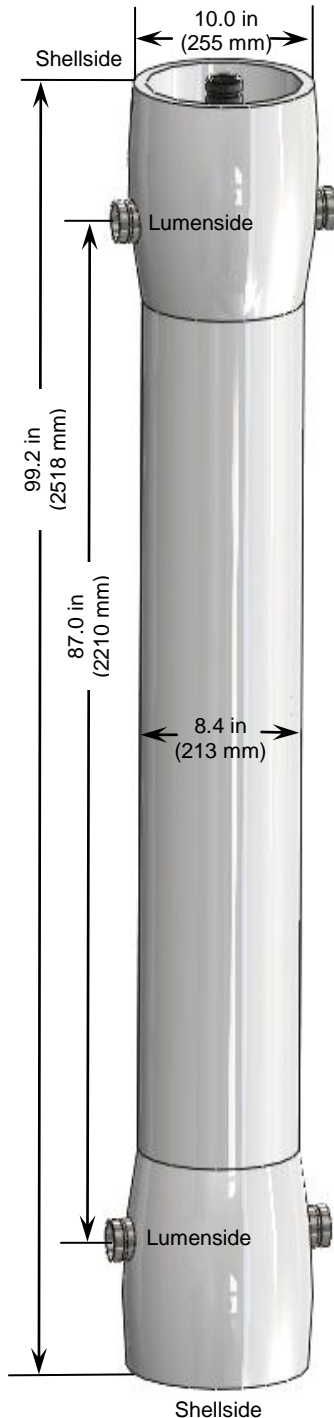


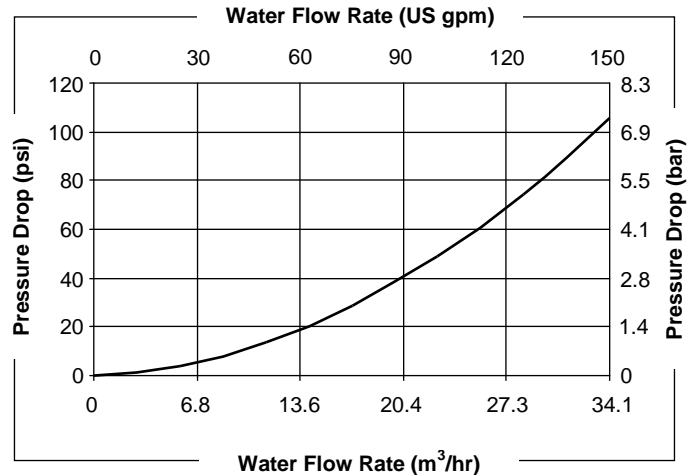
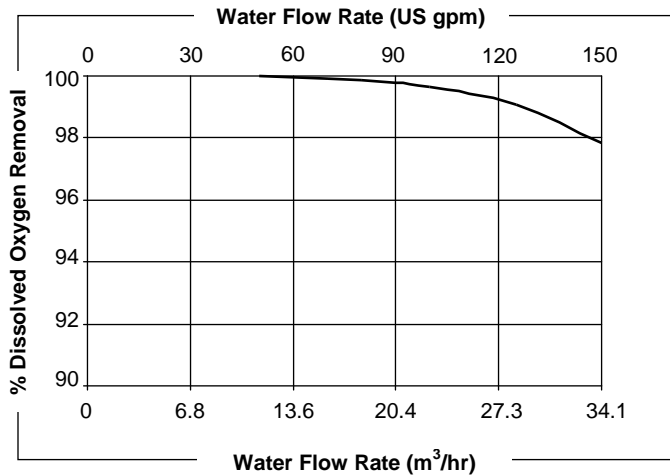
## 8 x 80 EXTRA-FLOW PRODUCT DATA SHEET



Membrane Characteristics		
Cartridge Configuration	Extra-Flow with Center Baffle	
Liquid Flow Guidelines	11.4 – 34.1 m <sup>3</sup> /hr (50 – 150 gpm)	
Membrane Type	<b>X50 Fiber</b>	<b>X40 Fiber</b>
	Recommended for gas transfer of CO <sub>2</sub> to or from water	Recommended for high pressure O <sub>2</sub> removal and other gas transfer applications
Membrane/Potting Material	Polypropylene / Epoxy	
Typical Membrane Surface Area	X50	X40
	252 m <sup>2</sup>	242 m <sup>2</sup>
Priming Volume (approximate)	<b>X40 FRP Housing</b>	
Shellside	30.3 L (8.0 gal)	
Lumenside	19.7 L (5.2 gal)	
Pressure Guidelines*		
	<b>X50 fiber</b>	<b>X40 Fiber</b>
Maximum Shellside <u>LIQUID</u> Working Temperature/ Pressure	5-25° C, 7.2 bar (41-86° F, 105 psig) 40° C, 4.1 bar (104° F, 60 psig)	5-25° C, 19.7 bar (41-86° F, 285 psig) 60° C, 12.0 bar (140° F, 175 psig) 85° C, 1 bar (185° F, 15 psig)
If no vacuum is used, 1.05 bar (15 psig) can be added.		
Maximum Applied Gas Pressure	2.1 bar (30 psig)	
Max applied gas pressure is for integrity testing at ambient temperatures. Normal operating pressures are typically lower.		
* See Operating Guide for complete listing of temp/pressure limits for housings and membrane. Note: Liquid pressure should always exceed gas pressure.		
Housing Options and Characteristics		
Material	Fiber Reinforced Plastic (FRP) FRP Vessel Code-rated to ASME BPVC Section X	316L SS ≤ 32RA (0.8µm SI)
Connections	FRP	316L SS
Shellside (Liquid Inlet/Outlet)	<ul style="list-style-type: none"> <li>1 Inch Female NPT</li> <li>1.5 Inch Victaulic® Grooved Pipe</li> </ul> Note: both options are standard on 1 end cap	<ul style="list-style-type: none"> <li>2 Inch Sanitary</li> </ul>
Lumenside	<ul style="list-style-type: none"> <li>1.5 Inch Victaulic® Grooved Pipe</li> </ul>	<ul style="list-style-type: none"> <li>2 Inch Sanitary</li> </ul>
Seal Options		
Material	Applications	
EPDM	All Purpose	
Weight (X40 Cartridge)		
Dry	58.5 kg. (129 lbs.)	
Liquid Full (shellside)	88.9 kg. (196 lbs.)	
Regulatory		
Complies with the PED 97/23/EC and is manufactured with sound engineering practice. Meets RoHS threshold limits for SS only.		

**NOTE:** All dimensions are nominal values for the FRP vessel.

## 8 x 80 EXTRA-FLOW PRODUCT DATA SHEET



Curves represent nominal values with FRP vessel using water at 20°C. Characteristics may change under different operating conditions.

Test condition O<sub>2</sub> Removal with X40 membrane: N<sub>2</sub>-vacuum combo mode, vacuum: 50 mm Hg N<sub>2</sub> sweep: 0.5 SCFM.

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