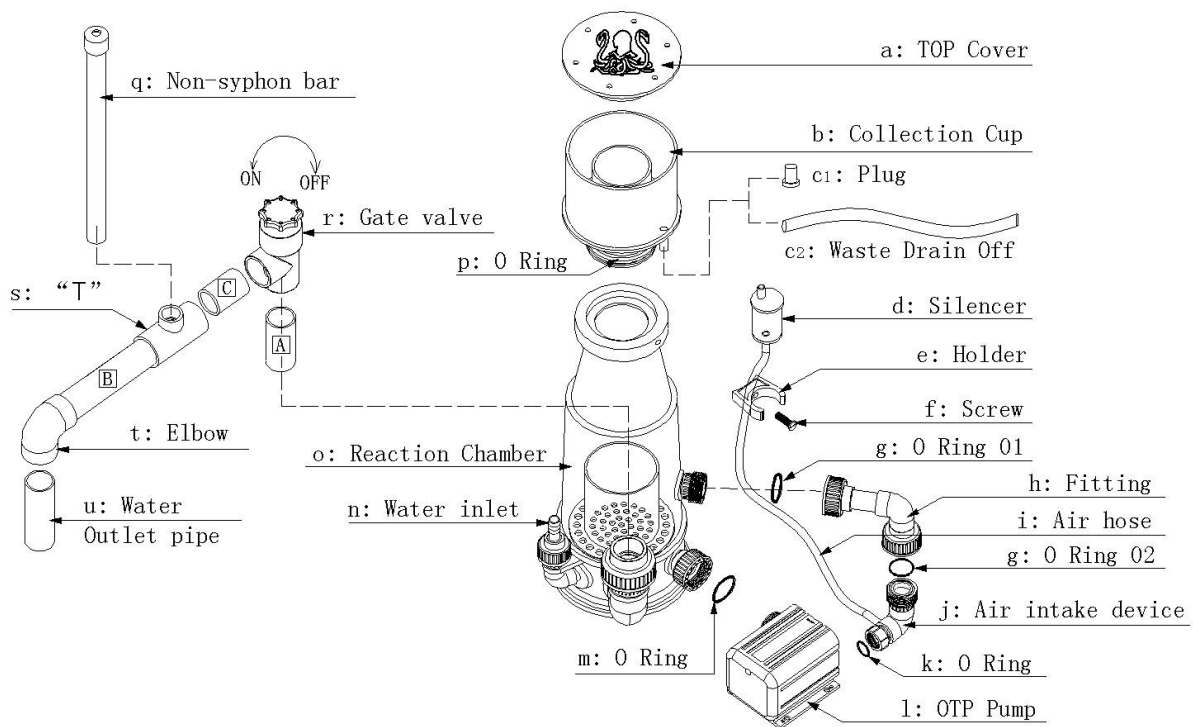




**Reef Octopus**

# REEF OCTOPUS DNWB-200

Protein skimmers are applied to most saltwater aquariums to remove certain organic compounds, including proteins and amino acids, by using the polarity of the protein itself, from the water to stop most of them decomposing into nitrogenous waste. Because of the intrinsic charge, water-borne proteins are attracted to the air-water interface. Protein skimmers work by injecting numerous tiny bubbles into the water chamber, which present an enormous air-water interface for the protein molecules to cling to. The more tiny bubbles reside in the chamber, the more proteins it absorbs. Protein skimming is the only way of physical filtration that gets rid of the organic compounds before its decomposition, lightening the load on the biological filter and improving the water's redox potential.



## PARTS CHECK LIST:

- |                        |                             |                         |
|------------------------|-----------------------------|-------------------------|
| a. Top cover           | h. Extension fitting        | o. Reaction chamber     |
| b. Collection cup      | i. Air hose                 | p. Collection cup oring |
| c. Plug/Drain off hose | j. Air intake device        | q. Non-syphon bar       |
| d. Silencer            | k. Small oring              | r. Gate valve           |
| e. Silencer holder     | l. OTP3000GT pump           | s. T pipe               |
| f. Screw               | m. Pump output oring        | t. Elbow                |
| g. Input Oring 01,02   | n. Water inlet barb fitting | u. Water outlet pipe    |

Pipes A,B,C for water outlet

## Installation

1. Remove the skimmer and all the parts from the package. Check to insure all parts are accounted for. There are 7 orings included and some are already installed: 1)white collection cup oring(p), 2)large black oring for pump outlet union(m), 3)large black oring for outlet skimmer union, 4)small black oring between air intake and extension(g02), 6)small black oring for body inlet union(g01), 7)small black oring for water feed, and 8)black oring for venture(k).
2. Remove side cover on pump(l). Attach air intake device (j) to the pump. Affix small soft air hose (i) onto air intake or venturi(j). Attach air intake extension(h) to venturi. Attach extension(h) and pump to skimmer body according to the illustration. Make sure black orings are seated inside grey threaded union on top of the pump, between air intake and air extension union, and on body inlet union.
3. Setup water outlet pipe system according to illustration. Start with inserting connecting pipe A into outlet slip union attached to chamber. Attach gate valve(r) onto connecting pipe A. Attach connecting pipe C to gate valve (r). Attach t pipe(s) to connecting pipe C then attach B pipe to t pipe(s). Attach elbow (t) to B pipe, then attach water outlet pipe (u) to elbow. Attach Non-syphon bar (q) to t fitting (s). Attach silencer holder (e) to neck of skimmer using the screw (f). Do not over tighten. Remove one cap of silencer (d) and slide it into the holder (e). Put cap back onto silencer. Attach air hose (i) to silencer (d). Glue should be used to attach all pipes except the gate valve (r) and non-syphon bar(q). If you see leaking around the gate valve or non-syphon bar you can glue it or use Teflon to make a tighter fit. Pipes A,B,C can be interchangeable to fit your needs. You may also cut down the pipes if needed.
4. Inset the collection cup with top cover onto the skimmer chamber. Make sure the white collection cup O-ring is in place. The additional hard hose can be attached to drain or the drain plug (c) can be inserted.
5. Install barb fitting (n) into water inlet union (r). Make sure black oring is installed under slip fitting feed or inlet union. You will need a feed pump to run this skimmer even it is in in sump. We recommend a 500gph pump. This recommendation is based on zero back pressure on the outlet plumbing. If you add 90° bends on the plumbing back to a sump you may need to back off the amount of water being fed through the skimmer. We recommend you use a ball valve inline from your feed pump to the skimmer allowing you to control the water flow.
6. If the skimmer is setup outside the sump and the outlet pipe is lower than the wall of the sump you will need to raise the skimmer by placing it on a stand that will raise it high enough for the outlet pipe to cover the height of the sump wall. The other option here is to drill the wall of the sump where the out pipe needs to enter and install a bulkhead fitting to make the connection and keep it water tight. Remember that the outlet pipe on the skimmer should never be submerged underwater! If the outlet pipe is underwater in the sump it will cause the skimmer to overflow or you will have trouble adjusting the water level in the sump.

7. Plug in your pump once all water lines are connected. Turning the adjusting pipe will adjust the water level inside the skimmer. The water level inside the skimmer should be right where the neck transition starts for the initial setup.
8. Please allow 3-4 weeks for break in. Then adjust the pipe to your water level preference for skimming.

## **Maintenance**

Collection Cup: It should be cleaned at least once a week, depending on the organic load. Cleaning will enhance the extraction substantially.

Reaction Chamber: Take apart skimmer and clean every 6 months recommended.

Pump: Take apart pump and clean every 4 months recommended. Use a vinegar/water solution for cleaning off excess build up. The parts included with the pump are the venturi, volute cover, pinwheel impeller, and shaft with 2 rubber grommets.

## **Safety Tips**

1. Do not allow the skimmer pump to run dry as it will melt the pump.
2. Do not touch the plug with wet hands.
3. Do not clean the skimmer with any chemicals that include alcohol or ammonia.

## **Warranty**

Reef Octopus skimmers have a 1 year warranty on craftsmanship and OTP water pumps.

We will take responsibility for the products as long as it's been installed and used properly.

Consumable spare parts are not applicable to the warranty.

If your Reef Octopus product does not appear to be working correctly or be defective, please contact your local dealer.

Or you can contact us at 985-781-9078 or [support@coralvue.com](mailto:support@coralvue.com)