



If you have any problems, please contact Smart Solar before returning to the place of purchase.

For immediate answers visit our website www.smartsolar.com where you will find extensive trouble shooting, FAQs and support.

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solar frog solar dove solar powered fountain

operates in direct sunlight



SOLAR FROG



SOLAR DOVE

www.smartsolar.com

Please note:

In winter the Solar Frog/ Solar Dove must be stored in a dry and frost proof environment. Alternatively, an optional adapter can be purchased for occasional indoor use.

The pump must never be operated dry (out of water) as this will have a permanent adverse affect on the performance of the pump.

Spare parts

- | | |
|---|---------------------------|
| 1. Solar panel | 21310AS01 |
| 2. Solar Mounting Kit | MTGKIT |
| 3. Pump | 20500P01 |
| 4. Pump impeller | IMPELLER |
| 5. Pump cover with filter | PCOVER07 |
| 6. Optional 4.5 volt adapter for indoor use | 4.5V-AC (specify country) |
| 7. Dove | 21300DOVE |
| 8. Frog | 22300FROG |
| 9. Main bowl dove | 21300BOWL |
| 10. Main bowl frog | 22300BOWL |
| 11. Tube kit with bung | TUBEKIT |

Full 2 year warranty

If within 24 months from the date of purchase this product fails due to a defect in material or workmanship, Smart Solar will replace or repair free of charge. Please report immediately if there is any damage or missing pieces upon receipt of goods.

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 customer service centre detailed on the last page of this manual.

Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with your local authority or retailer for recycling advice.



Smart Solar reserve the right to modify any product to enhance its' performance and design.

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Introduction

Thank you for purchasing a Solar Frog / Solar Dove. These instructions contain important information for using this product. Please keep them in a safe place for future reference.

Before you start

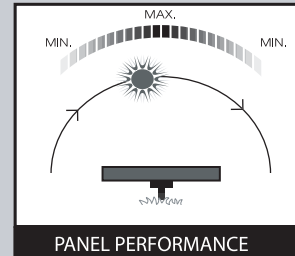
Decide on an appropriate outdoor location for your water feature. Ideally this should be on a flat surface. A solar panel powers the pump by converting sunlight into electricity.

The solar panel will power the pump when exposed to direct sunlight. If the sun passes behind a cloud then the amount of electricity produced by the panel will decrease and the pump will stop working or slow down. As soon as the sun reappears from behind the cloud the amount of electricity will increase instantly and the pump will begin to work again.

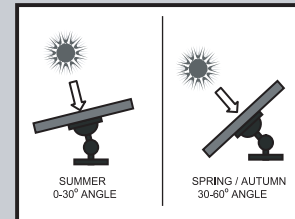
The amount of electricity produced by the solar panel is proportional to the strength of sunlight received. For optimum performance we recommend that your solar panel should be exposed to as much direct sunlight as possible and away from shady areas e.g. under trees. The panel can also be angled towards the sun to maximise the amount of light received.

Overview

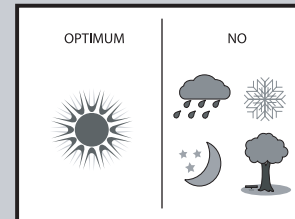
The Solar Frog/ Solar Dove has been designed for outdoor use. The pump drives water to the Frog/ Dove and finally pours into the main bowl. The water is constantly re-cycled.



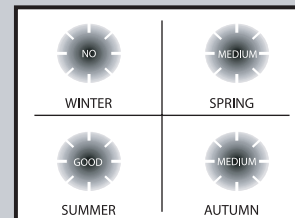
PANEL PERFORMANCE



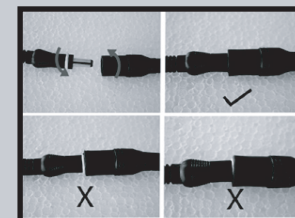
PANEL ADJUSTMENT



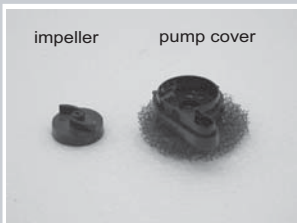
CONDITION FUNCTIONALITY



SEASONAL FUNCTIONALITY



Solar Pump Connector

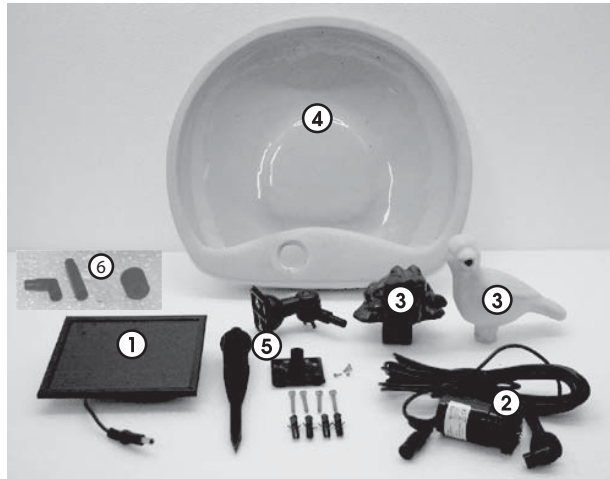


Remove pump cover



Take out impeller to clean

Components



- | | |
|----------------------------|----------------------------|
| 1 Solar panel | 4 Main bowl |
| 2 Pump with filter housing | 5 Solar panel mounting kit |
| 3 Dove/ Frog | 6 Tube kit |

Assembling and Using Your Product

Unpack all components carefully. Please ensure that you check all parts have been removed from the packaging especially the solar panel, which is stored in the bottom of the box.

Decide on a suitable location, bearing in mind there will be some water splashes when the product is in use.

First unroll the pump cable and feed the pump cable connector through the hole at the back of the main bowl.

Place the pump under Frog/ Dove ledge by inserting the pump outlet tube through the hole in the ledge.

Position the Frog/ Dove and pump facing into the main bowl. Raise the pump slightly and insert the pump outlet tube into the base of the Frog/ Dove. Lower the Frog/ Dove and swivel gently to the left.

A click-lock mechanism secures the Frog/ Dove and pump connection.

Fill the main bowl with water.

Please Note: We recommend you use distilled or rain water to prevent scale build up.

Select a suitable location for you solar panel and fix the mounting as shown. Connect the panel and pump together.

IMPORTANT

To ensure the seal remains water-tight twist the pump and panels connectors together rather than merely pressing them together. Check that the small yellow rubber "o" ring remains in its' groove and is not pushed out when connecting. If this ring moves there will be no water seal and the pump and panel will eventually fail.

The Solar Frog/ Solar Dove is now ready to use.

Please note: On first use there maybe air in the pump. It can take up to 5 minutes until all the air is expelled and water begins to pour from Frog/ Dove ledge.

Cleaning and Maintenance

Pump: If, after a period of time, the pump starts to lose power or stops working check for the build up of sediment, scale or dirt in the filter and in the bottom of the pump housing. Remove the pump cover at its' base. Take out the impeller and remove any sediment, scale or dirt that has built up. Replace the impeller and replace the pump cover.

Solar panel: The panel should be cleaned periodically with a soft tissue and proprietary glass cleaning solution. Regular cleaning of the panel is advised to maintain optimum conversion of the sun's energy into direct current.

Trouble Shooting

If you have any problems please contact Smart Solar before returning to the place of purchase. For immediate answers visit our website www.smartsolar.com where you will find an extensive trouble shooting section with frequently asked questions, instant email enquiry forms and place spare part orders.

Pump is noisy and there is no water running through the tube. Take off the pump cover and remove the impeller. If the pump is still noisy without the impeller then seek a replacement. If the noise stops, clean the pump and replace the impeller and cover.

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

Check whether the impeller is blocked by removing the pump cover. If it is, then clean the pump as detailed above.

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

- 1) Check for the build up of sediment, scale or dirt in the filter and in the bottom of the pump housing as detailed above.
- 2) Check whether the pump cover is attached properly. If the pump cover is not pushed down tightly, the pump will not push water through the tube.



Feed the cable connector through the hole



Place the pump under the ledge



Raise the pump and insert into Dove/Frog



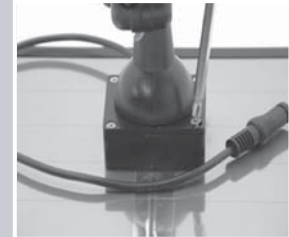
Lower Dove/Frog



Swivel to the left



Solar panel & Stand Kit



Fixing The Panel Holder



Wall Mounted Solar Panel



Stand Mounted Solar Panel



Standing Solar Panel