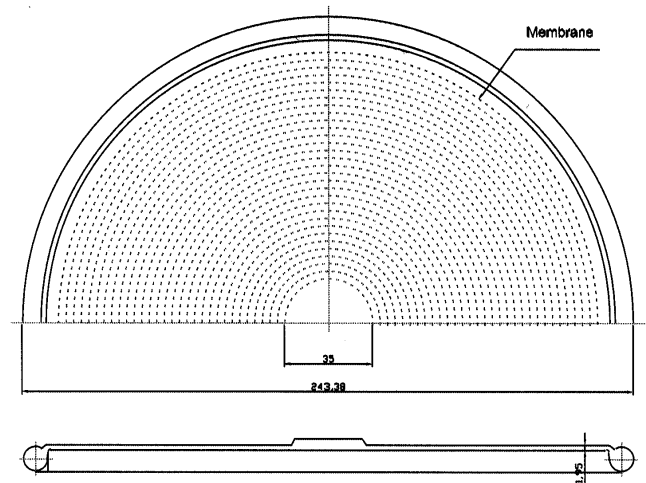


Envicon EMS 9" Membrane Disc Diffusers



Available Membrane Materials

The selection of the membrane is essentially defined by the wastewater components and the treatment process. If you have questions or doubts please do not hesitate to contact us.



Contents

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- Available Membrane Materials
 - EPDM AeroTop
 - Silicone AeroSil
- Accessories

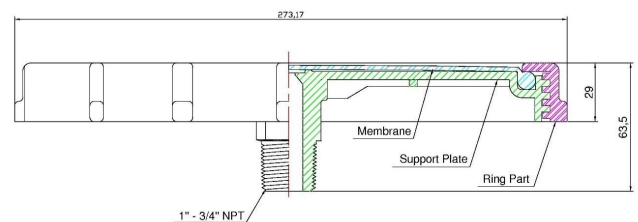
Introduction

ENVICON membrane disc diffusers are quality products from Germany. Sophisticated membrane mixtures, a modern production process as well as optimised fine-bubble perforation guarantee high-quality products throughout their service life and durable, cost-effective operation of aeration systems.

The external diameter is 270 mm (9"). The support disc and threaded fixing ring are made of polypropylene and can be reused.

The central air duct under the membrane on disc diffusers ensures the pressure loss is particularly low.

The specific oxygenation capacity depends much on the specific installation conditions and the operation mode. We will also be pleased to consult you in order to get an optimized result.



Envicon EMS 9" Membrane Disc Diffusers

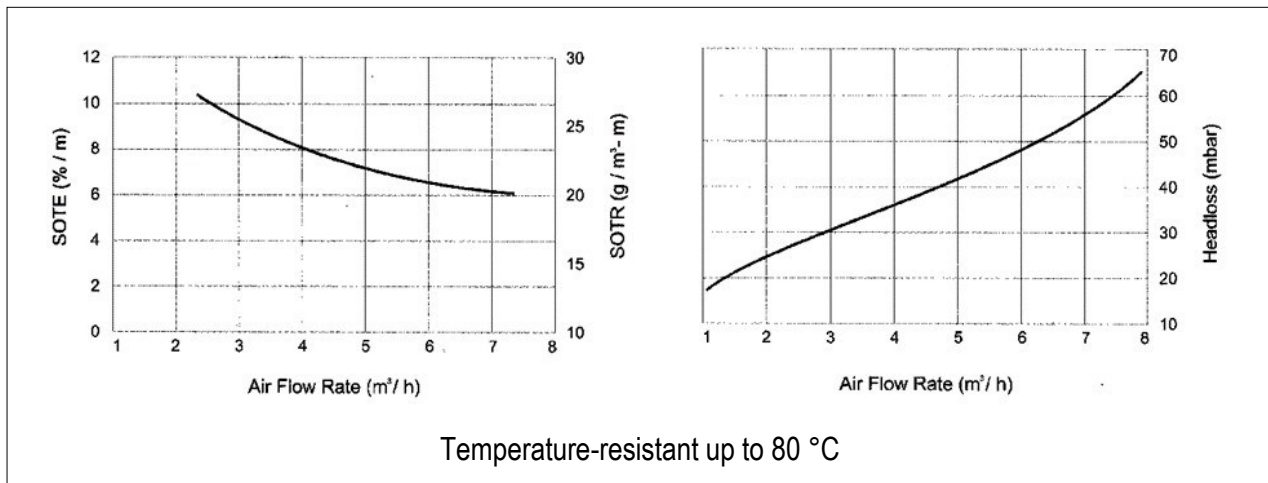
EPDM AeroTop (sulphur crosslinked, low plasticiser content)

A proven, strong membrane made of sulphur crosslinked EPDM. Durable, efficient product with low plasticiser content for high demands and municipal wastewater according to DWAM 115 with up to 10% industrial and commercial content. Made and perforated in Germany. The optimised, fine-bubble aeration ensures excellent oxygenation.

Operating Range (Nm ³ /h x diffuser):		
Minimum (recommendation)	2	Permanent
Standard	4-6	Permanent
Maximum (specification)	8	Permanent
Maximum (specification)	10	Brief e.g. for flushing cycles
Frequent load changes are recommended to prevent deposits and to keep the membrane supple.		

Technical Data

Test conditions: measured at air pressure 983 Pa, air temperature (input side) 23°C, humidity 52.3%, water temperature 13.2°C (test tank of 18.3 m³, oxygen input depth 3.5m).



Item Numbers	Ø Total / Aerated	Connection	Maximum Depth of Operation	Mantec Part Number
EMS 9 AeroTop	273 / 230 mm	3/4" NPT male	7.0 m	FGEMS09PPAT

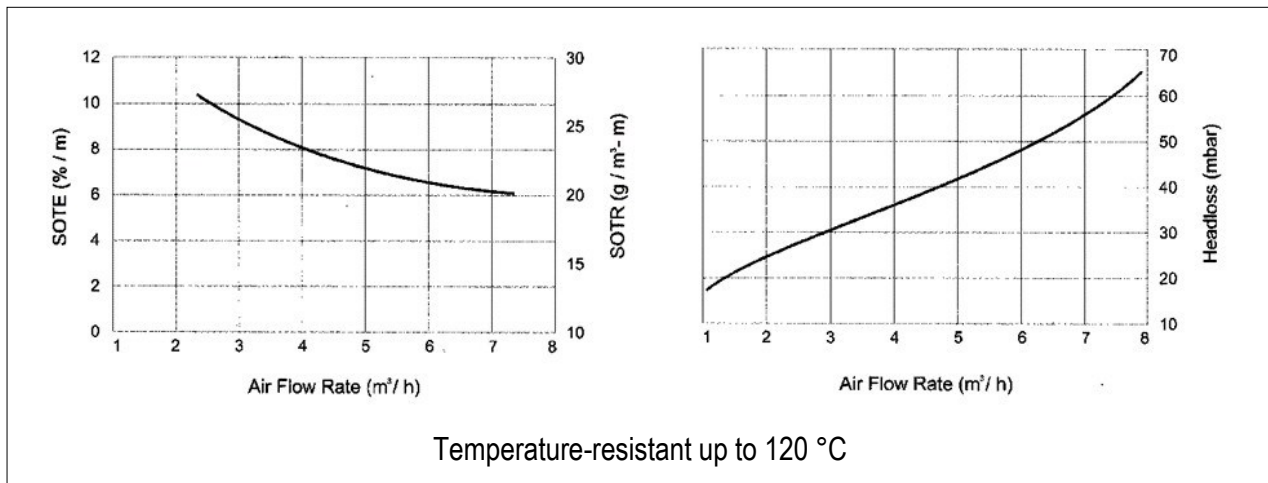
Envicon EMS 9” Membrane Disc Diffusers Silicone AeroSil (plasticiser-free)

This outstanding, plasticiser-free silicone product and is exceptionally resistant to tear propagation. It is also resistant to many oils and greases and can be used at high wastewater and air temperatures. Its highly smooth surface makes it resistant to micro-biological growth and its metabolic products. The optimised, fine-bubble aeration ensures excellent oxygenation.

Operating Range (Nm ³ /h x diffuser):		
Minimum (recommendation)	2	Permanent
Standard	4-6	Permanent
Maximum (specification)	8	Permanent
Maximum (specification)	10	Brief e.g. for flushing cycles
Frequent load changes are recommended to prevent deposits and to keep the membrane supple.		



Technical Data

Test conditions: measured at air pressure 983 Pa, air temperature (input side) 23°C, humidity 52.3%, water temperature 13.2°C (test tank of 18.3 m³, oxygen input depth 3.5m).



Item Numbers	Ø Total / Aerated	Connection	Maximum Depth of Operation	Mantec Part Number
EMS 9 AeroSil	273 / 230 mm	3/4" NPT male	7.0 m	FGEMS09PPAS

Envicon EMS 9" Membrane Disc Diffusers Accessories

<p>Standard connector: ENVGH</p> <p>Universal connector for 9"-disc diffusers EMS 9. Available for plastic pipes with outer diameters of 90 and 110 mm.</p>											
<p>Heavy duty connector ENVS (saddle clamp)</p> <p>Available for round pipes with the following outer diameters:</p> <table data-bbox="183 1294 507 1473"> <tr> <td>50 mm</td> <td>ENVS oD50</td> </tr> <tr> <td>63 mm</td> <td>ENVS oD63</td> </tr> <tr> <td>75 mm</td> <td>ENVS oD75</td> </tr> <tr> <td>90 mm</td> <td>ENVS oD90</td> </tr> <tr> <td>110 mm</td> <td>ENVS oD110</td> </tr> </table>	50 mm	ENVS oD50	63 mm	ENVS oD63	75 mm	ENVS oD75	90 mm	ENVS oD90	110 mm	ENVS oD110	
50 mm	ENVS oD50										
63 mm	ENVS oD63										
75 mm	ENVS oD75										
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110 mm	ENVS oD110										