

BIO BOX FILTRATION TECHNOLOGY by DAS

Most Aquarium Hobbyists know all about the **Nitrogen Cycle**. Ammonia enters the tank through fish waste, decaying food, etc. Aquatic Plants feed on the ammonia and absorb heavy metals like Cadmium, Zinc, Lead & Copper which are all harmful to fish. Bacteria in the aquarium changes ammonia to nitrite (toxic) then to nitrate (non toxic in low doses).

To obtain bacteria, a traditional aquarium needs to cycle for weeks. Many types of mechanical, chemical & biological filters are available. These filters are all designed to maintain this cycle as well as filter particles out of the water. A lot of these filters are complicated or expensive with lots of media & cartridges to buy and replace. Some may simply be too powerful, and will compete with plants for ammonia, causing plants to die or stop thriving.

In nature, **Aquatic Plants & Bacteria-Rich Soil** break down ammonia & nitrites. No body of water can exist without Plants & Bacteria-Rich soil. The same is key for a successful Freshwater Aquarium.

This is why we developed the **Bio Box & the Bio Box Filter**. The Bio-Box provides the Bacteria Rich Soil while at the same time containing it so it will not cloud the water. The holes on top are covered with a filter material which will allow the roots of the plants to settle into the dirt. It's a simple, yet extremely effective approach to keeping a successful, natural, and most of all **Chemical Free** Freshwater Aquarium.

A powerhead pump added to the **Bio Box** pulls the water through the gravel where bacteria grows to break down waste products. It is a very simple yet extremely effective filtration method.

After years of testing we found that this **Back To Nature** approach allowed us to have thriving plants and fish with virtual **No Maintenance**.

