

# SKID MOUNT POND FILTRATION SYSTEM



## Equipment Installation Operation • Safety • Warranty

This guide describes the basic procedures for operation and maintenance.

For specific equipment on the skid, please reference individual owners and operation manuals.

Service and maintenance on these systems is to be done ONLY by trained and experienced personnel.



### ELECTRICAL SAFETY

This water feature utilizes high voltage electrical equipment and is therefore potentially dangerous to operating and maintenance personnel if proper procedures are not followed.

Only persons qualified and authorized should be allowed to operate or maintain this electrical equipment. Failure to follow procedures can result in injury, fatal shock, or significant damage to equipment.



*\*Your system may vary*

**Your system may vary from image**

## READ THIS FIRST QUICK START PROCEDURES

GFCI breakers should be tested at regular intervals.

### EQUIPMENT INSTALLATION

The skid mount pond filtration system will need to have a level and stable area. A concrete pad or compacted area is recommended. Be sure to leave enough room around the pad for servicing the unit in the future.

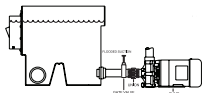
Skid mount system can be installed in flooded suction or in suction lift applications. For flooded suction applications check valves are highly recommended on the discharge/return side of the pumping system.

Connect and glue the plumbing from pond skimmer and/or bottom drains to the inlet of the pump. Connect and glue the plumbing on the return lines back to the pond.

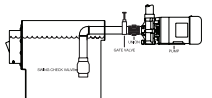
### **Tips for operating an external pump:**

Proper plumbing selection and set up is important when choosing to use an external pump. Below are some ways to set up an external pump with skimmer. There are limits to how high a pump can be placed in a suction lift set up. Each pump is different, but these general rules show how

an external pump can be used. There are two basic set ups with an external pump: *flooded suction* or *suction lift*.



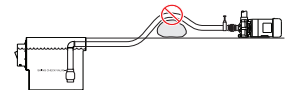
A *flooded suction* set up is where the pump is situated below the water level and water flows by gravity to pump.



A *suction lift* set up is where the pump is located above water level. "Suction lift" is a technical term for this set up, it does not mean the pump acts like a vacuum cleaner.



**Never create a high spot between pump and skimmer/pond, it will create an air lock in the line and your system will not work correctly. See your pump's manual for more information.**



### CHECK FOR LEAKS

Check to be sure that all union fittings are securely hand tightened. These are installed at the factory but could have come loose during transit or in process of installing unit. Also, be sure that the head of the filter is secured (see filter owner's manual for details).

Close all of the pumping equipment valves and fill the pond to the specified water level. Watch the water level. If it drops, find and fix the leaks.

Slowly open all valves on the pumping equipment that connect to the pond and fill (prime) the system.

Allow the level to stabilize and check for leaks on the pumping equipment (during shipment and installation, union connections can come loose).

If the pump is above water level and does not automatically fill the pump volute, remove the strainer basket cover and fill the pump with water.



**CRITICAL – DO NOT START THE PUMP DRY.**



**NEVER ADJUST FLOW USING THE VALVES ON THE SUCTION LINES – THIS WILL DAMAGE THE PUMP.**

Suction isolation valves should be fully open when the system is operating.

### START-UP

- Fill pond with water.
- Verify that all valves are completely OPEN except for the Bypass Valves. If not previously adjusted, these valves should be initially set at 50% OPEN. Adjust once running.
- Prime and start filter pump to verify that it is pumping water.
- Observe operation for at least ten minutes to verify proper operation.

### BACKWASH

1. Shut the pump off.
2. Rotate valve to “Backwash”
3. Turn pump on for 15 to 20 seconds.
4. Turn pump off. The main pump must not operate while blower is running.
5. Rotate the control head to “Rinse.”
6.
  - a. Close the lower gate valve on the Air Blower Assist assembly. (Keeps air from pushing back through pump)
  - b. Open the upper gate valve (right below blower)
7. Turn on Air Blower for 30-60 seconds. You should notice a bit of water discharging from the “Waste” line and hear the beads moving in the tank. While Air Blower is still running rotate handle to “Backwash” until no dirty water appears in the sight glass.
8. Turn Air Blower off.
9.
  - a. Close the upper gate valve (right below blower)
  - b. Open the lower gate valve on the blower assist assembly.

10. Rotate the control head to “Backwash”.
11. Turn pump on and backwash until clear water is visible (generally 30 to 90 seconds).
12. Turn pump off. (Repeating steps 4 through 12 can be done if it has been a long time between backwashing or in ponds with higher loads)
13. Turn handle to “Rinse”.
14. Turn pump on. This rinse helps keep waste from returning to the pond after the backwash cycle.
15. Turn pump off. Rotate handle back to “Filter” and restart pump for normal operation.

While every system is different, generally if the system is backwashed regularly (weekly in most cases, more frequently with higher fish loads) the Air Blower Assist system will only need to have steps repeated once or twice to adequately clean the filter. More cycles may be needed if the filter has not been backwashed regularly to loosen beads properly.

### WINTERIZATION

These steps are general for the skid mount pond system and do not speak to specifics of pond winterization.

Shut down the pump and close all isolation valves.

#### **Winterizing the EasyPro UV in cold weather climates:**

The UV must be shut down for the winter. Unplug unit, turn pump off and drain housing. Disconnect unit from your system and store inside. Store the lamp separately to avoid breakage.

Winterizing the EasyPro pressurized bead filter if the filter and pond are shut down for the winter months in freezing climates:

#### **Always turn off the pump before turning the valve handle!**



1. Turn off pump. (It is advisable to follow the “Backwashing” procedure before winterizing.)
2. After backwashing, drain filter tank by unscrewing drain cap. Take care not to unscrew entire assembly. Cap should remain off during winter.
3. Rotate control head handle to “WINTER.” This will allow water to drain from the valve. Leave valve in this position during the winter.

### GENERAL MAINTENANCE

For general maintenance of the equipment use the individual component owner’s manual. These are originally included with the system. Keep these for your records.

Individual owner’s manuals can be viewed or downloaded from our website: [www.easypro.com](http://www.easypro.com).

Part #	Maximum Pond Size	Filter Model	Pump Model	UV Model	Skid Size
<b>SMF1800</b>	1800 gallon system	PBF1800	EXP3700	EPU36N	33" x 33"
<b>SMF3600</b>	3600 gallon system	PBF3600	EXP4900	EPUV35	33" x 33"
<b>SMF6000</b>	6000 gallon system	PBF6000	EXP6800	EPUV55	33" x 33"
<b>SMF10000</b>	10000 gallon system	PBF10000	EXP7800	EPUV75	48" x 48"

## EasyPro Pond Products Limited Warranty

EasyPro Pond Products ("EasyPro") warrants to the purchaser that this product ("Product") will be free from any mechanical or material defects for a period of:

UV Clarifier EPU36N: **three years** from date of purchase. ***Excludes bulbs and sleeves.***

UV Clarifier EPUV35, EPUV55, EPUV75: **five years** from date of purchase. ***Excludes bulbs and sleeves.***

Bead Filter: **three years** from date of purchase

Blower Assist: extended from one year to **three years** when purchased as part of a skid system

External Pump: **three years** from date of purchase.

***Specifics of warranty coverage and exclusions are in the individual owner's manuals of the items. These will be used to govern warranty for each item with duration of time as expressed above.*** As a complete skid mount pond filtration system, the limited warranty on blower assist is extended for duration of time up to 3 years from date of purchase. This warranty only covers properly installed and maintained Products sold by authorized EasyPro Sellers who are subject to and follow EasyPro's quality control standards. Please note that because EasyPro is unable to control the quality of Products sold by unauthorized sellers, unless otherwise prohibited by law, this warranty does not cover Products purchased from unauthorized sellers.

This warranty does not cover normal wear and tear, nor any deterioration suffered through overloading, improper use, negligence, improper installation, acts of God or accident. Similarly, any modification made by the purchaser to the Product will cause the warranty to be null and void. This warranty does not cover any cost associated with the installation or removal of the Product subject to a warranty claim.

All returned items will be inspected to determine cause of failure before a warranty claim is approved.

The exclusive remedies provided hereunder shall, upon EasyPro's inspection and option, be either repair or replacement of the Product or parts covered under this warranty.

**Making a Claim:** A Return Authorization ("RA") number must first be obtained by calling EasyPro at 800-448-3873 or via email at [warranty@easypro.com](mailto:warranty@easypro.com). It is the purchaser's responsibility to pay the return shipping charges. Be sure to include the RA number, original receipt (in the form of an invoice or sales receipt), your name, your return address and your phone number inside of the package. No warranty claims will be honored without the original receipt that shows that your purchase was made from an Authorized EasyPro Seller. Ensure the product is properly packaged and insured for the replacement value. Damage due to improper packaging is the responsibility of the sender.

ALL OTHER EXPRESS OR IMPLIED WARRANTIES INCLUDING MERCHANTABILITY OF FITNESS FOR A PARTICULAR PURPOSE ARE HEREBY LIMITED IN DURATION TO THE DURATION OF THE WARRANTY AS DESCRIBED ABOVE. Some States do not allow limitations on how long an implied warranty lasts, so the above limitations may not apply to you.

EasyPro shall not be held liable for any damages caused by defective components or materials of this Product; or for loss incurred because of the interruption of service; or any consequential/incidental damages and expenses arising from the production, sale, use or misuse of this Product. Some States do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

EasyPro shall not be held liable for any loss of fish, plants or any other livestock as a result of any failure or defect of this Product. This warranty gives you specific legal rights, and you may also have other rights that vary from State to State.

