



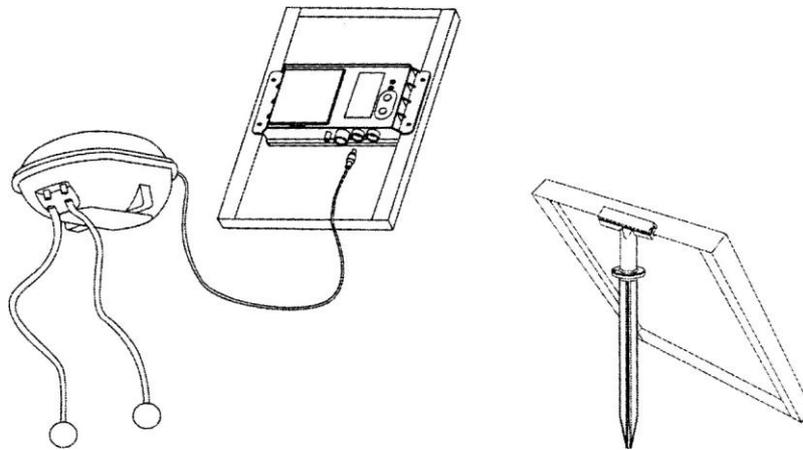
# Night & Day Solar Oxygenator Manual

## INTRODUCTION

Thank you for purchasing the Solar Oxygenator. You have purchased a product that complies with the latest and most up-to-date solar technology available. Please use this information and then file for reference.

The Solar Oxygenator has been designed for use in a pond. A solar panel powers the air pump. The pump drives air through the hose and the air stone. In order for the air pump to operate, the solar module needs to be placed in direct sunlight. The performance of the pump depends on the season, weather & position of the solar module.

## 1. ASSEMBLY



- Unpack all components carefully.
- Install the 4pcs AA size rechargeable battery into the battery case.
- Decide on a suitable location. (**Please note:** The air pump should not be placed on grounds, where water can get through into the pump body).
- Attach the air stone to the hose.
- Attach the hose to the air pump (the air pump mouth).
- Connect the air pump cable to the socket of the control housing on the rear side of the solar panel.
- Connect the spike with the back side of the solar panel and place on a suitable location.

**The Solar Oxygenator is now ready to operate.**

## 2. CAUTION

Do not connect the air pump to any AC voltage power, it is intended ONLY for DC Voltage power.

Operate in freshwater only (never above 50 Deg C) & keep away from flammable liquids.

Do not strike the solar panel.

## 3. OPERATING INSTRUCTIONS

Once installed, allow the solar air pump to charge at least eight hours in direct sunlight in order to fully charge the Battery (install the battery and don't plug-in the air pump on day)

**Mode of "Day":**

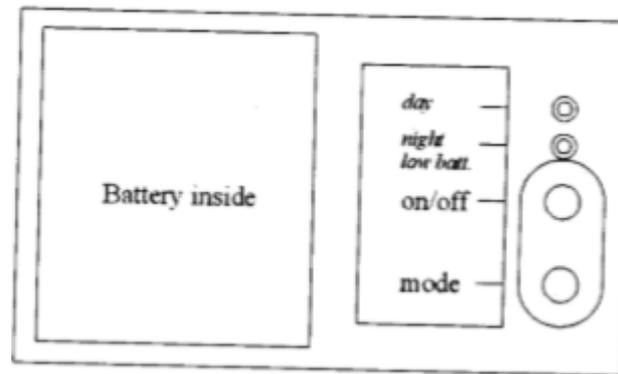
Once you install the battery, the green indicate light "day" will be turn on. The pump will only run in bright or good sunlight conditions. On bright sunny days surplus power will charge the battery for "night" use. The pump will not work on cloudy days or night as there is insufficient power to run the pump.

### **Mode of "Night":**

The Solar panel charges the battery at day and the air pump will only work at night. (If you turn on the night mode at day, the air pump does not run till sunset).

When evening, press the "Mode" button, the red indicator light of the "night" is on. The air pump keeps running at night until the next day sunrise or the battery is flat. On bright sunny days the battery will fully charged. On cloudy days the pump will run for significantly less time.

**Low battery:** If the battery is flat, the red indicate light will blink to show the battery status. Now you need allow the solar panel to charge the pump at least 8 hours in direct sunlight and don't frequently turn on the pump.



## **4. CLEANING AND MAINTENANCE**

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

**Air stone and hose:** Regular cleaning of the build-up of sediment or scale at the air stone and the hose.

**Important: In winter the Solar Oxygenator must be stored in a dry and frost-proof environment.**

## **5. REPLACE BATTERIES**

If the solar pump stops working after it has been used for a long time (about over 12-18 months), maybe the battery is beyond its lifespan. You may open the battery cover to change 4pcs AA size new rechargeable battery.

## **6. FUNCTIONALITY PROBLEMS**

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

- 1) Check the connection of the air pump to the solar panel. If loose then re-connect, rotating the connectors until good contact is made. If any of the cabling is damaged then seek a replacement.
- 2) Check if you turn on the "night" mode, the air pump will only work at "day" mode on day.

**Air pump does operate but there is no air coming out through the air stone.**

Check for the build-up of sediment or scale on the air stone. Clean the air stone.

## 7. TECHNICAL DATA

Solar panel:	1.5W
Operation voltage:	3V-6V DC
Rechargeable Battery:	AA size 1200mAH
Air volume:	2*100LPH
Air stone depth:	Less than I meter underwater
Cable Length:	3m
Hose Length:	2m

Your appliance contains valuable materials which can be recovered or recycled. Leave it at a local civic waste collection point.



## 8. WARRANTY

PondXpert

A3 Bentley Avenue

Billingham

TS23 4BU UK

01642 370898

[www.pondxpert.co.uk](http://www.pondxpert.co.uk)

This product is guaranteed for a period of 12 months from the date of purchase for material or manufacturing defects. The guarantee covers the substitution of defective parts. If your pondXpert pump fails please take it back to the retail outlet from where it was purchased. You will be required to take your receipt/proof of purchase with you. This does not affect your statutory rights.