

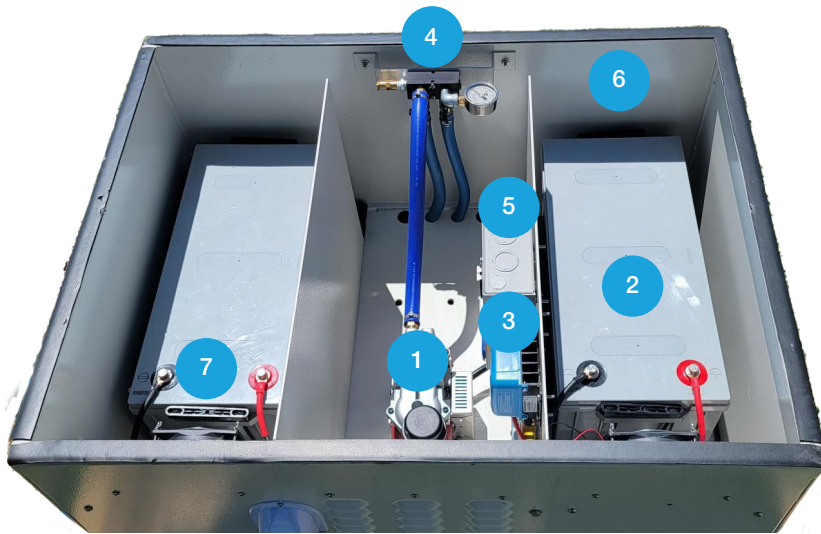
# AquaElite™ **HeliosAir**

Solar Aerator with Battery Back Up



# HeliosAir at a Glance

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- 1. 24v DC Rocking Piston Compressor
- 2. (2) 200Ah AGM Batteries
- 3. Bluetooth Enabled Solar Controller
- 4. Valve Manifold/PRV/Pressure Gauge
- 5. Panel Box
- 6. Lockable Powder Coated Aluminum Cabinet
- 7. (2) 6" Cooling Fans

## How it Works

AquaElite HeliosAir offers a revolutionary solar aeration system with battery back up. Using the power of the sun, this system will provide aeration for ponds up to 2.5 acres for up to 20hrs/day. HeliosAir provides the highest CFM on the market and is a turnkey system - only concrete is needed to set the vertical post!

The shore mounted rocking piston compressor produces compressed air from a weighted airline through a membrane diffuser located on the bottom of the pond. The compressed air is released into the water through the membrane diffuser releasing thousands of fine bubbles which rise to the surface. As the bubbles of air rise, oxygen is transferred into the water. Simultaneously, water is pulled upward, creating a flow of water from the bottom of the pond to the surface.

## Advantages

- System can be installed in rural environments where power is not available
- Aeration throughout the night
- In many cases, this system could be much more affordable than running power to the pond and has significantly lower operating cost.
- Lower maintenance and service costs due to no moving parts in the water
- Safer swimming as the HeliosAir system does not require electricity to be in the pond.
- Eliminates thermal stratification, making it ideal for deep-water applications up to 20ft depth
- Improves water quality and clarity
- Off-grid = No additional monthly utility costs!



## Performance Data

System Components	HeliosAir (Base)
Item #	Helios BBT
Recommended Pond Size	Up to 2.5 acres
24v DC Solar Compressor	1
CFM @ 5PSI	2.2
Powder Coated Aluminum Cabinet	1
Cooling Fans with Guards	2
# of Valves	Up to 3
# of 200 Ah Deep Cycle Batteries	2
Bluetooth Solar Controller	1
Solar Panels	2 - 60 Cell Monocrystalline
Solar Panel Racking Included	Yes
Included Vertical Mounting Pole	3" x 7ft
Pressure Relief Valve	1
Rolls of 100' Weighted Airline - 1/2"	Custom
Rolls of 500' Weighted Airline - 1/2"	Custom
Single Disc Diffusers	Custom
Double Disc Diffusers	Custom
Maximum Diffuser Depth	20'
Maximum Airline Length	500ft
Cabinet Dimensions	32"x 36" x 20"
Solar Panel Dimensions	40" x 66" each

## Key Features

- 2 high output solar panels with easy install racking system—over 600 watts!
- 2 deep cycle AGM 200 Ah batteries
- Bluetooth enabled solar controller
- Quiet Quantum™ 24v brushless piston compressor
- 2.2 CFM output at 5 psi
- 2 high output fans on every system for optimal cooling
- Powder coated aluminum cabinet with secure locking system
- OWS Optimal Air™ self-cleaning rubber membrane diffusers with weighted base
- Aerates up to 20' deep





# System Maintenance & Warranty

## System Warranty

- 3 year compressor (Does not include wear items)
- 2 year MaxEnergy Controller
- 5 year Diffuser/Base and Airline
- 15 year Solar Panels
- Lifetime against rust on cabinet

## System Maintenance

- Replace filter(s) every 6 months
- Install compressor maintenance kit(s) every 2-3 years

## HeliosAir Accessories

### Weighted Airline

**ARL0033** - 100' of 1/2" Weighted Airline

**ARL0073** - 500' of 1/2" Weighted Airline

**ARL0303** - 100' of 5/8" Weighted Airline

**ARL0304** - 500' of 5/8" Weighted Airline

### Diffusers

**ARS0390** - Single round rubber membrane diffuser with self sinking base, 3/8" & 1/2" barb fitting

**ARS0387** - Single round rubber membrane diffuser with self sinking base, 5/8" barb fitting

**ARS0391** - Double round rubber membrane diffuser with self sinking base, 3/8" & 1/2" barb fitting

**ARS0388** - Double round rubber membrane diffuser with self sinking base 5/8" barb fitting

**ARS0458** Quad round rubber membrane diffuser with self sinking base, 5/8" barb fitting



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