



# Horizon

## Hints & Tips For Best Results

### Introduction of Fish

Note: This is only a guide! You should seek professional advice from your aquarium specialist at the time of purchase.

#### **DO NOT ADD ALL FISH AT ONCE!**

Build stock levels slowly over time. Allow at least one week between additions of fish. Add a filter supplement to help the biological system cope with the additional waste.

Do not over crowd. Remember all fish will grow, so allow them adequate space.

#### **LIVE PLANTS**

Once the water conditions and pH levels are optimal, live plants can be added to the aquarium. Remember to empty some water from the aquarium before adding anything to it.

#### **REMEMBER LIVE PLANTS NEED TO BE FED!**

An aquarium safe plant fertiliser should be used.

#### **LIGHTING**

It is recommended that the light is turned completely off for at least 8 hours per day to allow the fish a proper night period. More than 10 hours of full light daily can encourage excessive algae growth.

- The LED light unit does not require replacement bulbs and should last the life of the tank.
- To maximise light quality, ensure that the clear cover and aquarium lids is kept clean.

### FILTER MEDIA

#### **Biological Filtration (Bio- Grid/Filter 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.

- When starting a new system it is important to remember that a bacterial colony takes time to
- 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.



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- 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 Carbon 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

## **Trouble Shooting**

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

### **LIGHT UNIT DOES NOT WORK**

1. Ensure switch is in the on position on the top of the light unit.
2. Check if its is plugged into the power supply and the switch is on.

### **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.

### **AQUARIUM POSSIBLY LEAKING**

1. Clean carbon cartridge as this can create an overflow.
2. Make sure the tank is sitting level.
3. Make sure water level is not too high.
4. If an air stone is being used check it is not bubbling water over the rim of the aquarium if so turn the air pump down.
5. Make sure the aquarium is sitting on a level surface.
  - 6a. Turn off the light unit & filter unit and remove filter media. Mark the water level. Remove any excess water that may be sitting on the edge of the aquarium. Leave for an hour. If water level drops proceed to step 6b.
  - 6b. Remove the fish, decorations and gravel. Empty the aquarium and clean the glass **DO NOT WASH IN SOAP OR DETERGENT.** Place a piece of newspaper on a flat level solid surface. Carefully fill the aquarium ensuring not to spill any water on to the newspaper. Leave the aquarium for several hours and then inspect the newspaper for wet patches.