

1. [Review Safety Information and Warnings](#)
2. Assemble pump and insert into skimmer
 - a. Insert rubber feet
 - b. Install bubble diffuser chamber (gentle hand tighten)
 - c. Route power cord into skimmer through large hole
 - d. Gently lower pump into skimmer
 - e. Insert venturi adapter through hole making sure power cord is in small notch



3. Install silencer bracket/silencer as shown
 - a. Hand tighten only
 - b. Make sure the screw on the silencer is loosened as to no block air flow



4. Install bulkhead

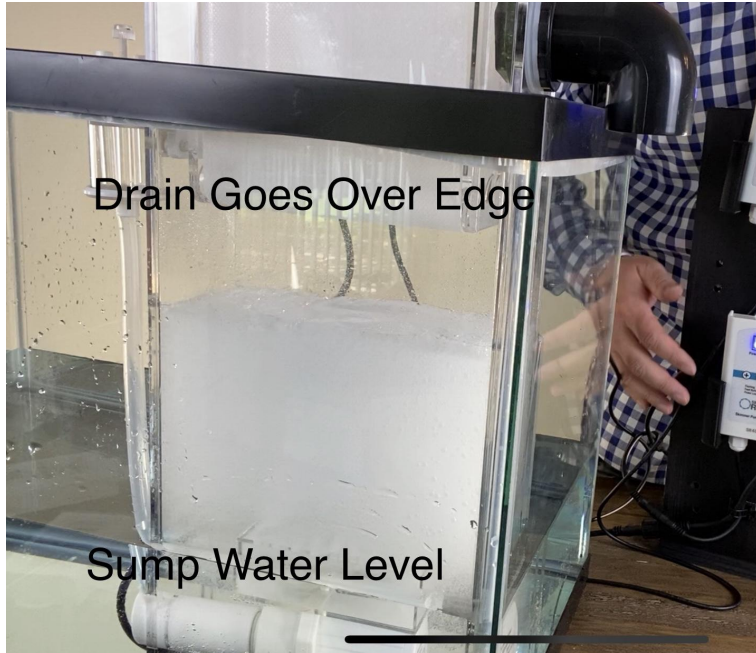
- a. Unscrew bulkhead parts, then assemble as shown (Do NOT overtighten, it only needs to be snug)



5. Assemble the Self-Cleaning Assembly



- a. Using plastic thumb screws, secure the top brackets to the skimmer lid/paper guide assembly as shown. Do NOT overtighten
 - b. Slide/insert new filter roll onto its support bracket, then wrap paper around the lower support brackets as shown. Using the provided sticker or a small piece of clear scotch or shipping tape, secure the filter material onto the outside of the motor spool / spindle as shown
6. Mount the power supply and both digital controllers to a secure, dry location
- a. You can use provided 3M tape, or your own screws or cable ties. The power supply should NEVER get wet
 - i. Free 3D Printable bracket files are also available for download
 1. [Controller Holder](#)
 2. [Power Supply Holder](#)
 - ii. You can print yourself, purchase on our site or have a friend print them
7. Place skimmer body assembly into sump/water
- a. PVC drain should go over the top edge of the sump
 - b. Sump level should be below waterfall overflow



c.

8. Insert self-cleaning assembly into the top of the skimmer
 - a. Motor should face away from you (to the rear) to make maintenance easier (you will need easy access to the screws for securing / loosening the fleece roll)



9. Plug in cords

- i. Always use drip loop
- ii. Make sure the outlet has GFCI protection
- iii. Plug in digital controllers into Y-adapter
 1. Pump uses 3 wire cord
 2. Cleaning motor uses 2 wire cord

10. Start the skimmer pump

- a. Flashing indicates standby/feed mode, push the feed button to turn the pump on
- b. Set the pump power to lower setting (1-3) initially while you are setting up the system and to allow it to break in

11. Setup the self-cleaning motor controller



- a. During break in, you can set the controller display to “0”, meaning the motor won't turn on. When you start getting brown organic material collecting onto the filter paper, then increase the number.
 - i. The motor will turn on briefly for a few seconds each day, 24 hours after the controller first detected power.
- b. When the system is tuned properly, you will see a nice, evenly-coated brown coloration on the uptake spool. If the uptake spool is too light, then decrease the motor dispense length. If the uptake spool is too saturated, then increase the motor dispense length. The maximum length per day is 40cm (16 inches).



12. Allow some days for initial break in. After a few days to a week, you should have stable foam production, fewer microbubbles and nice brown coloration on the uptake spool

See [Protein Skimmer Instructions](#) Page for Additional Information and Help