

## 12 Volt Hot Water Circulation Pump User Guide Manual

**Model:** XC-SP1606

### **Caution:**

Please read all instructions carefully before installing this product.

This pump is not ip68 sealed and therefore shall by any means never be submerged. However the electric wire connections must not be submerged. For extra protection please insulate all joins and ends with approved insulation or shrink tapes to avoid electric shocks and fire sparks that may cause explosions or fires.

### **Security:**

- 12V brushless pumps can only be used for pumping clean cold and hot water and non-corrosive chemicals and liquids.
- Please connect pump's black and white wire to the negative terminal (-) and white wire to the positive terminal (+).
- Make sure you use suitable size fuses.
- The wire connections must be insulated by shrink or water tight insulation tape.
- All wire connections must be outside water, unless necessary provided you have an ip68 waterproof connector.
- Please do not run the pump dry.
- Your pump must always be protected from water splashes or any liquid chemicals.
- Make sure the pump works in a ventilated environment.

### **About product:**

- Circulation pump is non-self-priming pump. Max Flow Rate: 20L/MIN, Max Discharge Head: 6M
- 10mm male adapter on the pump.
- Power source: DC 12V(NOT INCLUDED), Rated current: 2.0A, Brushless Motor, Low noise: 30db at 1 metre, Service life: 30000 hours
- Max circulating water temperature: 100°C
- Do no submerge.

### **Specifications:**

Model	Flow Rate	Volt	Current (A)	Head (m)	Cable	Outlet Dia	Weight
XC-SP1606	20L/MIN	12	3.3AMP	6.0	20cm	10mm	0.30kgs

### **Warning:**

- To prevent injury, always disconnect the power source when installing or servicing any electric product.
- Do not use the pump to pump gasoline oil or any flammable liquids.
- Always make sure you use fuse amperage rated for your pump model.
- Failure to follow these instructions may result in serious injury or fire hazards.

### **Optional Materials:**

- Mounting screws

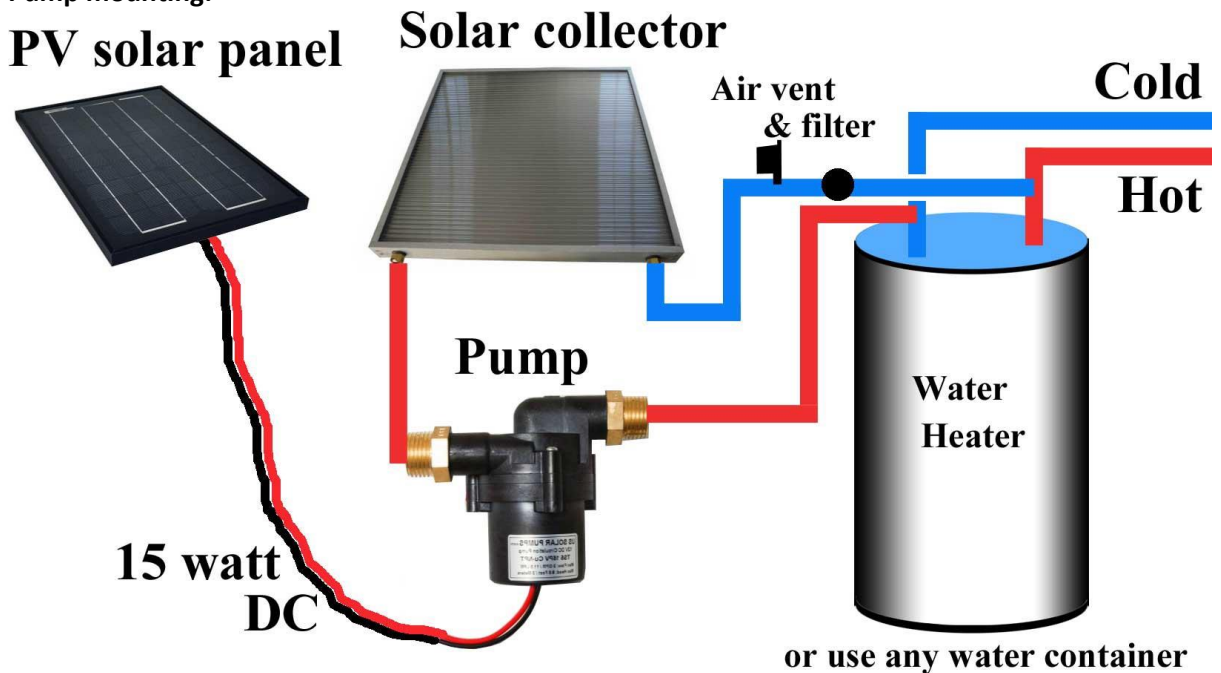
- Mounting brackets.

#### Pump Mounting Instructions:

**Warning:** remove any polystyrene or foam blocks covering the pump around for shipping purposes.

- **Step 1:** make sure you mount the pump with safety brackets, make sure it is holding firmly as to avoid too much vibration that will affect your seals and bearings.
- **Step 2:** now insert your hose inlet/outlet and use hose clamps to secure the pipes.
- **Step 3:** now you can link your inlet pipe to the water source and outlet to the supply, you must always watch for the inlet/outlet arrow when installing this type of pump.
- **Step 4:** make sure your pump is at bottom of the water level as is the pump is not self-priming.
- **Step 5:** make sure your pump is covered or protected from water or rains never submerge the pump.

Pump mounting:



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#### Operation:

1. Connect your +- terminals accordingly to your battery positive and negative poles.
2. Make sure you have right size fuse on your positive pole.
3. Connect your pump to the control switch, depending on what operation you are using the pump for;
  - Use manual or thermostat switches for pump control.

#### Care & Maintenance:

- Always watch your power supply voltage or current for over voltage, under voltage or short circuit.
- Make sure your pump filter sieve is always clean of debris or any clogging dirty.

- Careful attention will guarantee outstanding pump performance

**Parts:**



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