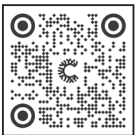




Protein Skimmer Installation Instructions

Model BSP-1



For questions or inquiries about
this product, please visit us online at
coralife.com or call **888-255-4527**

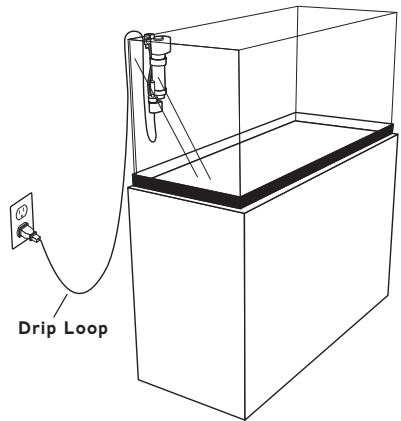


IMPORTANT SAFETY INSTRUCTIONS

WARNING - To guard against injury, basic safety precautions should be observed including the following:

1. READ AND FOLLOW ALL SAFETY INSTRUCTIONS.

2. **DANGER** - To avoid possible electric shock, special care should be taken since water is employed in the use of aquarium equipment. For each of the following situations, do not attempt to repair yourself.
 - A. If the appliance shows any sign of abnormal water leakage, immediately unplug it from power.
 - B. Carefully examine the appliance after installation. It should not be plugged in if there is water on the parts not intended to be wet.
 - C. Do not operate any appliance if it has a damaged cord or plug, if it is malfunctioning or if it is dropped or damaged in any manner.
 - D. To avoid the possibility of the appliance plug getting wet, position aquarium stand and tank to one side of a wall mounted receptacle to prevent water from dripping onto the receptacle or plug. A "drip loop", shown in the figure below, should be arranged by the user for each cord connecting an aquarium appliance to the receptacle. The "drip loop" is the part of the cord below the level of the receptacle, or the connector if an extension cord is used, to prevent water traveling along the cord and coming in contact with the receptacle. If the plug or receptacle does get wet, DO NOT unplug the cord. Disconnect the fuse to the circuit breaker that supplies power to the appliance. Then unplug and examine for the presence of water in the receptacle.
3. Close supervision is necessary when any appliance is used by or near children.
4. To avoid injury, do not contact moving parts or hot parts such as heaters, reflectors, lamp bulbs, and the like.
5. Always unplug the appliance from the outlet when not in use, before putting on or taking off parts, and before cleaning. Never yank the cord to pull plug from outlet. Grasp the plug and pull to disconnect.
6. Do not use an appliance for other than intended use. The use of attachments not recommended or sold by the appliance manufacturer may cause an unsafe condition.
7. Do not install or store the appliance where it will be exposed to the weather or to temperatures below freezing.
8. Make sure an appliance mounted on a tank is securely installed before operating it.
9. Read and observe all the important notices on the appliance.
10. If an extension cord is necessary, a cord with a proper rating should be used. A cord rated for less amperes or watts than the appliance rating may overheat. Care should be taken to arrange the cord so that it will not be tripped over or pulled.



ONLY FOR POLARIZED ATTACHMENT PLUG APPLIANCES

11. This appliance has a polarized plug (one blade is wider than the other) as a safety feature, this plug will fit in a polarized outlet only one way. If the plug does not fit fully in the outlet, reverse the plug. If it still does not fit, contact a qualified electrician. Never use with an extension cord unless plug can be fully inserted. Do not attempt to defeat this safety feature.

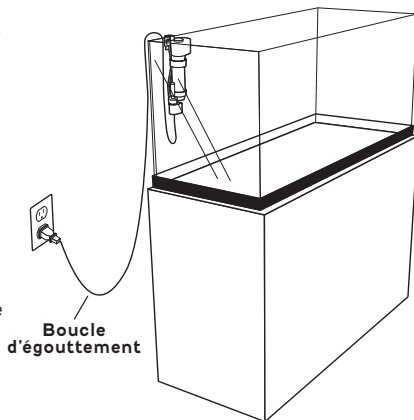
12. SAVE THESE INSTRUCTIONS.

CONSIGNES DE SÉCURITÉ IMPORTANTES

AVERTISSEMENT - Pour protéger contre les blessures, respecter les consignes de sécurité de base, notamment ce qui suit :

1. LIRE ET RESPECTER TOUTES LES INSTRUCTIONS DE SÉCURITÉ.

- DANGER** – Pour écarter les risques de décharge électrique, faire preuve de précautions particulières en raison de la présence d'eau dans l'aquarium. Dans chacune des situations ci-dessous, ne pas tenter de réparer soi-même ; renvoyer l'appareil à un centre de réparation agréé ou le mettre au rebut.
 - Si l'appareil montre des signes de fuite d'eau anormale, le débrancher immédiatement.
 - Examiner l'appareil avec soin après son installation. Ne pas le brancher s'il y a de l'eau sur des pièces non destinées à être mouillées.
 - Ne pas utiliser un appareil s'il a un cordon ou une fiche endommagés, s'il fonctionne mal, s'il est tombé ou s'il a été endommagé d'une quelconque façon.
 - Pour écarter le risque de mouiller la fiche de l'appareil ou la prise de courant, placer le socle et la cuve de l'aquarium sur le côté par rapport à la prise murale, afin d'éviter que l'eau ne goutte sur la prise ou la fiche. Prévoir une « boucle d'égouttement », illustrée ci-dessous, sur chaque cordon qui raccorde un appareil de l'aquarium à la prise de courant. La « boucle d'égouttement » est la portion de cordon en dessous du niveau de la prise, ou du connecteur si un cordon de rallonge est utilisé, pour empêcher l'eau de s'écouler le long du cordon et de venir au contact de la prise. Si la fiche ou la prise sont mouillées, **NE PAS** débrancher le cordon. Couper l'électricité au niveau du disjoncteur qui alimente l'appareil. Débrancher ensuite le cordon et voir s'il y a de l'eau dans la prise de courant.
- Une supervision étroite est nécessaire lors de l'utilisation de tout appareil électrique par des enfants ou à leur proximité.
- Pour éviter les blessures, ne pas toucher de pièces en mouvement ni de pièces chaudes telles que radiateurs, réflecteurs, ampoules, etc.
- Toujours débrancher un appareil de la prise de courant lorsqu'il n'est pas utilisé, avant de poser ou d'enlever des pièces et avant de le nettoyer. Ne jamais tirer sur le cordon pour sortir la fiche de la prise. Saisir la fiche et tirer pour débrancher.
- Ne pas utiliser un appareil à d'autres fins que celles prévues. L'emploi d'accessoires non recommandés ni vendus par le fabricant de l'appareil peut produire une situation dangereuse.
- Ne pas installer ni entreposer l'appareil dans un endroit exposé aux intempéries ou à des températures inférieures au gel.
- S'assurer qu'un appareil monté sur un aquarium est solidement installé avant de le mettre en marche.
- Lire et respecter toutes les consignes importantes figurant sur l'appareil.
- Si un cordon de rallonge est nécessaire, utiliser un cordon de capacité suffisante. Un cordon prévu pour des intensités (A) ou des puissances (W) inférieures à celles de l'appareil peut surchauffer. Veiller à disposer le cordon de manière à éviter tout risque de trébuchement ou d'arrachement.



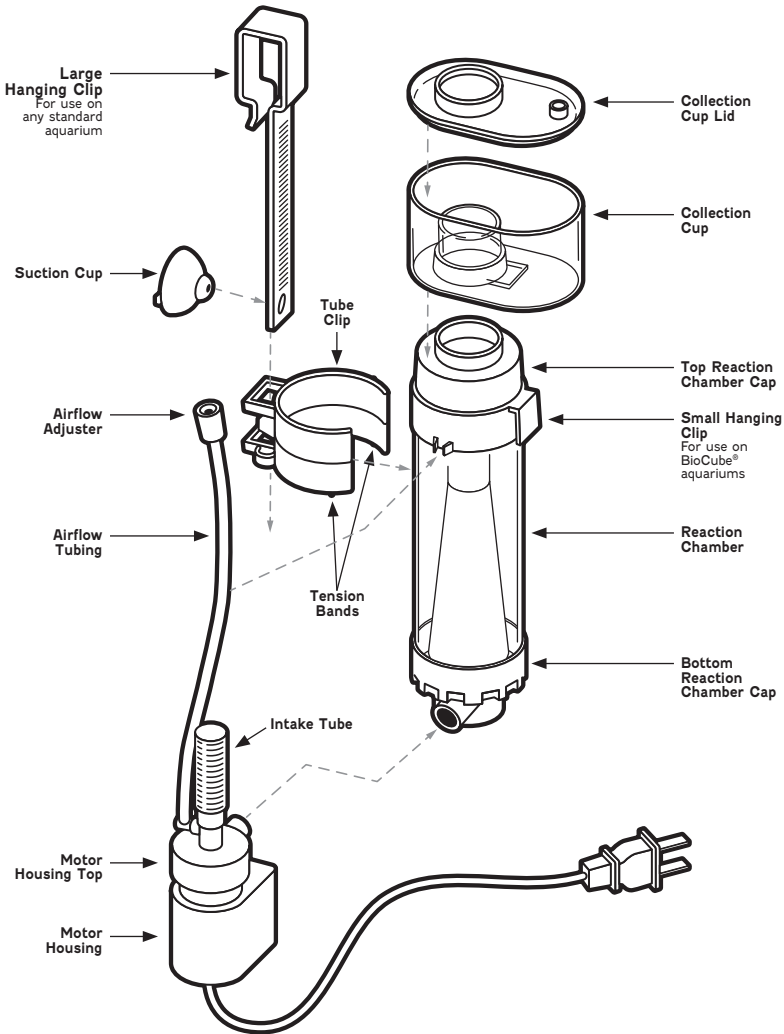
APPAREILS À FICHE POLARISÉE SEULEMENT

- Cet appareil est muni d'une fiche polarisée (une lame est plus large que l'autre) comme mesure de sécurité; cette fiche ne peut être branchée dans une prise polarisée que dans un sens. Si la fiche ne rentre pas complètement dans la prise, retourner la fiche. Si elle ne rentre toujours pas, contacter un électricien qualifié. Ne jamais utiliser avec un cordon de rallonge si la fiche ne s'enfonce par complètement. Ne pas tenter de contourner ce dispositif de sécurité.

12. CONSERVER CES INSTRUCTIONS.

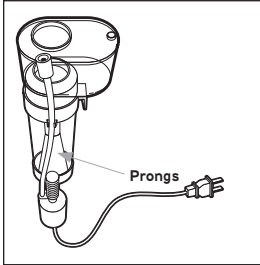
The BioCube® Protein Skimmer quietly and efficiently removes harmful organics from saltwater environments

- Simple installation
- Quick and easy to clean
- Compact design allows unit to be concealed in BioCube® aquariums
- Small hanging clip fits size 16, 29, and 32 BioCube® aquariums;
Large hanging clip for use on standard aquariums
- For saltwater aquariums up to 32 gallons



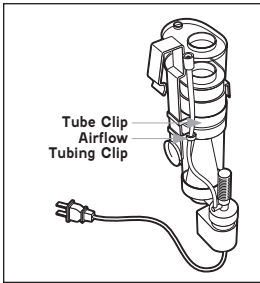
Installation Instructions

1. Connect pump to bottom cap of reaction chamber.
2. Route airline tubing.
 - a. If using with BioCube® 29 or 32 aquarium, route the airflow tubing between prongs located on the top reaction chamber cap.

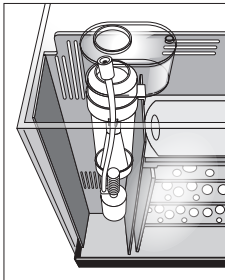


- b. If using with BioCube® 14 or 16 or other standard aquarium, connect large hanging clip to reaction chamber tube using the tube clip.

NOTE: The large hanging clip, suction cup and tube clip are preassembled.



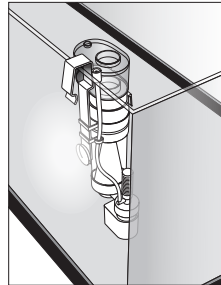
3. Place unit in aquarium.
 - a. If using with BioCube® 29 or 32 aquarium, use small hanging clip to hang protein skimmer on the wall between chambers one and two. Use small hanging clip to hang protein skimmer on the wall between chambers one and two.



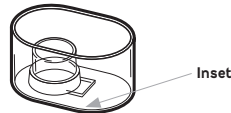
- b. If using with a BioCube® 14 or 16 aquarium, Remove the media basket from chamber 2 of the BioCube® aquarium. Then place the skimmer inside chamber 2 using the large adjustable hanging clip with suction

to hang the skimmer on the wall between chambers 1 and 2 with the skimmer in chamber 2. Use hanging clip to adjust protein skimmer so that the top collection cup is low enough for the lid to close properly. Because water level can change in this chamber due to evaporation, it is important to maintain a high water level and top off frequently to reduce fluctuations.

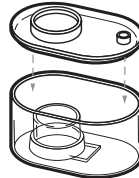
- c. If using with a standard aquarium, use the large adjustable hanging clip with suction cup; hang on side wall of aquarium. Use hanging clip to adjust protein skimmer so that the top reaction chamber cap is at water level. Collection cup needs to be completely above water level.



4. Place collection cup on top reaction chamber cap. There are 2 small prongs on the top of the top reaction chamber cap. Align the cup, using the inset in the cap, and snap into place. This locks the collection cup in place.



5. Return lid to top of collection cup.



6. Plug in protein skimmer; remember to incorporate the drip loop (see page 2). Adjust airflow adjuster so bubbles stay just above the top of the reaction chamber.



7. When collection cup fills, remove and dispose of waste material.

Performing Maintenance

1. Collection Cup

- a. Remove collection cup to dispose of waste and rinse with clean water. Replace cleaned collection cup and lid back on the reaction chamber.
- b. Emptying the collection cup will vary depending on the density of skimmate and type of livestock/corals in the aquarium.

2. Cleaning Airflow Tubing

- a. Unplug protein skimmer.
- b. Detach airline tubing from clamp and motor housing.
- c. Rinse tubing with clean water, making sure water is running through the tube. Do not use soaps or detergents.
- d. Rinse the black airflow adjuster to remove any salt deposits.
- e. Reconnect open end of tube to motor housing.
- f. Route the airline tubing to clamp.
- g. Place unit back on aquarium, plug into outlet. Remember to incorporate the drip loop (see page 2).

3. Cleaning Intake Tube

- a. Unplug protein skimmer.
- b. Remove entire unit from aquarium.
- c. Gently pull upward on intake tube to remove from motor housing.
- d. Rinse under warm water to remove debris; do not use soap or detergents.
- e. Reattach intake tube to motor housing.
- f. Place unit back on aquarium, plug into outlet. Remember to incorporate the drip loop (see page 2).

4. Cleaning Reaction Chamber

- a. Unplug protein skimmer.
- b. Remove skimmer from aquarium.
- c. Remove collection cup – empty, rinse and set aside.
- d. Disconnect motor housing from reaction chamber.
- e. Fill the reaction chamber with warm water and gently shake to loosen stuck on debris. Rinse thoroughly under warm water to remove loosened debris. Do not use detergents or abrasive materials to clean the chamber.
- f. Reconnect motor housing to reaction chamber.
- g. Route the airflow tubing to clamp.

- h. Place collection cup on top of reaction chamber, add lid.
- i. Place unit back on aquarium, plug into outlet. Remember to incorporate the drip loop (see page 2).

5. Cleaning Impeller and Pump

- a. Unplug protein skimmer.
- b. Remove and rinse debris from collection cup; set aside.
- c. Remove protein skimmer from aquarium, empty and rinse reaction chamber.
- d. Detach bottom reaction chamber cap from motor housing assembly. (The intake tube will likely stay attached when doing this.)
- e. Remove the motor housing top from the motor housing assembly. Remove by pulling the motor housing top from the motor housing; the fit will be tight. Once removed, the impeller will be visible.
- f. Remove impeller, rinse with cool water to remove debris; set aside.
- g. Wipe out inside of motor housing then rinse motor housing under cool water to remove debris.
- h. Once cleaned, reinsert impeller into motor housing.
- i. Reattach motor housing top to motor housing. Make sure the airflow tubing and intake tube are securely fastened in place.
- j. Reconnect motor housing to bottom reaction chamber cap.
- k. Return protein skimmer to aquarium, return collection cup to top reaction chamber cap.
- l. Plug in unit.

Troubleshooting

1. If you have too many microbubbles:

Turn down the air flow.

2. Air flow is restricted:

Clean air intake. Salt can crust over the air intake, restricting the air flow. Simply rinse the tube with warm water to remove salt.

3. If foam is too wet:

Adjust protein skimmer so that the top reaction chamber cap is at water level. Collection cup needs to be completely above water level.

One Year Limited Warranty

WHAT THE WARRANTY COVERS:

Central Aquatics (Company) warrants this Coralife® product (see Exclusions below) to the original purchaser against defective material and workmanship that occurs during normal in-home use for one year. Company will, at Company's option, either repair or replace same without charge (but no cash refunds will be made). This warranty is limited to replacement or repair of product only and does not cover loss of aquarium life, personal injury, property loss, or damage arising from the use of the product.

EXCLUSIONS:

1. Damage resulting from accident, misuse, abuse, lack of reasonable care, subjecting the product to any but the specified electrical service, other than normal and ordinary use of the product, subjecting the product to abnormal working conditions or any other failure not resulting from defects in materials or workmanship.
2. Damage resulting from modification, tampering with or attempted repair by anyone other than the Company.
3. Transfer of product to someone other than the original consumer purchaser.

WHAT YOU MUST DO TO ENFORCE WARRANTY:

Contact the Company by telephone:
888-255-4527

Or contact the Company by writing:
Central Aquatics
5401 West Oakwood Park Drive, Franklin, WI 53132
Attn.: Warranty

You must pay any postage, shipping charges, insurance costs and other expenses to return the product along with the original cash register receipt to Central Aquatics. However, if the necessary repairs are covered by the warranty, Company will pay the return shipping charges to any destination within the United States or Canada.

LIMITATION OF IMPLIED WARRANTIES AND EXCLUSION OF CERTAIN DAMAGES:

THE COMPANY DISCLAIMS LIABILITY FOR INCIDENTAL AND CONSEQUENTIAL DAMAGES FOR BREACH OF ANY EXPRESS OR IMPLIED WARRANTY, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY, WITH RESPECT TO THIS PRODUCT. THIS WRITING CONSTITUTES THE ENTIRE AGREEMENT OF THE PARTIES WITH RESPECT TO THE SUBJECT MATTER HEREOF; NO WAIVER OR AMENDMENT SHALL BE VALID UNLESS IN WRITING SIGNED BY THE COMPANY. Some states do not allow the exclusion or limitation of consequential damages, so the above limitation or exclusion may not apply to you.

