

Brushless Solar Direct Lake Aerators

SD1, SD2 & SD4

Our **Professional-Grade** Solar Direct Lake Aerators bring 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 U.S. Solar Mounts aeration 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
- Dramatically increased daily run hours
- Rubber Compressor Isolation Mounts
- Compact size with a clean, pole-mount design
- Cabinet will never rust or corrode
- 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-SD4-BLDC Shown

Digital Motor Controller

3x the system life

100% American-Made

Specifications

	SLA-SD1-BLDC	SLA-SD2-BLDC	SLA-SD4-BLDC
Power & Electrical			
Solar Module(s)	1 High-Efficiency, High-Output Module		2 High-Efficiency, High-Output 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	2.8 SCFM / 30’+ / 25PSI		5.6 SCFM / 30’+ / 25PSI
Over-Pressure	Brass Automatic Pressure Relief Valve		
Flow Balancing	N/A	2x Full-Flow Brass Ball Valves	4x Full-Flow Brass Ball Valves
Sound Level	<65db @ 6’		<55db @ 6’
Air Intake	Compressor intake filter/silencer with replaceable cartridge.		
Thermal Management			
Compressor Cooling	75 CFM Auto Active Ventilation	138 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		
Pole Requirements	3” SCH 40 Steel Pole, 3.5” OD		
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	23 lbs	30 lbs	35 lbs
Coverage	Up to 1 Acre	Up to 2 acres	Up to 5 acres, larger systems available
Applications:			
● Ponds & Lakes	● Livestock Watering	● Fish Farms	● Weed & Algae Control
● Storm Water	● Cranberry Growers	● Aquatic Engineering	● Habitat Management
● Golf Courses	● Parks	● Preppers	● Gate De-Icing
● Frac Pit Normalizing	● Sewage Systems	● Irrigation	● Marinas