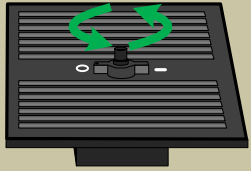


## Operation



The panel and pump assembly is supplied in the off (0) position to protect the battery, rotate switch to operate.

**Note:** Although there may be some initial charge in the battery we recommend fully charging it before first use. Leave the switch in the off position for 1 or 2 sunny days to ensure the battery is fully charged.

## Performance

This product is designed primarily to operate in summer months but will also work in spring and autumn provided there is good sunshine. Performance is directly related to the amount and strength of sunlight received.

### Switch always on (I)



This mode should be used if you want your water feature to operate during the day with consistent performance. The battery provides top up power during overcast conditions and will enable the pump to run on longer in the evening. (See details of performance in various conditions)

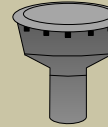
### Switch off (O) until required



This mode should be used if you want your battery to charge so that your water feature can be used regardless of the time of day or weather conditions. The duration of operation will depend on the weather conditions. Leave your water feature off during the day whilst you are out and switch it on during the evening when you can enjoy it. Your feature will even work when it is dark provided there is sufficient charge in the battery. Alternatively leave it off for a number of days to ensure the battery is fully charged for a special event. The battery has capacity to run the pump for up to 6 hours without sun (see typical recharge times in various conditions). Always switch off when not required to conserve power.

Weather conditions	Switch always on (I)	Switch off (O) until required
	Solar runs the pump and charges the battery. Pump performance is maintained when clouds pass the sun. Pump runs on longer in the evening until the battery is flat.	Battery should fully charge in 1 day.
	Solar runs the pump and supplies some charge to the battery. Pump performance is maintained when clouds pass the sun if there is charge in the battery. Pump will only run on longer in the evening if charge has built up in the battery.	Battery will take 2 to 3 days to fully charge.
	Pump will only run when there is sufficient power from the solar panel. Little or no battery charging occurs so pump performance is not maintained and does not run on longer.	Battery will take several days to fully charge.
	No solar power is available, pump will not run and battery will not charge.	Battery will not charge.

## Accessories



The fountain head accessory can be used to enhance your fountain. It will however only work effectively in bright sunlight or if the battery is charged.

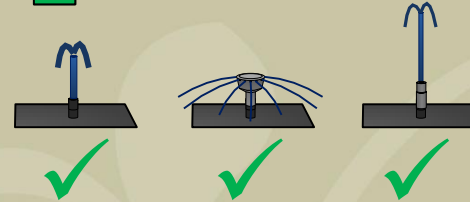


The short nozzle can be used to produce a finer higher stream of water.

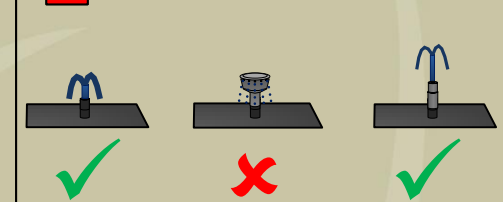
**Note:** Take care when using the short nozzle in bright sunlight as the high water stream may cause splashing that will empty your birdbath. If this occurs simply remove the nozzle or ensure water level is maintained.



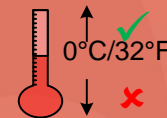
Typical fountain performance when battery is charged. Any accessory can be used.



Typical fountain performance when battery is low.



## Frost



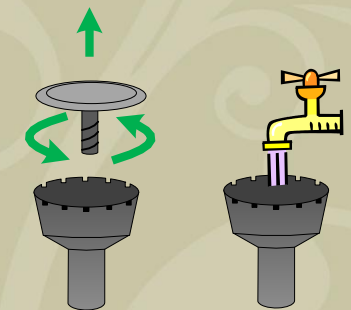
Frost can cause damage to the pump and fountain. The panel & pump assembly **MUST** be removed if the water is likely to freeze. We also recommend storing your entire fountain in a frost proof environment if temperatures are likely to remain consistently below freezing.

## Maintenance

We recommend that you regularly carry out maintenance to ensure optimum performance of your fountain.

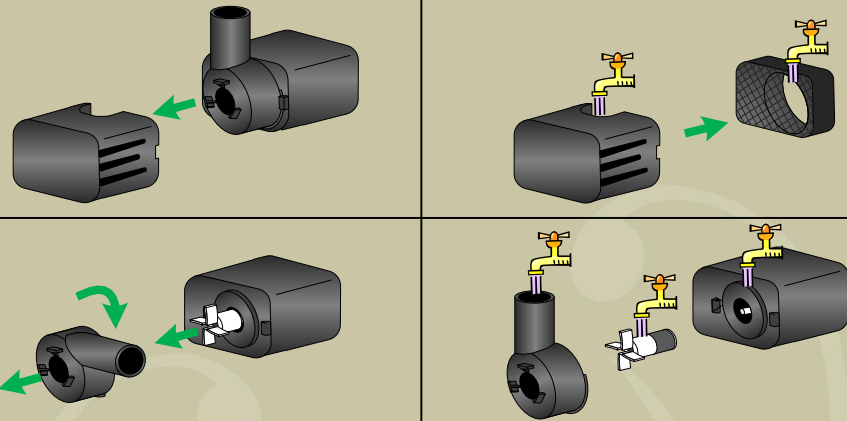


To maintain optimum performance regularly clean the solar panel using water or glass cleaner in conjunction with a non abrasive sponge or cloth.



If the fountain head, nozzle or tubes become blocked rinse through with water.

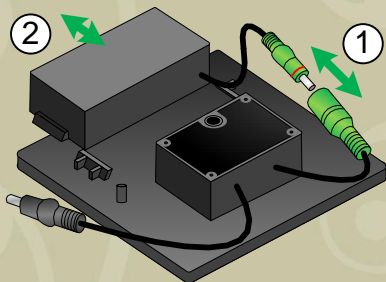
### Pump cleaning



### Battery Information

Rechargeable battery packs become less efficient with repeated charge and discharge cycles. The capacity of the battery may also reduce over time and you may not achieve the 6 hour operation. If you find that the battery appears less efficient or does not run as long we first suggest you try to boost charge it. To do this leave off for 3 to 5 sunny days to allow the maximum charge to the battery. We suggest you do this occasionally anyway to help prolong the battery life. If after this boost charge your battery still does not perform to expectations you should seek a replacement from Smart Solar (available via our website [www.smartsolar.com](http://www.smartsolar.com)). All our battery packs are covered by a 1 year warranty.

### Battery Replacement



#### Battery Removal

Unplug green battery connector (1) and slide out the battery pack (2).

#### Battery Replacement

Plug in the green battery connector (1) and slide in the battery pack (2).



Ni-MH 4.8V 1000mAh



Dispose of battery according to local regulations, recycle when possible.

### Problem Solving

1. Check the fountain is positioned correctly, receiving sunlight and not in shade
2. Check water level and ensure the pump is submerged
3. Check connections between the pump, panel and battery
4. Check tubes, fountain heads and nozzles are clean and unblocked
5. Clean pump and panel as shown and change water
6. Check battery and boost charge it as described above
7. If problems persist contact customer services (refer to contact sheet or website)

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

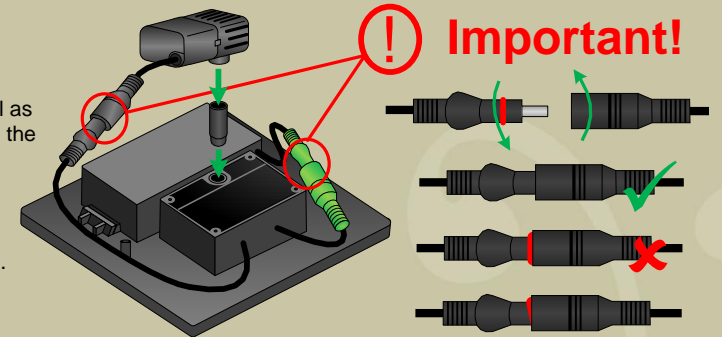


## Athena solar birdbath fountain



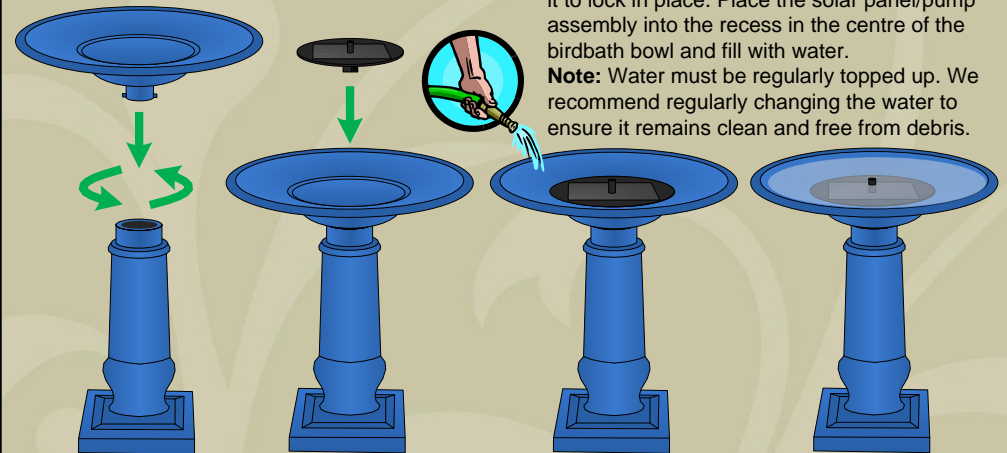
### Assembly

Connect the pump to the underside of the solar panel as shown and check to ensure the connectors are water tight. Slightly twist when pushing together and ensure red sealing ring remains in it's groove and is not displaced.

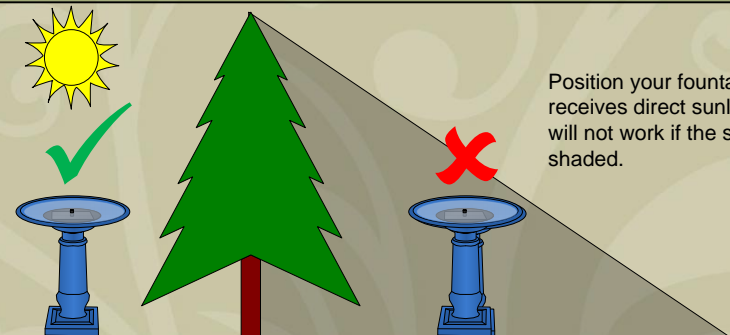


Locate the main bowl onto the pedestal and turn it to lock in place. Place the solar panel/pump assembly into the recess in the centre of the birdbath bowl and fill with water.

**Note:** Water must be regularly topped up. We recommend regularly changing the water to ensure it remains clean and free from debris.



### Position



Position your fountain so that it receives direct sunlight. The fountain will not work if the solar panel is shaded.