Bio-Filter Parts List:

- A. Screw lid
- B. Filter media
- C. Water inlet with Venturi system (this is #1 & #2 in diagram)
- D. Water outlet (this is #3 & #4 in diagram)
- E. Biological filter media (plastic balls)
- F. Fine filter pad
- G. Coarse filter pad
- H. Overflow system
- J. Spray bar assembly
- K. Universal inlet (this is #5, #6, or #7 in diagram)
- L. Biological filter media
- M. Replacement parts available through your retailer
- N. Replacement pads available through your retailer

Installation Directions:

- **STAGE 1**
  - Pond water is piped into the filter. It passes through the foam, which removes suspended debris from the water (Mechanical Filtration).
  - The water then flows into the filter housing and then into the biological filter media (plastic balls) through the fine filter pad.

- **STAGE 2**
  - The final purification process of the water occurs on the surface of the biological filter media. Beneficial bacteria will naturally colonize on the biological filter media until the water in the pond is filtered.
  - The water from stage 1 then passes through the finer foam, which provides further filtration.

- **STAGE 3**
  - The water from stage 2 then passes through the final foam, which provides additional filtration.

**Pond Filters and Green Water Problems**

Green water is caused by tiny single-celled algae. The foam in pond filters alone will not cure these algae for long, since they are too small to pass. We recommend the addition of the TetraPond UV Clarifier to destroy the algae. The algae can be killed and then removed by filtration. The UV Clarifier should be positioned at the end of the filter system.

**The TetraPond BioFilter PF-1 works:**

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

**Instruction for use:**

1. Assemble the 1¼ in. diameter overflow pipe as illustrated, ensuring the rubber gaskets and the screw fittings are hand tight.
2. For 1 in. tubing, cut off the small and mid-size barb.
3. For ¾ in. tubing, cut off the small barb.
4. Determine the diameter hose that will run from the UV to the filter discharge (bottom of filter).
5. Simply attach 1 ¼ 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 hose or attaching a UV clarifier to the discharge.
6. Choose the largest diameter hose your pump allows for maximum flow. Be sure you do not use a hose which will run dry or a UV clarifier to restrict the flow.
7. Choose the largest diameter hose your pump allows for maximum flow. Be sure you do not use a hose which will run dry or a UV clarifier to restrict the flow.
8. **“Maturation” of your filter**
   - A biological filter must undergo a period of “maturation” before it is fully operational. During this period, beneficial bacteria grow and colonize on the biological filter media until the pond is large enough to support the bacteria. 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.

**Assembly of Filter**

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

**Filter outlet connection**

1. Assemble the 1 in. diameter overflow pipe as illustrated, ensuring the rubber gaskets are placed on the outlet and the outside of the filter casing and the 1 ¼ in. screw fittings are hand tight.
2. Do not use the stepped universal fitting for the bottom outlet.
3. It may cause your filter to overflow.
4. Important: Be sure to filter the outlet from the outside of the filter and the red gasket to seal it from the inside.
5. **Positioning your Bio-Filter**
   - Your filter can be used to provide water to your waterfall or stream. Ensure the outlet of the filter is above the level of the surface of the waterfall, which allows for maximum filtration.
   - 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.
   - 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.
   - 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.

**Maintenance and Care of the Bio-Filter**

**Cleaning**

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

**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 pond 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. Do use salt to offset your fish in the early spring.

**Replacement Parts**

Replacement pad set available through your retailer.

ClearChoice® BioFilter PF-1

**Recommended Pumps:**

TetraPond Water Garden Pump 350 GPH
TetraPond Water Garden Pump 550 GPH

Mfg# 16783

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

SAVE THESE INSTRUCTIONS
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 other helpful information.
- No, I would not like to receive any e-mail updates at this time.

Please visit us at www.tetrapond.com!

Warranty Card

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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