



Bak-Pak™ Dual Pak WITH ACCELA PUMP

The Dual Bak-Pak™ is designed to provide a combination protein skimmer/biological filter that simply hangs on the back of the aquarium with no plumbing required. This version of the Bak-Pak™ incorporates dual protein skimmers utilizing the same technology that has made the Bak-Pak™ line of protein skimmers so popular. The Bak-Pak™ Dual Pak can be used to replace or supplement an existing system and comes complete with two Accela pumps, as well as our Bio-Bale™ filter media. The Bak-Pak™ Dual Pak can handle aquariums up to 100 gallons.

To place your Bak-Pak™ Dual Pak into operation:

- 1) Carefully remove all packaging and inspect the unit for damaged or missing parts. You should have:
 - (1) Skimmer body with Bio-Bale™ filter media
 - (2) Acella pumps
 - (2) Airline tubings and air control valves
 - (2) Collection cups with "O" rings and lids
 - (2) Outlet assemblies (Not attached)
 - (2) Inlet assemblies (attached to body)

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

- 2) Attach the powerheads to the inlet assemblies as shown (Diagram A) and hang the Bak-Pak™ Dual Pak on your tank**. Use the adjustment screws to position the Bak-Pak™ Dual Pak so that it is parallel to the back of the tank.

***If the powerheads do not fit through the opening of the aquarium, then place the Bak-Pak™ Dual Pak on the tank and insert the powerheads into the inlets from inside the aquarium. Make sure that the mufflers on the end of the long airlines are outside of the water at all times. Black clips are provided at the top of the unit to hold the airlines.*

- 3) Remove the two outlet assemblies from their plastic wrapper. Unscrew the hex nut from the threaded portion of one outlet and insert the threaded side into the body of the Bak-Pak. **To prevent leaks, make sure the washer is on the outside of the body.** (See Diagram on back page) Tighten the hex nut to the threaded portion to hold the outlet in place. Attach the second outlet assembly in the same way as the first.
- 4) Clean the collection cups including the throat of the funnels in hot water. This will allow the skimmer to begin collecting waste faster. Do not use any detergents on the collection cup.
- 5) Plug in the powerheads. Your Bak-Pak™ Dual Pak is now operational.
- 6) The Base of the collection cups should be 1/8" below the water surface for optimal performance. Slide the O-ring up or down until the desired skimmate wetness is achieved. (See Diagram on back page)
- 7) The air valves on the airlines will allow you to control the amount of air being drawn into the powerhead. We recommend opening the valve completely for maximum air flow into the skimmer. If bubbles do not reach the bottom of the skimmer column, slowly close the valve until the column is full.

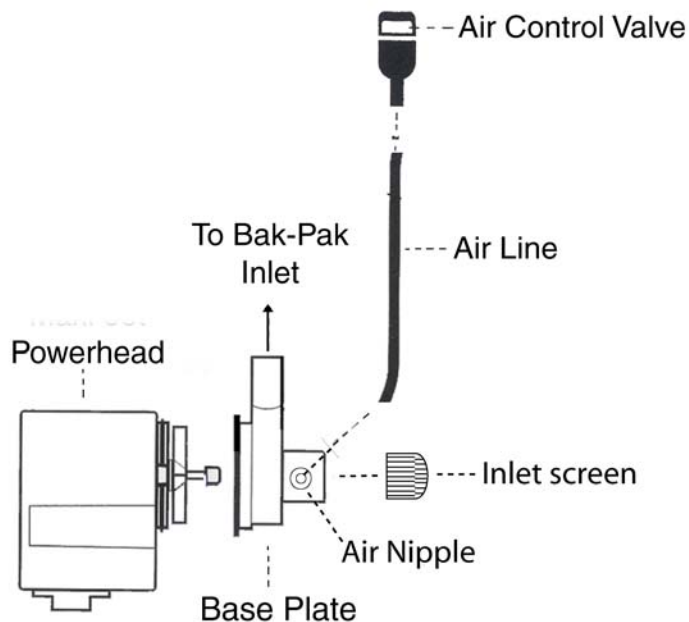
It is common that some of the micro-bubble escape to the tank for the first 48 hours. It will stop after the break-in period

MAINTENANCE

- 1) The collection cups should be emptied regularly. Every time you empty the cups, clean the base of the funnels and the inside of the throats for better performance.
- 2) The Bio-Bale™ should be cleaned every three months, or as needed. Remove the Bio-Bale™ filter media and place it in a bucket of saltwater. Swish the Bio-Bale™ around in the water to remove any algae or detritus. Shake off any excess water before returning it back to the bio chamber of the Bak-Pak™ Dual Pak. Never use detergents of any kind on the Bio-Bale™ and do not allow it to dry out. Make sure not to pack the Bio-Bale™ too tightly when placing it back into your Bak-Pak™ Dual Pak.
- 3) Clean the powerheads at least once a month. Replace the powerheads every twelve to eighteen months to ensure optimal performance
- 4) The inlets and outlet may be removed and cleaned as needed. Be sure to replace the washers on each assembly when reassembling your Bak-Pak™ Dual Pak. With the fittings removed the body can be cleaned with warm tap water and an algae scrubber. **Be careful when removing and assembling the inlet and outlet fittings. Do not over-tighten these fittings as this may cause them to break.**

REMOVAL AND CLEANING OF YOUR POWERHEADS

- 1) Slide the powerheads out of the inlets of the Bak-Pak™ Dual Pak.
- 2) Remove both air lines and the intake screens by pulling away from the powerheads.
- 3) Remove the base plate by lining up the flat portion to the locking guide. Pull the base plate straight away from the powerhead as the impeller may be attached to it.
- 4) Wash all parts under warm tap water. Do not use any detergents. Make sure that the air lines are clear of any foreign matter, calcium buildup or salt creep before reassembling.
- 5) Reassemble the powerheads and place them back on your Bak-Pak™ Dual Pak.



TROUBLE SHOOTING

Problem:	Cause and Solution:
Small air bubbles returning to the tank	The surface tension of the water has been increased by the addition of additives, medications, or conditioners. Disable the protein skimmer by submerging the airline into the water (remove muffler first) or shutting off the air valve for 24 hours. Many products contain chemicals which will still be present in the aquarium after 24 hours. Running the protein skimmer as well as the use of activated carbon will help to remove compounds which may be affecting surface tension.
	The salinity is too high. Lower the salinity to 1.023.
	The aquarium has just been cleaned or water has been changed. Synthetic salt mixes often contain conditioners which increase the surface tension of the water. Bubbles should disappear within 24 hours.
	The air lines are clogged with detritus or salt creep. This will increase the water flow rate and possibly sweep the bubbles from the skimmer chamber back into the tank before they can dissipate. The airlines should be cleaned every two weeks.
	The Bio-Bale has been removed. The Bak-Pak 2 is designed so that a small amount of air escapes into the Bio-Bale chamber to support the bacteria. If you decide to use the Berlin method of filtration and remove the Bio-Bale you may purchase the Bak-Pak Bubble Trap (BPBT) which slides into the chamber, or the NBT Bubble Eliminator, which slides over the outlet of the Bak-Pak 2.
Bubbles escaping from the powerhead into the tank.	The base plate is not properly sealed. Remove the plate and make sure no detritus or calcium buildup is preventing the plate from sealing properly. Be sure not to break or bend the two clips which hold the plate in place.
No waste collecting in collection cup.	The powerhead and its air line may be dirty. Clean the whole pump every two weeks for optimal performance.
	The collection cup is not low enough. See instructions for the correct height of the collection cup.
	The biological load may not be sufficient to generate waste. On a new tank or a tank with supplemental filtration it may take over a week to generate waste foam.
	Skimmer chamber is not filled with micro bubbles. Slowly close the air line valve until the chamber is filled with bubbles.
Water is flowing through the safety hole in the center divider.	The Bio-Bale is packed too tightly. Remove the Bio-Bale and reposition it so it doesn't restrict water flow.
The Accela is producing little or no bubbles.	An airline or the air control valve may be blocked. Detritus, calcium and salt will build up in these parts over time. Clean these parts every two to three weeks with warm tap water.
	The powerhead may need to be cleaned. If the powerhead becomes clogged with organic material the flow rate and the air intake rates will reduce. Follow the instructions included with your Bak-Pak Dual Pak to clean your powerhead.
Tank has high ammonia or nitrite readings.	Your tank may not have completed the nitrogen cycle. This process can take up to 8 weeks in fish-only systems.
	It may be necessary to clean the Bio-Bale. Follow the instructions included with your Bak-Pak 2 to clean the Bio-Bale.
	If you find that it is necessary to clean the Bio-Bale more than once every couple of months, you may be over feeding your tank. Please consult your local fish store about the proper feeding of your tank.

Before calling CPR's Technical Support, please take some time to look over this trouble-shooting guide. Most of the problems associated with the performance of the Bak-Pak™ Dual Pak are due to improper maintenance of the Accela pump. Cleaning the powerhead at least once a month will ensure optimal performance of the Bak-Pak™ Dual Pak.

Diagram A

Bio-Bale

Collection cup

Outlet

Airline clip

Inlet

Directional outlet

Powerhead

(Illustrated with Rio 600RV pumps. Please refer to page two for Accela pump diagram.)

WASHER PLACEMENT

Outlet Washer:
Place outside of body.

