

## WARNING

Buyer/User assumes all responsibility for safety and proper use not in accordance with the directions and safety labels.



# PolarBear Chiller™



- Titanium heat exchanger
- Easy to program digital thermostat
- Compact efficient design
- Maximum cooling efficiency
- For fresh or saltwater environments

Model: CC-25B and CC-50

**ViaAqua®**

## FEATURES

1. Compressor is a rotary type that is energy efficient and quiet.
2. Rotary compressor is certified UL and CE listed.
3. The heat exchanger is manufactured only of pure titanium. Titanium is not corrosive and will not breakdown in saltwater thus ensuring a safe environment for saltwater fish, invertebrate, freshwater fish, reef fish and seafood aquariums.
4. Temperature controller uses computer technology that makes it easy to use, accurate and reliable.
5. The R 134a refrigerant meets all environmental and international guidelines.
6. Thermal protected compressor.

## PRECAUTION AND SAFEGUARD

### WARNING

- » **This product may contain chemicals known to the State of California to cause cancer and/or birth defects or other reproductive harm. Wash you hand after handling the product.**
- » **It is your sole responsibility to verify that the plug and receptacle are clean/free of moisture and salt build up at all times. The receptacle must be free of water, salt, calcium, and magnesium. Failure to do so may cause fire and/or loss of life.**
- » **Do not plug into an extension cord.**
- » **A drip loop must be used when plug into any electrical devices. A drip loop is part of the cord hanging below the receptacle.**
- » **The national code requires all aquarium equipment to be plugged into a G.F.C.I. (Ground Fault Circuit Interrupter) electrical outlet. If you do not have a G.F.C.I., have an electrician install one prior to operating any aquarium components.**

- \* Read and follow all precautions, safeguards and instructions.
- \* The chiller must not come in contact with water.
- \* Intended for indoor use only.
- \* Verify the chillers voltage is the same as the power supply.
- \* Verify the chiller is on the proper size aquarium.
- \* Place the chiller on a level surface.
- \* Do not place the chiller inside of a cabinet or aquarium stand.
- \* Do not cover the chiller.
- \* Keep chiller away from direct sunlight.
- \* If the unit is placed near a wall there must be adequate ventilation. The chiller needs to be positioned a minimum of 10" from the wall.
- \* A minimum of 10" of clearance in the front and back of the chiller and 5" clearance on the sides is necessary for adequate ventilation.
- \* If the unit is to get wet or dripped on do not reach for the unit unplug first.
- \* Prior to maintenance on any electrical aquarium appliance or maintenance to the aquarium, you must disconnect all electrical aquarium devices.

- \* Do not operate if the cord is damaged, if you unit is malfunctioning do not operate
- \* Any modifications to the chiller, chillers components and/or control board voids warranty.

## **INSTRUCTIONS FOR INSTALLATION**

**Required Tools** (not included): Hose clamps and water source.

1. Place the chiller in a well ventilated level surface.
2. Attach the barbed compression fitting to the chiller intake and output.
3. Attach flexible tubing to the intake barb on the chiller using a hose clamp to ensure tightness.
4. Connect to water supply or water pump to the unit. Water flow should be a min. of 100 GPH and not to exceed 400 GPH. It is recommended to pre-filter the water first.
5. Attach a piece of flexible tubing to the output barb of the chiller using a hose clamp.
6. Verify that the water returning from the chiller is not in close proximity to the intake water source.
7. Secure the return line.
8. Verify that there are not any kinks in the tubing supplying water to the chiller or in the output tube returning water to the aquarium or sump.
9. Turn on water pump or water supply.
10. Check all connections to verify that there are not any leaks.

### **Setting the Thermostat**

1. Plug the chiller into a G.F.C.I. outlet.
2. Switch the unit ON.
3. The LED screen now will read the temperature of the current aquarium water.
4. Press the SET button. The LED screen will now flash and the green led light will be lit.
5. Adjust the temperature using the UP/DOWN buttons. Once the LED screen reads the correct temperature, Press the SET button again. The green LED light will then go out.
6. There is a 2-3 minutes delay prior to the chiller turning on. When the chiller is ON, the green LED light will be lit.

### **NOTE:**

- \* If installing on a preexisting aquarium, lower the temperature by 1-2 degrees per day.
- \* If the unit is turned off, it will take a minimum of 3 min. to come back on. It will take up to 5 min. for the computer/thermostat to adjust to the aquarium temperature and the set temperature prior to turning on.

## FREQUENTLY ASKED QUESTIONS

If “EL” is displayed, then the chiller is malfunctioning. Unplug immediately.

If “EH” is displayed with the alarm sound, then there is an electrical short. Unplug immediately.

### **Problem: LED lights do not come on**

- \* Check to see if the chiller is plugged in.
- \* Unplug the unit and verify that the fuse is good. If the fuse needs to be replaced, replace with the same size fuse.

### **Problem: The compressor continues to turn on/off**

- \* Incorrect power supply
- \* Low water flows

### **Problem: The unit is not cooling or not cooling adequately**

- \* The chiller is not placed in an area with adequate ventilation.
- \* The radiator needs to be maintained. Clean of all dust and debris.
- \* The set temperature is higher than the water temperature.
- \* Radiator is blocked.
- \* The water flow is too slow or too fast. (Min. 100GPH and max. 400GPH).
- \* The chiller is too small for the aquarium.
- \* There is not a minimum of 10” clearance around the chiller for adequate ventilation.
- \* The chiller is installed inside an aquarium stand.

### **Problem: Too much noise**

- \* The chiller must be placed on a level surface
- \* The chiller is not free standing. Remove any item that may be in direct contact with the chiller causing excess vibration.

### **Problem: “EL” or “EH” is displayed**

- \* In general, the primary reason for “EL” or “EH” to be displayed is when the temperature sensor has malfunctioned. Please refer to the instruction below for proper directions.

## MAINTENANCE

1. It is recommended to clean the radiator once a month. To do this, gently vacuum the radiator to remove all dust and debris.
2. Do not hose down or use water to clean the radiator or other external components.
3. Once a month, flush the internal heat exchanger with clean fresh water. Do not use any soap or detergents.
4. Do not submerge in water. The chiller must be completely free of all moisture.
5. Once a month, clean the pre-filter of the pump supplying water to the chiller.

## **REPLACING TEMPERATURE SENSOR**

If you have any questions or concerns about working on the chiller always consult a certified electrician first. Required tools: wire cutters and Phillips screw driver.

### **Replacing temperature sensor for CC-25B**

1. Unplug the chiller.
2. Unplug/disconnect the water being supplied to the chiller.
3. Disconnect tubing.
4. Drain the water from the heat exchanger.
5. Remove the eight screws that hold on the cover of the chiller.
6. Remove cover. Caution: Connected to the cover is the temperature controller. Remove slowly. Then, disconnect the connection between the cover/controller and the chiller.
7. On the heat exchanger is compression fitting holding the sensor. Loosen the fitting and slide out the sensor.
8. With a pair of dykes, remove the zip ties holding the sensor wire.
9. Disconnect the sensor from the temperature controller.
10. Install new sensor. Use Teflon tape on the compression nut.
11. Secure sensor wire with new zip ties cutting off excess.
12. Reconnect the temperature controller.
13. Replace cover and secure with screws.
14. Reinstall.

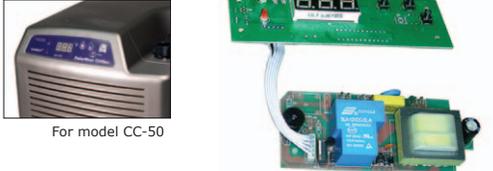
### **Replacing temperature sensor for CC-50**

1. Unplug chiller.
2. Unplug/disconnect the water supplied to the chiller.
3. Disconnect tubing.
4. Drain the water from the heat exchanger.
5. Remove compression tubing connectors.
6. Remove the six screws that secure the back cover of the chiller.
7. Remove back cover. Caution: connected to the front cover of the chiller is the temperature controller. Remove slowly.
8. Disconnect wire from controller to chiller using the white quick wire disconnect.
9. Remove the four screws that secure the front cover to the chiller.
10. Cut zip ties around the insulation and wires going to the compressor and heat exchanger.

11. Remove the black plastic cover for the temperature controller. There are two circuit boards installed in the cover.
12. Remove 1<sup>st</sup> board by removing the four screws that secure the board.
13. Then remove the 2<sup>nd</sup> board by removing the two screws that secure the board.
14. Loosen the compression fitting securing the sensor in the heat exchanger.
15. Follow the sensor wire to the circuit board and disconnect (Note: secure both sides of the wire, disconnect and remove).
16. Remove the sensor.
17. Keep the compression nut that connects to the heat exchanger in place.
18. Slide the compression nut onto the new sensor if not already installed.
19. Now, reconnect the new sensor to board.
20. Secure the sensor back into the heat exchanger.
21. Secure all wiring and insulation with zip ties.
22. Replace circuit boards back into the black plastic cover in the order they were removed.
23. Replace covers and secure with screws.
24. Reinstall unit.

Product Specifications	CC-25b 	CC-50 
Voltage	120 volt	120 volt
Frequency	60 Hz	60 Hz
Rated capacity	450 watt	850 watt
Current	2 amp	3.5 amp
Refrigerant	R 134a	R 134a
Refrigerant weight	120 g	220 g
Min.-Max. water flow	100 - 400 GPH	100 - 400 GPH
Inlet and Outlet	5/8 - 3/4 in.	5/8 - 3/4 in.
Aquarium size	up to 75 gallon tank	up to 125 gallon tank
Dimensions	14.2 x 8.2 x 10.5 in.	16 x 13.2 x 12 in.
UPC #0069037	2770 9	1366 5

# REPLACEMENT PARTS

<p>1. Circuit Board for CC-25B</p>  <p>For model CC-25B</p>	<p>2. Sensor Probe</p> 	<p>3. Hose clamp</p> 
<p>4. Circuit Board CC-50</p>  <p>For model CC-50</p>	<p>5. Tubing Adaptor</p> 	<p>6. Fuse (F12a)</p> 

## LIMITED WARRANTY

Commodity Axis Inc. warrants that ViaAqua® Chiller is free from defects for a period of one year from the initial date of purchase shown in the original cash register receipt. Commodity Axis Inc. disclaims all other warranties of merchantability and/or fitness for a particular purpose. Although this limited warranty gives you specific rights, you may have other rights that may vary from state to state. This Warranty is void if the failure of the ViaAqua® Chiller or any part, sealant or component there of is due to (i) misuse, (ii) tampering, (iii) negligence, (iv) misapplication, (v) abuse, (vi) accident and/or (vii) failure to properly (a) maintain, (b) clean, (c) pre-filter, (d) reassemble, (e) clean and/or use the ViaAqua® Chiller with a Ground Fault Circuit Interrupter (GFCI).

## CONSUMER REMEDIES

Commodity Axis Inc. entire Liability and your sole exclusive remedy are either repair or replacement of the Via Aqua® chiller only if you return the defective Via Aqua® chiller directly to Commodity Axis Inc. with the original receipt in this original box along with \$25.00 for shipping and handling. Do not send the chiller by insured mail. The chiller may be sent by UPS requiring signature upon arrival. Any replacement Via Aqua® chiller will be warranted for remaining of the original warranty period. In not event shall any shipping charges be reimbursed. In no event will Commodity Axis, Inc. be liable for any consequential or incidental damages including, but not limited to, loss of life, personal injury, property damage, damaged equipment, lost profits, lost wages, lost savings, lost income, etc. arising out of the use of the ViaAqua® chiller. Some states do not allow for the limitation or exclusion of liability for incidental or consequential damages, so the above exclusion may not apply to you.

# REGISTRATION CARD

## ONE (1) YEAR WARRANTY

Name		Date
Address		
City	State	Zip Code
Country	Home Phone	
Cell Phone	Email	
Date of Purchase	Seller (Retail Name)	
Seller's Location		Phone

\*Affix a copy of your original purchase receipt here. Please mail warranty card and proof of purchase within 15 days of purchase to:

**Commodity Axis® Inc., 300 South Lewis Rd. Unit J. Camarillo CA 93012**

IMPORTANT: Please make a copy of this warranty card and retain it for your records. Warranty policy is subject to change without notice.



**COMMODITYAXIS®**  
C O M M O D I T Y   A X I S   I N C

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