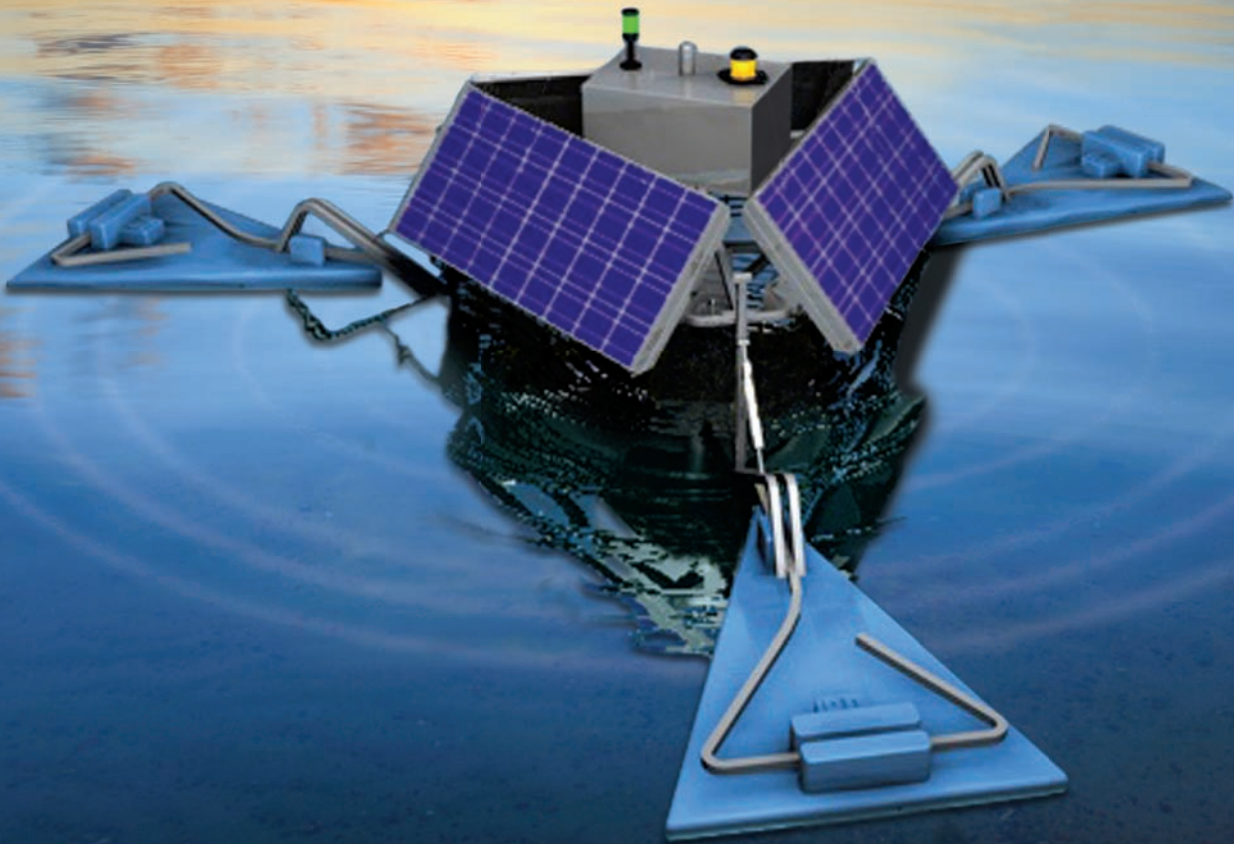


ECO-AERATION


LumenAER™



REDUCE AERATION AND MIXING COSTS

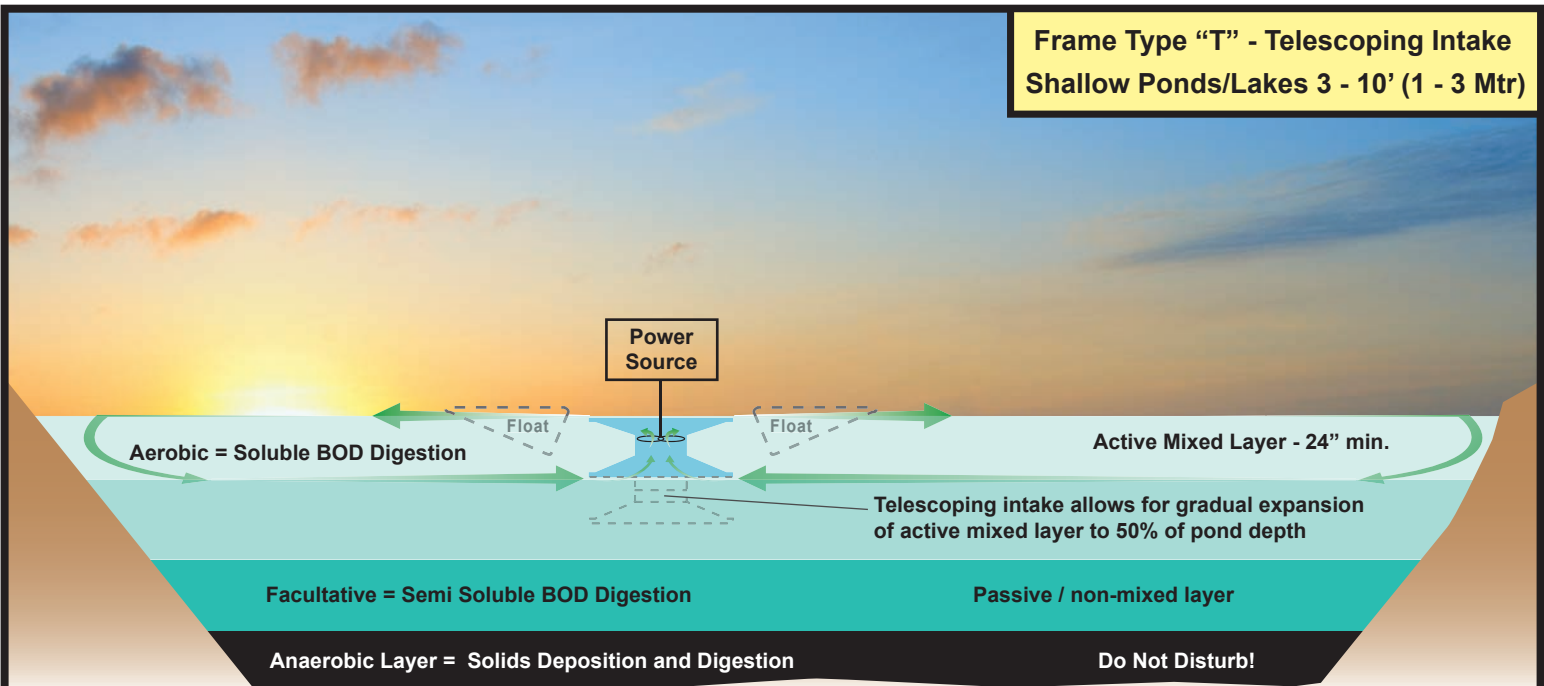
AEROMIX

Rugged Solutions in Water and Wastewater

<p>SS Model Variable Speed Mixing Volume .5 MGD Sum. .35 MGD Win.</p>	<p>Solar unit operates from Sunup to Sundown via (3) 55 watt panels to power a 15 volt DC brush motor. Operating speed solely based on solar energy.</p> <p>Designed for non-aerated applications with 60 plus days of retention time.</p>	
<p>SE Model Constant Speed Mixing Volume 1.3 MGD</p>	<p>Solar with Electric backup provides 24/7 operation. 24 volt brushless DC motor with automatic switching based on solar/grid energy. Consumes less grid energy than 50 watt light bulb.</p> <p>Designed for applications with 15-60 days detention where electricity is available and constant mixing is required. Often used in combination with other electric aerators to reduce energy costs.</p>	
<p>SB Model Constant Speed Mixing Volume 1.2 MGD Sum. .72 MGD Win.</p>	<p>Solar with Battery for 24/7 operation via (3) 123 watt panels and 2-12 volt DC batteries in series to power a 24 volt brushless DC motor.</p> <p>Designed for applications where grid power is unavailable yet continuous mixing is required in ponds with 15-60 days of retention.</p>	
<p>DA Model Constant Speed Mixing Volume 1.3 MGD</p>	<p>Diffused Air uses a low pressure blower to supply air to a series of fine bubble diffusers. Blower can be solar or electric.</p> <p>Designed for small, highly loaded ponds with short detention times. Often used in combination with other aerators to improve and lower mixing and energy needs.</p>	
<p>EM Model Constant Speed Mixing Volume 1.44 MGD</p>	<p>Low voltage Electric Mixer uses a brushless motor with 110 VAC power supply. Control panel designed for auxiliary input of DO & PH meters and options to activate other aerators.</p> <p>Designed for heavily loaded, short detention ponds with low solar availability that are mixing limited.</p>	
<p>WP Model Variable RPM Mixing Volume .3 - .8 MGD</p>	<p>Wind Powered unit used for lake and large pond applications with long retention times. Operates at 5-100 mph to provide vertical mixing as a way to eliminate stratification and control algae.</p>	

Volume Shown Above = Daily Direct Flow Placed on the Surface and drawn from intake depth(s)

Frame Type "T" - Telescoping Intake
Shallow Ponds/Lakes 3 - 10' (1 - 3 Mtr)



REDUCE

Algae
 Odors
 FOG (Fats, Oils, Grease)

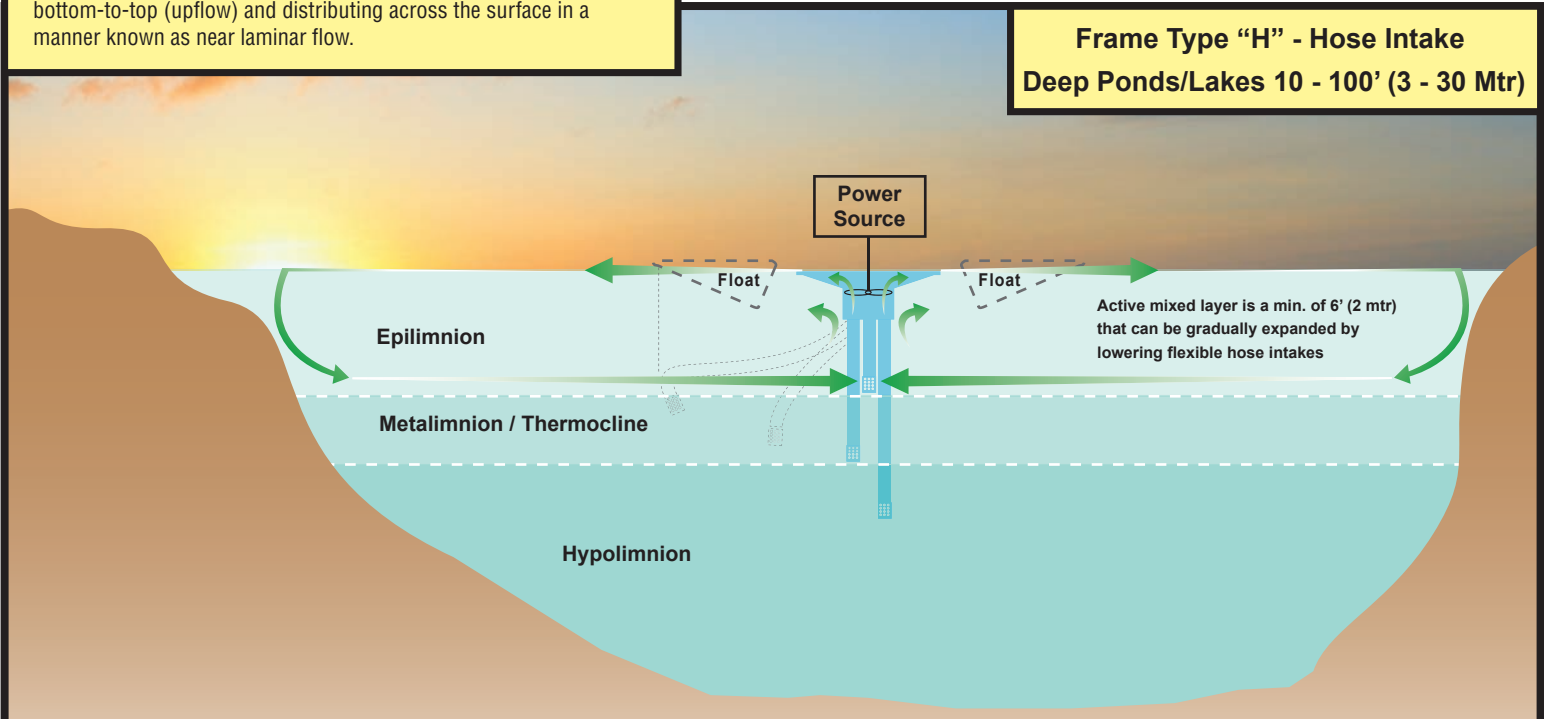
BOD/TSS/NH3
 Short-Circuiting
 ENERGY

INCREASE

Dissolved Oxygen
 Evaporation
 MCRT (Mean Cell Residence Time)

CMS™ Process Controlled Mix Stabilization is a renewable or low energy way to increase natural re-aeration by circulating from bottom-to-top (upflow) and distributing across the surface in a manner known as near laminar flow.

Frame Type "H" - Hose Intake
Deep Ponds/Lakes 10 - 100' (3 - 30 Mtr)



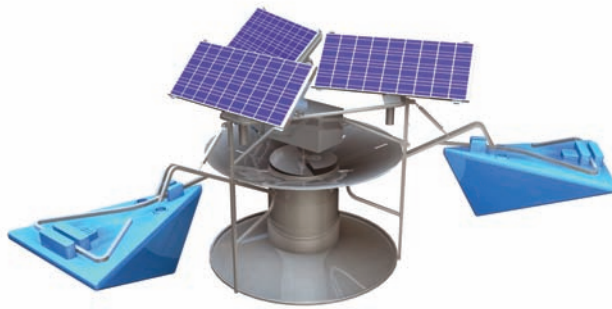
Specifications Common to all Models

- Stainless steel construction (304 standard, 316 optional)
- Adjustable depth intake
- Foam filled floats - US Coast Guard approved
- 2 year warranty, 10 year motor life, 25 year service life
- 2 Year Warranty
- No ongoing service/simply assembly/installation
- Shore to shore or single point anchoring option
- Made in USA



LumenAER™

“Solving the pond performance puzzle.”



APPLICATION GUIDE

Days of Retention	Suggested Model							Surface acres per unit
	0 - 5	5 - 10	10 - 30	30 - 60	60 - 90	90 - 180	180+	
0 - 5	DA/EM	DA/EM	DA/EM	DA/EM	DA/EM	DA/EM	DA/EM	1 - 2
5 - 10	SB/SE	SB/SE	SB/SE	SB/SE	SB/SE	DA/EM	DA/EM	2 - 4
10 - 30	SB/SE	SB/SE	SB/SE	SB/SE	SB/SE	SB/SE	DA/EM	3 - 5
30 - 60	SS	SB/SE	SB/SE	SB/SE	SB/SE	SB/SE	SB/SE	4 - 6
60 - 90	SS/WP	SS	SB/SE	SB/SE	SB/SE	SB/SE	SB/SE	5 - 7
90 - 180	SS/WP	SS/WP	SS	SB/SE	SB/SE	SB/SE	SB/SE	6 - 10
180+	SS/WP	SS/WP	SS/WP	SS	SS	SB	SB	8 - 25
	0 - 15	15 - 25	25 - 50	50 - 75	75 - 100	100 - 150	150+	
Lbs. of BOD/Acre/Day								

Manufacturer's Representative

1. Wherever DA or EM model is shown, care must be taken to determine that there is sufficient oxygen provided either via the DA model or conventional aerators.
2. Additional factors when selecting the correct model include prior pond history; sludge conditions; short-circuiting; type of waste; type of operation (series or parallel); type of pond (storm/equalization, primary/secondary/tertiary); duration of the problem (odors); pond layout (irregular/obstructions); degree of treatment desired



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