Submersible Pump Instructions

Models: Eco 3170 / Eco 4750 / Eco 7400
Product: #728335 / #728485 / #728340

PARTS DESCRIPTION

Outlet

1/8" outlet connector

O"ring

The hole and the dowel should be fit together

O"ring

Pump body

Base

Inlet

O"ring

Impeller

Rotor assembly

Impeller cover

WARRANTY

This product has a warranty of one year for any defects in materials or workmanship. Warranty is NOT VALID if the pump is not properly used, neglected, or there is a lack of maintenance or accidental damage either to the pump or to the impeller or impeller shaft. If the pump fails due to manufacturing fault within this warranty period, the pump will be repaired or replaced free of charge. Please return the pump to the place of purchase with the original bill receipt.

The manufacturer or distributor shall not be held responsible for any damages caused by defective components or materials, or for loss incurred because of the interruption of services or any consequential, or incidental damages or expenses arising from the manufacturing, sale, use or misuse of this product. The manufacturer shall not be held responsible for any loss of fish, plants or other livestock as a result of any failure or defect of this product.

• Use with 120 volt power source.
• The pump is provided with a thermal protector that temporarily switches off the pump in case of overheating and the pump may automatically restart.

Sunlight Supply Inc.
National Garden Wholesale.
www.sunlightsupply.com
Made in China
EcoPlus Submersible pumps are designed for both fresh and salt water and for both under and above water use. They are of the highest quality with the latest development in pump technology. These pumps are suitable for use in ponds, aquariums, fountains and in combination with filtration systems.

EcoPlus Submersible pumps do not use oil or grease for lubrication and can be used safely in ponds containing fish or plants. The motors consist of a sealed stator and a water-cooled permanent magnetic rotor. All the electrical parts are isolated from the water with epoxy resin to ensure safety.

- Because of the high flow rate and total head, the unit's possible applications are endless. You may use these pumps in a variety of settings ranging from large waterfalls to filtration systems.
- The vortex impeller and ceramic components allow this unit to be both energy saving and efficient.
- The unique design of the impeller allows for a dramatic reduction in the frequency of cleaning.
- The unit can be used both inside and outside of water and for either fresh water or salt water.

Make sure that the voltage and frequency of power supply comply with the specifications on the product.

- The pump only is suitable with a FI-switch 30mA and has to be connected to a regular safety plug socket.
- Never pull the pump or remove the pump by pulling the cord.
- Never remove the plug or shorten the cord.
- Keep the plug and socket dry.
- The pump is not suitable for use in swimming pools, swimming ponds, or other situations where humans may make bodily contact with the water.
- Always turn the unit off before cleaning or removing the pump for maintenance.
- The electricity cable cannot be replaced. If the cable becomes damaged, the pump should be discarded.

The EcoPlus Submersible pumps do not require lubrication or special maintenance.

**CAUTION**
Thermally Protected Enclosure Type 3 for Indoor and Outdoor Use. This Pump Has Been Evaluated for Use with Water Only.

**WARNING**
Risk of Electric Shock - This Pump Has Not Been Investigated for Use in Swimming Pool or Marine Areas.

To reduce the risk of electric shock, install only on a circuit protected by a Ground-Fault Circuit-Interrupter (GFCI).

Risk of Electric Shock - This Pump Is Supplied with a Grounding Conductor Grounding-Type Attachment Plug. To reduce the risk of electric shock, be certain that it is connected only to a properly grounded, grounding-type receptacle.

To reduce the risk of electric shock, see Instruction Manual for proper installation.

**INSTALLATION INSTRUCTIONS**
**WARNING**
To reduce the risk of electric shock, use only on portable self contained fountains no larger than 5 feet in any dimension.
4. To avoid injury, do not contact moving parts or hot parts such as heaters, reflectors, lamp bulbs, and the like.

5. Always unplug an appliance from an outlet when not in use, before putting on or taking off parts, and before cleaning. Never yank cord to pull plug from outlet. Grasp the plug and pull to disconnect.

6. Do not use an appliance for other than intended use. The use of attachments not recommended or sold by the appliance manufacturer may cause unsafe conditions.

7. Do not install or store the appliance where it will be exposed to the weather or temperatures below freezing.

8. Make sure the appliance is mounted on a tank as securely installed before operating it.

9. Read and observe all the important notices on the appliances.

10. If an extension cord is necessary, accord with appropriate ratings should be used. Accord rated for less than 120 volts may overheat. Care should be taken to arrange the cord so that it will not be tripped over or pulled.

11. This appliance has no user serviceable parts.

12. SAVE THESE INSTRUCTIONS.

**MAINTENANCE & CLEANING, CONTINUED**

1. Turn off the power supply, move the pump to a dry location.

2. Loosen the screws from the impeller cover; remove the impeller cover from the pump body by lightly shaking the unit.

3. Pull the rotor assembly away from the pump body.

4. Wash parts with fresh water carefully.

5. Reattach the rotor to the pump body carefully after cleaning; make sure the 2 holes on the impeller base and the 2 dowels on the pump body fit together for proper assembly.

6. Turn the rotor by hand; the rotor should move freely.

7. Check the “O” ring of the pump body.

8. Replace the impeller cover on the pump body and tighten the stainless steel screws.

9. The pump should be submerged no less than 6 inches below the water level if it is used under water.

10. If the unit is used outside water, it should be no less than 6 inches lower than the surface of the water.

11. Do not use or leave the pump in freezing conditions.

12. Never let the pump run dry.

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**Flow Rate: Gal/Hr**

<table>
<thead>
<tr>
<th>MODEL</th>
<th>VOLTAGE (AC)</th>
<th>POWER</th>
<th>QMAX</th>
<th>HMAX</th>
<th>INLET</th>
<th>OUTLET</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eco 3170</td>
<td>250 – 240V/50Hz</td>
<td>160W</td>
<td>12000 l/h</td>
<td>4.6 m</td>
<td>Ø 45 mm</td>
<td>Ø 35 mm</td>
</tr>
<tr>
<td>Eco 4750</td>
<td>110 – 120V/60Hz</td>
<td>160W</td>
<td>3170 GPH</td>
<td>14.5 ft</td>
<td>Ø 45 mm</td>
<td>Ø 35 mm</td>
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<tr>
<td>Eco 7400</td>
<td>250 – 240V/50Hz</td>
<td>250W</td>
<td>18000 l/h</td>
<td>6.0 m</td>
<td>Ø 45 mm</td>
<td>Ø 35 mm</td>
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<tr>
<td></td>
<td>110 – 120V/60Hz</td>
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<td>4750 GPH</td>
<td>20.0 ft</td>
<td>Ø 45 mm</td>
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<tr>
<td></td>
<td>220 – 240V/50Hz</td>
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<td>28000 l/h</td>
<td>7.0 m</td>
<td>Ø 52 mm</td>
<td>Ø 55 mm</td>
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<tr>
<td></td>
<td>110 – 120V/60Hz</td>
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<td>7400 GPH</td>
<td>9.3 ft</td>
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<td>Ø 55 mm</td>
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**Total Max Height: Feet**

- Eco 3170: 14.8’
- Eco 4750: 19.7’
- Eco 7400: 23’
SAFETY WARNINGS

- Check that the supply is rated and is correctly fused.
- Do not connect your pump to the electricity supply while the unit is out of water.
- Never let the pump run dry as this will damage the impeller and may also overheat the pump and burn out the electric coil.
- If you intend to drain the aquarium or change some of the water you must disconnect the pump before starting work to allow the unit to cool down.
- Always disconnect any electrical items from the electricity supply before working in your aquarium or hydroponic system.
- Never let the water level in the aquarium fall below the top of the pump body.
- Do not use this product if the electricity supply cable becomes damaged. The supply cable cannot be replaced.
- Do not use this product if the body becomes damaged or cracked.
- If the pump becomes noisy, replace the impeller, as this component is a wearable part.
- If the 13-amp supply plug gets wet DO NOT TOUCH THE PLUG. Turn off the electrical supply at the circuit breaker before removing the plug.

- If the 13-amp supply plug gets wet DO NOT TOUCH THE PLUG. Turn off the electrical supply at the circuit breaker before removing the plug.
- If you power head is not pumping water out turn off the power and investigate the reason for the problem. Possible causes are dirty filter medium, broken impeller, dirty impeller, dirty impeller housing or the fuse in the plug may have blown.

CAUTION:
This pump has been evaluated for use with water only.

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

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 aquarium and pond equipment. For each of the following situations, do not attempt repairs by yourself; return the appliance to an authorized service facility for service or discard the appliance:
   - If the appliance shows any sign of abnormal water leakage, immediately unplug it from the power source. (Submersible equipment only)
   - Carefully examine the appliance after installation. It should not be plugged in if there is water on parts not intended to be wet.
   - Do not operate any appliance if it has a damaged cord or plug, or if it is malfunctioning or has been dropped or damaged in any manner.
   - To avoid the possibility of the appliance plug or outlet getting wet, position aquarium and tank to one side of a wall-mounted outlet or to prevent water traveling along the cord and coming in contact with the outlet. The “drip loop” is the part of the cord below the level of the outlet, or the connector if an extension cord is used, to prevent water traveling along the cord and coming in contact with the outlet. If the plug or outlet does get wet, DON’T unplug the cord. Disconnect the fuse or circuit breaker that supplies power to the appliance. Then, unplug and examine for presence of water in the outlet.

3. Close supervision is necessary when any appliance is used by or near children.