

Diamond™ Membrane Diffuser, "S" Edition, for All 9" Fine Bubble Pods or Holders

The Diamond™ membrane diffuser, "S" Edition, is a breakthrough in fine bubble membrane technology. The diffuser was specifically developed to address the short comings of typical membrane diffusers, and to fit most competitive 9" pods or holders. Reuse your existing support plates and retainer rings.

Custom Formulated EPDM Material Provides:

- Wastewater specific compound with lower soluble oil content for longer life
- Tensile strength up to 50% greater than competition
- Diamond™ Diffuser's New Aperture Configuration Provides:
 - Lower life cycle costs
 - Higher oxygen transfer efficiency
 - Wider operating airflow range
 - Reduced headloss
 - Longer service life (10 years or longer)

The Diamond™ diffuser's "S" membrane enjoys the lowest install cost ever. Just drop it in your holder and enjoy diamond platform technology, improved efficiency and piece of mind.

- Can be used to retrofit existing 9" ceramic or membrane disc installations of the following manufacturers:
 - Aercor
 - Aqua-Aerobic Systems
 - EDI
 - Enviroquip
 - Gummi-Jaeger
 - SSI
 - Sanitaire
 - USFilter

For more information, contact Walter Sandford at 262.521.8416 or e-mail: water.sandford@siemens.com



Diamond™ "S" Membrane Check Valve



Competitive Pod and Support Plate with Diamond™ "S" Membrane

Data Sheet

Diamond™ Diffuser "S" Edition Membrane & Major Competitor Comparison

Membrane EPDM Material Properties

Base Characteristics	Major Competitor	Diamond™ "S"	Diamond™ "S" Benefit
Tensile Strength	1200 - 1450 PSI	2000+ PSI	>Ultimate strength directly related to life expectancy
Elongation at Failure	400% min	600%+	50% >Tear resistance
Durometer	55 +/-5	55+/-3	Superior material uniformity
Specific Gravity	1.08	1.05	Less fillers
Ozone Resistance	Pass	Pass	Same
After Heat Aging Per ASTM D572 70 Hours @ 100° C (212°F) Temperature			
Tensile stress at 300%	900% max	470%	50% less degradation in strength
Elongation (loss)	-25% max	20%	Greater tear resistance
Durometer (increase)	+10 pts	+1 pt	10X less hardening results in lower operating pressure

Membrane Performance Features

Feature	Major Competitor	Diamond™ "S"	Diamond™ "S" Benefit
No. Air Discharge Aperatures	4850	5400+	Higher oxygen transfer at > SCFM Lower headloss
Membrane Thickness	0.080 - 0.100	0.080 - 0.165	Thick center reduces "ballooning" & more effective back flow prevention

Siemens
Water Technologies
P O Box 1604
Waukesha, WI 53187-1604
Tel: 262.547.0141
Fax: 262.547.4120
envirexinfo.water@siemens.com

©2007 Siemens Water Technologies Corp.
All rights reserved.
EN-DIAMONDS-DS-1207
Subject to change without prior notice.

Envirex, DualAir, and Diamond are trademarks of Siemens, its subsidiaries or affiliates.

The information provided in this literature contains merely general descriptions or characteristics of performance which in actual case of use do not always apply as described or which may change as a result of further development of the products. An obligation to provide the respective characteristics shall only exist if expressly agreed in the terms of the contract.