# PhytoTank Set-Up Guide: Macroalgae Reactor



www.poseidonreefsystems.com

# Safety, Care & Maintenance

### \*DO NOT SUBMERGE THE PHYTOTANK\*

The LED lighting System is not waterproof

Avoid getting water on the PhytoTank, especially when opening
the reactor to remove macroalgae.

As with all electrical aquarium equipment keep the power supply, electrical connections and the power cord away from water. Create a drip loop with your power cord to prevent water from getting into the electronics.

For more information visit www.poseidonreefsystems.com or email us at info@poseidonreefsystems.com

#### **Poseidon Reef Systems Product Lines**

**PhytoTank** Systems



Individual













#### **Copepod Systems**

Start with a PhytoTank-CL System



One PhytoTank for phytoplankton

Everything you need to harvest pods

Second PhytoTank for Copepods

Add 1-2 Additional **PhytoTanks Grow additional** 

**Starter Cultures** 

Phytoplankton or **Copepod Species** Simultaneously

**Air Pumps** 





**Phytoplankton Systems** 

Start with a PhytoTank System



**Grow 1 Phyto Species** 



#### **Phytoplankton Storage**

Seal Phytoplankton in storage pouches to backup your cultures



#### Storage Pouches Sold in 10 Packs



#### **Macroalgae Reactor**



Grow macroalgae to lower phosphate in your display tank

- Start with a small clump of macroalgae
- Pump water from your sump through the reactor
- Macroalgae will grow and absorb phosphate
- Periodically remove macroalgae to make room for new growth



#### **Buy Now & Expand Your System Later!**

# Add PhytoTanks + Power Supply (1 for every 4 PhytoTanks) Add PhytoTanks



Convert a PhytoTank to a Macroalgae Reactor



#### **Culture or Dosing**

#### **Culture Caps: Grow Phyto**



Aeration & Vent Bulkheads

#### **Dosing Caps: Dose Phyto**



Aeration, Vent & Dosing Pump Bulkheads

# Phytoplankton Systems are sold with Culture Caps

- Select a Dosing or Culture Cap When You Add Additional PhytoTanks
- Grow Phytoplankton in one PhytoTank & Dose Phytoplankton from Another PhytoTank

#### **Supplies**



Fertilizer



#### **Culture Packs:**

- 10 Culture Bags
- 10 Aeration Tubes
- 10 Air Vent Tubes
- 10 Disposable Pipettes

Air Filters



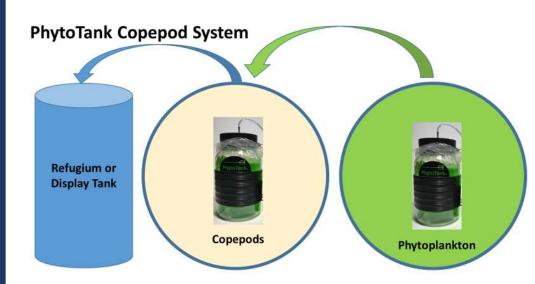
#### **Self-Sustaining Copepod Cultures**

Copepods are an essential food source for a wide variety of reef tank inhabitants, especially mandarin gobies and other dragonettes. In addition, Tisbe pods will consume detritus and contribute to a cleaner reef tank.

PhytoTanks make it fast & easy:

Grow phytoplankton in one PhytoTank and then feed it to copepods growing in a second PhytoTank.

- -No need for fluorescent lights
- -No cleaning or disinfecting between cultures
- -Spend less time fussing with improvised culture systems and more time enjoying your reef tank!



#### **PhytoTank Copepod System**



#### PhytoTank Copepod System: Pod Nest



The Pod Nest is designed to provide a substrate for copepod infestation and simultaneously provide aeration and filtration

# **PhytoTank Macroalgae Reactor**

# Use Chaeto Macroalgae to remove phosphate and nitrate from your reef tank

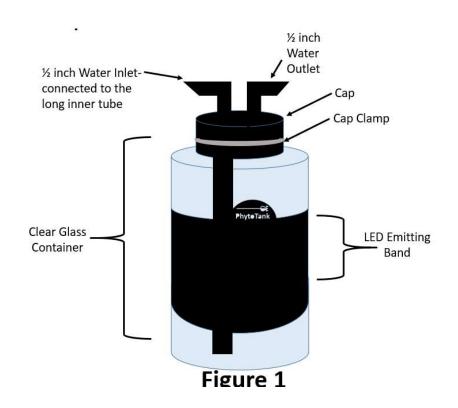
Chaeto macroalgae is a natural and effective way to remove phosphate and nitrate. Macroalgae consumes these nutrients during growth.

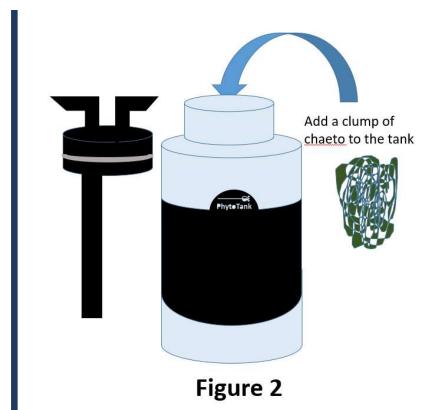
The PhytoTank provides an ideal environment for macroalgae growth due to the efficient lighting system.

Set up the PhytoTank Chaeto reactor by installing a small pump in your sump (do not exceed 250 g/hr) that will pump water from your system, through the reactor and then back into your sump.

\*DO NOT SUBMERGE THE PHYTOTANK! The electronics are not waterproof!









Place the cap onto the tank (make certain that it is firmly seated as far down as possible) and tighten the clamp firmly but do not use a wrench.

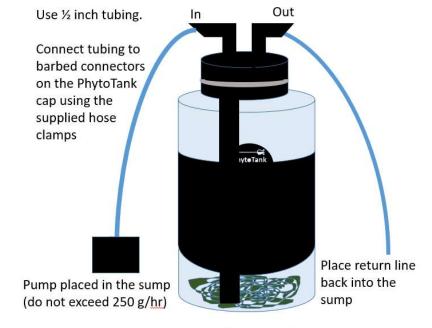
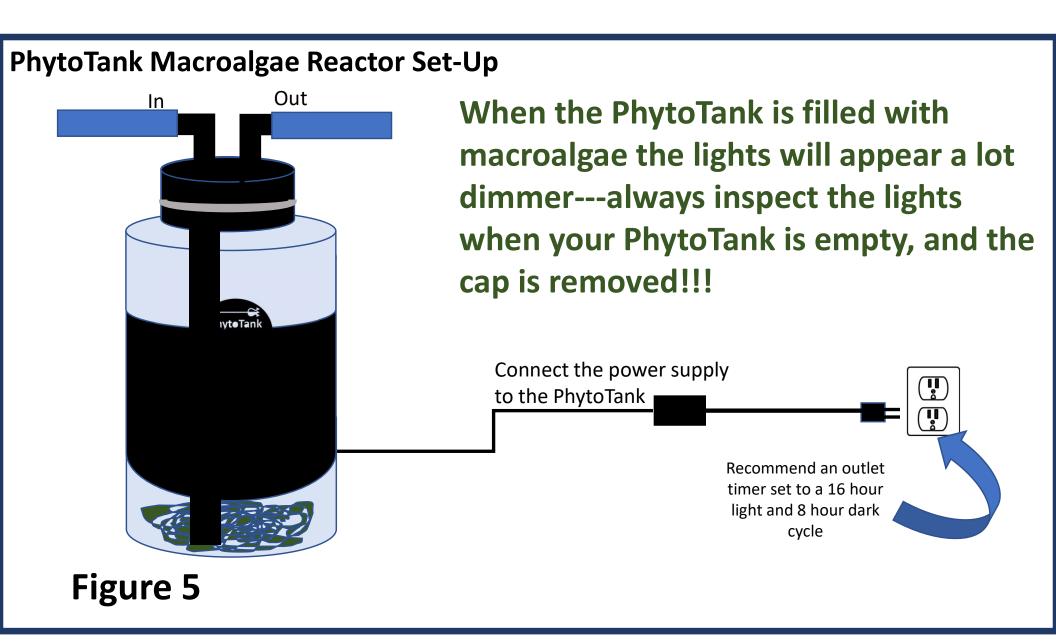


Figure 3

Figure 4

## Make sure the electrical connections are not in contact with water!



#### IMPORTANT INFORMATION

- 1. Make sure the electrical connections are not in contact with water.
- 2. Check the plumbing connections periodically for leaks
- 3. If your aquarium is less that 30 gallons, then invert the light cycle so that the PhytoTank is on when your main lighting system is off. This is because the LED lights in the PhytoTank may increase the water temperature.
- 4. When the chaeto takes up the full volume of the PhytoTank, turn the pump off, remove the cap and discard 75% of the chaeto. Take this opportunity to clean the inside of the tank with a damp cloth to remove any algae that may have started growing on the glass. Do not submerge the PhytoTank while cleaning it!
- 5. If the reactor is positioned below the water level of the sump, make sure you lift the reactor above the sump before turning off the pump and removing the lid to avoid siphoning water out of the sump. Alternatively, place shut off valves in the supply and discharge tubes as close to the reactor as possible so that you can close those valves after shutting off the pump and before removing the cap.