



Brushless Solar Direct Lake Aerators

SD1, SD2 & SD4

The **Professional-Grade BLDC** family of Solar Lake Aerators brings aeration to a new level of quality. Even during cloudy conditions, they provide **low-maintenance, high-volume Solar Aeration** on any site. ROI is maximized by eliminating batteries, AC wiring, and the ongoing expense of grid power.

Each unit is ruggedly constructed using high-quality, **American-Made** components with a proven history of durability. Brushless Compressors offer unmatched reliability, providing years of **trouble-free** operation. Thoughtful system design allows quick and easy installation by anyone, using just a few basic hand tools.

To back it all up, every BLDC system comes with an **Industry-Exclusive 5-Year Warranty***.

Innovative Design, Inside & Out

SD-BLDC Features:

- Integrated Low-Frequency Sound Reduction System
- External Air Connection Ports for ease of installation
- Washable and Re-Usable Primary Air Intake Filter
- Dramatically increased daily run hours
- All-Welded Steel Base with Powder Coat Finish
- Rubber Compressor Isolation Mounts
- Compact Size
- Liquid-Filled, Low-Temperature Pressure Gauges
- Works with any brand of diffuser
- 100% Factory Testing ensures high quality
- Stainless Steel Locking Hasps & Hardware will not rust
- Over-Temperature Protection
- Electronic Over-Current Protection
- High-Flow ball bearing cooling fan



SLA-SD1-BLDC without door shown



SLA-SD2-BLDC Shown



SLA-SD4-BLDC Shown

Digital Motor Controller

3X the system life

100% American-Made

*On all non-wearable parts
Photos not to scale

Specifications

	SLA-SD1-BLDC	SLA-SD2-BLDC	SLA-SD4-BLDC
Power & Electrical			
Solar Module(s)	2x 100-Watt Modules, upgrades available		2x 60-Cell Modules
Racking	Pole-Mount	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	N/A	Liquid-Filled, Stainless Steel Gauge	
Flow Balancing	N/A	2x Full-Flow Brass Ball Valves	4x Full-Flow Brass Ball Valves
Sound Level	<65db @ 6'		<55db @ 6'
Air Intake	N/A	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	1x 3/8" Barb	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	2", 3", or 4" Pole Mount	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	20 lbs	50 lbs	66 lbs
Coverage	Up to 1 Acre	Up to 2 acres	Up to 5 acres, larger systems available
Applications:			
<ul style="list-style-type: none"> ● Ponds & Lakes ● Storm Water ● Golf Courses ● Frac Pit Normalizing 	<ul style="list-style-type: none"> ● Livestock Watering ● Cranberry Growers ● Parks ● Sewage Systems 	<ul style="list-style-type: none"> ● Fish Farms ● Aquatic Engineering ● Preppers ● Irrigation 	<ul style="list-style-type: none"> ● Weed & Algae Control ● Habitat Management ● Gate De-Icing ● Marinas