

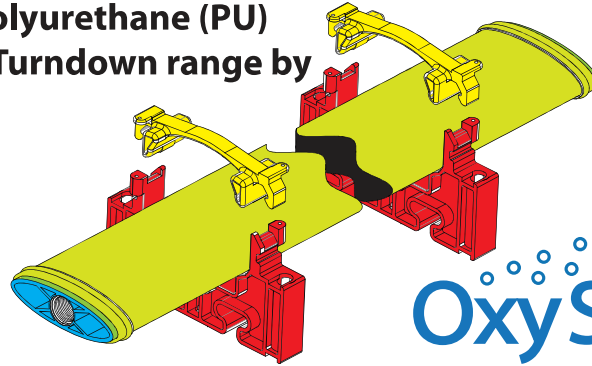
Benchmark OxyStrip vs. Diffuser Design PU Sheet Membrane Strip & Plate Aerators

Oval Shaped Tubular Fine Bubble Membrane Design

Millions of tubular membranes supplied & installed over the last 35 yrs.+

Available materials: Silicone, EPDM, & Polyurethane (PU)

Diffuser grid balancing over a 8:1 / 16:1 Turndown range by dynamic orifice design



OxyStrip™

Fatigue-Free Design™

No formation of sharp creases

Corrugation allows for controlled folding of diffuser membrane when diffuser is deflated



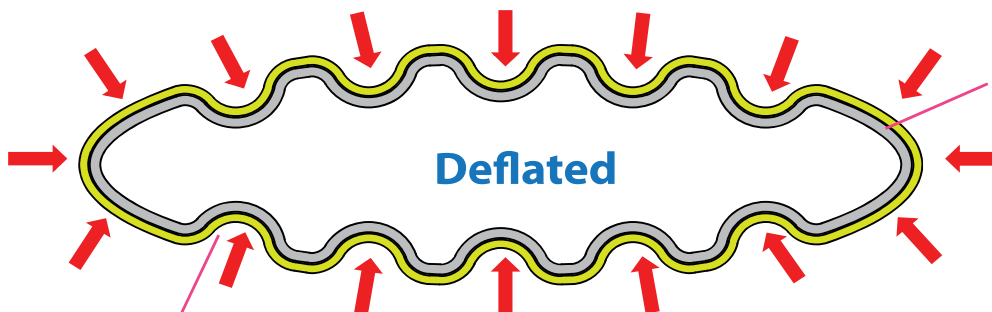
Inflated elastomeric & flexible tubular membrane
Fine bubble perforation on top side for air release

ID circumference of tubular
Membrane = OD circumference
Of corrugated profile

Ridged hard plastic
corrugated hollow profile

Air supply for aeration flows between corrugated
profile and tubular membrane

**Fatigue Free [FF] Design
Patented!**



ID circumference of tubular
Membrane = OD circumference
Of corrugated profile

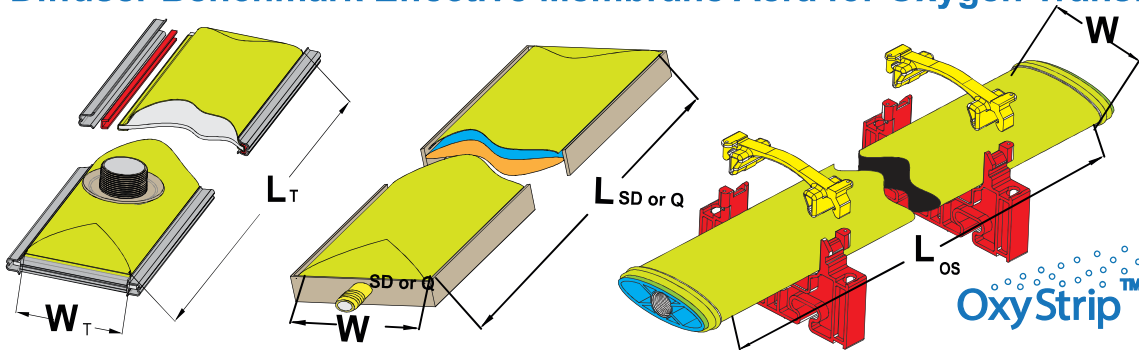
Static water pressure

*Static water pressure at diffuser insertion
depth is compressing membrane at a rate
of 1m [3.28'] insertion depth = 10 kPa
[1.45 psi] static pressure*

Deflated tubular membrane falling onto corrugated allowing for controlled radius / folding of
Tubular membrane – no uncontrolled formation of creases = Fatigue Free design [FF]

View Online: <https://vimeo.com/342826273/76f76bd686>

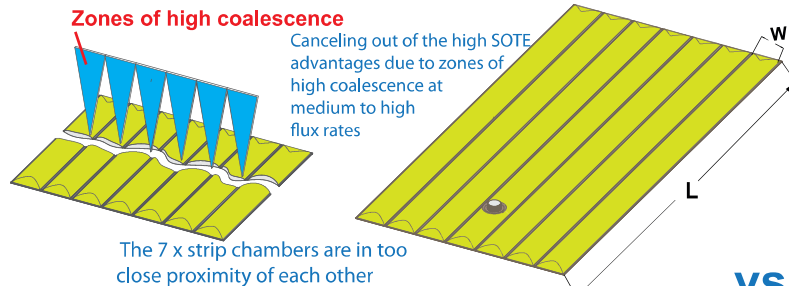
Diffuser Benchmark Effective Membrane Area for Oxygen Transfer



T Type PU Strip SD & Q Type PU Strip OxyStrip OS 160/2***

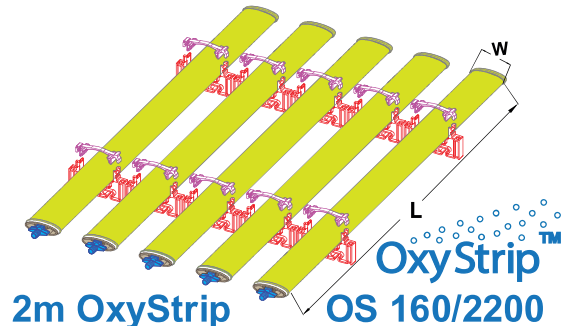
Strip Diffser Type	W* Effective Width ["]	W* Effective Width [mm]	L* Effective aeration length per diffuser ¹ ["]	L* [mm]	Active membrane area per diffuser [ft ²]	Active membrane area per diffuser [m ²]
T Type PU Strip diffuser	4.75 inch	121 mm	79 inch	2,000 mm	2.60 ft2	0.241 m2
SD & Q Type PU Strip diffuser	6.30 inch	160 mm	79 inch	2,000 mm	3.44 ft2	0.320 m2
OxyStrip EPDM, Silicone, & PU Strip diffuser	6.30 inch	160 mm	79 inch	2,000 mm	3.44 ft2	0.320 m2

¹ Effective diffuser length may vary from 1500mm to 4000mm



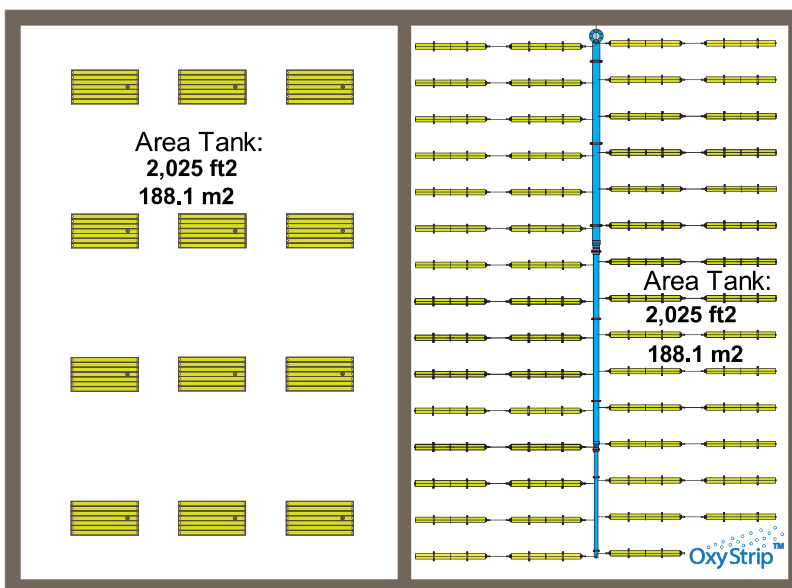
1mx2m PU sheet Plate Aerator

VS.



Diffuser Class	W* Effective Width ["]	W* Effective Width [mm]	L* Effective aeration length per diffuser ¹ ["]	L* [mm]	No of chambers	Active membrane area per diffuser [ft ²]	Active membrane area per diffuser [m ²]	n x 2m OxyStrip = 1x 1mx2m Plate Aerator
1mx2m PU sheet Plate Aerator	4.88 inch	124 mm	79 inch	2,000 mm	7	18.69 ft2	1.736 m2	1
OxyStrip EPDM, Silicone, & PU Strip diffuser	6.30 inch	160 mm	79 inch	2,000 mm	1	3.44 ft2	0.320 m2	5

Benchmark - Tank Bottom Coverage & AD/AT - Oxystrip vs. 1mx2m Plate Aerator

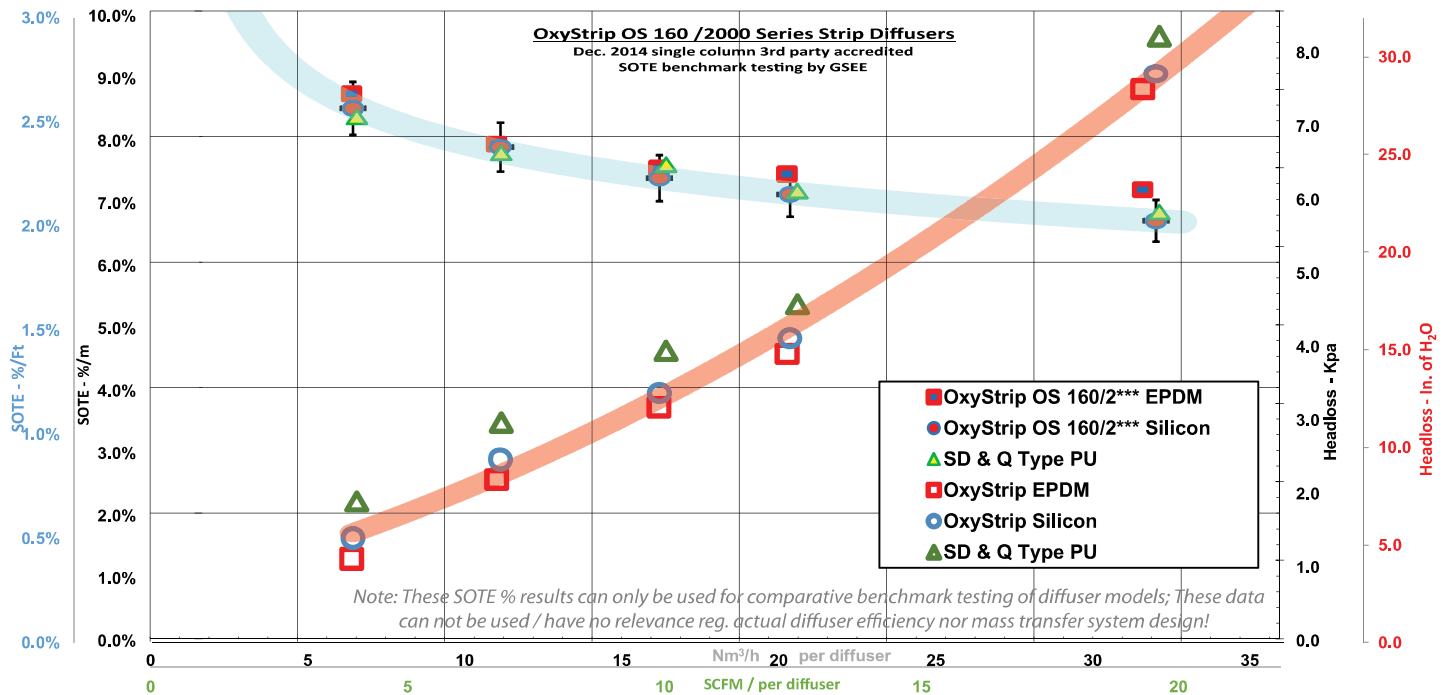


1mx2m Plate Aerator Qty:	AT - Area Tank	AD - Effective Diffuser Membrane Area	Diffuser Bottom Coverage AD/AT
12	2,025 ft2	230 ft2	11%
12	188 m2	20.9 m2	11%
2m OxyStrip Qty	AT	AD	AD/AT
60	2,025 ft2	207 ft2	10%
60	188 m2	19.2 m2	10%

- OxyStrip - enough bottom coverage starting at AD/AT @ $\geq 3.5\%$
- PU Sheet Plate AERATOR - enough bottom coverage starting at AD/AT @ $\geq 16\%$

SOTE Benchmark Testing - by independent & accredited 3rd party

- request report for detail



Fixed Grid & Retrievable Options

OxyStrip™ & OxyLift™



OxyStrip™ & Dual-Air-Control™



Multi-level aeration system redundancy

Fine bubble Membrane Materials: EPDM, Silicone, & Polyurethane - Scale 1 to 10

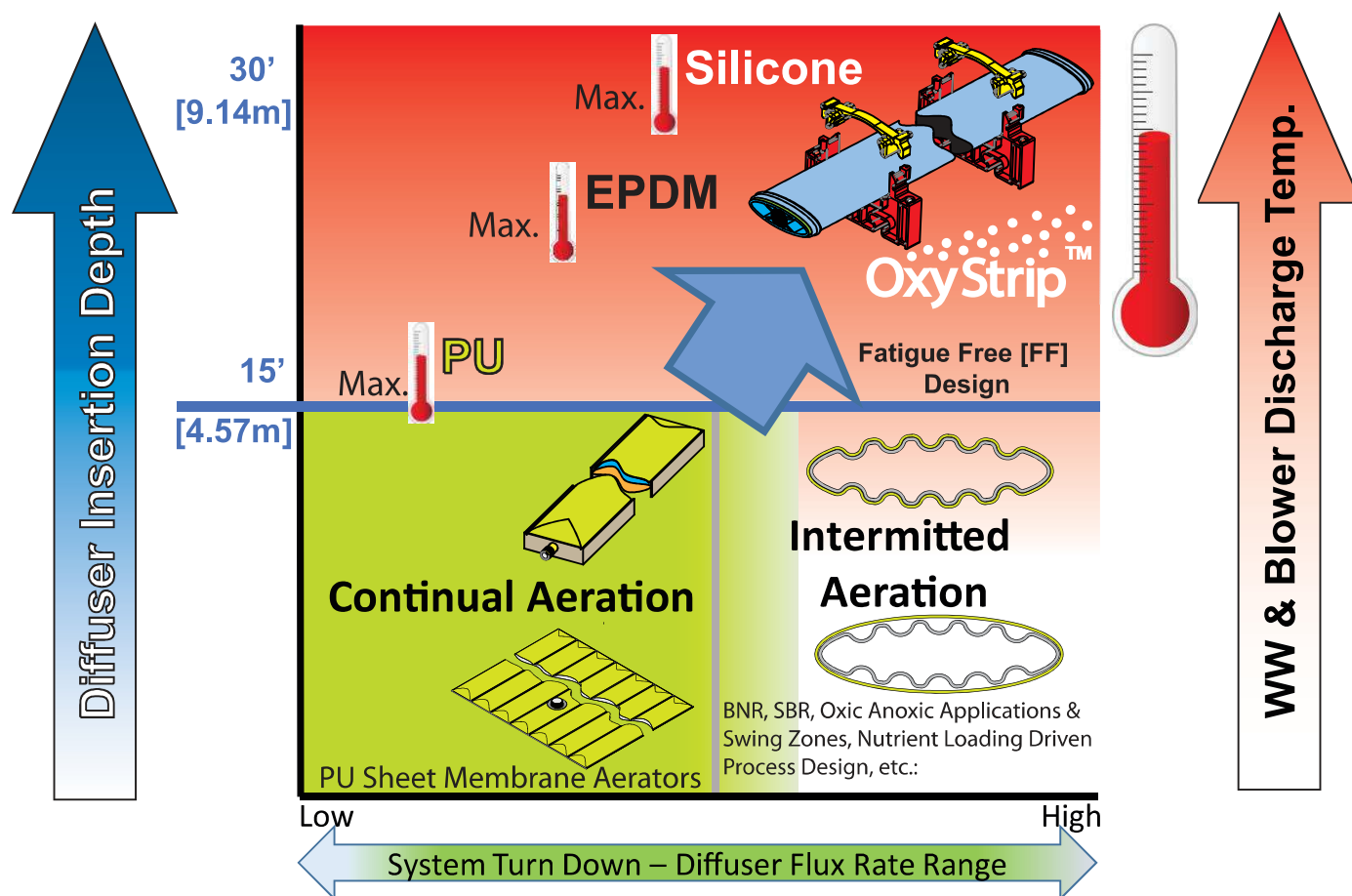
Material selection	Best Price Economy	Max. Temp Range	Best Non-Stick Properties	Highest Insertion/ SWD Depth	Longest Useful Life	Lowest O&M Cost
EPDM	10	8	8	8	8	8
Silicone - SI	9	10	10	10	10	10
Polyurethane - PU	8	6	8	6	6	5

Expected diffuser membrane life > 10 years; reusable diffuser body
– replace only membrane

OxyStrip™ OS 160/2000 FF Series - Dimensions:



OxyStrip™ Model	L (mm)	L2 (mm)	Recommended Design Airflow Range per diffuser (Nm ³ /h)
OS 160/2150 FF	1,500	1,570	2.25 - 28.0 [1.5-17.0 SCFM]
OS 160/2200 FF	2,000	2,070	3.0 - 36.0 [2-22.0 SCFM]
OS 160/2 *** FF	***	***	Special length on request



For more information, please contact your regional sales representative or get in touch with us directly:

JAEGER AERATION LLC
 4175 MULLIGAN DRIVE
 LONGMONT, CO 80504 - USA



WWW.JAEGER-AERATION.COM
 PHONE: +1 (970) 535-0554
 FAX: +1 (970) 535-0945
 INFO@JAEGER-AERATION.COM

The OxyStrip™ Diffuser employs multiple patented and patent-pending technologies, utility, product design features, registered TMs and / or WWT system process controls. It is engineered and manufactured by Gummi-JAEGER AERATION LLC.

2020 © Gummi-JAEGER AERATION LLC