

SOLAR PUMP KIT USER'S MANUAL

Design for fountain
Model No. SolarFree 500

1. OVERVIEW

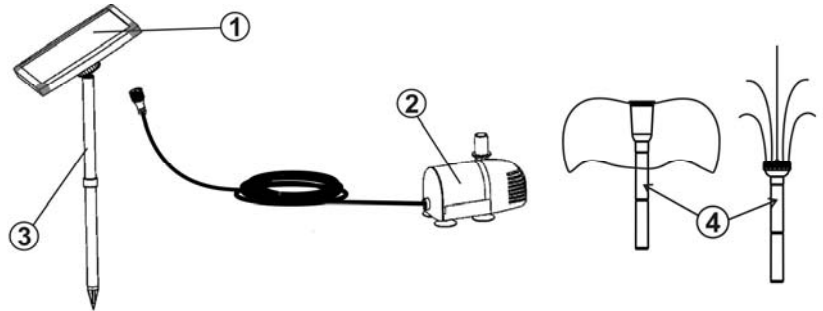
- 1) The solar pump is designed for indoor or outdoor fountain use, and is powered by a solar panel. In order to make the pump work by solar energy, the solar panel needs to be placed in the sunlight facing the sun.
- 2) The performance of the pump depends on the sunlight intensity and the orientation of the solar module.

2. COMPONENTS

- 1) Solar panel
- 2) Solar pump
- 3) Spike
- 4) Nozzle accessories

3. ASSEMBLING

- 1) Unpack all components carefully.
- 2) Connect the pump to the solar panel.
- 3) Connect the nozzle with the pump tube; the nozzle can produce 2 different jet shapes like the right picture.
- 4) Make sure to place the pump fully underwater when the pump operates.
- 5) To produce the excellent fountain effect, please kindly adjust the height of the fountain head above the water surface. The solar pump is now ready to operate.



4. CAUTIONS

- 1) Do not connect the pump to any AC voltage power directly; it's ONLY for DC Voltage power.
- 2) Operate the pump in freshwater or saltwater only (never above 40°C), especially keep it away from flammable liquids.
- 3) Do not strike the solar panel.
- 4) Do not let the pump run dry.

5. CLEANING AND MAINTENANCE



If after some time the pump starts losing power or stops working, please clean up sediment in the pump shell or filter cribs. Kindly note the pump can be opened by pressing down at the bottom of the filter housing (See the above photo for demonstration).

To clear the impeller, open the pump housing at the front by sliding up the front plastic cover.

To clean the solar module, wipe off the dust, leaves etc.

Be careful, never drop down the ceramic axis while cleaning the impeller, it breaks easily.

6. FUNCTIONALITY PROBLEMS

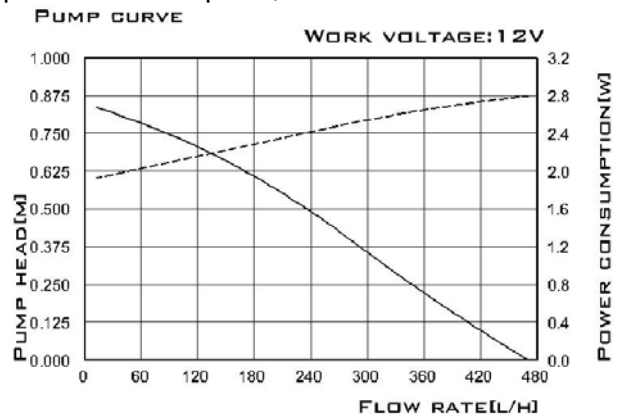
Pump does not operate even though the solar panel is in full sunlight.

- 1) No connection to the solar module—check connection to the solar module.
- 2) Impeller is blocked—to clean the pump, remove the front plate and the impeller, and use a brush or water to remove any debris.
- 3) To be sure the pump is totally submerged in water.

***Pump does operate but there is no water running through the tubes: Clear the tube and the filter to make sure the tube is through completely.**

7. TECHNICAL DATA

Operation voltage	12 V
Peak power of solar panel	5 W
Maximum water lift height	3.0 FT (0.9 M)
Maximum flow rate	124.2 GPH (470 L/H)
Cable length	16.4 FT (5 M)



We provide a guarantee of 24 months from date of purchase on the pump motor. This guarantee does not cover parts subjected to natural wear and tear, such as batteries and impellers, or any damages that result from misuse, tampering (including damage to or shortening of the cable), negligence, damage and technical modification. We reserve the right to repair or replace the unit. No repairs or replacement will be undertaken for pumps that have not been properly maintained. The guarantee will be honoured only if the unit is returned to your dealer (freight pre-paid) complete, with your receipt or proof of purchase.