Section 1: INCLUDED

(1) Water Pump
(2) Nozzles
(3) DC Short Connector

Section 2: CAUTIONS

1) Make sure the water pump is fully submerged underwater while it is operating.
2) Do not connect the pump to any AC power supply; it is designed ONLY for DC power between 12V to 24V. When connects to a Solar Panel, an 18V Solar Panel is recommended, because a 24V solar panel actual output will exceed its nominal voltage when sunlight at highest intensity.
3) The polarity of the power cable plug on the Water Pump (1) must match the plug on the DC Short Connector (3) as shown in the figure to the right. Connect the two plugs by matching the flat sides; do not force them together.
4) Any alteration of the product itself or changing of the components voids warranty.
5) Operate the pump in water only (under 104°F), and keep it away from flammable liquids.

Section 3: ASSEMBLY

*Unpack all components carefully.

1) [Setup Water Pump]
   a) Connect the nozzles tubes (adjust the height by the number of tubes) to the water pump outlet to produce a fountain effect above the surface of the water. Use a taller base such as bricks or marble slabs if the cylinder is not high enough.
   b) Connect one of the fountain heads on top of cylinder tubes for different water patterns.
   c) Place the water pump under the water (fish tank, small pond, etc.), but on top of a base such as a brick or marble slab to prevent dirt, mud, or sand from getting into the filter. For deep water, the AEO Floating Pad is recommended and can be found on Amazon.com by searching for “AEO Floating Pad”.

2) [Connect the Water Pump to DC Short Connector] connecting the plugs between the power cable and DC Short Connector (3). The plugs must match in polarity (+ -). Connect the two plugs by matching the flat sides. (See figure in Section 2-3)
3) [Connect to a Power Source] by connecting the DC Short Connector (3) to a proper DC power supply with an output of 12V to 24V.

Section 4: CLEANING AND MAINTENANCE
Periodically clean the water pump to prevent blockage.

! Caution ! Handle with care to prevent the impeller from falling out and breaking while detaching the unit. Disconnect Water Pump from Power before cleaning.

1) Pull the filter housing apart from the pump while squeezing the sides.
2) Press on the bottom board while sliding it in the direction of the arrow.
3) Turn the impeller cover counter-clockwise and then carefully pull it out. Impeller maybe attached to the cover or stay inside the pump. Be aware of the white washers may fall out.
4) Separate the impeller from the water pump or detach it from the impeller cover.
5) Wash every part including the inside of motor chamber and clean out the debris
6) Assemble the pump in reverse sequence then put water pump back under water, connect power to start running.

Section 5: TROUBLE-SHOOTING
* Pump stopped running?
1) Check power source: if connected to a Solar Panel, make sure it is fully exposed to sunlight and is not covered in shade or dirt. Solar cells are connected in series, any shadow or tiny dirt on one cell could significantly compromise the power output.
2) Check for blockage: clean the pump as described in Section 4: CLEANING AND MAINTENANCE.

* Pump is running, but there's no water going through?
1) Check for blockage: clean the nozzle tubes, water pump outlet, and filter to remove any debris.

Section 6: TECHNICAL DATA AND PUMP CURVE

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating voltage</td>
<td>DC 12V-24V</td>
</tr>
<tr>
<td>Maximum pump head (Hmax)</td>
<td>2.95ft @12V; 7.85ft@24V</td>
</tr>
<tr>
<td>Maximum flow rate (Qmax)</td>
<td>124G/H@12V; 196G/H@24V</td>
</tr>
<tr>
<td>Dimensions</td>
<td>4.17 x 1.85 x 1.97 inches</td>
</tr>
<tr>
<td>Net weight</td>
<td>0.99 lbs.</td>
</tr>
<tr>
<td>Cable length</td>
<td>16.4 ft</td>
</tr>
</tbody>
</table>

**If this product is defective or damaged upon delivery, please contact our customer service by email support@aeoselect.com or call 909-698-8199 for help. Thank you!**