

Biological Filtration

In the simplest terms, a biological filtration system employs the natural biological process of a pond to purify the water. Despite the many types of designs available, all biological filters use aerobic bacteria that flourish in oxygen-rich conditions such as a pond. These bacteria convert the toxic ammonia (created by the decomposing organic waste) into less-harmful substances that are eventually recycled in the "nitrogen cycle". When looking for a filter system - you want a system that:

- Works when running 24 hrs. per day
- Is easy to maintain - outside the pond

Maintaining A Successful Bio-Filter

- Your biological filter must be kept running continuously, or bacteria will die
- Inspect the filter each week, checking for accumulations of algae or leaf litter on the bacterial growth material.
- Clean your pond once a year, usually in the winter, due to the low activity of the fish inhabitants.
- Add a nitrifying bacteria starter to the pond in order to condition the filter. This is a concern for owners of Koi ponds!

Feeding and Stocking Pond Fish

The fish which you keep in your water garden are an important part of a well-balanced pond. Keeping healthy fish in your pond is relatively straightforward, if you pay attention to proper nutrition and water quality. Water quality is affected by stocking level, feeding and addition of new fish. The stocking level is dependent upon your filtration and pond size. A general rule for success is to stock your pond with approximately 3 to 4 inches of fish for every square foot of pond surface area in a filtered pond. Too many fish will result in poor water quality and low oxygen levels. Waste materials excreted into your pond by your fish, frogs and various other animals, along with decaying plant matter, can create a build-up of toxic substances in your pond. A biological filter will assist in removing many of these toxic substances.

WATER GARDENING TIPS

Consider using a separate pump for your filter and for your water movement. A filter must run 24 hrs. per day to be effective. However, a pump for a fountain or waterfall need only be on when you want to enjoy its beauty. Therefore, two separate pumps are often a practical, "electricity-saving" measure.

Microbe-Lift Oxygen

The best prescription for the lack of oxygen. Use during times of oxygen stress.

- For the immediate and continuous release of oxygen in ponds and lagoons
- Improves dissolved oxygen levels
- Use for immediate and continuous release of oxygen in overloaded systems
- Safe for humans, wildlife and aquatic life
- Provides slow release of oxygen to ponds for weeks after addition
- Noncaustic
- Nontoxic
- Food Grade

ORDER CODE: OXYQT-PG19



Microbe-Lift Spring Cleaning

A seasonal approach for proper bacterial balance in ponds.

- Specially formulated to accelerate the breakdown of leaves, small branches, and other accumulated dead organic waste
- NOT a chemical. Harmless to fish, humans and plants
- Helps jump start your pond to healthier environment in the spring
- Pre-measured
- Easy to handle
- Cost effective

ORDER CODE: SPCQT-PG19



Koi Kastle

- Koi hide inside
- Protects koi from predators
- Sits on the bottom of the pond
- Aluminum frame and fiberglass mesh
- Provides much needed shade on sunny days

ORDER CODE:

KK-01-PG219 ~ 9" x 18"

KK-02-PG19 ~ 12" x 24"



Koi Kastle

- Molded black plastic
- Resembles a rock
- Koi hide inside
- Protects koi from predators
- Sits on the bottom of the pond
- Provides much needed shade on sunny days

ORDER CODE:

KK-03-PG19 ~ 21.5"L x 12"W x 9"H

