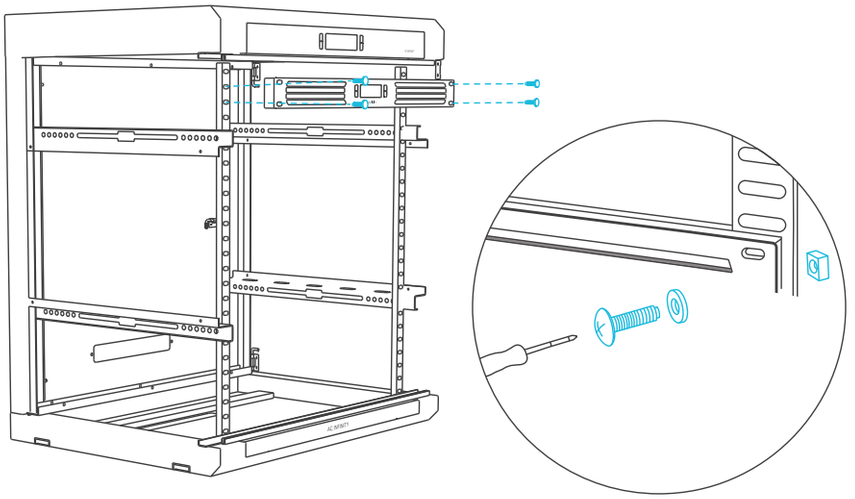
To power the rack's fan and controller, connect the DC connector of the power adapter into the POWER port located on the backside on the controller. Then plug the power adapter into a standard outlet.



Inside View

STEP 4

To mount rack mount equipment, use a screw-driver to install the included cage nuts onto the rack rail. Position your rack mount equipment and then secure it using the included rack screws and washer.

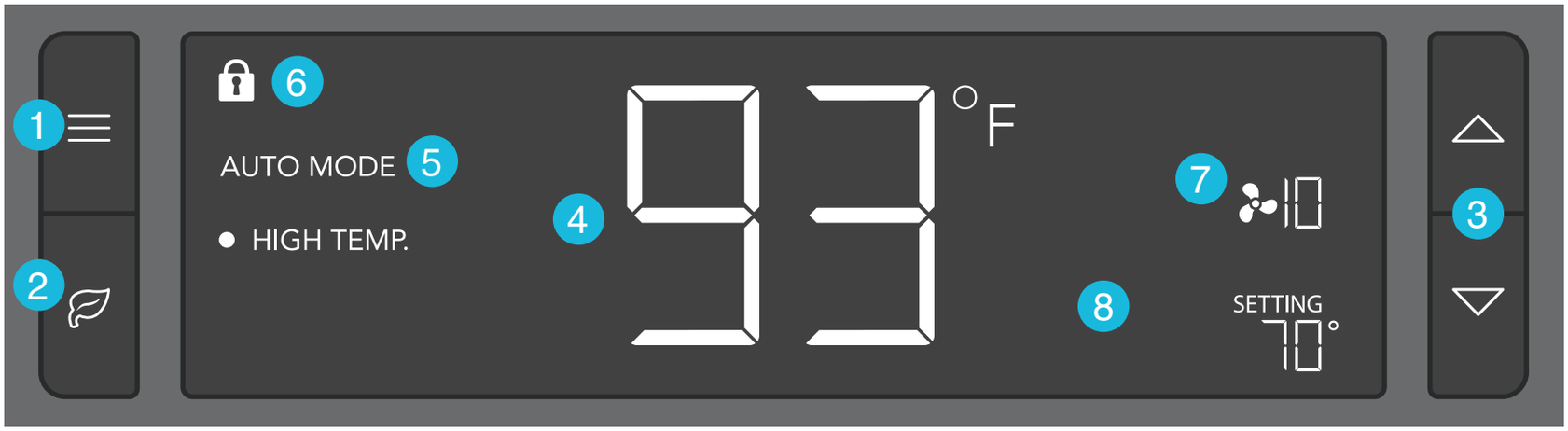


PROGRAMMING

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

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
The up and down buttons adjusts the settings of the mode that you are in. Up button increases and down button decreases.



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. 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.

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

PROGRAMMING

MODE SETTING

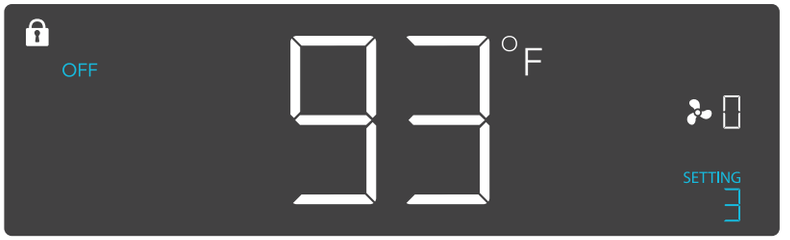
Press the Mode button to cycle through the controller's available programming modes and settings: ON Mode, OFF Mode, TIMER Mode, AUTO Mode (1 trigger), ALARM Settings (1 setting).

ON MODE

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

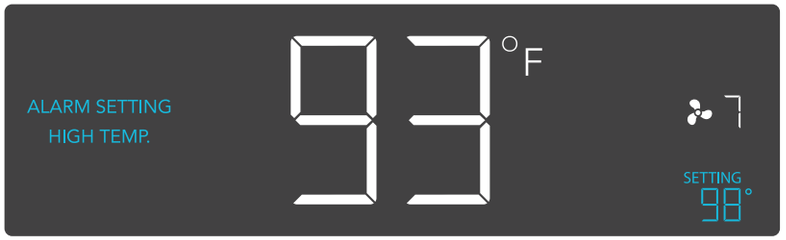
AUTO MODE: HIGH TEMP.

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.

Trigger can activate as long as you are in AUTO Mode.

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. You will need to be in AUTO, ON, or TIMER mode for this alarm to be able to activate.



Trigger 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).

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.

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.

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.

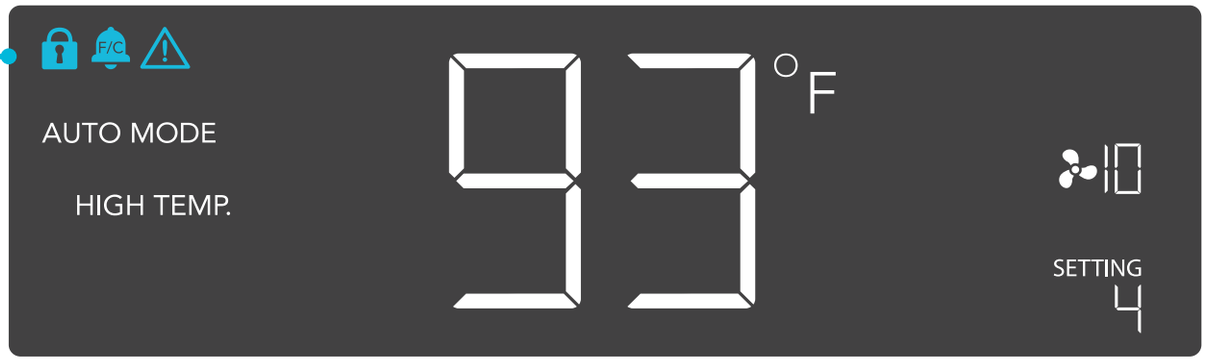
ECO-MODE

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, just press any button.

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.

TEMPERATURE ALARM ALERT

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

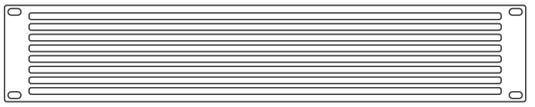
CHECK FAN ALERT

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

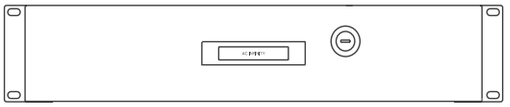
Rack Vented Panel

Aluminum rack panels are designed for high-end audio video and home theater racks. Each panel is constructed with premium aluminum alloy, carefully anodized, brushed, and machined for a professional and detailed appearance. Dual flanges and multiple reinforced horizontal bars on the backside for added strength.



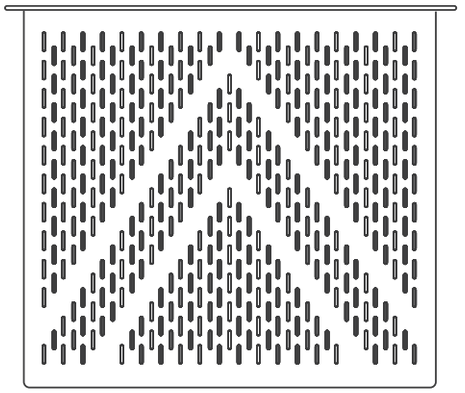
Rack Drawers

The AC Infinity aluminum rack mount drawer is designed to be mounted into standard 19-inch racks to provide storage space. The drawer can securely hold various rack equipment. The remaining sides are fully enclosed using heavy-duty 2mm thick cold-rolled steel with a power coat finish, and a cable pass-through slot in the rear.



Rack Shelfs

The AC Infinity rack shelf is designed for supporting non-rack mountable equipment such as tower computers, routers, UPS systems, and monitors. Fits into all standard 19” racks and cabinets, and takes 1U or 1RU of space. Vent design maximizes airflow and prevents hot spots, while maintaining structural integrity. Constructed of heavy-duty 2.4mm thick cold rolled steel with a black powder coated finish.



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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