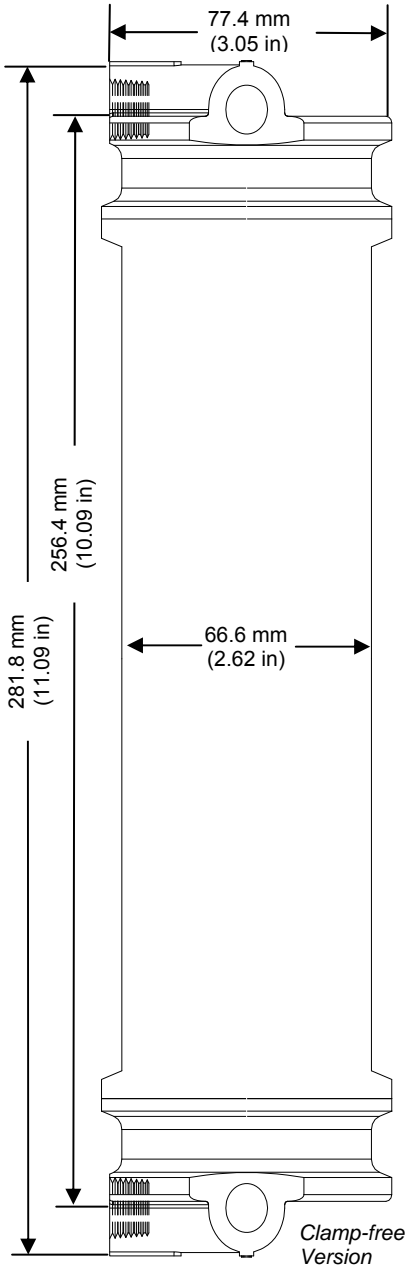
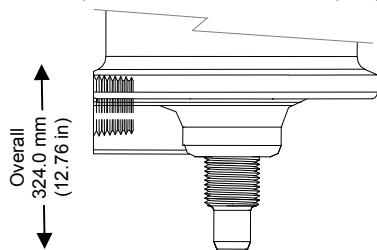


## 2.5 x 8 EXTRA-FLOW PRODUCT DATA SHEET



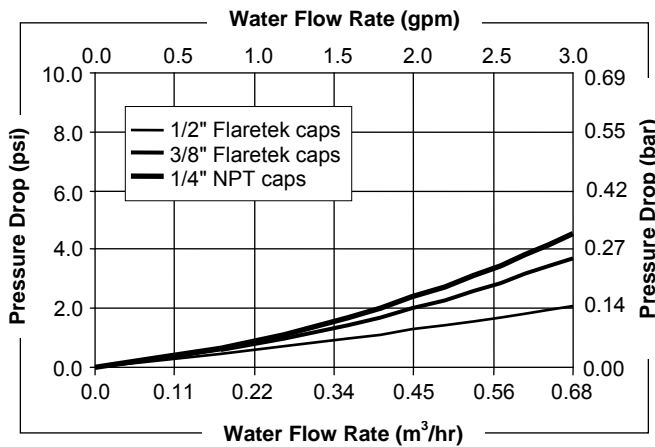
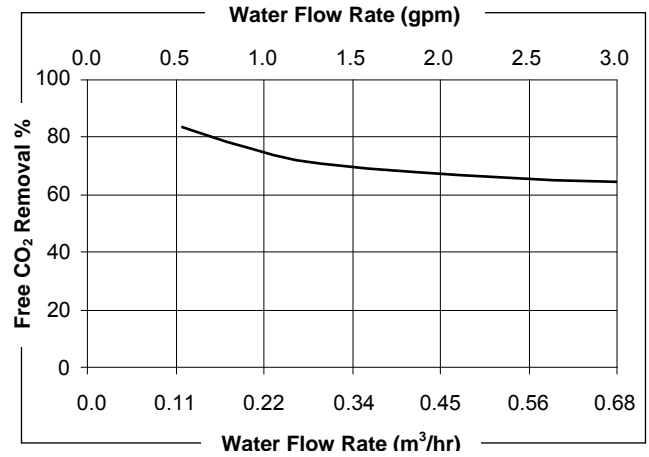
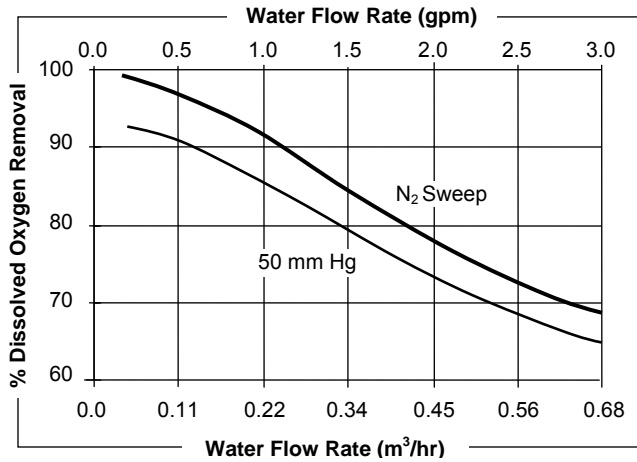
Below: End cap with 3/8" or 1/2" Flaretek liquid ports



Membrane Characteristics					
<b>Cartridge Configuration</b>	Extra-Flow with Center Baffle				
<b>Liquid Flow Guidelines</b>	0.1 – 0.7 m <sup>3</sup> /hr (0.5 – 3 gpm)				
<b>Membrane Type</b>	<table border="1"> <thead> <tr> <th>X50 Fiber</th> <th>X40 Fiber</th> </tr> </thead> <tbody> <tr> <td>Recommended for CO<sub>2</sub> removal from liquid and other gas transfer applications</td> <td>Recommended for O<sub>2</sub> removal from liquid and other gas transfer applications</td> </tr> </tbody> </table>	X50 Fiber	X40 Fiber	Recommended for CO <sub>2</sub> removal from liquid and other gas transfer applications	Recommended for O <sub>2</sub> removal from liquid and other gas transfer applications
X50 Fiber	X40 Fiber				
Recommended for CO <sub>2</sub> removal from liquid and other gas transfer applications	Recommended for O <sub>2</sub> removal from liquid and other gas transfer applications				
<b>Membrane/Potting Material</b>	Polypropylene / Polyethylene				
<b>Typical Membrane Surface Area</b>	1.4 m <sup>2</sup> (15.1 ft <sup>2</sup> )				
<b>Priming Volume (approximate)</b>					
Shellside	0.40 liters (0.11 gal.)				
Lumenside	0.15 liters (0.04 gal.)				
Pressure Guidelines*					
	<b>X50 or X40 Fiber</b>				
<b>Maximum Shellside LIQUID Working Temperature/ Pressure</b>	5-40° C, 7.2 bar (41-104° F, 105 psig) 70° C, 2.1 bar (158° F, 30 psig)				
If no vacuum is used, 1.05 bar (15 psig) can be added to pressures above.					
<b>Maximum Applied Gas Pressure</b>	4.8 bar (70 psig)				
Max applied gas pressure is for integrity testing at ambient temperatures. Normal operating pressures are typically lower.					
<b>Maximum Lumenside Liquid Temperature/Pressure with X40</b>	5° C, 6.2 bar (41° F, 90 psig) 15-25° C, 4.8 bar (59-77° F, 70 psig) 70° C, 1.0 bar (158° F, 15 psig)				
*Pressures are based on non-dangerous liquids and gasses per the European Union Pressure Equipment Directive /97/23/EC. See Operating Guide for pressure limits in the European Union with dangerous liquids and gasses. Also, see Operating Guide for complete temp/pressure limits for housings and membrane. Note: Liquid pressure should always exceed gas pressure.					
Housing Options and Characteristics					
<b>Material</b>	Polypropylene				
<b>Flange Connections</b>					
Shellside (Liquid Inlet/Outlet)	<ul style="list-style-type: none"> <li>1/4 inch NPT female</li> <li>3/8 inch Flaretek® (nut included)</li> <li>1/2 inch Flaretek® (nut included)</li> </ul>				
<i>Note: Overall length with Flaretek connections increases. See website for all housing drawings.</i>					
Lumenside	<ul style="list-style-type: none"> <li>1/4 inch NPT female</li> </ul>				
Seal Options					
<b>Material</b>	<b>Applications</b>				
K-UPW	Ultra Pure Water				
Viton	General Purpose				
K-EXT	Chemical Extraction (Clamped version only)				
Weight					
Dry	0.5 kg. (1.1 lbs.)				
Liquid full (shellside)	0.9 kg. (2 lbs.)				
Shipping weight	1.2 kg. (2.4 lbs.)				
Regulatory					
Meets RoHS threshold limits. Complies with the PED 97/23/EC and is manufactured with sound engineering practice. CFR Title 21 compliant.					

Note: Overall length with Flaretek fittings increases. See website for all housing option drawings

## 2.5 x 8 PRODUCT DATA SHEET



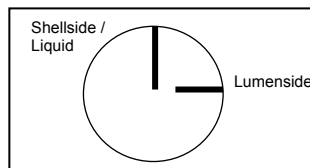
Cartridge Specifications		
Characteristics	Test Conditions	Specifications
Performance O <sub>2</sub> Removal	Shellside water flow: 3 gpm, 20°C (68°F) Lumenside N <sub>2</sub> Flow: 1.0 ft <sup>3</sup> /min, 1.0 atm at 20°C	X50 and X40  64% minimum
Pressure Drop, psi maximum	Shellside water flow: 3 gpm, 20°C	NPT: 6.8 psi  1/2 inch Flaretek <sup>®</sup> : 2.2 psi  3/8 inch Flaretek <sup>®</sup> : 3.9 psi

Curves represent nominal values. Characteristics may change under different operating conditions.

Test condition O<sub>2</sub> Removal with X40 membrane 20°C: N<sub>2</sub> sweep mode, N<sub>2</sub> sweep flow rate: 1 scfm. Vacuum mode: 50 mm Hg

Test condition CO<sub>2</sub> Removal with X50 membrane 25°C: Air-combo, vacuum 150 mm Hg, air sweep G/L 0.4.

### 2.5 x 8 end cap ports for NPT connections



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