



115 Carnarvon St., Unit 117, Toronto, ON Canada M6M 3C9
[T] (416) 654-0076 [F] (416) 916-8649 1-800-383-3474

Calcium Reactor

(Models RE-100 & RE-101)

Congratulations on your purchase of a calcium reactor manufactured by Saline Solutions Inc. Please read all instructions to ensure a trouble free installation and set up.

Included Parts:

- ✓ Calcium Reactor 4" or 6"
- ✓ Eheim Hobby Pump 1048 or 1250
- ✓ Eheim Hobby Pump Manual
- ✓ 6' of Red & Blue Poly Tubing
- ✓ 2 x Perforated PVC Discs

Things you will need to install and operate your calcium reactor:

- ✓ Large grain reactor media (we recommend CaribSea ARM Coarse)
- ✓ 1 x Maxi-Jet 1200 or equivalent and fittings (if not using gravity fed method)
- ✓ CO2 system complete with tank, regulator, needle valve and solenoid
- ✓ Calcium and alkalinity test kit
- ✓ 2 x Sponges (6" or 4" Dia.)

Set Up

1. Unscrew the white union above the calcium reactor and 8 nylon thumb screws located on the calcium reactor lid. Remove O-ring and place aside.
2. Remove both poly tubing, 1 perforated PVC disc and any remaining papers from the inside of the calcium reactor.
3. Thoroughly rinse the calcium reactor to remove any dust or fabrication debris.
4. Rinse reactor media thoroughly in fresh water to remove any fine dust particles.
5. Place one sponge on top of the PVC disc located at the bottom of the reactor
6. Fill the calcium reactor with the rinsed media, leaving approximately 4" of space from the top of the calcium reactor. Place the sponge on top of reactor media
7. Fill the calcium reactor with salt water.
8. Clean off bottom plate of the calcium reactor lid.
9. Place the sponge and then perforated grey PVC disc on top of media. Place O-ring on the bottom plate. Place the calcium reactor lid back on top, ensuring the holes are aligned with each other. Screw each nylon thumb screw until snug. Establish a uniform seal by tightening one screw across from another; give each one a full turn until they are equally tight. Screw the white union back together.
10. Place the calcium reactor into position.



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11. Insert the red tubing into the tee, opposite of the Eheim pump. Connect the other end of tubing to either a feed pump or if being gravity fed.
 - **Feed Pump:** Take water directly from aquarium/sump via a powerhead. This allows remote positioning of the calcium reactor at any height.
 - **Gravity Fed:** The calcium reactor can be operated on a siphon from the aquarium and into the sump.
 - **IMPORTANT NOTE:** When using the gravity fed, either power or pump failure the volume of water will continue to siphon until siphon is broken.
12. Insert the blue tubing into the effluent (output water) valve located on the calcium reactor lid. Place other end of tubing in the sump or aquarium.
13. Attach Co2 line to the check valve, located underneath the bubble counter.

Start Up

1. Ensure effluent valve is open (vertical position).
2. Plug in the Eheim pump. Adjust effluent valve to achieve a broken stream.
3. The Co2 can now be switched on. Adjust CO2 amount by using the needle valve (not provided) to the bubble counter at a rate of 1 bubble per second.
4. Allow calcium reactor to run for 6-8 hours. Determine the proper amount of CO2 by collecting a sample from the effluent line. Measure the pH from the sample by using a suitable test kit. The ideal pH in the effluent is 6.5-7 depending on the reactor media that was chosen. The calcium reactor will need a few days to achieve the correct pH. Slowly increase or decrease the amount of CO2 to maintain a pH of 6.5-7.
5. After 24 hours in operation, the effluent should be 20-36 dKH. The calcium in the aquarium should be between 400-500ppm and the dKH should be 8-12.
 - To raise the pH, increase water flow or decrease CO2
 - To lower the pH, decrease water flow or increase CO2



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Maintenance

Calcium reactor media is designed to break down thus amount of media will decrease. Cleaning and refilling the calcium reactor should be done every 3-4 months. Follow the Eheim pump maintenance instructions as outlined in the manufacturer's manual provided with the calcium reactor.

Troubleshooting

Leaks

- Leaking at the lid – Ensure the nylon thumb screws are tighten.
- Leaking at a fitting – Remove the fitting and apply Teflon to threads.

Noise

- Chattering noise – A foreign matter has got stuck inside the water pump.
- “Sizzle” sound – CO2 is being drawn into the water pump. This is normal.

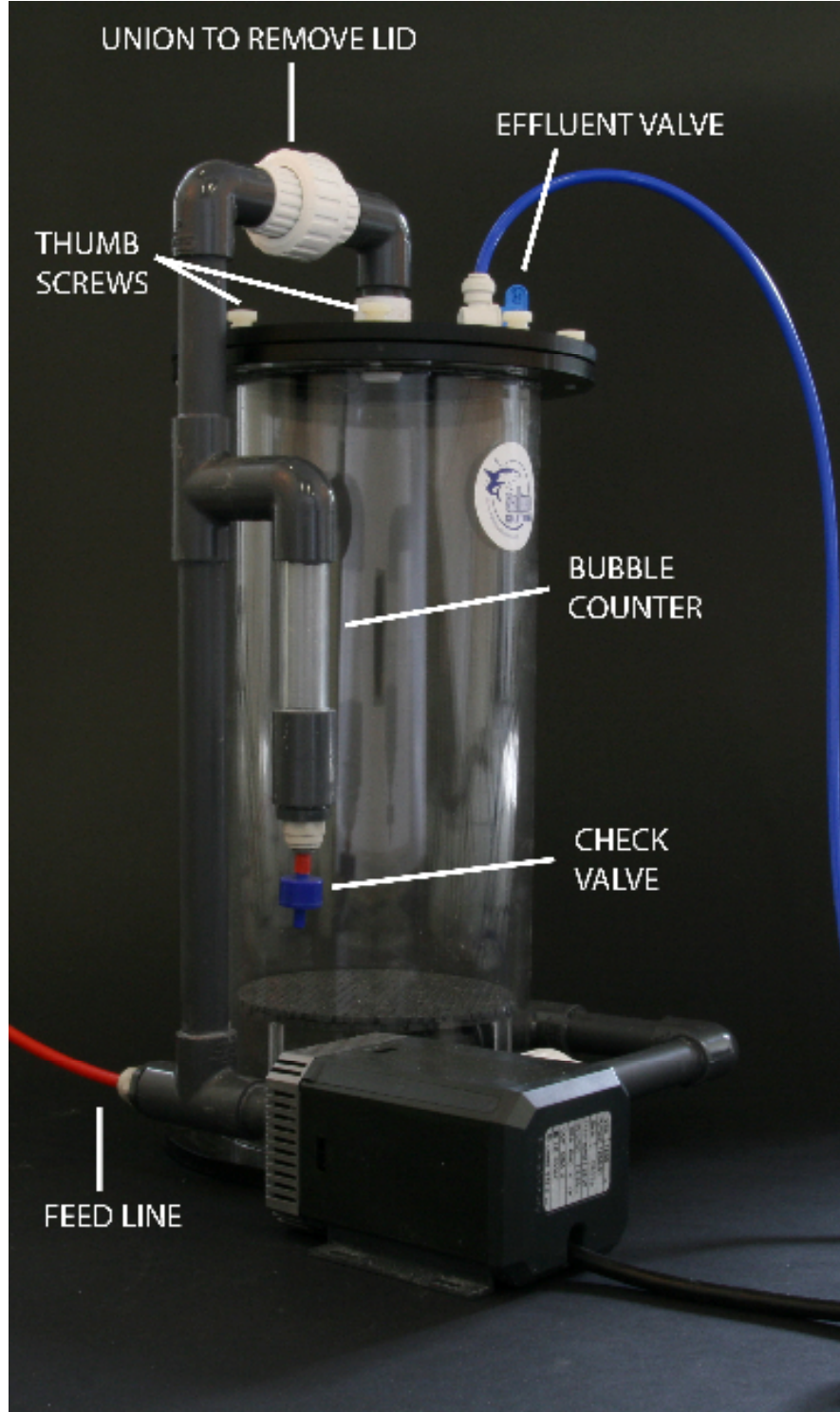
Media Disappearing

- This is normal. The level of reactor media will decrease. The reactor media should be replaced when half gone or every 4 months or so. Do not top off reactor media. The older reactor media will become very fine and obstruct the flow through the reactor.

Thank you for purchasing a calcium reactor from Saline Solutions Inc. We hope this unit brings you many years of stress free calcium addition to your marine aquarium.



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