



## **MOTORIZED 150, 250 AND 350 PROTEIN SKIMMER INSTALLATION AND MAINTENANCE INSTRUCTIONS**

The Motorized 150,250 and 350 Protein Skimmers incorporates the use of a vertically mounted venturi valve to produce the air injected into the skimmer. The valve also includes a unique sight tube to make adjustment of the injected bubble size optimal. The motorized skimmer consists of four main parts, the contact/ reaction chamber, foam riser tube, venture valve and pump. The air/water mixture produced by the venturi valve is injected in the contact/reaction chamber tangentially causing a spiraling action. As the air/water mixture spins inside the contact chamber, the tiny bubbles pick up surface-active organics. From there the bubbles enter the foam riser tube where the organics are deposited at the water's surface, become thicker, and are pushed into the collection cup.

### **OPERATION:**

Attach one end of the included vinyl tubing to the output of the pump making sure the vinyl is pushed onto the pump passed the barb and onto the smooth part of the pump output nozzle. Connect the other end of the vinyl tubing to the black barbed input fitting just above the venture air input. Place the skimmer and pump in the sump of your wet/dry. If using it with a **Pro Clear Premier Series** filter, place the output of the protein skimmer over the foam water-polishing block. Turn the airline valve counter-clockwise enough to allow plenty of air to enter. Plug the powerhead in and observe the water level in the skimmer.

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The water level in the skimmer can be adjusted by increasing or decreasing the length of the output standpipe. This is done by holding the output pipe in the middle and pulling or pushing the elbow at the top. Note the output standpipe is not glued to the filter for cleaning purposes. To adjust the air input close the airline valve just to the point at which the jet of water visible in the venturi sight tube disappears. This adjustment will create the smallest bubble size and the most efficient skimming. Once these adjustments are made the skimmer should begin collecting foam within 2 to 24 hours depending on the organic level of the aquarium.

Periodically check the skimmer during the first hour of operation and make any necessary adjustments to the air and water level. It is not recommended that you use the remote collection feature until you are familiar with the operation of the skimmer. **Certain water additives\* can affect the function of your protein skimmer and cause it to foam excessively, making proper adjustment difficult.** If this happens, connect the remote drain line and let the wet foam drain back into the sump, place bagged carbon in the filter unit until the skimmer begins functioning properly. Discontinue the use of these products. Use only a water dechlorinator. Once the skimmer begins functioning properly, the remote drain can be placed into a remote collection container.

#### **MAINTENANCE:**

The airline valve should be removed and cleaned. Use a toothpick or pipe cleaner to remove any salt build-up in the air input fitting. Cleaning of the collection cup and the inside of the foam riser tube (the area below the collection cup) should be performed as needed or at least every other week. The accumulation of organics inside the foam riser tube will decrease the amount of organics collected.

**Remove and clean the entire unit including the pump and the impeller housing every two months.**

#### **WARRANTY:**

All **Pro Clear Motorized Protein Skimmers** are covered by a LIFETIME WARRANTY against defects in workmanship and materials. The powerhead is covered by the (pump) manufacturer's warranty for a period of 180 days from the date of purchase.

\*any additives which promote slime coat or have trace elements

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