

Instructions For The PF and PL Series Pond Filters

**READ CAREFULLY: INCORRECT INSTALLATION
WILL VOID YOUR WARRANTY**



PONDFILTRATION INC

2717 3rd Ave NW • Fargo, ND 58102
Fax (701) 365-4245 • 1-800-882-5327
www.PONDFILTRATION.COM

INSTALLATION

The system needs to run continuously 24 hours a day.

THE PF AND PL SERIES FILTERS WERE DESIGNED FOR WATER APPLICATIONS ONLY. CAUTION: PUMPS USED WITH THESE FILTERS SHOULD NOT EXCEED THE RECOMMENDED FLOW, 15 PSI, OR HAVE A LIFT CAPACITY GREATER THAN 25 FEET.

Follow these Installation Instructions and the “Factor Sheet” – your “No More Green Water” guarantee is based upon your reading and following these directions and facts. Please read the Guarantee. (see Page 12 of this booklet). Our technicians are available to assist you with answering any of your questions. Our free help line is available Monday through Friday 8:00 to 5:00 CST at 800-882-5327.

Incorrect installation will affect the water quality, warranty, or could damage the filter.

The PF AND PL Series Pond Filters are designed to utilize **direct drive pumps**. **Magnetic drive pumps are not recommended and may not have the torque (constant drive) to clear a pond.** The following is the recommended gallon per hour (GPH) flow rate for each filter:

PF 300 and PL 700 Filters	300 - 500 GPH
PF 1000 Filter	700 - 1200 GPH
PF 3000 Filter	1200 GPH
PL 1800, 2800, 4800 UV Filters	1200 GPH

For larger ponds (greater than 3,000 gallons) a larger pump is needed to re-circulate the pond once every 1 to 2 hours. Using a larger pump requires the use of a ‘T’ fitting and ball valve to regulate the flow (no more than 1200 GPH) to the filter. The remaining flow could be diverted to another filter or separate Ultraviolet system. If this second discharge is to be used for a waterfall, you will need the lift and length of tubing to figure the flow available (GPH) for the second system. This will determine if you have the recommended flow requirements for this second system. After the pump has been installed, do a flow check from one or more filters (see the Factor Sheet). The set up and installation for these ponds will be explained later in this booklet.

INSTRUCTIONS FOR INSTALLING THE PF AND PL SERIES FILTERS ARE AS FOLLOWS:

1) Mount Hose Fittings

IMPORTANT: USE THE SAME SIZE FITTINGS FOR THE INLET AND OUTLET OF YOUR FILTER. DO NOT USE RIGID PIPE OR ELBOWS.

Remove filter and fittings from the box. Use **two fittings of the same size diameter** for the **inlet** and **outlet**. The pump **discharge** fitting will adapt to either 1/2” 3/4” or 1 1/4” black tubing. These fittings need to match the tubing from the pump’s discharge fitting.

A) OUT OF POND - when the filter is placed outside of the pond or above the pond’s surface it is necessary to use hose clamps and Teflon tape. Our CL10 or CL30 **hose clamp kit** is available.

1) **Apply - 4 to 5 layers of Teflon tape to the fittings.** This is very **IMPORTANT** and will **prevent the fittings from leaking.** **DO NOT GLUE** - fittings can not be removed after gluing. **Caution: Do not force the tubing onto the fittings.** Using the tubing as a lever, using a jarring up and down motion, could crack the canister at the fittings opening. The use of galvanized or **PVC ridged pipe** should not be used to or from the filter.

2) **Place the filter in a shaded location.** The filter could be shaded with some sort of home-made cover or order our **Decorative Rock Covers**. If placed in the direct sun, the pond water will be heated through the filter. Solar heat will raise the water temperature above 78°, at these temperatures the biological activity is reduced.

B) IN POND OR SUBMERSED - placed below the water surface. **DO NOT SUBMERSE A PF SERIES FILTER THAT HAS A GAUGE OR ANY OF THE PL “PURE LITE” SERIES FILTERS.**

1) **Screw fittings in securely** - a crescent wrench can be used, but do not over tighten.

2) **Do not use hose clamps** for in pond installation. Air could be trapped inside the filter causing back pressure, and would result in reduced filtration capacity. Hose clamps will hinder the ease of cleaning the filter. We recommend plastic electrical ties that will hold the tubing securely, and allow for its easy removal.

3) Fit the tubing carefully over the fittings. **Caution: Do not force the tubing onto the fittings.** Using the tubing as a

lever or using a jarring up and down motion could crack the canister at the fittings opening. The use of galvanized or **PVC ridged pipe should not be used to or from the filter.**

REVIEW THESE IMPORTANT FACTORS - whether the filter is installed IN or OUT of the pond.

- A) Fittings used on the inlet and the outlet must be the same size.
- B) Tubing used from the pump to the filter and from the filter to an accessory discharge must all have the same opening or inside diameter.
- C) The accessories' output GPH (gallons per hour) must be the same as the pump's GPH. If the GPH is not the same, install a 'T' fitting parallel with the tubing after the filter and before the accessory. This will relieve any back pressure from flow restrictions. The accessory then would not affect filtration.

2) Pre-Rinse - each filter piece. This will remove dust and particles collected from shipping.

- A) **Remove the stainless steel clamp.** Open the filter by loosening the clamp nut just enough to unhook the 'T' bolt from the clamp. **Do not remove the 'T' bolt from the clamp.** Pull the clamp out and away from the top canisters flange. Let the clamp rest on the ground and lift off the top canister.
- B) **Remove the bagged filter media** and rinse the bags, there will be three filter bags for the PF3000, PL4800. Rinse in a bucket filled with water for **no more than 2-3 minutes.** This will remove the carbon dust. **The filter media will never be rinsed totally clear.**
- C) **Rinse the white collar and the two canister halves** with water.

NOTE: THE PF SERIES INSTALLATION CONTINUES ON PAGE 8, ITEM #3).

(Skip the following pages up to page 8 for the PF INSTALLATION only)

****THE FOLLOWING INSTRUCTIONS ARE FOR THE PL SERIES ONLY.****

INSTALLATION INSTRUCTIONS "PURE-LITE" FILTER SERIES W/ ULTRAVIOLET LAMP AND TRANSFORMER. "OUT OF POND" INSTALLATION ONLY!

CAUTION - Read carefully. This filter with the ultraviolet unit must be installed "OUT OF POND" and must be plugged into a G.F.I. receptacle. NO EXTENSION CORDS !! Exercise extreme caution when installing the UV system. Installation is a simple process, but if done incorrectly, could be quite costly to you.

PRECAUTIONS - Do not look directly at the UV bulb when the light is on. Considerable ultraviolet energy is emitted that may produce severe sunburn and/or conjunctivitis with exposure to direct or reflected light. As long as the lamp is in the filter housing it is 100% safe to humans and fish.

PACKAGING - Take your time in removing the items from the white packing tubes. Save the packing tubes for winter storage.

PREPARATION - The UV items will be assembled and installed into the bottom chamber of the filter canister.

- A) **Rinse filter** canister to remove dust. Refer to Item #2) above Pre-Rinse.
- B) **Remove the tray** (round molded plastic tray with perforated holes) from inside the bottom filter canister. To do this, put your finger into the center holes and pull up on the tray, or tip the canister over and carefully jar the tray loose.
- C) **Set out the parts** for the UV and place them on a flat table or surface. The parts included are as follows: **Refer to the identification drawings.**

- 1) Rubber "O" ring (already on the Glass Tube – Quartz sleeve). Drawing #1 and #2.
- 2) Glass Tube (will also be referred to as the Quartz sleeve). Drawing #1 and #2.
- 3) Threaded White Adapter fitting. . .this fitting has been installed onto the canister. Drawing #1 and #2.
- 4) Compression Fitting. Drawing # 2.
- 5) UV Lamp Bulb. Drawing #3
- 6) Transformer and Transformer box – transformer has been installed inside the box. Drawing #3.

ASSEMBLY

1) Refer to Drawing #1 - (B) Glass Tube and (C) Threaded Adapter Fitting

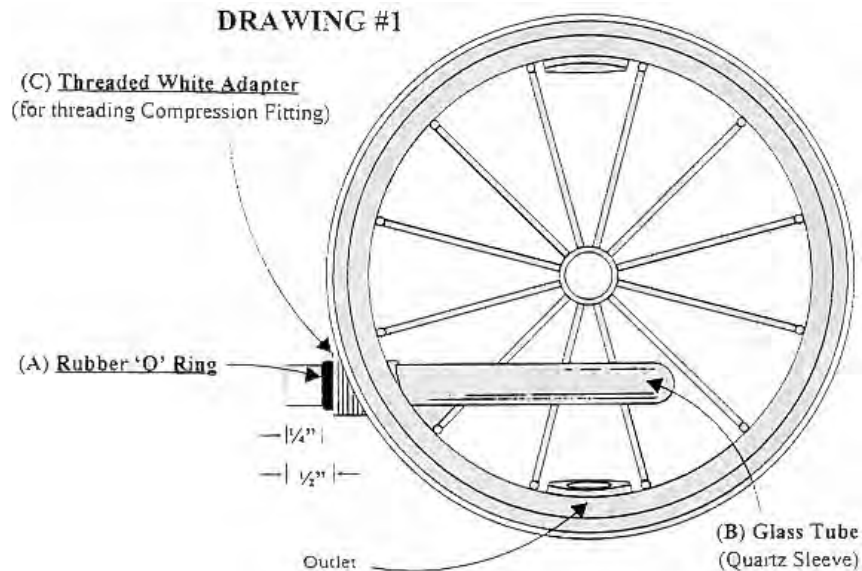
(a)

A) The **Rubber "O" ring** is already around the glass tube. Make sure it is $\frac{1}{4}$ " from the end of the glass tube.

B) With clean hands, **insert the glass tube from the outside of the filter into the treaded adapter fitting** glued to the canister. Push gently until the rubber "**O**" ring is **flush** with the end of the adapter.

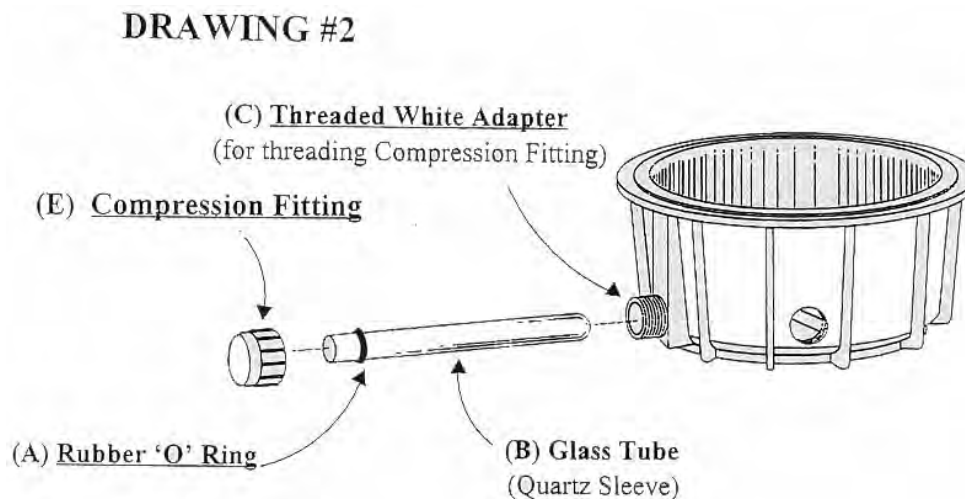
C) When installed correctly, the open end of the glass tube will be $\frac{1}{2}$ " from the end of the filter's threaded adapter fitting. (see drawing below)

INSTALL "OUT OF POND" ONLY



2) Refer to Drawing #2 – (E) Compression Fitting

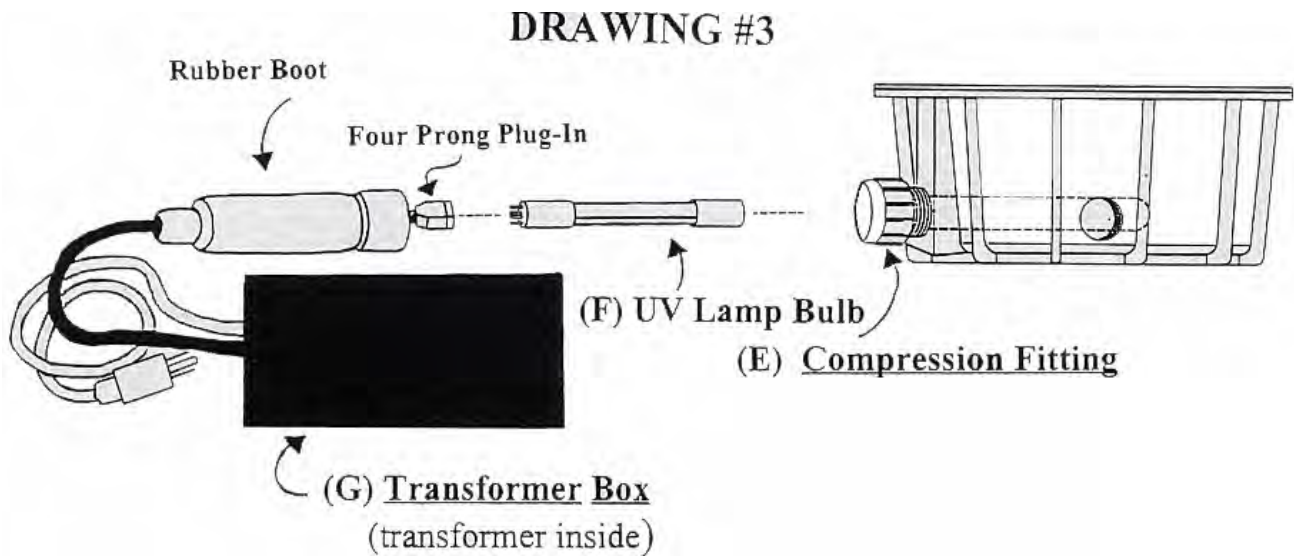
Hand tighten the Compression Fitting over the glass tube (quartz sleeve) and onto the filter's white adapter fitting. The glass tube is manufactured to tolerate extreme fluctuations of temperature. Make sure the **glass tube is not angled upward**. There should be clearance when the tray is replaced into the canister.



3) Refer to Drawing #3 (Below) – Plug (F) UV Bulb into the wiring from the (G) Transformer.

A) Install the UV Bulb into the Four Prong Plug-In. **Handle the Bulb carefully to prevent getting finger marks on it.** Hold onto the blue/white **ends only**. Alcohol may be used to wipe off any prints on the bulb.

B) While holding the UV bulb end, match the UV bulb four-prong plug-in to the four-prong plug-in from the cord to the transformer box. You may have to turn the bulb a ¼ turn to match the plug-in. To plug the bulb in, it is necessary to gently work the bulb's four-prong plug back and forth until it is flush with the plug-in from the transformer.



4) Refer to Drawing #3 (Above)– Adjusting the Rubber Boot for the UV Bulb spacing.

Install the bulb into the glass tube so that the **bulb is not pressed tightly against the end of the glass tube**. Use two hands, one to prevent the wiring and bulb from moving and the other to slide the rubber boot on the wire and over the compression fitting.

A) There **should be space inside between the UV Bulb** and the rounded end of the Glass Tube. If you don't have space, pull the wiring back and slide the rubber boot ahead on the wire.

B) To obtain the best performance from the bulb . . . from inside the canister, you **should be able to see both the blue/white ends inside the glass tube**. **Never use the rubber boot or the compression fitting as a handle** when lifting or cleaning the filter. Now that the spacing of the bulb in the tube is correct, carefully remove the rubber boot, wiring, and the bulb for the time being until the testing is completed.

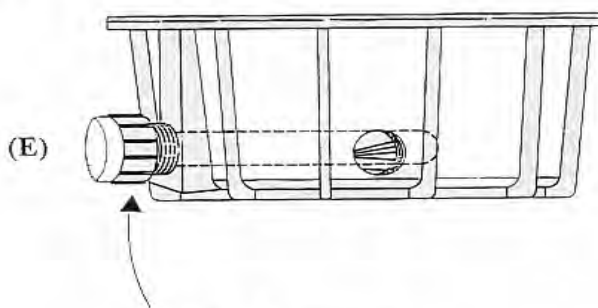
5) Refer to Drawing #4 (Below)– Testing and checking for leakage. Make sure entire unit is sealed, before re-adding the bulb set-up.

When the Rubber “O” ring, the Glass Tube, and Compression Fitting have been correctly and securely installed, the entire unit should now be sealed.

IMPORTANT - Carefully re-insert the bottom round plastic filter tray, **make sure the finger holes for the tray are not directly over the glass tube.** It is best to have the **finger holes parallel to the glass tube.**

Next . . . make sure the O-ring and the glass tube do not leak. Assemble the filter as directed in the filter install. (see Page 8 section titled “Continued Instructions). Connect the tubing, turn on the pump for about 10-20 minutes, and check for leakage. The filter should not leak from inside the compression fitting. To check, look inside the compression fitting or tilt the filter . . .the gap inside the fitting and **the outside of the glass tube should be perfectly dry.** If there is some leakage, turn off the pump and tighten the Compression Fitting a little more. Start up the pump and circulate the pond water through the filter again for about 10-20 minutes. **If the glass tube stays completely dry, you may now install the bulb and wiring (as in Drawing #3).** Push the pre-measured rubber boot over and onto the compression fitting.

DRAWING #4



A, B, E. Installed
(Unit would be sealed at this point
without bulb or transformer)

INSTALLING THE TRANSFORMER

Mount the black Transformer Box vertically, close to the top of the post for your **G.F.I.** outlet. **Plug the UV system into the G.F.I. outlet.** If this is not possible, although the transformer itself is protected, the box should be elevated 12” off the ground in a vertical position. The transformer will generate some heat. Keep the box as cool as possible, do not place it in the direct sun in extremely hot temperature climates. The ultraviolet bulb should run continuously, 24 hours a day. Unplug the UV bulb when cleaning the filter, replacing the UV bulb, or shutting down the pond for a long period of time.

MAINTENANCE

Once or twice a year clean the Glass Tube (quartz sleeve) with lime-away to remove any mineral deposits.

MEDICATION USE

When using medications in the pond, read their instructions carefully. Unplug the UV, as the radiation may affect the medication treatment.

PRECAUTIONS

DO NOT LOOK DIRECTLY AT THE UV BULB IN THE GLASS TUBE. Considerable ultraviolet energy is emitted that may produce severe sunburn and/or conjunctivitis with exposure to direct or reflected light.

“TROUBLESHOOTING”: Detecting signs for Pre-Mature Bulb Failure

- 1) Bulb has stains near the ends:** This is normal. As long as the majority of the bulb is clear and the bulb lights, it will operate normally. The stains are residues from the electrodes, which slowly wear out.
- 2) Bulb fails to light, and has large, black stains near both ends:** This may occur at end of life, in which case the bulb should be replaced. If it occurs prematurely then it indicates the bulb has been cycled off and on an excessive number of times.
- 3) Bulb has large, black stains near one end:** This may occur at end of life, in which case the lamp should be replaced. If it occurs prematurely then it indicates that the lamp is defective, and should be replaced.
- 4) Bulb has turned gray or yellow:** This is normal for an end of life lamp. A dark gray or yellow lamp emits less UV light than a normal bulb, and should be replaced. If the bulb is not near end of life it indicates that the bulb is operating in an environment that is too cold. In this case the bulb should be replaced, and the system modified to keep the lamp warmer.

WARRANTY-The return of used or defective goods **must be pre-approved by a staff person** at PFI, Inc.

PONDFiltration will warranty the transformer for two years and the UV bulb for one year from the date of purchase. PFI will replace the warranty item at our expense with the shipping charges being the customer's responsibility. To receive this warranty exchange, the transformer or the bulb will need to be **returned to PONDFiltration and must be shipped at customer expense.**

This warranty covers only properly installed and maintained units. **The warranty does not cover transformers or bulbs that have sustained water damage due to improper installation.**

If the **“PURE-LITE”** Filter Series was not purchased directly from **PONDFiltration**, return the transformer or the UV bulb, **with proof of purchase**, freight prepaid, to our warehouse.

If you have any further technical questions relating to the ultraviolet system, you may contact PFI at 1-800-882-5327 Monday through Friday between 8am-5pm CST.

INSTRUCTIONS CONTINUE FOR THE PF AND PL ON THE NEXT PAGE.

CONTINUED INSTRUCTIONS FOR BOTH THE PF AND PL SERIES FILTERS ARE AS FOLLOWS:

3) Gauge Installation For All Filters (EXCEPT THE PF 300 & PL700)

- A) Use the **Teflon tape** from the CL10, or CL30 to tape the gauge and fitting. Apply three to four layers of tape to both in a counter-clockwise direction of the threads. **DO NOT allow tape to interfere** with the bottom opening of the gauge.
- B) **Tighten Fittings.** Use a crescent wrench to hold the 3/4" fitting. Insert the gauge into the 1/4" hole of the fitting using your hand to tighten until snug. **Do not** try to install the gauge merely by hand, as the twisting force could damage the gauge base. To complete the seal, use an open-end wrench to securely tighten the gauge into the fitting. The gauge with fitting can now be installed into the top canister directly across from the filter's 1" inlet.
- C) **Installing The Filter Into The Pond.** If the filter is to be installed in the pond the gauge can not be used. In this instance a 3/4" plug has been provided to plug the gauge opening. Teflon tape the 3/4" plug and install with a crescent wrench.

4) Re-assemble

A) Choose bottom canister.

- 1) With the **(PF 300, PF 1000, PL 1800 and PL 2800)** insert the plastic collar first then the rinsed filter media bag.
- 2) The PF 3000 and the PL 4800 both have **three filter media bags**. Place two filter bags in first, then the plastic collar, then the third filter bag.
- 3) When placing the rinsed media bags back into any one of the filters, gently tap the bagged media along the sides of the collar or the filter's inner wall. This will prevent water from bypassing the media, enhancing filtration.
- 4) Place the 'O-Ring' into the groove of this canister. **(If the 'O-Ring' is exposed to the sun for an extended period of time, shrinking will occur.)**

B) Top canister - Place the top canister so that the inlet fitting from the pump's discharge tubing is where you want it.

- 1) If the 'O-Ring' is in place, the chambers should fit together easily.
- 2) Place the stainless steel clamp over the flanges of the chambers. With equal spacing all around the lip, place the stainless steel clamp over the flanges of the chambers. Tighten the adjustment nut until it squeaks to compress the 'O-Ring'. Tap around the clamp with any type of tool (screw driver or hammer handle), so that it is compressing the 'O-Ring' evenly all the way around the canister and re-tighten the adjustment nut again. This has to be tight to seal the filter.

5) Filter Placement — Select a site in the pond or **out of pond (not exposed to direct sunlight)** where the filter will be easily accessible for cleaning. (All of the **PL series filters MUST be INSTALLED OUT OF THE POND.**)

FOUNTAIN HEADS: A few accessories can be hooked up to the filter, if they have an **output (GPH) the same as the water pump**. Capacity of filtration will be affected by the **water flow**. If the fountain's output (150 GPH generally) is **less than** the **GPH) output of the pump**, then a 'T' connector must be installed parallel with the tubing as explained in the set-up diagrams for in/out pond installations. The secondary discharge from the 'T' connector can be used to aerate the pond or to re-circulate the pond water. (see diagram Example B).

WATERFALL CONNECTIONS:

A) Out Of Pond Installation For Waterfalls.

- 1) Fittings and flexible tubing should have the same size inside diameter.
- 2) Wrap 3-4 layers of **Teflon tape** to the threads of the fittings.
- 3) Use hose clamps to secure the tubing to the fittings of the filter.
- 4) Place your filter **in or level with** the waterfall when the lift is **greater than 5 feet** in height. (see diagram Example A)
- 5) The tubing from your **pump's discharge** is connected to the top fitting of the filter.
- 6) The **bottom fitting** is used for your **filter's discharge**, supplying the waterfall. This tubing can not be collapsed or crimped.

B) **In Pond Submerge Below Water Surface.** (PF 300 and the PF 1000 without a gauge are the only filters that can be submersed)

- 1) Fittings and flexible tubing should have the same size inside diameter.
- 2) Do not install hose clamps to the tubing - this will affect the ease of cleaning.
- 3) The tubing from the **pump's discharge** is connected to the **top fitting** of the filter.
- 4) The **bottom fitting** will use the discharge tubing that **feeds your waterfall**. Make sure this tubing is not collapsed or crimped.

SET-UP COMBINATIONS

(For installing one or more of The PF Series filters In the Pond or the appropriate PF & PL Series Filters Out Of Pond)

ITEMS REQUIRED: You will need the **necessary flexible tubing** to install all of the Pond Series filters. For **out of pond** installs you will need (2) **hose clamps** and **Teflon tape** for the supplied fittings. **CL10** for (1/2") tubing for the PF 300; **CL30** for (3/4" or 1 1/4") tubing for the remaining filters, the PF 1000, PL 2800 and PL 4800.

RECOMMENDATIONS:

A) Installing "Out Of Pond"

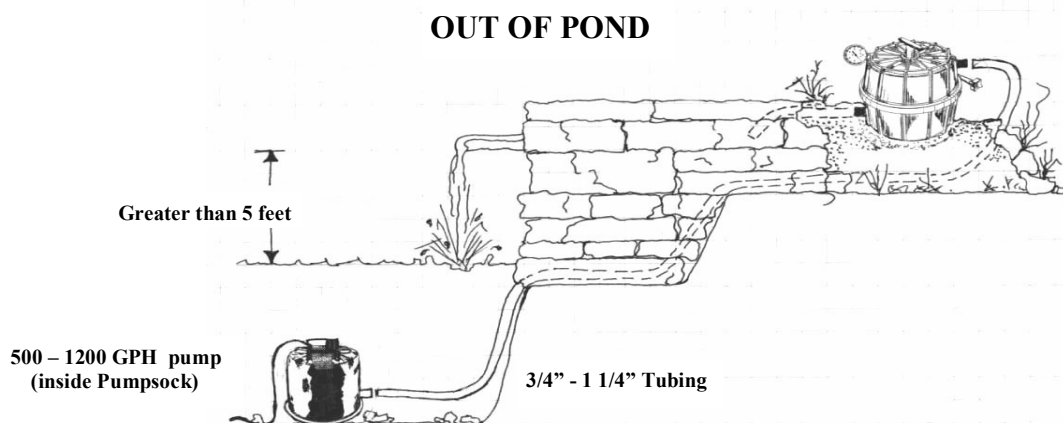
- 1) Wrap 4-5 layers of Teflon tape to the threads of the fittings selected. (**DO NOT GLUE fittings.**)
- 2) Choose a **shaded location** for filter placement. A cover could be used over the filter. (see our **Decorative Rock Covers**)
- 3) Hose clamps (2) should be installed to secure tubing to the fittings.
- 4) The **pump's discharge** will connect to the **top fitting** of the filter and the **bottom fitting** of the filter will **supply a waterfall**.
- 5) When pump is turned on, the filter will fill from bottom to top.

B) Submerge Filter "In The Pond"

- 1) While supporting the filter, set it in the pond allowing the water gradually to fill the filter from the bottom up. (**Do not fill it up by hooking up the tubing and pumping water into it.**)
- 2) When the filter sinks to the bottom of the pond, tilt it slightly to allow the remaining air to escape from the top fitting.
- 3) Select a site for the filter which will allow easy access for cleaning.
- 4) Hook up your tubing. (**Never try to connect tubing out of the pond, as the air needs to escape before hooking it up.**)

Remember: When the filter is submersed, the **pump's discharge** will be connected to the **top fitting** of the filter and the **bottom fitting** of the filter will be connected to your **accessories or waterfall**. Water needs to flow from the top to bottom (For ease in cleaning **do not use hose clamps for filters submersed in pond.**)

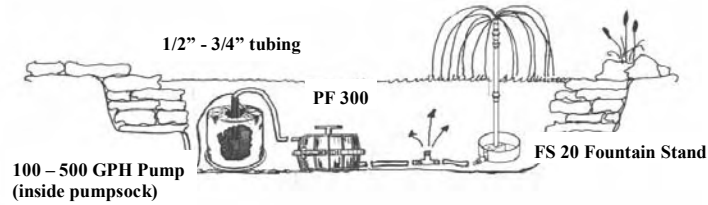
EXAMPLE A - Explanation: This diagram shows the filter installed out of pond supplying a waterfall of **greater than 5 feet in height**.



EXAMPLE B - Explanation: This diagram will be used when your pump output (GPH) is greater than (150 GPH) which is the maximum output for a fountain head. The filtration will not be compromised by flow, plus you can circulate the pond water with the same pump. When the filter is **submersed in the pond**, its **inlet** will be the **top fitting** and its **discharge** will be from the **bottom fitting**. All fittings, "T" connectors, and tubing need to have the same inside diameter. The inside diameter is determined by your pump's discharge inside diameter fitting.

IN POND

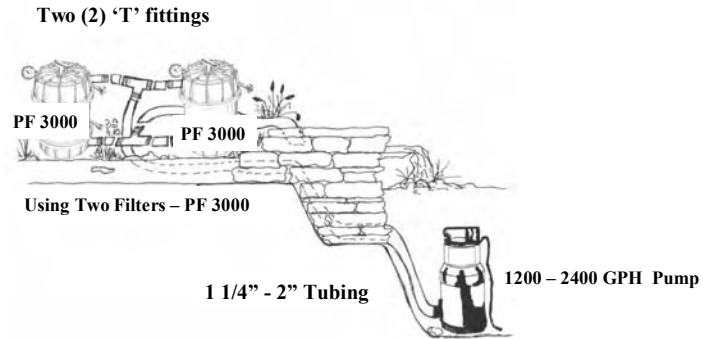
Example B



EXAMPLE C – Explanation: This diagram shows one or more filters being used with a pump output **greater** than 1200 GPH. **You must insert a "T" connector between the pump and one or more filters to divide your flow in half.** Two filters could be used when the pond's bio-load exceeds the capacity of one filter.

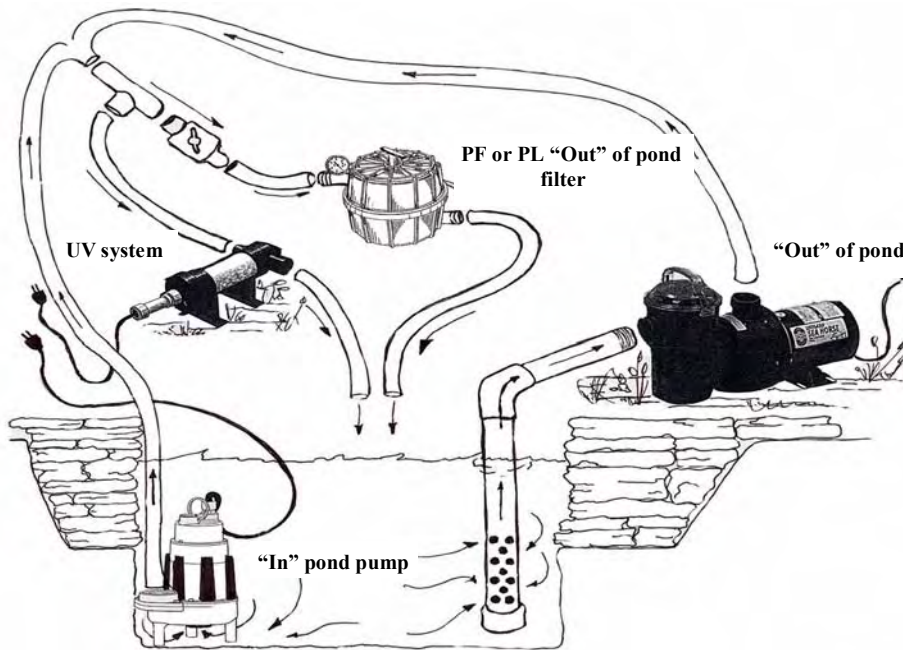
OUT OF POND

Example C



Example D – Explanation: Set-up for ponds greater than 3,000 gallons using a larger (either or) **"IN or "OUT"** of pond pump. Using a larger pump requires the use of a 'T' fitting and ball valve to regulate the flow (no more than 1200 GPH) to the filter. The remaining flow could be diverted to another filter or separate UV system. Do a flow check. (see FACTOR SHEET) Ideally the pond needs to re-circulate once every 1 to 2 hours.

Example D



Instructions For Cleaning The PF & PL Series Filters

- 1) Once the filter is installed and the pump is running, the gauge **should not register back pressure**. If it shows pressure, **the flow is being restricted**, and should be corrected immediately. The restrictions are always on the discharge side of the filter. (Examples: Length of tubing, lift to waterfall, 'T' fittings and elbows, or a fountain accessory.)
- 2) **Measure water flow to make sure it is the recommended GPH suggested for the filter.** Fill a 5 gallon bucket from the filter's discharge and time it in seconds. Circulation Formula: 60 seconds divided by (seconds to fill the 5 gallon bucket) x 5 gallons x 60 minutes = gallons per hour of actual water circulation through the filter.
- 3) Most submersible pump's output is between 8 and 10 lbs. of pressure. The filter should be cleaned when the gauge indicates pressure of 4 to 5 lbs.
- 4) **Pumps exceeding 15 P.S.I. should NOT BE used with the filters.** Magnetic pumps may not register any pressure, which means you will have to visually notice the 50% reduction of flow from the filter. This reduction will indicate that it is time to clean the filter.

WHEN TO CLEAN – Even if the pond water is absolutely CLEAR, it is necessary to CLEAN the filter. When the pressure gauge indicates back pressure of 4 to 5 lbs. or when water flow from the filter is reduced by 50%.

HOW TO CLEAN – UNPLUG THE PUMP. **IF YOU HAVE A PL SERIES FILTER UNPLUG THE UV.** If the pump has a pre-filter (foam pad) or a (screen) make sure it is clean allowing the **maximum flow from your pump to the PF or PL filter Series.** The **PS 5 and the PS 10 Pumpsocks are very easy to service and perfect products for protecting pumps.**

Cleaning Filter Bagged Media For Out Of Pond Installation:

- 1) **Remove the stainless steel clamp.** Open the filter by loosening the clamp nut just enough to unhook the 'T' bolt from the clamp. **Do not remove the 'T' bolt from the clamp.** Pull the clamp out and away from the top canisters flange. Let the clamp rest on the ground and remove the top canister.
- 2) Leave hose clamps connected to both fittings, setting top half of filter off to the side.
- 3) Lift out one or more filter media bags. The filter will be less effective biologically if cleaned aggressively. It is necessary, **for the first 6 weeks, to rinse the element in a 5 gallon bucket filled with pond water,** then discard the dirty water. This cleaning process will promote the biological charging of the filter bags. **After the 6 week period the bags can be gently rinsed with a hose.** Do not use a pressure nozzle on the hose. The filter bags need not be rinsed totally clear. Do not exchange one filter bag for another as the bacteria dies in a matter of hours. **CAREFUL: Aggressive rinsing will pull the filter bag out of the plastic lock ties.**
- 4) The **PF 3000 and the PL 4800** each have **3 filter bags.** The top bag will require weekly cleaning. The other two can be done periodically, but preferably not at the same time. If the pressure gauge shows pressure after the top bag has been rinsed then the other two should be cleaned.

****Once a year or in the Fall before putting your filter away, pull out the diffuser trays and clean with a brush to completely open up the holes that direct the flow.

Caution - Recommendations For Filter Media Bagged Element

When using medications, follow the manufacturers' recommendations to protect your filter's bagged media. This may mean the removal of the filter media bag for a short period of time. **DO NOT USE ANY FLOCCULENT OR CLARIFIERS WITH THIS FILTER.** Any product that describes binding up the particulate in suspension for mechanical filtration will fill the pores of the activated carbon in the bag. This will void your "No More Green Water" guarantee. Product labeling for bacteria sometimes use the word "clarifier" to describe the result of using this bacteria, which is OK.

Use some precautions if a salt solution is to be used while the filter is installed. The filter's bagged media contains some zeolite, which attracts ammonia. In a salt solution ammonia is released from the zeolite. If the element is not pre-rinsed the ammonia will be released in the pond causing stress to the fish.

If salt treatment is desired, remove filter element. In a 5 gallon bucket mix a higher concentration of salt than what you want to achieve in your pond. Soak the filter bag for 10-15 minutes in this bucket. Then rinse the filter bag thoroughly with clean water, and reinstall. Now salt may be mixed in a bucket of pond water and then added to the pond. Make sure the salt is totally dissolved in water before adding it to the pond. Pellets or crystals on the bottom of the pond will burn the fish. Option: Use a separate holding tank for salt baths for the treatment of fish.

When To Replace the Bagged Filter Element.....

For water clarity and quality, replace the PF & PL Series bagged media approximately every 12 months. These replacement media filter bags are available from your local water gardening supplier or by calling **1 800 882 5327.** **No substitutes should be used. Using another manufacturer's, or homemade bagged filter element will void the guarantee.**

LIFETIME CUSTOMER SATISFACTION GUARANTEE

TERMS AND CONDITIONS:

- 1. Follow the Installation Instructions and the Factor Sheet – this guarantee is based upon your reading and following these directions and facts.** Our technicians are available to assist you with answering any questions you have regarding any of this information. **Our free help line is available Mon. through Fri. 8:00 to 5:00 CST at (1-800-882-5327).**
- 2. To validate your purchase and guarantee** for the PF and PL Series Filters, **complete the Registration Card** and return it to **PONDFILTRATION, INC.** within 14 days of purchase.
- 3. This guarantee, is based upon the above conditions, and guarantees that if these directions are followed, your pond will have “No More Green Water”™.**
- 4. Your pond will clear within a four to six week period if the installation has been done correctly.** The filter media requires this period of time to be biologically activated. Test your pond twice a week for the first 4 to 6 weeks and record the date and results.
- 5. If after this period of time (four to six weeks) you should experience any difficulties with your pond not clearing, please contact our help line immediately.** Talk with a technician giving him the testing results you have taken, your pond size, the make and GPH of the pump you are using and the tubing size. The technician will need these questions answered to be able to help correct any possible problems with the installation.
- 6. If after speaking with a technician, you need to make some corrections or impliment a “solution”, the pond may take an additional four to six weeks to clear.** This time is necessary to give the filter the opportunity to be effective using the corrected measures.
- 7. If after speaking to one of our technicians, and after following our guidelines and specifications for a 12 week period, you are still dissatisfied with the performance of the PF or PL Series Filters you may return the filter to PONDfiltration, Inc. Product must be shipped freight prepaid.** The technician will give you his/her name and an authorization number. **Return the filter with the authorization number, proof of purchase or receipt (showing amount paid).** Your refund will be for PFI, INC. suggested retail price of the filter, excluding any costs for ancillary items, local tax, installation, or carriage.
- 8. To renew your LIFETIME GUARANTEE from year-to-year simply purchase a PONDFILTRATION, INC. replacement filter media bag once every 12 months, complete the Registration Card** included with your element, and mail to **PONDFILTRATION, INC.** Use of any other filter media or failure to mail in your replacement element Registration Card, will void your guarantee 12 months after the initial purchase.

Limited Warranty

REPLACEMENT: *All components are warranted to the user against defective materials and workmanship. Under normal use by the initial owner for the life of the product.*

APPLICATION: *This warranty covers only properly installed and maintained units. The warranty is limited to water (H2O) applications at normal temperatures and recommended pressures. Other liquid applications and extreme temperature uses must be approved in advance in writing by PONDFILTRATION, INC.*

FREIGHT: *Initial owners return products to PONDFILTRATION, INC. Return product and proof of purchase must be forwarded freight prepaid to our warehouse.*

DISPOSITION: *PONDFILTRATION, INC. will make good-faith effort for prompt disposition regarding any item in warranty which proves to be defective. If products were damaged in shipping, please file a claim with the carrier and notify PONDFILTRATION, INC. to call back the product and repair or replace it.*

DISCLAIMER: *Any oral statements about the product made by the seller, the manufacturer, the resenatives or any other parties, do not constitute warranties, shall not be relied upon by the user, and are not part of the contract for sale. Seller's and manufacturer's onlyobligation, and buyers only remedy, shall be hereplacement and/or repair by the manufacturer of the product as described above. Neither the seller nor the manufacturer shall be liable for any injury, loss or damage, direct, incidental or consequential (including, but not limited to, incidental or consequential damages for lost profits, lost sales, injury or inability to use the product, and the user agrees that no other remedy is available. Before using, the user shall determine the suitability of the product for their intended use, and the user assumes all risk and liability whatsoever in connection therewith. The other warranty or warranty or remedy, expressed or implied, which other warranties and remedies are hereby expressly excluded, including, but not limited to, any implied warranty of merchantability or fitness for a particular purpose. This warranty gives you specific legal rights. You also have implied warranty rights. In the event of a problem with warranty service or performance, you may be able to go to a small claims court, a state court or a federal district court.*

Phone: 800-882-5327
www.PONDFILTRATION.COM

Please staple your receipt here, in
the unlikely event it is needed.