Tetra Pond

Filtration Fountain Kits
Submersible Flat Box Filter

SF1 #26592

FK3 #26594

FK5 #26593
FK6 #26597

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. These pumps 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.

Before you start:
Please visit **www.tetrapond.com** for more detailed installation instructions, time-saving tips, and inspirational ideas.

SAVE THESE INSTRUCTIONS

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)
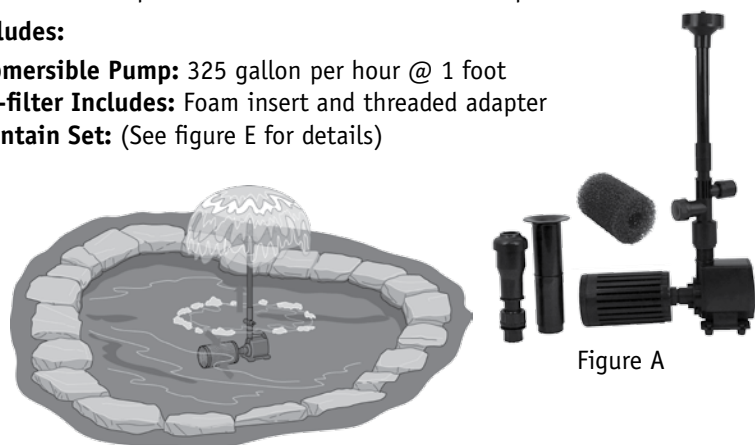
Figure A

Figure B

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 up 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.
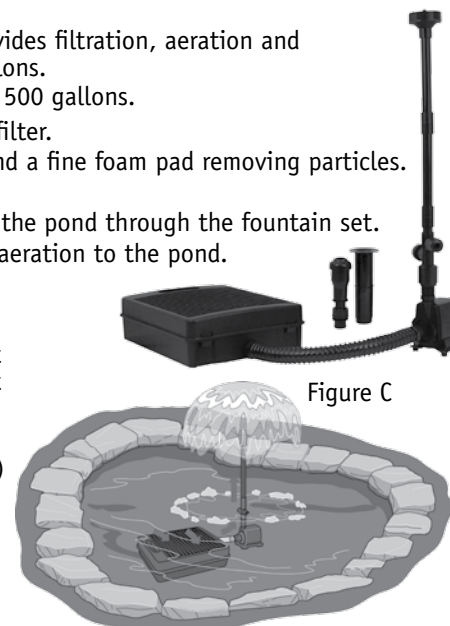Slide tubing onto the hose barbs on the adapters.

Figure C

Figure D
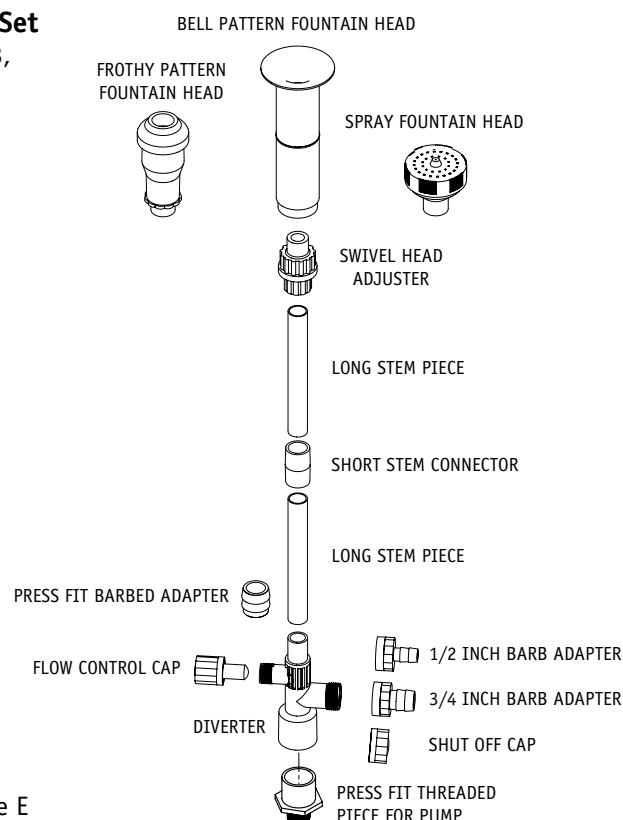
Using Fountain Set
(supplied with FK3, FK5 and FK6 kits)

BELL PATTERN FOUNTAIN HEAD

FROTHY PATTERN FOUNTAIN HEAD

SPRAY FOUNTAIN HEAD

SWIVEL HEAD ADJUSTER

LONG STEM PIECE

SHORT STEM CONNECTOR

LONG STEM PIECE

PRESS FIT BARBED ADAPTER

FLOW CONTROL CAP

1/2 INCH BARB ADAPTER

3/4 INCH BARB ADAPTER

DIVERTER

SHUT OFF CAP

PRESS FIT THREADED PIECE FOR PUMP

Figure E

Warranty information and mail in warranty card on reverse side.

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.
   - ½ in. barb fitting
   - ¾ in. barb fitting

   Attach either ½ in. ID or ¾ 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 ½-inch or ¾-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.)

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.

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.

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: 6 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:
   - ¾ 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 DynaMag Pumps.

Remove pre-filter cage from DynaMag pump and fit tubing directly onto pump inlet.

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.
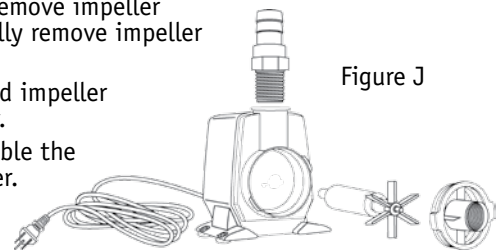   - Carefully reassemble the impeller and cover.

Figure J