



elemental S O L U T I O N S

Thank you for choosing to grow with Elemental Solutions! Your satisfaction and success are important to us. For best results, carefully read the following instructions before using your Elemental H₂O Chiller.

Features of your Elemental H₂O Chiller

- Microcomputer control system
- Digital temperature control
- Temperature memory system
- Anti-corrosive evaporator
- Energy-efficient operation
- LED display
- 1-year warranty



EHC200

Input Voltage: 120V
Amperage: 2.2A
Wattage: 170W
BTU: 1,130 BTU
Water Capacity: 13-40 gallons
Recommended Pump Size: 130-280 gph
Flow Rate: 66.5-410 gph
Refrigerant: R134a
Compatible Tubing: 1/2" or 3/4" ID



EHC210

Input Voltage: 120V
Amperage: 3A
Wattage: 310W
BTU: 2,940 BTU
Water Capacity: 26-80 gallons
Recommended Pump Size: 250-600 gph
Flow Rate: 264-660 gph
Refrigerant: R134a
Compatible Tubing: 3/4" or 1" ID

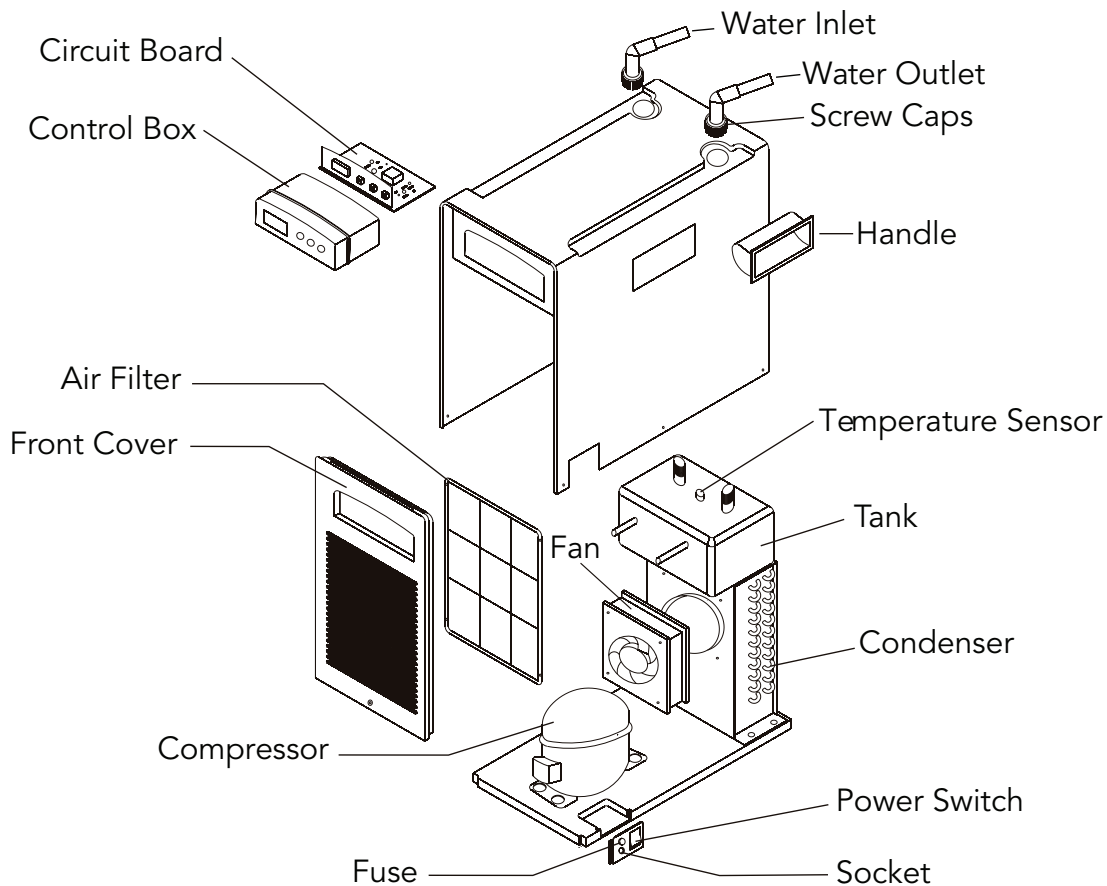


EHC220

Input Voltage: 120V
Amperage: 4.4A
Wattage: 420W
BTU: 4,100 BTU
Water Capacity: 50-135 gallons
Recommended Pump Size: 300-800 gph
Flow Rate: 317-793 gph
Refrigerant: R134a
Compatible Tubing: 3/4" or 1" ID

Warning

- Read all instructions carefully before operating the unit.
- Do not allow the unit's electrical components to be exposed to water. If the electrical components are exposed to water, disconnect the unit from the power source before touching it.
- Ensure the power source meets the requirements listed on the specification label.
- Use a dedicated power outlet for the unit.
- Always unplug the unit when not in use or before cleaning.
- Unplug the unit by grasping the plug and pulling it out of the power outlet.
- Do not operate the unit if the power cord or plug becomes damaged, or the unit is malfunctioning or has been damaged in any way.
- The unit must be level for proper operation. If the unit is tilted to drain the water, wait 20 minutes before turning it on and ensure the unit is level.
- Do not attempt to repair the unit. All repairs should be performed by a licensed professional.
- Do not operate the unit outside.



Installation

1. Install unit indoors on a stable horizontal surface with at least 12" of space on each side of the unit for ventilation. If the unit is installed in a cabinet, the cabinet must have openings for ventilation.
2. Remove the rubber caps from the water inlet and outlet on the top of the unit. Attach the inlet and outlet fittings to the water inlet and outlet. Tighten the screw caps to secure the fittings. For EHC200, use the smaller fittings with 1/2" ID tubing and the larger fittings with 3/4" ID tubing. For EHC210 and EHC220, use the smaller fittings with 3/4" ID tubing and the larger fittings with 1" ID tubing.
3. Connect the inlet fitting to a water pump using tubing. Connect tubing to the outlet fitting and place the other end of the tubing in the reservoir. Use the provided hose clamps to secure the tubing to the fittings.
4. Before turning the unit on, turn on the pump. Ensure none of the tubing connections leak and water is circulating from the pump to the chiller.
5. Plug the unit into a grounded outlet and turn the power switch to ON.

Displaying Current Temperature and Temperature Setting

Press the "Set" button to alternately display the current temperature and the programmed temperature. The temperature indicator light blinks when the programmed temperature is displayed.

Selecting Temperature Setting

Hold the "Set" button for 3 seconds. The programmed temperature will appear on the display. Use the "Up" and "Down" arrow buttons to adjust the setting. Press the "Set" button again or wait for 8 seconds to accept the setting.

Correcting Temperature Error

If the actual water temperature is different from the current temperature displayed by the chiller, correct the error by holding the "Up" and "Down" arrow buttons simultaneously for 6 seconds until "0" appears on the screen. Use the "Up" and "Down" arrow buttons to select the difference between the displayed temperature and the actual water temperature. Use the "Up" and "Down" arrow buttons to adjust the displayed temperature. **Note:** Use this function only if necessary.

Compressor Operation

The compressor will begin operating when the water temperature reaches 1.8°F above the temperature setting. The compressor will stop operating automatically when the water temperature is at or below the temperature setting.

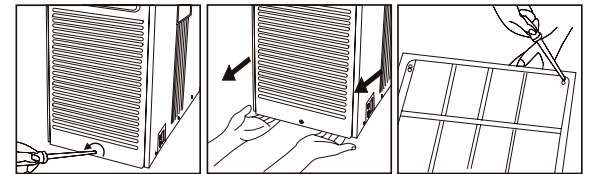
To prevent damage to the compressor, the unit enters protection mode when the compressor stops and will not restart the compressor for 3 minutes. The operation indicator light illuminates when the compressor is operating and blinks when the unit is in protection mode.

Replacing the Fuse

Disconnect the unit from the power source. Unscrew the panel on the side of the unit where the power cord attaches. Pull out the fuse and replace it with the included replacement fuse. Replace the panel and reconnect the unit to the power source.

Cleaning and Storage

- The unit should be cleaned every 1-2 months to maintain optimal performance. Always disconnect the unit from the power source before cleaning it.
- Rinse debris from the water inlet and outlet fittings.
- Clean the front of the unit using a vacuum cleaner or brush.
- To clean the air filter, loosen the screw on the front cover panel and remove the panel. Loosen the screws holding the air filter, then remove the filter and clean it using a vacuum cleaner or brush. Replace the filter and front cover panel.
- To store the unit when not in use, remove the inlet and outlet fittings. Tilt the unit to the side to allow the water to drain. Clean all parts with a soft dry cloth. Cover the unit and store it in a dry location.



Troubleshooting

The unit isn't operating and the display isn't illuminated.

If the power cord is plugged in and the unit is turned on, the fuse may need to be replaced. See the "Replacing the Fuse" section.

The unit turns on or off unexpectedly.

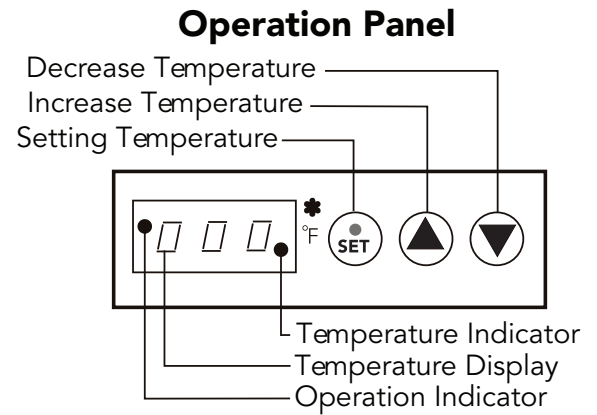
Ensure the unit is connected to a power source with the correct voltage and frequency. If the unit has recently been turned off, the compressor will not restart for 3 minutes.

The unit is not cooling the water sufficiently or at all.

Ensure the temperature setting is lower than the current water temperature. Clean the air inlet and outlet if necessary. If the problem persists, the water in the reservoir may need to be reduced, the fan may need to be replaced, or the refrigerant may be low. All repairs should be performed by a licensed professional.

The unit is vibrating or operating noisily.

Ensure the unit is installed on a stable and level horizontal surface.



Elemental Solutions 1-Year Limited Warranty

All Elemental H₂O Chillers are protected against manufacturer defect by a limited 1-year manufacturer's warranty.

Limited 1-Year Warranty Terms

Sunleaves Garden Products warrants this product to the original purchaser to be free of defective materials and workmanship under normal use and service for 1 year from the original date of purchase. Sunleaves Garden Products, at its option, will repair or replace components of this product if they are found to be defective in material or workmanship within the warranty period. If Sunleaves, at its sole discretion, determines that the components are defective in material or workmanship, then Sunleaves, at its option, will either repair or replace the components, provided that (1) a copy of the original proof of purchase for this product by the original purchaser is delivered to Sunleaves; (2) the components have not been tampered with, disassembled, repaired by unauthorized persons or altered; and (3) the components have not been damaged as a result of commercial use, lack of reasonable and proper maintenance, abusive or unreasonable use, or supplemental damage. In no event shall the cost of repair or replacement exceed the original purchase price. SUNLEAVES SHALL NOT BE RESPONSIBLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES OF ANY NATURE, INCLUDING WITHOUT LIMITATION DAMAGE OR INJURY CAUSED TO OTHER PRODUCTS, MACHINERY, BUILDINGS OR PROPERTY; LOSS OF PROFITS, TIME OR PRODUCT; OR INCONVENIENCE. SUNLEAVES FURTHER DISCLAIMS ANY IMPLIED WARRANTIES, INCLUDING WITHOUT LIMITATION MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

Elemental H₂O Chiller Warranty Is Void If:

- NOT ACCOMPANIED BY THE ORIGINAL PROOF OF PURCHASE.
- ELEMENTAL H₂O CHILLER HAS BEEN USED IN A NONSTANDARD WAY, INCLUDING GENERAL MISUSE AND OUTDOOR USE.
- ELEMENTAL H₂O CHILLER HAS BEEN DAMAGED AS A RESULT OF ACCIDENT, IMPROPER INSTALLATION, ALTERATION, OR FIRE, FLOOD OR OTHER NATURAL DISASTER.

Sunleaves Garden Products

7854 North State Road 37
Bloomington, IN 47404

Phone: 888-464-9676
Email: info@sunleaves.com

Sunleaves Product Warranty Claims

To obtain warranty service in the unlikely event that your product fails to operate, return the product to the place of purchase. Often the retailer will be able to examine the product in closer detail, determine the problem and even fix the product on site.

If the retailer is unable to resolve the problem:

1. Call our toll-free number at 888-464-9676 or email info@sunleaves.com to receive warranty information and your RMA number if the product is being returned.
2. In the unlikely event you must return the defective product to Sunleaves, carefully package the problem product.
3. Complete the form below and enclose it with your shipment along with a legible copy of your properly dated sales receipt. You must write your RMA number on the outside of the package. Because Sunleaves is not responsible for products damaged in shipping, we recommend insuring your package.

Don't forget to include the following items if you are returning your Elemental H₂O Chiller to the place of purchase:

- Legible copy of your properly dated sales receipt
- This completed form



Name:

Address:

Phone #:

Email Address:

RMA #:

Explain the problem:

.....

.....