



## MRT Quarantine/Micro Reef Tank

Until now it has been difficult to create a hassle-free micro reef, or a quarantine tank that doesn't require high amounts of maintenance. The MRT is a multipurpose tank that has been designed to make micro reefs easy to keep and allows those with larger systems to quarantine specimens before adding them to their main tank. Using a removable, easy to clean version of our SR2 protein skimmer/biological filter, the MRT quickly and efficiently removes wastes from the tank. With its 18 ½" x 12" footprint, the MRT is small enough to fit on a desk while providing adequate filtration to sustain its inhabitants.

***WARNING: This unit is not designed for use with ozone injection. Use of ozone with this unit will drastically reduce the effectiveness of the biological filtration section.***

To place your MRT into operation:

1. Carefully remove all packing materials and the protective paper covering the sides of the MRT. It may be necessary to use warm water to remove the residue left by the paper.
2. Inspect all parts of the filter assembly. You should have:
  - (1) Collection cup assembly with lid and "O"-ring
  - (1) Rio 600RVT powerhead for protein skimmer
  - (1) Rio 180 return powerhead
  - (1) Sponge and fish screen
  - (1) Tank body and lid
  - (1) Bio Bale™ filter media

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

3. Place the collection cup (with the "O"-ring around the main part of the cup) into the skimmer chamber with the flange (large open end) of the funnel facing down.
4. Gently ensure that the Rio 600RVT powerhead is securely inserted into the inlet of the protein skimmer and that the airlines are firmly attached.
5. Make sure that the Rio 180 return powerhead is attached to its outlet, which is already mounted inside the filtration section of the MRT.
6. Gently place the protein skimmer unit into the filtration section with the Rio 600 placed beneath the inflow from the tank. Place the sponge about four inches above the Rio 180 return powerhead so it is just under the outlet of the bio chamber.

7. Fill tank partially and place substrate (if any) on the bottom of the tank. Fill the tank up until water begins to flow into the filter portion of the MRT. Begin filling the filter portion of the MRT by adding water to the side of the filter which has the Rio GOORVT. Fill this until the water level is about three inches above the Rio GOORVT.
8. Plug both powerheads in. The MRT is now in operation.
9. Once the skimmer is operating it will probably be necessary to add more water to the filter portion so that the powerheads are fully submerged and not in any danger of going dry due to evaporation.
10. Adjust the "O"-ring on the collection cup so that the funnel portion is about 1/8" below the water level in the skimmer chamber. The quality of foam in the collection cup can be adjusted by sliding the "O" ring up or down. If the foam is too wet, raise the collection cup up by sliding the "O" ring down until the desired wetness is achieved. The base of the collection funnel should be 1/8" below the water surface for optimal performance, but can be adjusted down from this point if the foam is too dry (little to no liquid present) or up if the foam is too wet (clear liquid only in collection cup).

### **Maintenance**

1. The collection cup should be removed and emptied regularly. Every time you empty the cup be sure to clean the bottom of the funnel and inside the throat for better collection.
2. You should perform a partial water change at least once a month. The frequency of water changes depends heavily on the amount of fish and invertebrates in your tank and your feeding rate.
3. The Bio-Bale™ filter media should be removed and cleaned every three months, or as needed. Remove the Bio-Bale™ and place it in a bucket of saltwater, preferably water from your MRT. Gently swish the Bio-Bale™ around in the water to remove any algae or detritus. Shake off any excess water before returning the Bio-Bale™ to the filter chamber. Never use detergent of any kind on the Bio-Bale™, and do not allow it to dry out. When placing the Bio-Bale™ back into the filter chamber, be sure not to pack it too tightly.
4. Clean each powerhead at least once a month and replace the impeller assembly once a year for the most efficient operation.
5. The outside of the MRT may be cleaned with a non-abrasive cloth. Do not use detergents on any surfaces that may come in contact with aquarium water.

## Removal and Cleaning of the Powerheads

1. Unplug each powerhead and slide the entire filter unit out of the MRT housing.
2. Carefully remove the small Rio 180 from the back wall of the MRT. Remove the cover plate from the base and the round plate by lining up the flat portion to the locking guide. Remove and clean the impeller assembly as well as the inside of the powerhead. Do not use any detergents. Reassemble the powerhead and carefully place back into position into the MRT.
3. Remove the Rio 600RVT from the inlet tube to the protein skimmer. Remove the air lines and use a flat-head screwdriver inserted into slot (c) to gently pry off the cover plate. Remove and clean the impeller as was done with the Rio 180. Soak the airlines and gray elbows in warm water to eliminate salt creep and replace. Make sure air lines and elbows are free of any foreign matter before reassembling.
4. Gently slide the Rio 600RVT back into the inlet of the skimmer chamber and place the entire filter unit back into place.
5. Due to water loss you may need to refill the filter portion before plugging the powerheads back in. Follow the instructions from page one on placing the MRT into operation.



