

## Solar Direct Lake Aerators

## Model SD4

The **SD Series of Solar Lake Aerators** is a Professional-Grade Solar Aeration System designed to provide high-volume, reliable aeration for remote and off-grid sites. It is designed to operate efficiently using nothing but solar power with no batteries.

Each unit is ruggedly constructed using high-quality components that have a proven history of durability. In addition to industry-leading quality, the SLA-SD-4 is loaded with industry-exclusive features.

While the rest of the industry continues to simply “put parts in a box”, the SD-4 is in a class of its own – especially when it comes to sound reduction. Sound absorption foam has a limited effect on high-frequency sound, but does almost nothing to curb low-frequency sound. The SD-4 was engineered with an integrated low-frequency sound reduction system built right in, making it super quiet. At full speed, the sound level is only 55db!

**American-Made** materials are used throughout the **SLA** to ensure reliable, trouble-free operation for years to come.

The SLA series aerators are the finest solar aerators available. In addition, they are easily installed by anyone using just a few basic hand tools.

Engineered from the ground up, our SLA Series is built tough by Certified Solar Professionals. U.S. Solar Mounts products are crafted by people who truly take pride in what we build and we know that you will, too.

### SD-4 Features:

- **Engineered and Built in the USA**
- 5 CFM Air Flow from Dual High-Efficiency Compressors
- Works with any brand of diffuser
- Full-Spectrum Sound Reduction System
- Stainless Steel Locking Hasps & Hardware will not rust
- 100% Factory Testing ensures high quality
- Over-Temperature Protection
- Electronic Over-Current Protection
- Dual High-Flow ball bearing cooling fans
- Low-Voltage Disconnect with Auto-Reconnect
- Digital Controller adjusts for varying solar conditions
- Complete Standard Warranty

### Industry-Leading Features:

- **Integrated Low-Frequency Sound Reduction System**
- Manifold **Bypass Valve**
- External Air Connection Ports for ease of installation
- **Washable and Re-usable** Primary Air Intake Filter
- **All-Welded Steel Base** with Powder Coat Finish
- Compressors are mounted on **Rubber Isolation Mounts**
- Dual Liquid-Filled Low-Temperature Pressure Gauges



SLA-SD4 Aerator

### Benefits of Solar-Direct Aerators

**Completely Eliminates batteries** and costly replacements

Lower cost than any Battery-Based system

Simpler design with fewer parts & less maintenance

Smaller, Low-Profile cabinet and overall design

# SLA-SD4 Specifications



## Power & Electrical

Solar Module(s)	4x 100-Watt Modules Standard
Racking	Fully Adjustable Top-of-Pole, Various Options Available
Circuit Protection	Individual Rocker-Style Circuit Breakers

## Compressor

Type	Dual High-efficiency DC Diaphragm – <b>Made in USA</b>
Max Flow/Depth/PSI	5 SCFM / 20' / 25PSI
Over-Pressure	2x Brass Automatic Pressure Relief Valve
Flow Balancing	4x Full-Flow Brass Valves
Sound Level	55db @ 6'



## Thermal Management

Air Intake	Washable and Reusable slide-in Primary Filter
Enclosure Cooling	156CFM Automatic Active Ventilation
High-Temp Limit	Yes, With Automatic Re-Start
Compressor	Dual long-life Compressor Cooling Fans



## Air Distribution

Connections	4x External Connection Ports w/fittings for 1/2" ID hose
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
-----------	---

Steel Components	Formed Carbon Steel Polyester Power Coat
------------------	---

Aluminum Rails	6360 T6 Anodized	.2-.25mil Thickness
----------------	------------------	---------------------

Codes & Standards	Structural	ASTM A36, A53 Plating ASTM B633
-------------------	------------	---------------------------------

Enclosure Weight	86Lbs, including base
------------------	-----------------------

Coverage	Base system up to 5 acres. Larger systems are available.
----------	--

Applications:	<ul style="list-style-type: none"> <li>• Ponds &amp; Lakes</li> <li>• Fish Farms</li> <li>• Sewage Systems</li> <li>• Aquatic Engineering</li> <li>• Golf Courses</li> <li>• Preppers</li> </ul>	<ul style="list-style-type: none"> <li>• Livestock Watering</li> <li>• Weed &amp; Algae Control</li> <li>• Cranberry Growers</li> <li>• Habitat Management</li> <li>• Parks</li> <li>• Gate De-Icing</li> </ul>
---------------	--	---



Dealer: