

# Solar Cascade Solar Duo Cascade Solar Fish



Solar powered water fountains  
operate in direct sunlight



SOLAR CASCADE



SOLAR DUO CASCADE



SOLAR FISH

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**These instructions relate ONLY to the Smart Solar fountain products and contain important information for using the product for the first time. Please keep these instructions for later reference. They should accompany the product in the event of transfer to a new user.**

## 1. INTRODUCTION

Thank you for purchasing one of our Smart Solar fountains. You have purchased a product that complies with the latest and most up-to-date solar technology available. To preserve these standards and in order to maintain safety you should adhere to the instructions for use detailed in this manual.

## 2. SECURITY INSTRUCTIONS

In the event of any problems arising or damage occurring as a result of misuse the manufacturers warranty will be deemed cancelled. The manufacturer is not responsible for any claims or damages arising from the misuse of this product. For safety reasons and in order to maintain standards (CE) you are prohibited from altering or changing any component in the solar fountain.

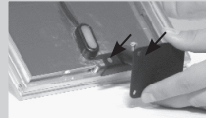
**Please follow the instructions very carefully.** For commercial applications due care and attention must be paid to the Health and Safety Standards in your jurisdiction.

## 3. OVERVIEW

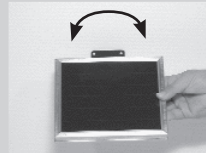
Smart Solar fountains have been designed for outdoor use. A solar module powers the pump. The pump drives water to the topmost jug and then cascades down through the lower tiered bowls. In order for the pump to operate, the solar module needs to be placed in direct sunlight. The performance of the pump depends on the season and the position of the solar module.



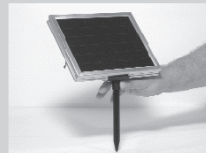
Solar Panel & Stand Kit



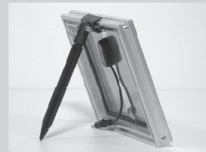
Attaching the Panel Holder



Wall Mounted Solar Panel



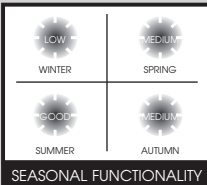
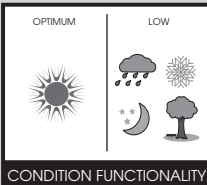
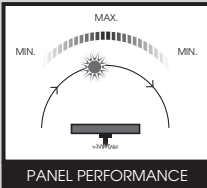
Stand Mounted Solar Panel



Standing Solar Panel

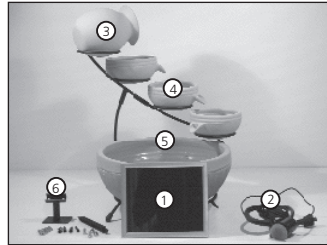


Solar panel connector



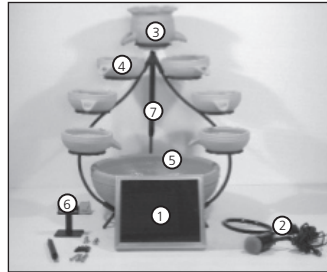
## 4. COMPONENTS

### SOLAR CASCADE



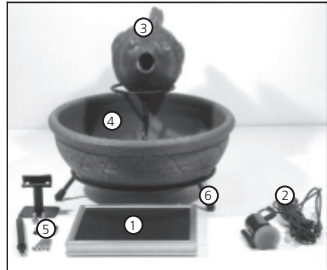
- 1 Solar panel
- 2 Pump with plastic tube and plastic straps
- 3 Jug
- 4 Small bowls (3 pcs)
- 5 Main bowl
- 6 Solar panel holder set
- 7 Metal frame (4 pcs)

### SOLAR DUO CASCADE



- 1 Solar panel
- 2 Pump with plastic tube
- 3 Jug
- 4 Small bowls (6 pcs)
- 5 Main bowl
- 6 Solar panel holder set
- 7 Metal stand

### SOLAR FISH



- 1 Solar panel
- 2 Pump
- 3 Fish
- 4 Main bowl
- 5 Solar panel holder set
- 6 Metal stand

## 5. ASSEMBLING AND USING YOUR PRODUCT

### SOLAR CASCADE

#### Unpack all components carefully.

First assemble the metal stand. There are connection points as per the diagram on the right. Insert the big bowl first. Make sure that this is properly followed.

Next insert the three small bowls.

Unroll the pump cable.

Draw the hose through the topmost ring and insert the self-sealing soft rubber plug into the hole in the jug. Then place the jug on the topmost ring ensuring correct alignment.

Affix the hose along the metal frame using the provided plastic straps.

Fill the main bowl with water.

Insert the connector into the rear of the module.

Your fountain is now ready to operate.

#### Please Note:

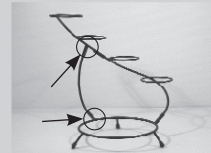
The jug and the bowls are made of clay and are fragile. Decide on a suitable location.

There will be water splashes when the product is in use. Make sure that the surface on which you are placing the fountain will not be affected.

We recommend you use filtered, distilled or rain water to prevent scale building up.

On first use, there may be air in the pump. It can take up to 5 minutes until the air escapes.

### SOLAR CASCADE



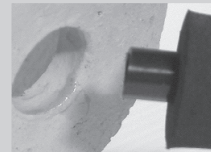
Stand connects at indicated points



Insert the main bowl into stand



Attach hose where indicated



The hose and the rubber bung fits into the hole in the bottom of the jug

## SOLAR DUO CASCADE



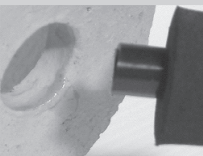
Stand connects at indicated points



Draw the hose through the metal tube



Draw the hose through the soft rubber



The hose and the rubber bung fits into the hole in the bottom of the jug



Insert the small bowls

## SOLAR DUO CASCADE

### Unpack all components carefully.

First assemble the metal stand. There are connection points as per the diagram on the right. Insert the big bowl first. Make sure that this is properly followed.

Next insert the six small bowls.

Unroll the pump cable.

Draw the hose through the topmost ring and insert the self-sealing soft rubber plug into the hole in the jug. Then place the jug on the topmost ring ensuring correct alignment.

Affix the hose along the metal frame using the provided plastic straps.

Fill the main bowl with water.

Insert the connector into the rear of the module.

Your fountain is now ready to operate.

### Please Note:

The jug and the bowls are made of clay and are fragile. Decide on a suitable location.

There will be water splashes when the product is in use. Make sure that the surface on which you are placing the fountain will not be affected.

We recommend you use filtered, distilled or rain water to prevent scale building up.

On first use, there may be air in the pump. It can take up to 5 minutes until the air escapes.

## SOLAR FISH

### Unpack all components carefully.

First assemble the metal stand. Then insert the main bowl. Make sure that it is correctly aligned.

Insert the self-sealing soft rubber plug with the pump attached into the hole of the fish. Then place the fish on the upper ring ensuring correct alignment.

Unroll the pump cable.

Fill the main bowl with water.

Insert the connector into the rear of the module.

Your fountain is now ready to operate.

### Please Note:

The fish and the main bowl are made of clay and are fragile. Decide on a suitable location.

There will be water splashes when the product is in use. Make sure that the surface on which you are placing the fountain will not be affected.

We recommend you use filtered, distilled or rain water to prevent scale building up.

On first use, there may be air in the pump. It can take up to 5 minutes until the air escapes.

## 6. CLEANING AND MAINTENANCE

If after time the pump starts to lose power or stops working you should check for the build up of sediment or scale in the bottom of the pump housing. Carefully remove the pump from the hose. Open the pump housing at its base. Remove the impeller. Remove any dirt or scale, which has built up and close the case back up. Carefully reattach the pump to the hose.

The Solar module should only be cleaned with soft tissue and any mild glass cleaning solution.

## SOLAR FISH



Stand connects at indicated point



Insert rubber bung into the hole



Position urn onto upper stand



Attach hose to pump

## 7. TROUBLESHOOTING

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

- 1) No connection to the solar module - Check the connection to the solar module.
- 2) Impeller is blocked - Clean the pump.

**Pump does operate but there is no water running through the hose.**

Check for the build up of sediment or scale in the hose or the filter. Clean the hose and filter.

- Make sure pump is completely submerged in water.  
Disconnect pump from panel, wait 3 seconds and re-connect.

## 8. TECHNICAL DATA

Operation voltage:	6.0 V
Solar module:	7.5 V / 1.5 W
Pump performance:	max. 75 gph
Cable:	32 ft.

**Important:** In winter, Smart Solar fountains must be stored in a dry and frost-proof environment. The pump must never be operated dry (out of water). Dry operation permanently damages the pump.

## 9. SPARE PARTS

**Solar panel:** Item No. SCK1W5S

**Pump with plastic tube:** Item No. SPK160X3S

For ceramic parts, please call for availability.

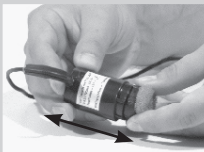
## 10. LIMITED 1 YEAR WARRANTY

If at any time within 12 months from the date of purchase this product fails due to a defect in materials or workmanship, Smart Solar will replace or repair it free of charge. Does not include batteries. Please be sure to register your product within 7 days of purchase at [www.smartsolar.com](http://www.smartsolar.com).

**The warranty does not apply to:**

Damage caused by accidents, abuse, poor handling, frost or normal wear and tear. Products which have been subject to unauthorized repair or modification.

For further information please contact your nearest service center detailed on the last page of this instruction manual.



Remove pump base



Clear impeller



For further information, including parts, warranty repair or general inquiries, please contact Smart Solar at:

USA Corporate Office

Tel:

**1-813-343-5775**

Website:

**[www.smartsolar.com](http://www.smartsolar.com)**

