

# OWNER'S MANUAL

*Operating and Servicing Instructions*

## CLIMATERIGHT®

### PORTABLE AIR CONDITIONER & HEATER ACH SERIES



\*CR10000ACH varies slightly from this picture

## CLIMATERIGHT® Portable Air Conditioner & Heater

**Questions or concerns? For assistance, please call Customer Service**

ClimateRight® USA    [www.climaterightair.com](http://www.climaterightair.com)  
Ph: 800-725-4628



CR2500ACH



CR5000ACH



CR10000ACH

**CR2500ACH • CR5000ACH • CR10000ACH**

#### **IMPORTANT: READ CAREFULLY BEFORE ASSEMBLY AND USE**

Read and follow all safety rules and instructions before operating this equipment.

Please keep this manual for future reference.



**CLIMATERIGHT® CR2500ACH, CR5000ACH, CR10000ACH Portable Air Conditioner and Heating Unit.**

Thank you for choosing a ClimateRight® product. This owner’s manual will provide you with valuable information necessary for the proper care and maintenance of your new product. Please take a few moments to thoroughly read the instructions and familiarize yourself with all the operational aspects of your new ClimateRight® Portable Air Conditioning and Heating Unit.

For your own records, please attach a copy of your sales receipt to this manual. Also, write the store name/location, date purchased, and serial number below:

Store Name: \_\_\_\_\_

Location: \_\_\_\_\_

Date Purchased: \_\_\_\_\_

Serial Number (located on back of unit): \_\_\_\_\_



**IMPORTANT INSTRUCTIONS**

**Before installing and using your portable air conditioner, please read this owner’s manual carefully. Store this manual in a safe place for future reference.**

- 1) Do not permanently mount unit to moving vehicles.
- 2) Always place the unit on a level surface.
- 3) Never use or store gasoline or other flammable vapor or liquid near this unit unless instructed by this manual.
- 4) The unit must be connected to a correctly grounded power supply.
- 5) Do not start or stop the unit by inserting or pulling out the power plug.
- 6) Do not use an adapter plug or extension cord.
- 7) Do not use the unit in the immediate surroundings of a bath, a shower or a swimming pool.
- 8) Do not insert anything into the air outlet. Do not obstruct air inlet or outlet grills unless instructed by this manual.
- 9) Do not let children play near this unit.
- 10) Always inspect the cord for signs of damage before use. If the power cord is damaged, it must be replaced by the manufacturer or qualified service technician.
- 11) When cleaning the unit, always turn the unit off and unplug the power cord.



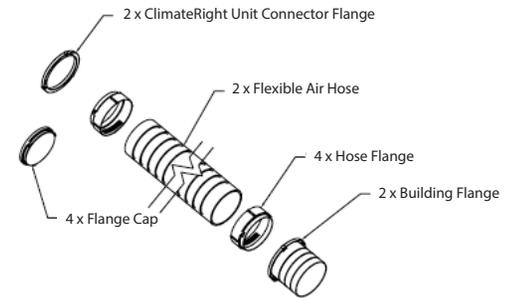
**PACKAGE CONTENTS**

**Models: CR2500ACH, CR5000ACH, CR10000ACH**

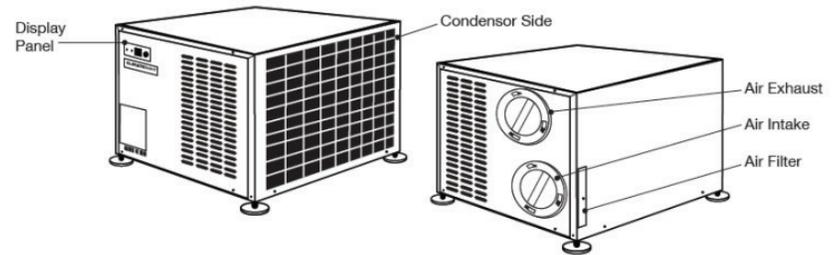
- (1) ClimateRight® Air Conditioning and Heating Unit
- (1) Remote Control
- (2) AAA batteries
- (1) Owner’s Manual

**Quick Connect Hose System**

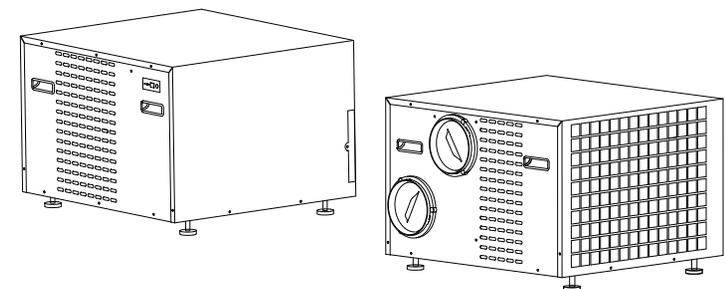
- (2) ClimateRight® Unit Connector Flanges (Pre-mounted to ClimateRight®)
- (2) Flexible Air Hoses
- (4) Hose Flanges (Pre-mounted to Hoses)
- (2) Building Flanges
- (4) Flange Caps



**CR2500ACH and CR5000ACH**



**CR10000ACH UNIT FEATURES**



## SAFETY INSTRUCTIONS

### CAREFULLY READ THESE INSTRUCTIONS BEFORE USING



#### General Information

- Never perform any maintenance procedures until the electrical power to the unit is turned off and unplugged.
- Never remove any panel from the unit while it is operating.
- For safety purposes, the information in this manual must be followed to minimize the risk of fire, electric shock or personal injury.
- Use this appliance only for its intended purpose as described in this Owner's Manual.
- This air conditioner must be properly installed in accordance with the Installation Instructions before it is used.
- A qualified individual must perform any servicing beyond cleaning. Failure to comply may void the warranty.
- DO NOT store or use combustible materials, gasoline or other flammable vapors or liquids in the vicinity of this or any other appliance.
- This product contains refrigerants. As required by federal law, refrigerants must be removed prior to disposing of this product. To dispose of this product, contact the local waste disposal service to ensure safe and proper disposal according to federal, state and local laws.
- Save these instructions.
- For additional FAQ's, please visit [www.climaterightair.com](http://www.climaterightair.com) for the most up to date information.

## SAFETY PRECAUTIONS



- Do not use the unit if the power cord is frayed, cracked or otherwise damaged.

A damaged power cord must be replaced with a new power cord obtained from the manufacturer and not repaired. Contact ClimateRight® for repair and replacement details.



- Never unplug the unit by pulling on the power cord. Always grip plug firmly and pull straight out from the receptacle.

• Connect to a properly grounded 120V outlet. Do not remove the ground prong. The power outlet must be easily accessible and located within the length of the power cord supplied with the unit.



- This unit is designed for outdoor use. When plugging the unit into an outdoor outlet, the outlet must be a GFCI outlet and have a weatherproof while-in-use receptacle cover.

• The unit should be plugged into its own circuit. If other devices are plugged into the same circuit, the fuse or breaker may trip due to excessive amperage draw.

• Internal parts of the unit may get hot such as the condenser, compressor and copper piping. Do not remove the outer cover and touch these parts.

- There are moving parts inside the unit. Do not put any body part inside of the unit.

#### Use of Extension Cords

Use of an extension cord is not recommended. Using an extension cord could prevent the unit from operating normally and could potentially pose a fire and safety risk. It is recommended that unit is located near a 3-prong 120V GFCI outlet. If one is not near, a qualified electrician should install one.

## SPECIFICATIONS

	CR2500ACH	CR5000ACH	CR10000ACH
Rated Cooling Capacity	2500 BTU	5000 BTU	10000 BTU
Rated Heating Capacity	2800 BTU	4300 BTU	10000 BTU
Rated Cooling Input	480W	700W	1250W
Rated Cooling Current	4.3A	6.2A	11.3A
Rated Heating Input	900W	1300W	1150W
Rated Heating Current	7.8A	11.3A	10.4A
Air Flow Volume	130 CFM	130 CFM	260 CFM
Rated Voltage	115V/60Hz	115V/60Hz	115V/60Hz
Max. Current	9A	13A	15A
Refrigerant Gas	R410a (300g)	R410a (400g)	R410a (800g)
Max. Working Pressure	625 psi	625 psi	625 psi
Min. Working Pressure	245 psi	245 psi	245 psi
Diameter of Duct	3.3"	3.3"	5"
Unit Size	19" x 15" x 15"	19" x 15" x 15"	22" x 23.8" x 16.75"
Unit Weight	55.6 lbs.	63.6 lbs.	104 lbs.
Pack Size	26.75" x 18.5" x 17"	26.75" x 18.5" x 17"	33.2" x 25.5" x 18.3"
Pack Weight	62 lbs.	72 lbs.	120 lbs.
Waterproof Class	IPX4	IPX4	IPX4
Recommended Generator	2000W Min.	2000W Min.	2000W Min.

## INSTALLATION

Please refer to [www.climaterightair.com](http://www.climaterightair.com) for the installation guide.

### REMOTE CONTROL

#### INSTALLING BATTERIES

*To Insert the Batteries in the Remote Control:*

1. Remove the battery cover by sliding it according to the arrow direction.
2. Insert two new AAA alkaline batteries, matching the (+) and (-) of the battery to the orientation in the battery compartment.
3. Reattach the cover by sliding it back into position.

Notes:

- Remove the batteries from the remote control if the system is not going to be used for an extended period of time.
- This is an IR (Infrared) remote and requires line of sight to control the unit. Make sure there are no obstructions between the remote and signal receiver located on the display panel of the unit.



\* Remote may vary slightly from the image above

## REMOTE CONTROL

### I/O BUTTON (ON/OFF)

Starts or Stops the Unit

### MODE BUTTON

Selects the functions of the unit for:

- a. Auto Mode
- b. Air Conditioning Mode
- c. Dehumidifying Mode (Dry)
- d. Fan Mode
- e. Heating Mode

### FAN BUTTON

- a. High
- b. Medium
- c. Low
- d. Auto

### TEMPERATURE [+/-]

Select the desired temperature by pressing either + or – key when using the unit in cooling, heating or Auto function. The LCD will display the desired temperature during the setting. The LCD displays room temperature when it is not at temperature setting mode.

The LCD display either in Celsius or Fahrenheit. Press the temperature + and – keys simultaneously to change the display from Celsius to Fahrenheit and vice versa.

### HOUR/MIN

Use the Hour and Min buttons to set the clock and timer.

**To set clock:** Press and hold either Hour or Min button until the time at the bottom right of the LCD screen begins to flash. Once the time begins to flash, press the hour or min key until the current time has been set. The clock will display as a 24-hour clock. After a few seconds of inactivity, the clock will stop flashing and is now set.

Pressing down the reset button for a few seconds then releasing it can also reset the clock. The display will then reset and the clock can be set.

### T-ON AND T-OFF (TIMER)

The T-On and T-Off buttons set the unit to turn on and off at a pre-determined time.

### RESET BUTTON

Pressing and holding the reset button will return the remote to its default settings. The clock will also be reset.

## MODE & FAN OPERATION

### AUTO MODE

Turn the unit on by pressing the I/O button on the remote control.

Press the Mode Button until the “**AUTO**” appears on the LCD display.

Select the fan speed by using **FAN** button.

During the **AUTO** model, the unit operates at heating mode when the room temperature is below 68°F (20°C). It operates at dehumidifying mode when the room temperature is between 68°F (20°C) and 80°F (27°C). It operates at cooling mode when the room temperature is above 80°F (27°C).

The timer may be used with the AUTO mode.

### COOL MODE

Turn on the unit by pressing the I/O Button on the remote control.

Press Mode Button until “**Cool**” appears on the LCD display

Press the + / - Temperature button until the desired room temperature appears on the LCD. The temperature ranges from 61°F - 88°F (16°C - 31°C).

Select the fan speed by pressing the **FAN** Button.

**NOTE: During hot days, the unit will cool off the room most efficiently by setting the temperature at the lowest and the fan speed at the highest. Reducing the length of the exhaust duct and insulating the exhaust duct and keeping direct sunlight to a minimum will also improve the cooling efficiency.**

**NOTE: If the air conditioner is off and is then turned on while set to a Cool setting or if turned from a fan setting to a Cool setting, it may take approximately 3 minutes for the compressor to start and cooling to begin.**

## MODE & FAN OPERATION

### DRY (DEHUMIDIFYING) MODE

Turn on the unit by pressing the **I/O** button on the remote control. Press the Mode Button until the “**DRY**” appears on the LCD display.

NOTE: The unit operates at low fan speed during dehumidifying. The unit cools room slightly during the dehumidification.

Keep the windows and the doors closed to aid the effectiveness of the unit in removing the moisture from the room.

NOTE: The unit will not perform dehumidification when the room temperature is lower than 61°F or 16°C).

### FAN MODE

Turn on the unit by pressing the **I/O** button on the remote control.

Press the Mode Button until “**FAN**” appears on the LCD display.

Select the fan speed by pressing the Fan Speed Button.

The **HIGH**, **MED** and **LOW** fan speeds can be chosen for the following modes: AUTO, COOL, FAN and HEAT. Only the LOW fan speed is available for DRY mode.

### HEAT MODE

Turn on the unit by pressing the **I/O** button on the remote control.

Press the Mode Button until “**HEAT**” appears on the LCD display.

Press the +/- Temperature button until the desired room temperature appears on the LCD. The temperature ranges from 61°F to 88°F (16°C to 31°C).

Select the fan speed by pressing the Fan Speed Button. It is recommended to use a low fan setting.

## MODE & FAN OPERATION

### SLEEP

Turn on the unit by pressing the **I/O** button on the remote control.

Press **SLEEP** to enter into sleep mode.

The fan motor of unit runs in low speed.

When in cooling mode, within the first two hours, the temperature will be increased 1°F per hour. Then temperature will stay at 2°F higher than the original temperature for 8 hours. After 8 hours, the temperature will return to original temperature.

When in heating mode, within the first two hours, the temperature will be decreased 1°F per hour. Then temperature will stay at 2°F lower than the original temperature for 8 hours. After 8 hours, the temperature will return to the original temperature.

When in dehumidify mode, the temperature will not be changed.

### TIMER FUNCTION

To set the timer to turn the unit On or Off: Press the “**T-On**” key; the clock and the word “**ON**” will begin to flash. Press the **Hour** and **Min** buttons until the desired on time has been reached. After a few seconds of inactivity, the clock will stop flashing and the timer will be set.

To set the timer to turn off, repeat the same steps with the “**T-Off**” key.

Note: Timer can only be set in 10-minute increments.

NOTE: You can set either T-ON or T-OFF; also can set both T-ON and T-OFF. If you set both T-ON and T-OFF simultaneously, the timer will always cycle effectively unless removed either T-ON or T-OFF

### POWER OUTAGE RECOVERY FEATURE

In the case of a power outage or interruption, the unit will automatically re-start in the settings last used after the power is restored. If the Delay 1–24hr feature was set, it will resume countdown. If desired, a new time may be set.

## MAINTENANCE

The ClimateRight® climate control unit is a low maintenance product and does not require much attention if used in normal environments. However, two components will require periodic cleaning to ensure maximum heating and cooling efficiency.

**Failure to property care for the ClimateRight® unit as mentioned above will result in a voided Warranty.**

### FILTERS

The removable mesh filter installed at the air intake will accumulate debris over time. Remove and clean the filter monthly. If the unit is located in an area with lots of dirt, debris and pet fur, check and clean the filter weekly.

### CONDENSER

The condenser is located on the side of the unit with the open grid. If the cooling capacity of the unit becomes degraded, the condenser fins may be dirty. Debris on the fins will not allow the refrigerant to cool properly.

Use a garden hose with a spray nozzle set on a gentle setting to rinse away dirt and debris.

### EVAPORATOR

If the unit is installed in a location with lots of dirt, debris and pet fur, the air filter may not screen all contaminants from the air. If the evaporator becomes heavily soiled with debris, it may be necessary to clean the evaporator.

To clean the evaporator, carefully remove the sheet metal surrounding the top and sides of the unit. Use a soft bristle brush, such as a paintbrush to gently brush away the debris from the evaporator fins. DO NOT use a metal wire brush as this will damage the fins and could puncture the refrigerant tubes.

## TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSES	WHAT TO DO
Air conditioner does not start.	The air conditioner is unplugged.	Check that the air conditioner plug is inserted completely into the outlet.
	The fuse is blown or the circuit breaker has been tripped.	Check the house fuse/circuit breaker box and replace the fuse or reset the breaker.
	Power failure.	The unit will automatically re-start in the settings last used after the power is restored. There is a protective time delay (approximately 3 minutes) to prevent tripping of the compressor overload. For this reason, the unit may not start normal cooling for 3 minutes after it is turned back on.
Water builds up in unit.	Clogged drain hole	Check the drain hole and unclog if it is blocked. Make sure the unit is on a level surface.
Air conditioner does not cool, as it should.	The air conditioner is unplugged.	Check that the air conditioner plug is inserted completely into the outlet.
	Airflow is restricted.	Make sure there are no obstructions blocking the supply or return air vents.
	The temp control may be set too high.	In the Cool mode, press the Decrease (-) button.
	The air filter is dirty.	Check and clean the filter at least every 30 days.
	The condenser is dirty.	Use a hose and nozzle set to the gentle setting to gently rinse debris out of the condenser fins.
	Space not cooling quickly.	Allow up to 24 hours for the unit to cool down the space.
The remote control is not working.	The batteries are inserted incorrectly.	Check the position of the batteries. They should be inserted in the opposite (+) and (-) direction.
	The batteries may be dead.	Replace the batteries.

## TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSES	WHAT TO DO
E1	Inlet temperature malfunction	Change the inlet temperature sensor. If this does not fix problem then it is a warranty issue.
E2	Piping temperature sensor malfunction	Change the inlet temperature sensor. If this does not fix problem then it is a warranty issue.
E3	Freeze protection enabled	Automatic recovery. Make sure there are no large bends in the hoses restricting air flow
E4	Refrigeration system exception	Check / add refrigerant. If this does not fix problem then it is a warranty issue.
E5	Communication failure	Change the wired remote control line or remote control. Replace batteries in remote, if this does not fix problem then it is a warranty issue.

### NORMAL OPERATING SOUNDS

- The thermostat may click when the compressor cycles on and off.
- Fan
- Control beep

## WARRANTY

ClimateRight® products (“ClimateRight”) are warranted by ClimateRight®, LLC, the manufacturer, and the distributor of ClimateRight® portable air conditioning and heating products and air purification products to be free from defective workmanship and materials. ClimateRight® portable air conditioners, heaters, and air purifiers are warranted to the original owner only, for one (1) year from the date of purchase against manufacturer defects under normal use and service. This Warranty is not transferable and applies only to original purchases and original purchase dates. After the expiration of the Warranty term (1 year), the owner is responsible for all costs associated with repair or troubleshooting.

### ITEMS NOT COVERED IN THE WARRANTY:

- Cosmetic damage such as scratches and dents
- Normal wear and tear on parts or replacement parts designed to be replaced, such as filters and hoses
- Optional accessories, attachments, and appearance items
- Products lost in shipment or theft
- Products sold AS IS or from an unauthorized reseller

### WHAT WILL CAUSE A VOID OF WARRANTY?

Although ClimateRight® products are versatile and can be used in many non-permanent applications, they cannot be expected to operate and maintain its intended quality when used in extreme or unreasonable circumstances and applications. If any of the following apply the warranty will be voided regardless of the purchase date:

- Climate Right® products that have been altered or customized
- Climate Right® products that have damage or failure due to improper maintenance. Please refer to the maintenance instructions provided in the owner’s manual
- The use of ClimateRight® products in commercial settings or in settings not specifically recommended on our official company website
- Products that have been modified to perform outside of specifications without the prior written permission of ClimateRight®, LLC
- Products that have had their serial numbers removed, defaced, or been invalidated
- Permanent mounting of these products to moving vehicles

### HOW TO FILE A WARRANTY CLAIM:

All warranty claims must be submitted in writing or received and confirmed by email from an authorized ClimateRight® representative. A web form is also available at [www.climateair.com](http://www.climateair.com) to submit your claim as well. If ClimateRight®, LLC, at its sole discretion, deems your Warranty claim valid, a prepaid shipping label will be sent to the address provided for return of the climate right unit for inspection and repair or replacement. In good faith, we will send you out a replacement unit before receiving the defective unit back. If, during inspection, the unit has been found to be defect free or has been modified in any way to cause a defect, the customer will be charged for the replacement unit plus shipping and handling fees and no refund will be issued for the initial purchase. If the unit has been found to be defective the original purchase price will be refunded.

*Please note: Any damage caused by improper packaging of the return unit to the authorized service center will void the warranty.*