



1HP MODELS



SOLAR SURFACE AERATORS AND DISPLAY FOUNTAINS

Benefits of Airolator 1hp Solar Aerators:

- Dedicated solar unit designed for off grid usage.
- Industry proven, 304 stainless steel, submersible motor.
- High speed, foul resistant propellers or impellers, provide high shear water spraying action.
- 1hp (750W) units can run off two to six 270-300 solar panels. *Number of panels required will depend on local ambient lighting.*
- No seals or bearings to maintain.
- Specialised Solar Controller included.
- All units come standard with industry leading Clenergy racking.
- One piece square flotation for stability to minimize any oscillation that can occur with round floats.
- 30m of submersible drop cable included as standard with custom length cable available upon request.
- Motor is covered by a twenty four month warranty.
- Controller or inverter is covered for twelve months when used correctly.



SOLAR SOLUTIONS

Airolator have specialised in aeration systems for over fifty years making the new Solar range one of many quality innovations.

All Airolator aeration systems and decorative fountains in the Water Quality Solutions range are now solar enabled with many units featuring a hybrid motor and options spanning across surface aerators, aerating fountains and aspirating aerators which can be utilised across both domestic and commercial applications, including wastewater processing facilities.

Airolator Carnival Solar Aerating Fountain

The Airolator Carnival Solar Aerating Fountain works via atmospheric oxygen transference. The specially designed Carnival aerating nozzle separates the water column being pumped through the system into millions of micro droplets. Upon returning to the lake/dam/lagoon these micro droplets generate 360 degree turbulence. This greatly increases the air to water interface and allows for the transference of atmospheric oxygen into the water body.

Water Turnover	1,250 lpm
O2 Transfer	0.9kg p/h
Spray Height	0.5m
Spray Diameter	2.5m



Airolator Enterprise Solar Aspirating Aerator

The Airolator Enterprise Solar Aspirating Aerator is designed for use within wastewater and processing lagoons. The high volume propeller design of this unit operates within a close tolerance throat and discharges a mix of rapidly moving aerated liquid into the water body. This effect is achieved by propelling water through the throat and into a scientifically designed venturi nozzle which doubles the velocity of the fluid and generates a low pressure area within the air intake.

Water Turnover

1,250 lpm



Airolator Aquarian Professional

Solar Surface Aerator

The Airolator Aquarian Professional Solar Surface Aerator mixes and aerates simultaneously.

Water is pumped through the unit's high velocity propeller and into the air via a specialised diffuser causing a shearing effect. The separated stream of water is then circulated through the atmosphere and back into the water body. In addition to providing aeration, this generates a mixing effect, preventing stratification and promoting continuous turnover.

Water Turnover	1,800 lpm
O2 Transfer	1.0kg p/h
Spray Height	0.5m
Spray Diameter	2.0m



Airolator Centrifugal Solar Display Fountains

The Airolator Centrifugal Solar Display Fountain is designed to improve the aesthetic of your water body. The unique centre discharge pump design of the Centrifugal Display Fountain keeps the submersible motor's shaft and discharge in a vertical position. This allows the unit to create a high pressure output which improves display performance and decreases horsepower requirements far below those of similar equipment.

The Airolator Centrifugal Solar Display Fountain can be operated with any of the five Airolator decorative nozzles:



DIANA NOZZLE

Spray Height	3.0m
Spray Diameter	5.0m



GALAXY NOZZLE

Spray Height

4.0m

Spray Diameter

6.0m



NORTHSTAR NOZZLE

Spray Height

3.0m

Spray Diameter

6.0m



NOVA NOZZLE

Spray Height

2.0m

Spray Diameter

n/a



SOLACE NOZZLE

Spray Height

2.0m

Spray Diameter

3.0m

Please Note: Display Units are not intended as aeration. If aeration is desired, please purchase the Carnival Solar Aerating Fountain. If you would like both aeration and decoration, a changeover kit can be purchased for both aerating and display units which allows the user to easily switch between functions.

When applying a changeover kit, the user is not required to swap their motor, cable or float.

This is a feature unique to Airolator products.

Those with decorative units wishing to change their appearance can easily swap their nozzle at any time without need for further changes to the set up of their fountain.

All 1hp Airolator Solar units are dedicated DC current and cannot be used with mains grid power.

Users looking for flexible power options should consider a 1.5hp or 3hp hybrid unit.

Units shown within this brochure are operating off four panels. All dimensions, flow rates and O2 transfer readings are approximate only. Conditions at time of testing were fair.