



SR4 Rejuvenation Venturi Protein Skimmer

Most aquarists have found that the addition of a protein skimmer is essential for maintaining a healthy system. Many systems, however, are difficult or impossible to modify. The SR series protein skimmers make it easy to supplement your new or existing system with a highly efficient skimmer that can be placed in the sump or used as a “stand alone” unit in conjunction with a sump. These skimmers utilize the Rejuvenation Venturi powerhead, which mixes air and water prior to the impeller, providing a highly efficient protein skimmer with no air stones to replace.

To place your protein skimmer into operation:

1. Open the packaging carefully and inspect the unit for damaged or missing parts. You should have:

- (1) Protein skimmer body
- (1) Collection cup assembly with lid and drain line
- (1) Safety overflow line and vent (attached to the SR4)
- (1) RVT Rejuvenation Venturi powerhead
- (1) 3/4" I.D. vinyl hose
- (2) Hose clamps
- (1) 1" PVC hose adapter for outlet
- (1) 3/4" elbow for inlet

If any items are damaged or missing, please contact your dealer immediately.

2. There are many ways to connect your SR protein skimmer to your system, but the following two are recommended:

A) In the sump (most efficient method)

- a) Place the black elbow on the inlet to the skimmer in the vertical position pointing down as shown in the diagram.
- b) Connect the powerhead to the inlet with a short piece of 3/4" flexible tubing. Use the hose clamps to secure the hose to the inlet and to the powerhead.
- c) The outlet can be left alone, allowing water to simply drain out into the sump, or you can run 1" sch. 40 PVC from the outlet to the sump. You can also attach 1 1/4" flexible hose to the 1" PVC adapter that comes with the unit. The PVC slides directly into the outlet and the tapered end can be inserted into the hose.

(Note: We do not recommend cementing the inlet elbow or the outlet adapter into place for in-sump use as you may decide to use your protein skimmer in a different configuration in the future.)

B) Stand alone (used in conjunction with a sump)

- a) Place the protein skimmer in a position so that the outlet of the skimmer is higher than the wall of the sump.
- b) Position and cement (using PVC cement) the inlet elbow horizontally so that it is pointed directly at the sump. Allow it to dry for at least thirty minutes before attaching the powerhead.
- c) Insert and cement the PVC outlet adapter (if you are using a hose) into the outlet portion of the protein skimmer and make sure the outlet is pointed directly at the sump. You can also use 1" PVC to return the water to the sump. Again, wait thirty minutes for the cement to dry before attaching any hose to the adapter or before using the protein skimmer.
- d) Connect the powerhead to the inlet elbow with a piece of 3/4" flexible tubing as short as possible to reach from the Venturi powerhead in the sump to the inlet of the skimmer. A short line will increase the efficiency of protein skimming and should not exceed four feet. Use the clamps to secure the hose to the inlet elbow and the powerhead.
- e) Connect the outlet assembly so that the water can return to the sump. Make sure that the hose or pipe returning water to the sump is as far away from the return pump as possible to avoid any bubbles from being returned to the tank. The return to the sump can be made with 1 1/4" flexible tubing (using the PVC adapter) or with standard 1" PVC run directly into the sump.

(Note: It is extremely important to have a constant level of descent in the return line to the sump to ensure quiet and efficient operation.)

CPR does not recommend using the SR Series protein skimmers without the use of a sump. We manufacture hang-on protein skimmers for these types of set ups.

3. Connect the drain line to the nipple at the base of the foam collection cup and place the other end into a waste container to collect the residue that will eventually drain out.
4. Make sure that the vent line is attached to the base of the skimmer and to the upper of the two elbows on the top part of the skimmer cylinder. Make sure that the safety overflow line is connected to the other elbow on the cylinder and run the end of the line into the sump.
5. After connecting all lines, plug in the powerhead. As the water enters the protein skimmer, the water level in the sump will go down. You may have to add water to the sump. It is very important that the powerhead is always completely submerged and never allowed to run dry.
6. Adjust the water level in the skimmer by moving the slip-fix coupling up and down. Use this adjustment to adjust the quality and quantity of foam collected in the collection cup. The recommended water level in the skimmer column is right at the base of the safety overflow. After the skimmer has run for 24 hours you may need to readjust the water height in the skimmer. **If foam is coming out too fast or too wet, lower the slip-fix coupling. If the skimmer is not pulling any material from the tank you may need to raise the slip-fix coupling.** The protein skimmer should start producing greenish-brown foam within approximately ten hours depending on your tanks water quality and biological load. If the tank is new you may find that the skimmer pulls out very little or that you are only collecting clear liquid. This should not be a concern until you begin to add substrate and organisms to the tank.
7. The collection cup should be checked and cleaned regularly, paying special attention to the throat of the funnel. Excessive buildup of waste in the throat can decrease the efficiency of the skimmer to collect skimmate.

Your protein skimmer is now in operation

Removal and Cleaning of Your Powerhead

- 1) Disconnect the powerhead from the skimmer.
- 2) Remove the round plate by unscrewing it.
- 3) Wash all parts under running tap water. Never use detergent on parts that will come into contact with aquarium water. Make sure both air lines and elbows are clear of any foreign matter.
- 4) Re-assemble the powerhead and connect it to the protein skimmer.
- 5) The powerhead should be regularly cleaned, at least once a month, and should be replaced every twelve to eighteen months for optimal efficiency of the protein skimmer.

MUFFLER

The SR4 works better without the muffler attached. If the noise level is acceptable without the muffler, remove it. To clean the muffler, soak it in warm water and allow it to dry completely. It can also be replaced with a coarse airstone, which allows more air in than the standard muffler but has quieter operation.



