

Tetra Pond

ClearChoice® BioFilter PF- 1



Mfg# 16783

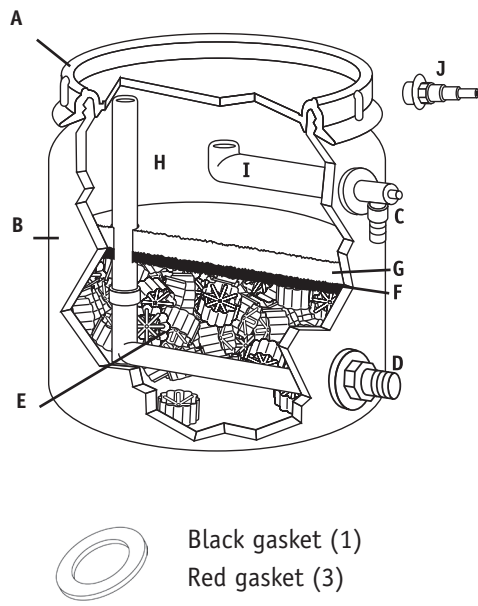
Recommended Pumps:
TetraPond Water Garden Pump 325 GPH
TetraPond Water Garden Pump 550 GPH

Do not use pumps with flows that exceed 550 gal/hr unless a flow control valve is used.

SAVE THESE INSTRUCTIONS

Bio-Filter Parts list:

- A. Screw lid
- B. Filter body
- C. Water inlet with Venturi system
Fits 3/4 inch & 1 in. ID tubing
- D. Water outlet (Fits 1 1/4 in. ID tubing)
- E. Biological filter media (plastic balls)
- F. Fine filter pad
- G. Coarse filter pad
- H. Overflow system
- I. Spray bar system
- J. Universal inlet
(Fits 1/2 in., 3/4 in., or 1 in. tubing)



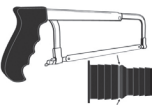
TIP: Choose the largest diameter hose your pump will allow for maximum flow. Be sure you have attached the large 1 1/4 in. fitting on the bottom outlet (as shown in diagram 1).

Cutting the universal outlet:

For 1/2 in. tubing, slip on the end.

For 3/4 in. tubing, cut off the small barb.

For 1 in. tubing, cut off the small and mid-size barb.



Assemble the inlet and spray bar as illustrated ensuring the rubber gaskets are laced on each side of the filter casing and the screw fittings are hand tight.

Diagram 5

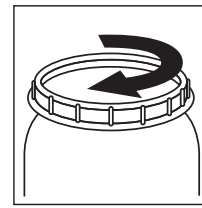


Diagram 5

5. Secure the lid.

Instruction for use:

The TetraPond PF-1 filter is suitable for ponds up to 1200 gallons with average stock fish.

How the TetraPond BioFilter PF-1 works:

STAGE 1

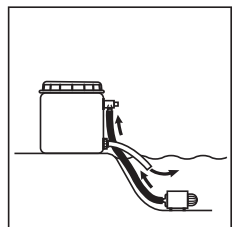
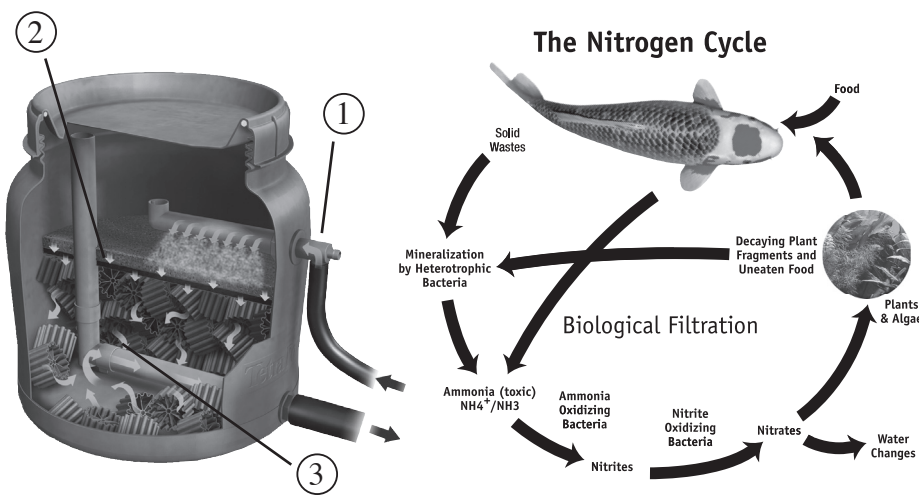
Pond water is pumped into the filter. It passes through the foam, which sieves coarse suspended debris from the water (Mechanical Filtration).

STAGE 2

The water from stage 1 then passes through the finer foam, which provides further filtration.

STAGE 3

The final purification process of the water occurs on the surface of the biological filtration media. Beneficial bacteria will naturally colonize on this massive surface area and convert the harmful pollutants in the water into relatively harmless nitrates, which are absorbed by the aquatic plants from partial water changes, thus removing about 25% of the pond water with fresh water.



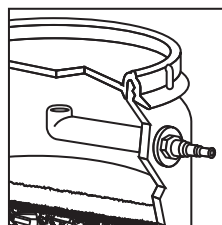
The Tetra Venturi and Trickle-Flow System

The water inlet into your filter is fitted with an advanced Venturi system, which draws air into the in-flowing water, creating the beneficial bacteria with the ideal conditions to decompose waste. This, when combined with the use of "Trickle Filtration" encourages the prolific growth of beneficial bacteria, which helps to keep the pond free of pollutants.

Universal Inlet: If you find that the water flow from the pump is too much for the Venturi inlet, or it clogs too easily, you may replace it with the universal inlet fitting for higher flows.

Pond Filters and Green Water Problems

Green water is caused by tiny single-celled algae. The foam in pond filters alone will not remove live algae, since they easily pass through. We recommend the addition of the TetraPond UV Clarifier to destroy the algae. The algae will die, clump and then be removed by filtration. The UV Clarifier should be positioned between the pump and the filter. If you place it on the filter discharge, you run the risk of restricting to flow out of the filter, thus causing overflow.



Universal inlet fitting option

Assembly of Filter

Hose Clamps: For best results, secure all tubing connections with stainless steel hose clamps (found in plumbing department).

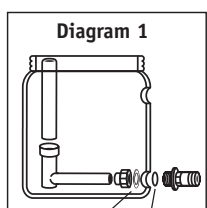


Diagram 1 Filter outlet connection

1. Assemble the 1 1/4 in. diameter overflow pipe as illustrated, ensuring the rubber gaskets are placed on the inside and the outside of the filter casing and the 1 1/4 in. screw fittings are hand tight.

Do not use the stepped universal fitting for the bottom outlet. It may cause your filter to overflow.

IMPORTANT: Use the black gasket to seal the outlet from the outside of filter and the red gasket to seal it from the inside.

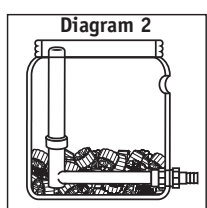


Diagram 2

2. Add the plastic biological media.

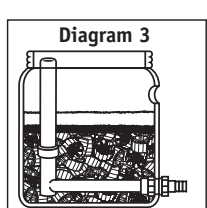


Diagram 3

3. Place the fine pad (grey filter pad) inside first and then the coarse pad (blue filter pad).

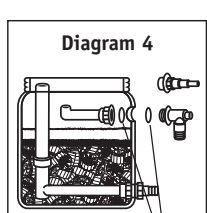


Diagram 4

4. Determine the diameter hose that will run from the UV or pump into the filter (either 1/2 in., 3/4 in. or 1 in. ID). Select the Venturi or universal inlet fitting. If you find the water flow from the pump is too much for the Venturi inlet, or it clogs too easily, you may replace it with the universal inlet fitting for higher flows. If using the universal fitting (instead of the Venturi), you may use 1/2 in., 3/4 in. or 1 in.

Positioning your Bio-Filter

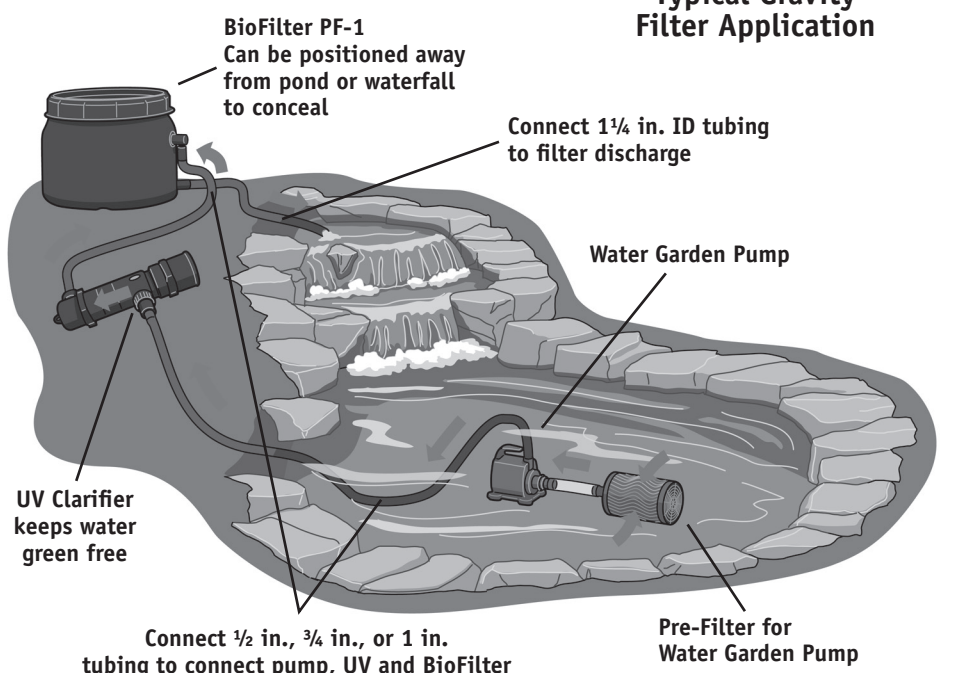
Your filter can be also used to provide water to your waterfall or stream.

Ensure the bottom of the filter is above the level of the top of waterfall, since gravity causes the water to flow out and down.

You may place the filter far away from the top of the pond or waterfall if you choose. This helps prevent the filter from ruining the appearance of your pond or waterfall. A good place is up on a hill so water can flow downhill into waterfall or pond. The filter can be hidden behind bushes and other plants or rocks.

Hose Clamps: For best results secure all tubing connections with stainless steel hose clamps (found in plumbing department).

Typical Gravity Filter Application



Attaching Tubing to Discharge Outlet Fitting

Simply attach 1 1/4 in. ID flexible tubing to the discharge outlet fitting (bottom of filter) and use any length required. Never restrict the outflow by using a smaller diameter tube or attaching a UV clarifier to the discharge.

Attaching Tubing from Pump to Inlet Fitting.

Using either 1/2 in., 3/4 in., or 1 in. tubing, connect pump (optional UV) and inlet fitting.

TIP: Choose the largest diameter hose your pump allows for maximum flow.

"Maturation" of your filter

A biological filter must undergo a period of "maturation" before it is fully efficient. During this period of time, beneficial bacteria grow and colonize on the biological filter media until the population is large enough to purify the waste in the water. The initial maturation of the filter takes approximately 4 to 6 weeks (after spring has arrived). To avoid dangerous levels of pollutants during this time, gradually introduce your pond fish and take great care not to overfeed them, especially before the filter has matured. Run the bio-filter 24 hours a day.

Maintenance and Care of the Bio-Filter

Cleaning

Debris will collect on the foam pads. These should be checked and cleaned on a regular basis. Remove the filter pads and clean in a bucket of pond water. Do not use untreated tap water for cleaning, since it contains chlorine that can destroy the beneficial bacteria colonies in the foam and biological plastic media.

The period between each cleaning is dependent on many factors such as the number of fish in the pond, algae growth, and the size of the pond. A rule of thumb is about every two weeks.

Should debris and sludge accumulate at the bottom of casing, this media can be gently rinsed with pond water only. Do not use untreated tap water. It is not necessary or advisable to thoroughly clean the media since that may diminish the beneficial bacteria.

Also, check the spray bar to ensure the holes are not clogged.

Never use soap or detergents to clean any parts of the filter.

Winter Care

During the winter, the fish in the pond go through a period of rest where they become very inactive and waste production becomes very low. At this time, the filter should be turned off, cleaned, and stored indoors until the following spring. Never leave water in the casing when there is a chance of freezing temperatures.

When starting the filter again in the spring, it will go through the same maturation process as the first year. Be sure not to overfeed your fish in the early spring.

Replacement Parts

Replacement pad set available through your retailer

ClearChoice Replacement filter pad item # 16785

For other parts, please contact our specialists at Tetra Customer Care.



Please visit us at www.tetrapond.com!

WARRANTY CARD

Thank you for purchasing TetraPond ClearChoice® BioFilter PF-1. Please fill out this card and mail it to the address below **OR** complete an **e-registration** form by logging on to www.tetrawarranty.com to validate your warranty.

Name of purchaser: _____

Address: _____

City _____ ST _____ Zip code: _____

E-mail Address: _____

Date of purchase: _____

TetraPond respects your rights for privacy. Any and all personal information collected here will be kept strictly confidential and will not be sold, reused, rented, or otherwise disclosed.

Electronic Newsletter

Yes, I would like to receive free e-mail updates on water gardening, including tips, new products, and or other helpful information.

No, I would not like to receive any e-mail updates at this time.



Warranty

Tetra warrants the product listed below will be repaired or replaced free of charge for three years from the date of purchase if it fails to work because of defective material or workmanship (proof of date of purchase must be provided).

ClearChoice® Bio-Filter PF-1 3 years

This warranty is subject to the following terms:

1. Should it be necessary to return the product during the warranty period, return the product directly to Tetra Consumer Services, 3001 Commerce Street, Blacksburg Virginia 24060-6671.
2. Tetra's decision on all questions relating to alleged defects and repair shall be conclusive.
3. This warranty does not invalidate your statutory rights, but preserves your full benefits.
4. Repair parts or replacement product will be given on an exchange basis and will either be new, equivalent to new, or reconditioned. All customer returned parts or products that we replace become the property of Tetra.
5. The warranty does not cover normal wear and tear, nor any deterioration suffered through overloading, improper use, negligence or accident. It does not cover foam media that can wear out and be replaced with purchased replacement foam. The warranty does not cover damage from freezing water. Similarly, any modification made by the purchaser to the appliance will invalidate the warranty.
6. Except as set forth in the Warranty, Tetra expressly disclaims any and all liability for any loss or damage whatsoever sustained by the purchaser to the fullest extent permitted by applicable law.



Questions? Problems? Missing Parts?

Before returning the product, please call our Customer Care department at **800-526-0650**, Monday-Friday 7:30 a.m. to 5:30 p.m., Eastern USA Time. or email us at consumer@tetra-fish.com

Our Customer Care Department is here to provide assistance to help you solve your problem.

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