



Precision Marine Systems

Thank you for purchasing a Precision Marine Systems, Inc. product. Your new Redline Series protein skimmer is designed to give you years of high performance service. Please read the instructions thoroughly.

Assembly

- Follow the diagram on the other side of this page for proper assembly.
- DO NOT glue any parts in place.
- The venturi fitting threads onto the intake of the water pump and draws air through the flexible tube into the pump suction and mixes with the water. Attaching the black muffler is optional. More air will be drawn in without it.
- The black “cage” is unnecessary for operation, and it only used when the pump is used conventionally as a strainer.
- Turn the tee in any direction to direct the water flow from the protein skimmer drain.

Operation

- This protein skimmer must be placed in a reservoir.
- Be sure the water pump is ALWAYS covered with water. If it runs dry, it will likely fail and need to be replaced.
- Twist the adjustment pipe into the open position.
- Plug the water pump in.
- Use the pipe cut at an angle as a valve to raise and lower the water level in the protein skimmer body.
 - Lining up the arrow closer to the closed position will raise the water level.
 - Lining up the arrow closer to the open position will lower the water level.
- Start by adjusting the water/air interface no higher than where the clear skimmer body meets the white cone.
 - The greater the load of organics in your system, the more foam will be created, and you will want to set the water level lower in your skimmer reaction chamber. In this case, if you set the water level too high, you will wet skim or the skimmer cup will fill with water. In this case, lower the water level to achieve the desired skimmate/foam.
 - The lighter the load of organics in your system (new tank, recent water change, etc.), less foam will be created and you will want to set the water level lower in your skimmer reaction chamber. In this case, raise the level until you achieve the desired skimmate/foam. In some tanks the water level is well inside the white cone.

Keep in mind that there are additives that will cause protein skimmers to react by over-foaming, or ceasing to skim. In some cases with invertebrate foods, it's recommended to turn your skimmer off for a couple of hours. Refer to the additives you are using.

Maintenance

- Clean the skimmer cup as often as necessary. The cleaner the foam tube, the easier it is for foam to evacuate into the skimmer cup, and the more skimmate you will collect.
- Clean you pump at least once per month. Do not allow any foreign matter to be drawn into the pump intake through the venturi.

Maximum water level to submerge your skimmer so it will drain properly:

| RL100 | RL125 | RL150 | RL175 | RL200 | RL225 |
|-------|-------|-------|-------|-------|-------|
| 7" | 9" | 7" | 9" | 7" | 9" |