



# BettaVilla

## Hints & Tips For Best Results

### 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.

### FILTER MEDIA

#### Biological Filtration (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.

- 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 (Carbon Cartridge and Filter Sponge)

Mechanical filtration involves physically removing solid particles from the water. In addition to improving the visual appearance of the aquarium, it is important for the health and wellbeing of the inhabitants.

In this aquarium, both the sponge and Carbon Cartridge performs the mechanical filtration.

- 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.



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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.

### LIGHT UNIT DOES NOT WORK

1. Check light is plugged into power supply and the switch is on.
2. Touch light button a several times to check light unit.

### POWER HEAD WORKING BUT NO / SLOW WATER FLOW

1. Check impeller is in good condition and replace if needed.
2. Make sure water level in aquarium is above the power head. Please note the power head is a water proof unit.
3. Clean impeller, power head and all inlet and outlet pipes.
4. Check intake is not clogged up with fine substrate.

### BUBBLES ARE COMING OUT THE OUTLET INTO THE AQUARIUM

1. The water level in the filter is too low. Add sufficient water so that the pump is fully submerged.

### AQUARIUM POSSIBLY LEAKING

1. Clean filter media as this can create an overflow.
2. Direct the duck bill is pointed downwards to reduce splashing.

3. Make sure water level is not to 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 and unplug all equipment. Remove filter media. Mark the water level on the aquarium.

Remove any excess water that may be sitting on the edge of the aquarium with a clean towel. 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.