

# Tetra Pond

## Water Garden Pumps, Filtration Fountain Kits Submersible Flat Box Filter



### Before you start:

Please visit [www.tetrapond.com](http://www.tetrapond.com) for more detailed installation instructions, time-saving tips, and inspirational ideas.

### SAVE THESE INSTRUCTIONS

## IMPORTANT SAFETY INSTRUCTIONS

**WARNING** – To guard against injury, basic safety precautions should be observed, including the following:

1. **Read and follow all safety instructions.**
2. **DANGER**— To avoid possible electric shock, special care should be taken since water is employed in the use of this equipment.
3. Do not operate any appliance if it has a damaged cord or plug, or if it is malfunctioning, or if it is dropped or damaged in any manner.
4. Always unplug an appliance from an outlet when not in use, before putting on or taking off parts, and before cleaning. Grasp the plug and pull to disconnect; never yank the plug.
5. Do not allow the pump to become iced up.
6. Do not expose the pump to direct sunlight for a long period of time.
7. Make sure the pump is securely installed and stable before operating it.
8. **CAUTION**— This pump has been evaluated for fresh water only.
9. Do not use in salt water or highly chlorinated water.
10. This pump must not be used in swimming pools or areas where people are in contact with the water.
11. Do not use an appliance for other than its intended use.
12. Read and observe all the important notices on the appliance.
13. Do not allow children to handle this equipment. This equipment should be kept away from children.

**WARNING:** This plug is supplied with a grounding conductor and grounding type attachment plug. To reduce the risk of electric shock, be certain that it is connected to a grounding type receptacle.

### Ground-Fault Circuit Interrupter Protection

To comply with the National Electrical Code (NFPA 70), and to provide additional protection from the risk of electric shock, this unit should only be connected to a receptacle that is protected by a ground-fault circuit interrupter (GFCI).

### Extension Cords

Use only extension cords that are intended for outdoor use. These extension cords are identified by a marking "Acceptable for use with outdoor appliances; store indoors while not in use". Use only extension cords having an electrical rating not less than the rating of the product. Do not use damaged extension cords; examine extension cords carefully before use and replace if damaged. Do not abuse extension cord and do not yank on any cord to disconnect. Keep cord away from heat and sharp edges. Always disconnect extension cords carefully; disconnect them from the receptacle before disconnecting the product from the extension cord.

### NEVER RUN THE PUMP UNLESS IT IS COMPLETELY SUBMERGED (UNDERWATER).

**WARNING—THIS PUMP IS FITTED WITH A THERMAL CUT-OFF DEVICE THAT TEMPORARILY SWITCHES OFF THE PUMP IN THE EVENT OF OVERHEATING. THE PUMP MAY START AUTOMATICALLY AFTER THE PUMP COOLS DOWN. Intended for outdoor use = CSA Enclosure 3**

### FK3 Filtration Fountain Kit with prefilter and 325 gph pump

**How it works:** (See Figure B)

The FK3 Filtration Fountain Kit provides filtration, aeration and circulation for small ponds under 100 gallons.

1. Water is drawn into the cylinder filter.
2. Water passes through the foam core removing particles.
3. Water is drawn into the pump.
4. Clean water is discharged into the pond through the fountain set.
5. The fountain provides beneficial aeration to the pond.

### Includes:

**Submersible Pump:** 325 gallon per hour @ 1 foot

**Pre-filter Includes:** Foam insert and threaded adapter

**Fountain Set:** (See figure E for details)

Figure B



Figure A

### Attaching tubing to pump outlet

Use the following method when only one water feature is being powered by pump.

1. For maximum flow attach the largest tubing fitting (included with the pump).  
Water Garden Pump 325 GPH 1/2 in. ID or 3/4 in. ID  
Water Garden Pump 550 GPH 3/4 in. ID or 1 in. ID  
Water Garden Pump 1000 GPH 1 in. ID  
Water Garden Pump 1900 GPH 1 1/4 in. ID
2. Loosely push hose clamp on tubing (clamp not included).
3. Push and twist tubing onto fitting.
4. For a more secure fit, use a stainless steel hose clamp.

### Using the Complete Fountain Set (CFS)

Use this method when operating fountain set and additional water feature or external filter from same pump. (See Figure E)

1. Thread the proper adapter (included with fountain set) into pump outlet.
2. Assemble diverter assembly into adapter.
3. Fountain Spray and hose use:
  - Fountain stems and spray head can be press-fit together for desired height.
  - 1/2 in. or 3/4 in. tubing can be attached to barbed fitting on diverter, or 1 in. tubing can be attached directly to the threaded diverter stem (horizontal outlet).
  - Secure tubing with hose clamp if needed.
4. Use flow control valve to regulate water between fountain spray and additional water feature.



### Reducing Pump Clogging

Ponds typically contain various amounts of debris, such as leaves, string algae, and other plant material that can clog the intake of water garden pumps and fountain heads.

TetraPond offers four different options to reduce pump clogging.

#### 1. Pump Cages

All TetraPond Water Garden Pumps come with a pump cage. These cages will screen out larger debris that can clog pumps. Should you find your pump cage or pump impeller clogs too quickly in your application, consider purchasing 1.) a Pump Pre-Filter, 2.) an In-Pond Skimmer or 3.) a Submersible Flat Box Filter.



#### 2. Pump Pre-Filter

This can be easily attached to the intake of any Water Garden Pump. It prevents debris from clogging the pump impeller, thus reducing pump clogging and maintenance. These pre-filters do not clean the pond and therefore should be used in conjunction with an external filter. Should the pre-filter clog too quickly, you may consider removing the foam and using the shell only.



#### 3. In-Pond Skimmer

Suitable for ponds up to 1,000 gallons. It is easy to install and can be used in pre-formed or flexible liner ponds. It prevents the pump from clogging as it collects debris in an internal basket and filters fine particles through a coarse pad. Both basket and pad can be easily accessed for a regular maintenance. (Used with pumps between 550 and 1900 gallons per hour)



#### 4. Submersible Flat Box Filter

This filter box can be easily attached to the intake of any TetraPond Water Garden Pump. The sponge filter pads are ideal for cleaning smaller ponds, and provide fine-particle filtration that prevents the clogging of the pump impeller and fountain spray heads.



### Interested in further reducing pump clogging?

Additional pre-filters can be easily attached to one another.

No fittings or tools needed.

Additional submersible filters can be added using T connectors and tubing (found in plumbing department)



### FK5 and FK6 Filtration Fountain Kits with prefilter and pump

**How it works:** (See Figure D)

The FK5 Filtration Fountain Kit provides filtration, aeration and circulation for ponds 50 to 250 gallons.

The FK6 is suitable for ponds 250 to 500 gallons.

1. Water is drawn into the flat box filter.
2. Water passes through a coarse and a fine foam pad removing particles.
3. Water is drawn into pump.
4. Filtered water is discharged into the pond through the fountain set.
5. The fountain provides beneficial aeration to the pond.

### Includes:

#### Submersible Pump:

FK5 - 325 gallon per hour @ 1 foot

FK6 - 550 gallon per hour @ 1 foot

#### Flat Box Filter:

Contains coarse foam pad and fine foam pad. (See Figure H for details)

#### Tubing and Fittings:

1 in. diameter hose and two hose fittings

**Fountain Set:** (See Figure E for details)

**Attaching the flat box filter:** (See Figure C)

Thread one of the adapters into filter.

Thread the other adapter into pump inlet.

Slide tubing onto the hose bars on the adapters.



Figure C



Figure D

### Using Complete Fountain Set

(supplied with FK3, FK5 and FK6 kits or sold separately)

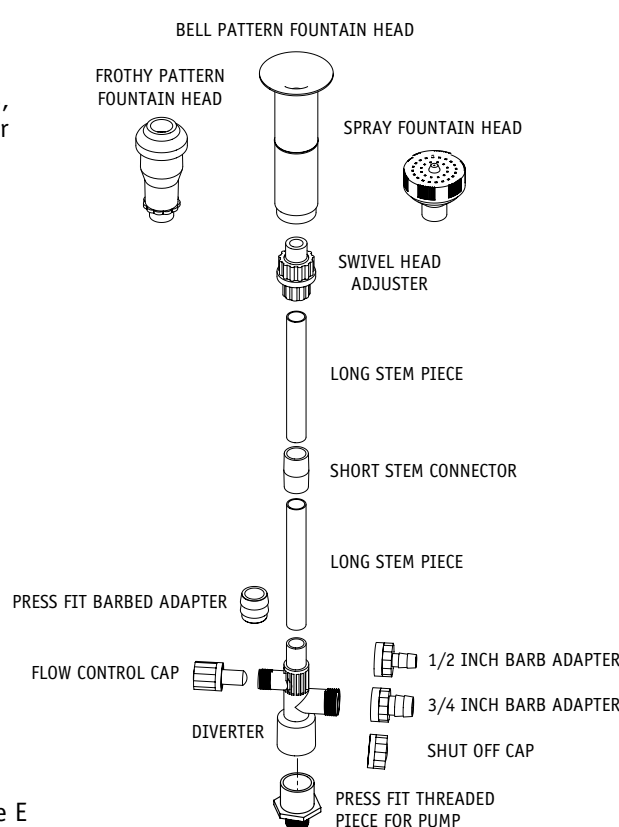


Figure E

Warranty information and mail in warranty card on reverse side.

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### Windy Condition Warning (See Figure D)

When using the fountain in very windy conditions, position the fountain away from the edge of the pond and decrease the flow. This will help prevent water from the spray from being blown out of the pond.

**Tip:** For smaller ponds, the frothy pattern may be the best choice, since it is not affected by the wind as much as the spray or bell pattern.

### Fountain Clogging

The first thing that is likely to clog in the system is the fountain head. The head can easily be removed and cleaned. The sponge filters in the FK3, FK5 and FK6 kits help prevent the fountain from clogging.

### Operating a fountain head and additional water feature from the same pump (See Figure F)

*Note: The pumps used in the FK3, FK5 and FK6 kits are powerful enough to run a fountain head and a small pond side statuary fountain "spitter".*

1. Assemble parts as shown in Figure E and thread into pump. Don't over tighten the threaded piece.

2. Attach proper hose fitting to the diverter stem.  
- 1/2 in. barb fitting  
- 3/4 in. barb fitting

Attach either 1/2 in. ID or 3/4 in. ID tubing onto fitting, secure with hose clamp if necessary.

*Note: If using 1 in. ID tubing, slide the tubing directly onto diverter stem. No hose barb fitting required.*

3. Attach other end of tubing to fountain statuary or to waterfall.  
4. Use flow control valve to regulate water between fountain spray and additional water feature.



Figure F

### Pond-Side Statuary Fountains – "Spitters"

- Attach using 1/2-inch or 3/4-inch ID tubing from pump outlet using enclosed hose barbs
- Or attach to diverter stem as shown in Figure F
- Secure hose to statuary stem with hose clamp

Figure G



### TROUBLESHOOTING

If the pump fails to operate, please check the following:

- If flow does not occur within seconds of plugging the pump in, unplug the electrical cord for several seconds and then plug back in. Repeat if necessary.
- Check the circuit breaker or try another electrical outlet to ensure the pump is getting power.

*NOTE: Always disconnect from electrical outlet before handling the pump.*

- Check the tubing for kinks and obstructions.
- Check cage, pre-filter or submersible filter for blockage. (Follow cleaning instructions.)

### NEVER RUN THE PUMP WITHOUT WATER

**WARNING – THE PUMP IS FITTED WITH A THERMAL CUT-OFF DEVICE THAT TEMPORARILY SWITCHES OFF THE PUMP IN THE EVENT OF OVERHEATING. THE PUMP MAY START AUTOMATICALLY AFTER THE PUMP COOLS DOWN.**

### Cleaning Fountain, Pump, Pre-Filter and Submersible Filter

**Tip:** Fountain heads tend to clog first. Remove and clean these first. This may solve the problem.

Should the pump flow visibly decrease, it is time to clean the fountain, pump and/or filters.

1. Unplug the pump from electrical outlet.
2. Detach the submersible flat box filter or pre-filter cylinder from the pump and remove. (Do not pull by electrical cord.)
3. Pre-filter cylinder: (FK3) Remove filter media from cylinder and flush with water to remove debris.
4. Submersible flat box filter: (FK5, FK6 and SF1) Remove lid and foam pads and flush with water to remove debris.

*Note: It is better to clean the foam pads in a bucket of pond water. Avoid using tap water, which contains chlorine that can kill beneficial bacteria that have colonized in the filter sponges.*

5. Cleaning the Pump: Remove the pump from the pond. Do not lift the pump using the electrical cord, since this can damage the pump.
  - Look into impeller cover to see if impeller is clogged.
  - Flush with fresh water. **Tip:** Use garden hose nozzle.
  - If still clogged, remove impeller cover, and carefully remove impeller assembly.
  - Flush impeller and impeller cavity with water.
  - Carefully reassemble the impeller and cover.

Figure J



### SF1 Submersible Flat Box Filter (See Figure H)

This filter is included with the FK5 and FK6 kits.

It is also sold separately and can be attached to many submersible pond pumps on the market ranging from 200 to 2000 gallons per hour.

#### Includes:

#### Flat Box Filter

**Filter Pads:** (Coarse and Fine Foam Pads)

**Tubing:** 12 in. x 1 in. ID

**Filter-to-Hose Fitting:** 1 in. thread with 1 in. hose barb

**Pump to Hose Fittings:** For connecting to pump inlet:

- 3/4 in. male thread with 1 in. hose barb
- 1 in. male thread with 1 in. hose barb
- 1-1/4 in. male thread with 1 in hose barb

Figure H



### Connecting to pumps

This filter can connect to many different pond pumps.

Use the fittings and tubing to connect the pump inlet to the filter, or slide the 1 in. ID tubing over the pump inlet.

*Note: There are many different pumps on the market with different size inlets. If these fittings do not attach to the pump inlet, you may try using standard plumbing fittings and tubing to create a connection.*

Figure I



Attaches to TetraPond Water Garden Pumps.

Remove pre-filter cage from pump, place inlet adapter and fit tubing onto pump inlet.

### Winter Care

If there is a danger of the water freezing, the equipment should be removed from the water, cleaned with water, and stored in a frost-free location for the duration of the winter.

If the pump is required to run throughout the winter, it is advisable to move it to shallower water (on a marginal shelf for example) to minimize disturbance to the fish resting in the warmer water, which collects at the bottom of the pond during the colder months.

### Adverse Effects of Chlorine

Water with a high concentration of chlorine may degrade the sponge pre-filters used with this submersible filter. Please avoid adding chlorine to self-contained fountains. Most tap water has a low concentration of chlorine and will not significantly degrade these sponges.

Chlorine should never be added to any water environment that contains plants or fish. Tap water should be treated with a water treatment to remove harmful chlorine and chloramines.

### Replacement Parts:

Replacement foam pads available through your retailer.

- For FK5, FK6 and SF1 Item #19015
- For FK3 pre-filter Item #19016

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

### Tetra Customer Care:

If you still experience difficulty, please call the Tetra Customer Care Department before returning the pump. Very often we can help you solve your problem.

### Warranty

**Tetra warranties the products listed below will be repaired or replaced free of charge for the specified number of 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)**

<b>Water Garden Pumps: 325 GPH, 550 GPH, 1000 GPH</b>	<b>3 Years</b>
<b>Water Garden Pumps: 1900GPH</b>	<b>5 Years</b>
<b>FK3, FK5 and FK6 Filtration Fountain Kits</b>	<b>3 Years</b>
<b>SF1 Submersible Flat Box Filter</b>	<b>1 Year</b>

This warranty is subject to the following terms:

1. Should it become necessary to return the product during the warranty period, send 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. Similarly, any modification made by the purchaser to the appliance will invalidate the warranty.
6. Except as set forth in this 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.

### WARRANTY CARD

Please fill out this card and mail it to the address below **OR** complete the e-registration form by logging on to [www.tetrawarranty.com](http://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.

Which product did you purchase?

- Water Garden Pump 325 GPH \_\_\_\_\_
- Water Garden Pump 550 GPH \_\_\_\_\_
- Water Garden Pump 1000 GPH \_\_\_\_\_
- Water Garden Pump 1900 GPH \_\_\_\_\_
- FK3 Filtration Fountain Kit \_\_\_\_\_
- FK5 Filtration Fountain Kit \_\_\_\_\_
- FK6 Filtration Fountain Kit \_\_\_\_\_
- SF1 Submersible Flat Box Filter \_\_\_\_\_

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.



### 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](mailto:consumer@tetra-fish.com).

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

Please visit us at [www.tetrapond.com!](http://www.tetrapond.com!)

