



# SOLAR WATERFALL PUMP KIT USER'S MANUAL

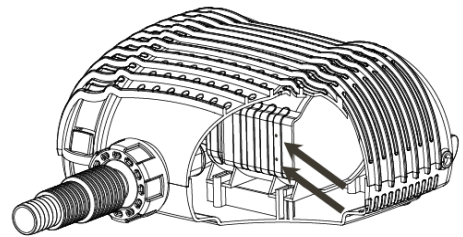
Aqua Jet Pro

SKU: AQUAJET-MAXFLOW-50

**Read And Follow All Instructions Before Operating Your Solar Waterfall Pump Kit. Save This Manual For Future Reference.**

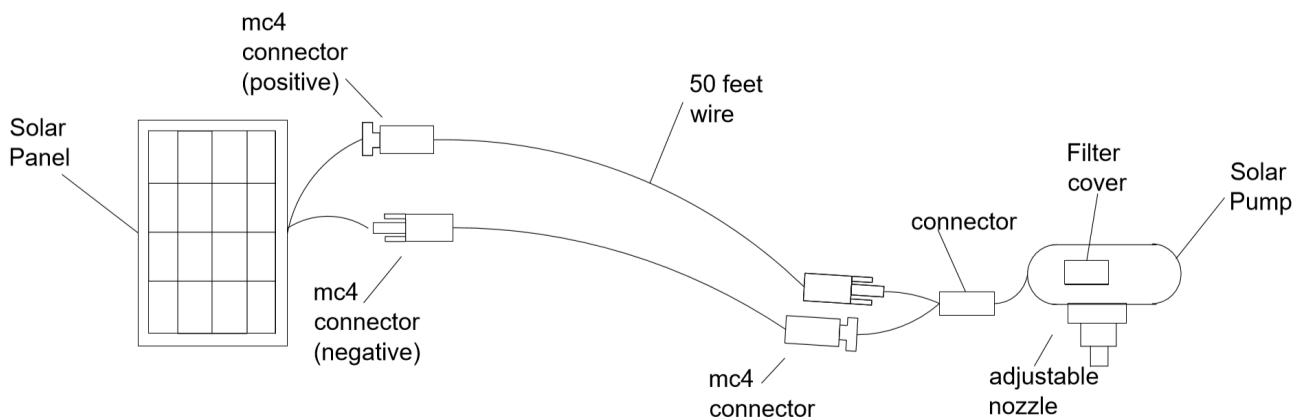
## 1. Overview

- The waterfall pump kit is designed for solar powered waterfalls or helping circulate water for your Koi/ Fish farms. It is powered by DC power supply through the solar module. There are also battery storing options, if you are interested in powering your waterfall pump kit after the sun goes down
- Using Solar power the performance of the waterfall pump kit depends on its orientation and the intensity of sunlight. To ensure maximum solar energy exploitation the solar cells need to face the sun as much as possible
- Each kit includes outdoor rated wire for direct burial. Connectors are watertight plug and play connectors, no complicated wiring needed.
- For high efficiency and long service life, the latest DC brushless motor technology is introduced in the pump design and manufacturing
- The pump includes our proprietary dry-run protection. The dry-run protection is provided by two sensor points on one side of the pump body. Make sure both of the points are submerged in water. If either or both points emerge out of water, the pump stops working.



sensor points

## 2. Components





### 3. Assembling

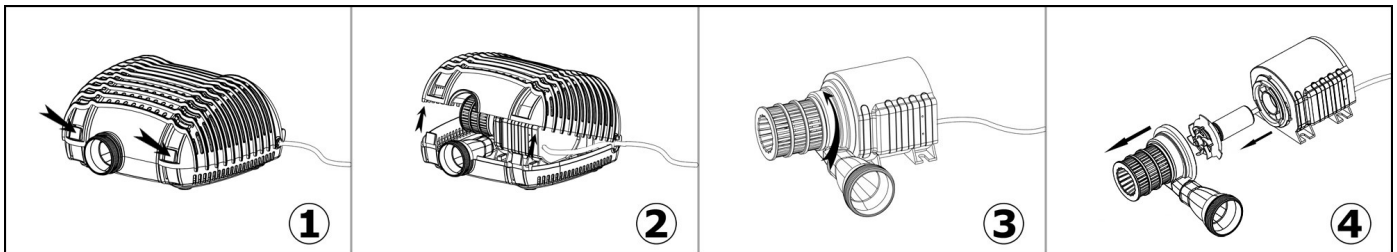
1. Unpack all components carefully.
2. For the application of pumping water for a waterfall, install the submersible pump at the lowest basin of your waterfall.
3. Carefully install plastic tubing.
4. Electrically connect the solar panel to the pump by plugging the four MC4 connectors in, two of them on the panel and the other two on the pump.
5. Install the solar panel on a flat roof, ground or pole as you selected in the mounting options. The performance of the waterfall pump kit depends on its orientation and the intensity of sunlight. To ensure maximum solar energy exploitation the solar cells need to face the sun as much as possible.
6. The solar pump is now ready to operate.

### 4. Cautions

1. Any altering of the product itself or changing the components voids warranty.
2. Do not connect the pump to any AC voltage power directly, it is ONLY for DC power voltage.
3. Operate the pump in water only (never above 40° C/ 104°F), keep it away from flammable liquids.
4. The pump is dry-run protected. It will automatically stop working, if there is not enough water.
5. Do not strike the solar panel.

### 5. Cleaning and Maintenance of the pump

If the pump starts losing power or stops working after a certain time, please clean up the sediment inside the pump or the debris on the filter cribs. The pump can be opened by unscrewing the four screws on the four corners of the filter housing bottom. To clean the pump, disassemble the pump according to the below figure before cleaning all the parts with water.



### 6. Functionality problems

If the Solar waterfall pump kit does not operate, please check the following possible reasons:

1. No connection to the power supply. Make sure all mc connectors are plugged in well and the solar panel is facing the sun.
2. The pump is not fully submerged in water.
3. Impeller of the pump is blocked - to clean the pump as described in Cleaning and maintenance of the pump.
4. No water running through the tubes. Clear the tube and the filter to make sure the tube is through completely.

### 7. Technical data

Operating voltage	DC 12V
Dimensions	30x30x55 in
Weight	80 lbs
Maximum Flow Rate	1500 GPH
Pump lift	10 feet of head

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