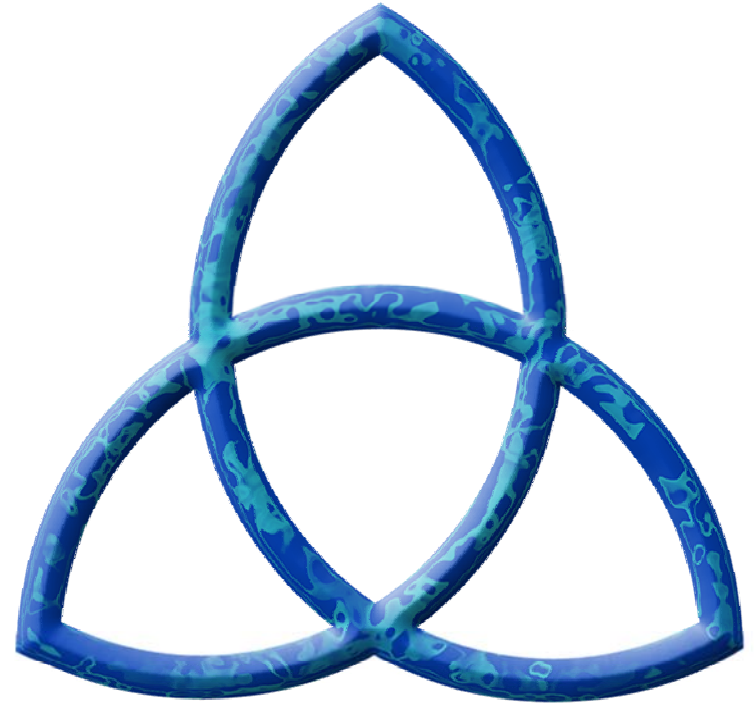


Euro-Reef, Inc.



Protein Skimmer

Owner's Manual

Euro-Reef, Inc.

Dear fellow hobbyist,

Thank you for purchasing a CS, RS or RC series protein skimmer. If this is your first experience with our company's product, you are in for a treat!! All of our skimmers are hand crafted using the latest tools and technology. Our primary goal is to provide you with the finest product available today, enhancing the joy of your hobby and the insuring the health of your aquatic pets. We are confident that you will never have a better experience with any other product.

Sincerely,

The Euro-Reef, Inc. family

Important information:

My Skimmer Serial#:

My Pump #1 Serial# _____

My Pump #2 Serial# _____

My Pump #3 Serial# _____

My Pump #4 Serial# _____

My Pump #5 Serial# _____

Euro-Reef, Inc.

Warranty:

The Euro-Reef impeller has a **limited lifetime** warranty. If you believe you have a defective impeller, contact us for an RMA# and follow the instructions provided for shipping the item**.

Once we have received the impeller, we will send you a replacement as soon as we can verify that the part is in fact defective. As always, our goal is to provide a FAST turnaround so you are back in business ASAP. Euro-Reef reserves the right and insists on the inspection of all impellers returned for warranty replacement before replacement is authorized.

The modified Euro-Reef pump comes with a **1 year** manufacturers' warranty and must be inspected by Euro-Reef before warranty replacement is authorized. If you believe you have a defective pump, contact us for an RMA# and follow the instructions provided for shipping the item**.

The body and parts have a **5 year** warranty on craftsmanship. If you believe you have a defective part, contact us for an RMA# and follow the instructions provided for shipping the item.**

Once we have received the part, we will send you a replacement as soon as we can verify that the part is in fact defective. As always, our goal is to provide a FAST turnaround so that you are back in business ASAP.

Euro-Reef, Inc. reserves the right and insists on the inspection of all parts returned for warranty replacement before replacement is authorized.

*****Items received without RMA's may be discarded!!***

Euro-Reef parts and accessories are available through your local dealer. If your local dealer does not have the part in stock, visit our website www.euro-reef.com to purchase through our online store.

For all warranty related inquiries / RMA requests, **DO NOT CONTACT YOUR DEALER!!** Contact us via e-mail at: er.warranty@euro-reef.com, or via telephone at **1-877-HEY EURO (1-877-439-3876)**

Euro-Reef, Inc.

Installation & set up instructions for the CS•RS series protein skimmers

The first and most important instruction to follow is this:

TAKE YOUR TIME AND BE GENTLE WITH THE SKIMMER

To start, remove the skimmer from the box and unpack skimmer carefully. *Be sure to recycle foam and cardboard whenever possible.* After you have unpacked the skimmer and all its parts carefully, begin the installation by making sure you have enough room to easily place the skimmer body (see diagram Part #1) into the sump. Set the body into the water while holding it firmly and allow aquarium water to enter in through the outlet elbow (#2). The reason to hold on to it firmly is that it will want to bob up because it is buoyant (will float) until it is partially flooded. Once the body is full enough to sink to the bottom, position it where you want it and attach the riser assembly which includes the water return elbow (#3), the water return pipe (#4) (which should be fitted inside the elbow), and the water level adjuster (#5) (which should be fitted in the top of the outlet pipe tee). The ideal water level for optimal skimmer performance is between six and eight inches (6"-8").

COOL TIP: We have found it ideal to use an automatic water leveling system to maintain and ensure optimal skimmer performance. Ask your dealer what brand or system they recommend.

Now you can attach the pump to the body. Start by carefully placing the silicone air intake tube (#10) over the plastic nipple on the top of the venturi (#7). *Be gentle!!! Do not press too hard on the plastic nipple as it can break if it is mishandled.* To further avoid breakage, support the venturi (#7) from below when pressing the tubing over the nipple. If the venturi falls off or is loose from shipping, be sure that it is reinserted into the pump intake/volute with the short end out. The venturi is longer on one side than it is on the other and short side must be out or it will not work!!

COOL TIP: Dip one end of the silicone tubing in warm water to make it more flexible and to insure a smooth and easy fit onto the plastic nipple.

Once the air intake tube is installed onto the venturi place the pump etc. into the sump next to the body. Now locate the pump to body coupling (#9). Place the pump outlet elbow (#8) onto the outlet on top of the pump and then *gently* insert the elbow's nipple into the coupling. Next, insert the air intake tube through the air intake tube holder (#11) on the upper part of the body.

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Installation & set up instructions for the CS•RS series protein skimmers

You are now ready to power up the skimmer, but before you do, check a few things first:

- 1) Check to be sure the collection cup and lid (#13) are fastened and sealed to the body (#1).
- 2) Check the adjustable riser pipe (#5) and make sure it is near its lowest position (open).

Let's rev this baby up!! Take the pump power cord from the pump (#6) and carefully stretch it out towards the outlet. Be sure to set up a drip loop (a section of power cord that is in the shape of a loop or dip the hangs below and before the wall outlet). This will help prevent electrical shock in the event of water splashing on or near the power outlet or pump power cord. *Where there is water... something's bound to get wet!!!* Double-Triple check that the power source wall outlet is clean, dry and supplying 110v-120v @ 60HZ. Well, what are you waiting for??? Plug it in!!

You should allow the skimmer to run for a few hours before you change the adjustable riser pipe (#5) as it may take some time for the skimmer to settle down. Adjust the pipe (by turning the 'open/closed' position) as desired to control the consistency of the foam and effluent.

Enjoy your skimmer!!

Euro-Reef, Inc.

Notes, Maintenance & Warranty on CS • RS series protein skimmers

Notes:

Never run the pump dry. A pump that is run dry and burns out WILL NOT BE COVERED BY WARRANTY!!!

Never operate the pump in an area where the intake/ suction of the pump will be in close contact with a liquid calcium supplement, Kalkwasser, or any powdered buffer supplements. I.e. dKH buffer, pH buffer, Mg (magnesium) buffer. Prolonged or regular exposure to these compounds can cause the motor to seize and burn out!! If this happens (and we can tell when it has) the pump will NOT BE COVERED BY WARRANTY!!!

COOL TIP: If you do use such compounds (above) , which in all likelihood most of you do, we strongly recommend that the pump be cleaned out quarterly by submerging and running it in a bath of distilled vinegar and water (1 part vinegar to 3 parts water). Simply allow the pump to run in a bucket with this solution while sucking in air for 10 to 12 hours (overnight usually works great). After it is cleaned,

remove the pump from the solution, disassemble, rinse, and scrub it thoroughly with freshwater so as to remove all visible debris (try our cleaning brush, Euro-Reef part # ER-BRUSH). Re-assemble and put it back to work!! It's not a bad idea to do this to the whole skimmer once a year.

Maintenance:

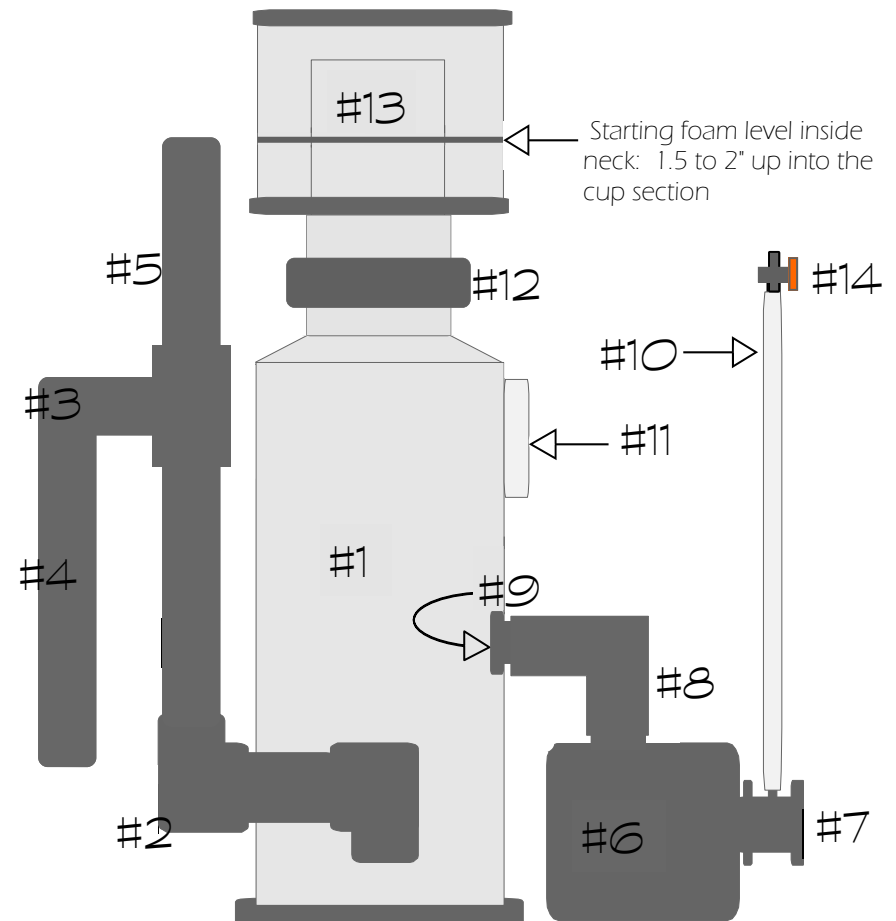
Clean the skimmer cup and neck as often as possible to ensure optimal performance. Once a week is a minimum!! Even if the collection cup is not very full, cleaning it will enhance extraction substantially. Dry it thoroughly inside and out before replacing it back on the skimmer

Once every 2-3 weeks take some time to dip the end of the air intake tube into a cup of warm, purified freshwater i.e. Reverse Osmosis. The suction created by the venturi will draw this warm water through the tube rinsing the tube and the venturi's water air interface point where salt crystals often form restricting the flow of air. This can dramatically effect the skimmers efficiency (less air , less foam etc...).

*****Be sure to keep ALL the o-rings clean and lubricated. This will ensure ease of maintenance, proper sealing, and extend the life of the o-rings. Use Euro-Reef part # ER-LUBE for best results!**

Euro-Reef, Inc.

Skimmer Parts Diagram



- | | |
|-------------------------|------------------------------|
| 1. Skimmer body | 8. Pump outlet elbow |
| 2. Outlet elbow | 9. Pump to body coupling |
| 3. Water return elbow | 10. Silicone air intake tube |
| 4. Water return pipe | 11. Air intake tube holder |
| 5. Water level adjuster | 12. Union/Coupling |
| 6. Pump | 13. Collecting cup and lid |
| 7. Venturi | 14. Airline control valve |

Euro-Reef, Inc.

Help & Support:

If you have questions about our products, we encourage you to contact your local Authorized **Euro-Reef, Inc.** Dealer. For technical and warranty support you may:

contact us via e-mail: er.tech@euro-reef.com

or toll free at: 1-877-HEY-EURO (1-877-439-3876)

General Contact Information

Web www.euro-reef.com

E-mail: info@euro-reef.com

Snail-mail: 23400 Peralta Suite A
Laguna Hills, CA 92653

ATTENTION!!

If you do not read this you might regret it!!

It is EXTREMELY IMPORTANT that you fill out and return the WARRANTY REGISTRATION section of the manual. If you do not fill it out per instructions YOU WILL NOT be able to take advantage of the benefits we offer our registered warranty holding customers. This includes the option of purchasing a spare pump/parts or getting fast service when you are in need. So do yourself a favor and ...

Fill out the warranty card right now!!

Then send it in to:

Euro-Reef/Warranty
23400 Peralta Drive Suite A
Laguna Hills, CA 92653

You'll be glad you did!!

THANKS FOR BUYING A

Euro-Reef!!!!