



# SD-Series

# US Solar Mounts Solar-Direct Lake Aeration



SD-4 Shown

**Our Solar-Direct Aerators bring Professional-Grade aeration to your lake or pond, even in cloudy conditions. They increase water quality, eliminate stratification, increase dissolved oxygen and improve water clarity for a healthier ecosystem. Enjoy all the benefits of aeration, without the need for batteries or AC wiring. They require very minimal upkeep and have no monthly electric costs.**



## SOLAR DIRECT

The SD-Series Aerators convert solar energy directly into 3-phase power to operate piston air compressors. Eliminating batteries and associated parts mean higher efficiency and fewer components for you to maintain. Up-front costs are greatly reduced by installing our SD-Series systems on your pond.



## HIGH EFFICIENCY

With industry-leading efficiency reaching 98%, these systems pay for themselves in just a few short years. Our high conversion efficiency combined with high power solar panels means that your system will operate during cloudy and adverse weather conditions.



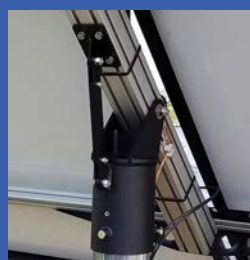
## EASY INSTALLATION

Our systems have been designed from the ground up for easy installation. No special tools or skills are required. Whether you are professional installer or a DIY'er, everyone appreciates the innovative design, quality construction, and ease of installation.



## WARRANTY & SUPPORT

If you need some help, we've got you covered. Product selection, system design and technical help are just a phone call away. Our Technical Support is 100% US-Based and in-house.



## Rugged Mounts

Our solar racking systems are designed to take anything Mother Nature can throw at them. Steel components are precision laser cut, MIG welded and powder coated for durability. The aluminum extrusions are anodized and we use Stainless Steel hardware on all racking.



## DB-36 Diffusers

US Solar Mounts manufactures the best diffusers on the market. Constructed of Laser-Cut Stainless Steel, they are designed for the long haul in the harshest environments. Our diffusers use highly-efficient Aero-Tube, which outperforms and outlasts membrane style disc diffusers many times over. Includes a Limited Lifetime Warranty.



Call us today to get started!



## Solar-Direct Aerator Specifications

SD-1	SD-2	SD-4
Up to 1 Acre	Up to 2 acres	Up to 5 acres, larger systems available

Power & Electrical		
Solar Module(s)	1x or 2x USA-Made Mono-Crystalline	2x USA-Made Mono-Crystalline
Racking	Fully Adjustable Top-of-Pole, Various Options Available	
Wind Load Rating	90 MPH	
Circuit Protection	Individual Thermal-Magnetic Circuit Breakers: Solar Input, Compressor(s)	

Compressor		
Compressor Type	3-Phase Brushless Rocking Piston	Dual 3-Phase Brushless Rocking Piston
Air Flow	2.8 SCFM	5.6 SCFM
Operating Depth	2'-40' Water Depth	
Over-Pressure	Brass Automatic Pressure Relief Valve	
Flow Balancing	2x Full-Flow Brass Ball	4x Full-Flow Brass Ball Valves
Sound Level	<60db @ 6'	<50db @ 6'
Air Intake	Compressor intake filter/silencer with replaceable cartridge.	

Thermal Management		
Compressor Cooling	75 CFM Auto Active Ventilation	150 CFM Auto Active Ventilation
High-Temp Limit	Yes - With Automatic Re-Start	

Air Distribution			
Hose Connections	1x 3/8" Brass Barb	2x 3/8" Brass Barb	4x 3/8" Brass Barb
Diffuser Types	Includes our DB-36 Stainless Steel Diffusers. Works with any style diffuser		

Mechanical			
<b>Enclosure</b>		<b>Solar Racking</b>	
Material	All Welded Laser Cut Steel	Aluminum	6061-T6 Anodized Aluminum Extrusion
Finish	Baked-On Polyester Powder Coat	Steel Parts	Laser-Cut & Welded Steel
Hardware	Stainless Steel	Hardware	Stainless Steel
Rating	NEMA 4/3R	Pole Size	3" SCH40/80 (Installer Supplied)
Insulated	Yes, Optional	Tilt	Adjustable Tilt, 0-60°
		Standards:	ASTM A36, A53 Plating ASTM B633
Enclosure Weight	27 lbs	30 lbs	37 lbs
Dimensions	12.8w x 15.25h x 10.3d	12.8w x 15.25h x 10.3d	15.5w x 18h x 11.3d

Applications			
<ul style="list-style-type: none"> <li>● Ponds &amp; Lakes</li> <li>● Livestock Watering</li> <li>● Fish Farms</li> <li>● Open Water for Wildlife</li> </ul>	<ul style="list-style-type: none"> <li>● Storm Water</li> <li>● Cranberry Growers</li> <li>● Aquatic Engineering</li> <li>● Habitat Management</li> </ul>	<ul style="list-style-type: none"> <li>● Golf Courses</li> <li>● Parks</li> <li>● Preppers</li> <li>● Gate De-Icing</li> </ul>	<ul style="list-style-type: none"> <li>● Frac Pit Normalizing</li> <li>● Sewage Systems</li> <li>● Irrigation</li> <li>● Marinas</li> </ul>