



# Mini Internal Filter

## Hints & Tips For Best Results

### FILTER MEDIA

#### Biological Filtration (Sponge)

Biological filtration is a process where toxic nitrogen compounds such as ammonia and nitrite (Fish waste) are removed from the system via a breakdown process carried out by nitrifying bacteria. (Nitrobacter and Nitrosomonas). These nitrifying bacteria need substrate with a high surface area to adhere to such as a sponge or Bio Grid.

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- When starting a new system it is important to remember that the bacterial colony takes time to develop and grow.
- You can speed up the process by 'seeding' the system with Aqua One Bio Starter.
- Over time this media can block up or break down so it is important to monitor it.

Seek advice from your Aquarium Specialist if either of these problems arise.

#### Chemical Filtration (Carbon Cartridge)

This is the removal of dissolved organic and inorganic substances through adsorption on a porous substrate or by direct chemical removal. Dissolved organic compounds are what turns the water a yellow-brown colour or causes foaming at the surface of the aquarium and need to be removed.

- Remove carbon cartridge if treating fish with medication.
- Replace every 6 – 8 weeks as the carbons adsorption capacity will have depleted.
- Rinse well before placing in the aquarium. (in tap water)

#### Mechanical Filtration (Filter Sponge and Ceramic Cartridge)

This is the process whereby suspended solids or particulate matter are removed from the water. It is important to remove suspended solids not only to improve clarity of the water but also to:

- Avoid smothering the gills with solids such that fish cannot breathe.
- Decrease risk of disease outbreaks - there are high numbers of bacteria associated with suspended organic solids.
- Protect the biological filter material from rapidly becoming clogged.'
- Can also act as a biological filter medium by providing sufficient surface area to host beneficial bacteria



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## Trouble Shooting

If you are in any doubt about the electrical installation or safety of this product you must consult a qualified electrician.

### **PUMP WORKING BUT NO / SLOW WATER FLOW**

1. Check impeller is in good condition and replace if needed.
2. Check flow controller O-ring for leaks. Replace if required.
3. Make sure water level in aquarium is at the suggested level.
4. Clean impeller, power head and all inlet and outlet pipes.