EPS1300 • EPS2500 • EPS3700 • EPS4900 • EPS4900VF

Eco-Clear Submersible Pond Pump

Instructions for Operation • Safety • Warranty

Thank you for purchasing the Eco-Clear Submersible Pond Pump from EasyPro. These pumps are designed for continuous duty use to move large volumes of water from your pond to a filter or waterfall. When used at the bottom of a pond it can handle larger waste particles without blocking and send them to a filter. To use the product safely and to maximum benefit, be sure to read and follow the instructions.
Keep a copy of the instructions for reference. If this instruction manual should become lost or damaged, a copy can be found at our website www.easypro.com.

Safety & Electrical Connections

1. WARNING ***Always disconnect the electrical supply before handling, maintaining, repairing or installing any pond equipment.***
2. Keep out of the reach of children.
3. Always make sure you know the correct amps and voltage required before installing.
4. Use dedicated power outlet only. Sharing the outlet with other equipment may cause overheating and fire.
5. A drip loop should be installed in the power cord, to ensure water cannot travel down it and into an electrical socket
6. Always connect to a Ground Fault Circuit (GFCI) to prevent electrical shock. Never submerge connecting power cable plug in water.
7. WARNING **Never let the pump run without water as this will damage the impeller, overheat and possibly burn out the pump. This pump must stay submerged entirely when operating. Running pump low on water will cause overheating, premature failure and will void warranty.**
8. Do not use this product in bathrooms or swimming pools. For use with fresh water only.
9. Do not use in water over 95° F (35°C).

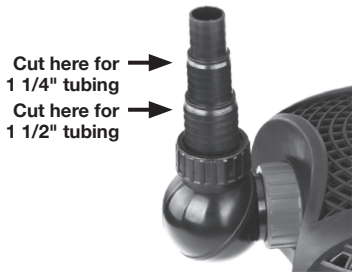
10. All electrical work must be performed by a qualified technician. Always follow the National Electrical Code (NEC) or the Canadian Electrical Code as well as all local, state and provincial codes. Code questions should be directed to your local electrical inspector. Failure to follow electrical codes and OSHA safety standards may result in personal injury or equipment damage. Failure to follow manufacturer's installation instructions may result in electrical shock, fire hazard, personal injury or death, damaged equipment, provide unsatisfactory performance and may void manufacturer's warranty.
11. Do not carry or lift the pump by the power cord.
12. Never use an extension cord or tamper with power cord. Power cord should not become bent, twisted, abraded or cut. A damaged cable may cause electric leakage, shock or fire. The power cord cannot be replaced, and unit should be replaced if cord becomes damaged.
13. Do not remove the pre-filter housing during operation of the pump.

Features

- Permanent magnet motor for high efficiency and long life.
- Oil-less design is safe for fish and plants
- Impeller designed for passing debris up to 3/8" diameter
- Adjustable direction outlet for use with 1", 1 1/4" or 1 1/2" kink free or 1 1/2" PVC tubing
- Ceramic impeller provides high wear resistance and long life
- Epoxy sealed motor is waterproof, safe and reliable
- Pump can be run continuously 24 hours per day.

Assembly and General Installation

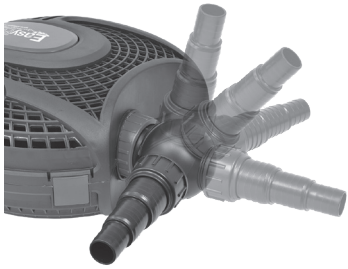
1. The pump can be placed at the bottom of the pond. One end of the hose will connect to the pump outlet and the other will feed a filter or waterfall device.
2. Maximum performance is achieved when used with largest outlets and tubing sizes available. Restricting water flow with small accessories will reduce the performance of the pump.
3. Select the step barb fitting or the PVC adaptor fitting based on type of tubing being used.
4. When using the step barb fitting, use a hacksaw to remove any smaller steps than the tubing being used.
5. Secure the adjustable ball joint fitting to the pump outlet and attach the appropriate tubing adapter by hand tightening the locking nuts.
6. Secure tubing to adapters. Use clamps (not included) on barb fittings or rubber coupler (not included) for PVC adaptor fitting.
7. When moving the pump be sure to lift only by handle and not by power cable.



Step 4

8. Place the pump on a flat brick or stone on the pond bottom. This keeps the pump out of the sludge and prevents excess debris from entering the pump.

9. Adjust the direction of the plumbing if necessary and connect tubing to filter or waterfall device.
10. Be sure the pump is fully submersed and plug the pump in to operate.
11. Observe the operation to make sure it is running smoothly and connections are secure.
12. For the EPS4900VF model, the flow rate can be selected from the controller device. Use the arrows to select the flow rate desired. Be sure to operate only between 40% and 100% to avoid damage to the pump.



Step 9

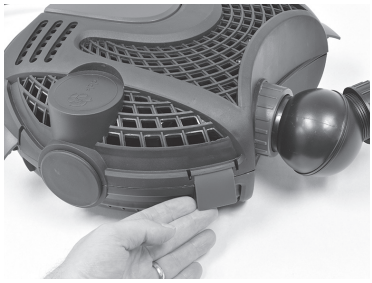
Step 12

Service & Maintenance

1. WARNING ***Disconnect all power supplies before inspection or service to avoid possible electrical shock.***
2. Regularly inspect and clean the pump housing to make sure it is clear of debris or algae which can reduce the flow.
3. Be sure the pump housing is closed and properly latched to prevent debris from entering the pump.
4. Check the water level daily to ensure the pump remains fully submerged.
5. If the pump is left in water but not operating regularly, test run it at least once a week.
6. Once per season the unit should be disassembled to clean any build-up of debris or mineral deposits on the impeller assembly and housing. Areas with hard water may require more frequent cleaning. (See cleaning section for details)
7. Winterization/Storage: When the pump is out of use for extended time - wash and dry it then store indoors in a non-freezing location. It is essential to prevent any risk of the pump freezing.

Cleaning and Replacing Impeller Assembly

1. WARNING ***Disconnect all power supplies before inspection or service to avoid possible electrical shock.***
2. Disconnect pump from tubing and remove from water.
3. Unclip the four locking clips to loosen upper housing.



Step 3

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4. The top housing is also connected at the handle. This can be a little tricky to release. Slightly lift the front of the housing and push the top of the handle to release the housing.

5. Clean out any debris inside the housing.

6. It may be easier to remove adjustable ball joint at this point, but access to the impeller can be made with it attached. To remove the adjustable ball assembly, loosen the blue nut from the pump.

7. With a Phillips screwdriver remove the four screws and two brackets that secure pump body to lower housing. Be sure not to lose any screws during disassembly.

8. Remove the screw holding the power cord strain relief clip.

9. To access the impeller assembly, remove four screws from pump impeller housing.

10. Carefully pull the impeller out of its chamber.

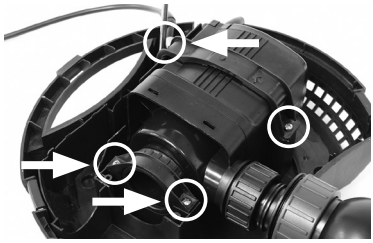
11. Inspect and clean the impeller and chamber. Clean the impeller and chamber using water and a damp cloth or sponge. A vinegar mixture may help remove hard deposits. If the impeller is damaged, replace with a new impeller.

12. Once the impeller is cleaned or replaced with new one, reverse the steps to reassemble the pump and housing.

    Tip *To attach the top housing, start by securing the latch at the handle first. Align the top and bottom housing sections and squeeze them together at the handle to latch them in place. Then secure the four clips.*

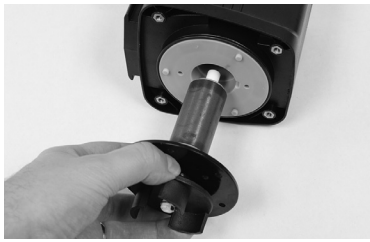
13. Reattach the plumbing and return the pump back to the pond. Plug the pump back in and observe the operation to make sure it is working properly.

Step 4



Step 7

Step 8



Step 10

Step 12

Troubleshooting

Before taking any troubleshooting action, disconnect pump from the power supply.

Does not start

- Make sure power cord is plugged in
- Check outlet GFCI or house circuit breaker
- Improper power supply

Running, no water

- Check pump housing or piping for obstructions
- Check if impeller is broken or stuck
- Vertical pumping distance is too high, or the pipe size is too small
- Pond filter needs to be cleaned
- Water level is too low
- For the EPS4900VF, be sure the controller is on. It may be necessary to increase the flow volume temporarily and once running smoothly the flow can be lowered again.

Running, very little water

- Check pump housing or impeller for clogs
- Check tubing for kinks or obstructions
- Vertical pumping distance is too high, or the pipe size is too small
- Pond filter needs to be cleaned
- Low water conditions with pump sucking air
- For the EPS4900VF, adjust flow with the controller. It may be necessary to increase the flow volume temporarily and once running smoothly the flow can be lowered again.

GFCI breaker tripping

- Power cord may be damaged and getting wet. The cord is not replaceable, so a new unit will be required.
- Nuisance trip due to improper grounding
- Overloaded circuit

Pumps stops

- Make sure water being pumped is not too hot, causing the pump to overheat.
- Clear obstructions – check pump, tubing, filter, etc.
- Check that the impeller is in good repair. Replace if needed.
- Check power supply

Pump Specifications	EPS1300	EP2500	EPS3700	EPS4900 EPS4900VF
Maximum Flow Rate	1400 GPH	2480 GPH	3680 GPH	4850 GPH
Maximum Head	14.5 feet	16 feet	19 feet	22 feet
Maximum Wattage	55W	87W	150W	190W
Power Cord Length	30 feet	30 feet	30 feet	30 feet
Volts / Frequency	115 V / 60 Hz	115 V / 60 Hz	115 V / 60 Hz	115 V / 60 Hz
Pump Discharge Dimensions	2"	2"	2"	2"
Pump Dimensions	13.2"L x 11.9"W x 5.9"T	13.2"L x 11.9"W x 5.9"T	13.2"L x 11.9"W x 5.9"T	13.2"L x 11.9"W x 5.9"T

ECO-CLEAR PUMP PERFORMANCE DATA

Model	Gallons per hour (gph) flow at feet of head									COMPATIBLE ECO-CLEAR FILTER
	0'	3'	6'	9'	12'	15'	18'	21'	24'	
EPS1300	1400	1125	710	430	150	-	-	-	-	ECI300 / ECI300U
EPS2500	2480	1680	1140	815	449	185	-	-	-	EC2600 / EC2600U
EPS3700	3680	2900	2310	1815	1390	875	180	-	-	EC3900 / EC3900U
EPS4900	4850	4090	3215	2425	1800	1400	832	195	-	-
EPS4900VF	4850	4090	3215	2425	1800	1400	832	195	-	-

Pro Tip Maximum performance is achieved when used with largest tubing and fittings sizes available. Restricting water flow with small diameter tubing or small accessories will reduce the performance specifications indicated here. Performance data provided for reference only and may vary slightly.

Exploded View

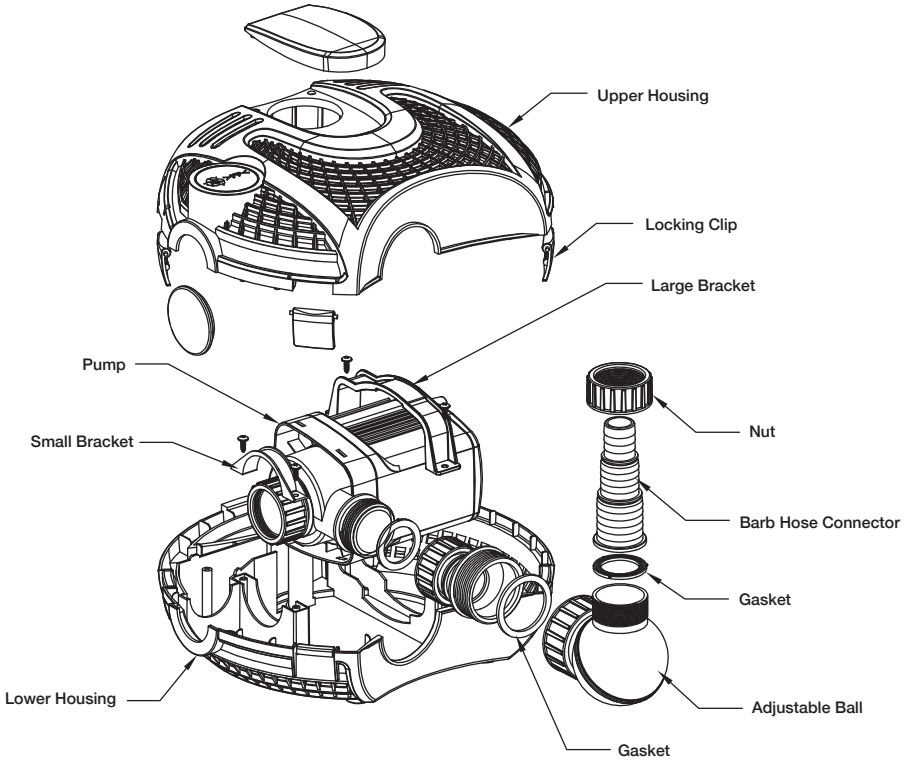


Image for reference only

Replacement Parts

Part #	Description
EPS1300I	Impeller Assembly for EPS1300 pump
EPS2500I	Impeller Assembly for EPS2500 pump
EPS3700I	Impeller Assembly for EPS3700 pump
EPS4900I	Impeller Assembly for EPS4900/EPS4900VF pump
EPSBK	Hose barb replacement (Barb Hose Connector, Nut, Gasket)
EPSRB	Adjustable Rotating Ball Connector with Nut and Gasket
EPSPB	Pump Bracket Set (Includes Large and Small Bracket - No screws)
EC150PVC	1 1/2" Adapter Fitting for PVC (not shown)

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:

Pump: **three years** from the date of purchase. Gaskets are considered wearable items and are not covered under this limited warranty

Impeller: **six months** from the 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. 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.