



## Solar Sub-Surface Aeration System

Our Solar Sub-Surface Aeration System provides an effective off-the-grid solution to maintaining a more healthy aquatic environment.





### Solar Subsurface Aeration System

- 2 – 36-cell solar modules with fully adjustable top-of-pole racking
- Pole mount hardware (**pole not included**)
- Individual rocker-style circuit breakers
- 1 Brushless rocking piston compressor
- 2.5 SCFM/ 30'+ / 25 psi
- Brass automatic pressure relief valve
- Liquid-filled, stainless steel pressure gauge
- 2 – Full-flow brass ball valves
- <65 db @ 6'
- 2 – 3/8" x 100 feet airline
- 2 – Self weighted diffusers
- 78 CFM Automatic active ventilation



### Solar XL Subsurface Aeration System

- 2 – 60-cell solar modules with fully adjustable top-of-pole racking
- Individual rocker-style circuit breakers
- Pole mount hardware (**pole not included**)
- 2 - dual brushless rocking piston compressors
- 5 SCFM/ 30'+ / 25 psi
- Brass automatic pressure relief valve
- Liquid-filled, stainless steel pressure gauge
- 4 – Full-flow brass ball valves
- <55 db @ 6'
- 4 – 3/8" x 100 feet airline
- 4 - Self weighted diffusers
- 110 CFM Automatic active ventilation

**Solar Array** Our Solar Sub-Surface Aeration System provides all of the benefits of traditional aeration without the costly batteries, AC wiring, and ongoing expense of grid power. Even during cloudy conditions our Solar Sub Surface Aeration System provides low-maintenance, high-volume solar aeration on any site.



**Simple Plug and Play Wiring**

### Highlights

- Racking is fully adjustable top-of-pole
- Tilt adjustment 0 to 60°
- Steel parts are Laser-cut for accuracy, MIG welded and have a baked-on powder coat finish.

### Materials Specifications

Extrusion Alloy	6360, Anodized Clear T6 Hardness, .2-.25mil Thickness
Wind Load Rating	100 MPH @IBC
Codes & Standards	Structural Steel ASTM A36, A53 Galvanizing ASTM A123M Plating ASTM B633
Fasteners & Hardware	Galvanized A325 Stainless Steel Type 316

**Diffuser** Utilizing aeration tubing instead of industry-standard rubber membranes, these diffusers offer greater flow rates with much lower backpressure. With hidden benefits like reduced system wear and extended life on compressors, use them to improve the effectiveness of any aeration system. Each diffuser is ruggedly constructed using high-quality, American-Made components with a proven history of durability.



**Higher Flow  
Lower Pressure  
Smaller Bubbles  
Greater Diffusion**

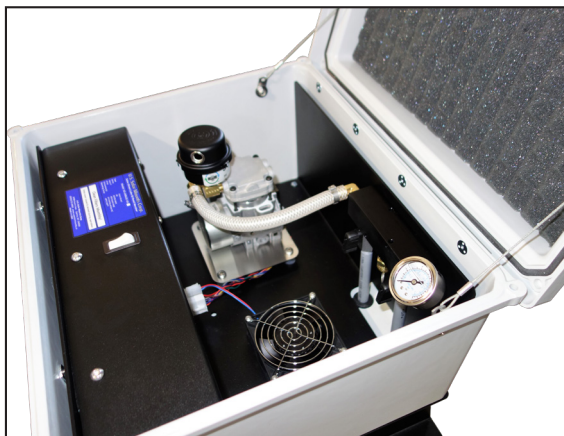
### Highlights

- 36" of high-efficiency aeration tubing made from virgin EDPM rubber
- Virtually no added backpressure
- Check valve included
- Lightweight design for shipping and handling
- Pre-weighted base - no fill required
- Stainless steel - completely corrosion resistant
- Unique design
- Built-in handle for easy deployment
- Included hose strain relief
- Easy to clean and very low maintenance
- Effective up to 50' depth
- 3mm bubbles for increased diffusion rates

**Compressor and Control Unit** Each unit is ruggedly constructed using high-quality, American-Made components with a proven history of durability. Fiberglass reinforced enclosure secures digital motor controller and brushless compressor(s). All components are engineered and tested for unmatched reliability, providing years of trouble-free operation. The entire system is designed to allow quick and easy installation by anyone, using just a few basic hand tools.

### Highlights

- Digital 24V BLDC motor 143W / 266W
- Max flow 2.5 CFM / 5 CFM
- Rated depth 30' +
- Brass automatic pressure relief valve
- Sound Level <65db @ 6'
- High-capacity active-cooling enclosure
- Coverage up to 5 Acres depending on model



**Digital Motor Controller - 3X the System Life**

- Filtered compressor air intake
- 2 or 4 external connection ports w/fittings
- Fiberglass reinforced enclosure
- Powder coated steel components
- Integrated low-frequency sound reduction system
- All-welded steel base with powder coat finish
- External air connection ports for ease of installation
- Washable and re-usable primary air intake filter
- Rubber compressor isolation mounts
- Liquid-filled, low-temperature pressure gauges
- Stainless steel locking hasps and hardware will not rust
- High temperature protection
- Electronic over-current protection
- High-flow ball bearing cooling fan
- Dramatically increased run hours
- 2-Year standard warranty

SPECIFICATIONS		
	Solar Subsurface Aeration System	Solar XL Subsurface Aeration System
Solar Module(s)	2x 36-Cell Modules, upgrades available	2x 60-Cell Modules
Racking	Fully Adjustable Top-of-Pole, Various Options Available	
Circuit Protection	Individual Rocker-Style Circuit Breakers	
COMPRESSOR		
Compressor Type	Brushless Rocking Piston	Dual Brushless Rocking Piston
Max Flow/ Depth	2.5 SCFM/ 30'+ / 25PSI	5 SCFM/ 30'+ / 25PSI
Over-Pressure	Brass Automatic Pressure Relief Valve	
Pressure Gauge	Liquid-Filled, Stainless Steel Gauge	
Flow Balancing	2x Full-Flow Brass Ball Valves	4x Full-Flow Brass Ball Valves
Sound Level	<65db @ 6'	<55db @ 6'
Air Intake	Washable & Reusable slide-in Primary Filter	
THERMAL MANAGEMENT		
Compressor Cooling	78 CFM Automatic Active Ventilation	110 CFM Automatic Active Ventilation
High-Temp Limit	Yes - With Automatic Re-Start	
AIR DISTRIBUTION		
Hose Connections	2x 3/8" Barb	4x 3/8" Barb
Diffuser Types	Works with any style diffuser	
MATERIALS & FINISHES		
Enclosure	ULTRAGUARD™ Fiberglass Reinforced Polyester Compression Molded Non-Corrosive/ Non-Conductive Continuous, Poured-in-Place Gasket 316 Stainless Steel Hardware	
Mounting Type	Ground Mount	
Steel Components	Formed Carbon Steel with Polyester Powder Coat	
Aluminum Rails	6360 T6 Anodized, .2-.25mil Thickness	
Codes & Standards	Structural, ASTM A36, A53 Plating ASTM B633	
Enclosure Weight	50 lbs	66 lbs
Coverage	Up to 2 acres	Up to 5 acres, larger systems available
APPLICATIONS		
<ul style="list-style-type: none"> <li>• Ponds &amp; Lakes</li> <li>• Storm Water</li> <li>• Golf Courses</li> <li>• Frac Pit Normalizing</li> </ul>	<ul style="list-style-type: none"> <li>• Livestock Watering</li> <li>• Cranberry Growers</li> <li>• Parks</li> <li>• Sewage Systems</li> </ul>	<ul style="list-style-type: none"> <li>• Fish Farms</li> <li>• Aquatic Engineering</li> <li>• Preppers</li> <li>• Irrigation</li> </ul>
		<ul style="list-style-type: none"> <li>• Weed &amp; Algae Control</li> <li>• Habitat Management</li> <li>• Gate De-Icing</li> <li>• Marinas</li> </ul>



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