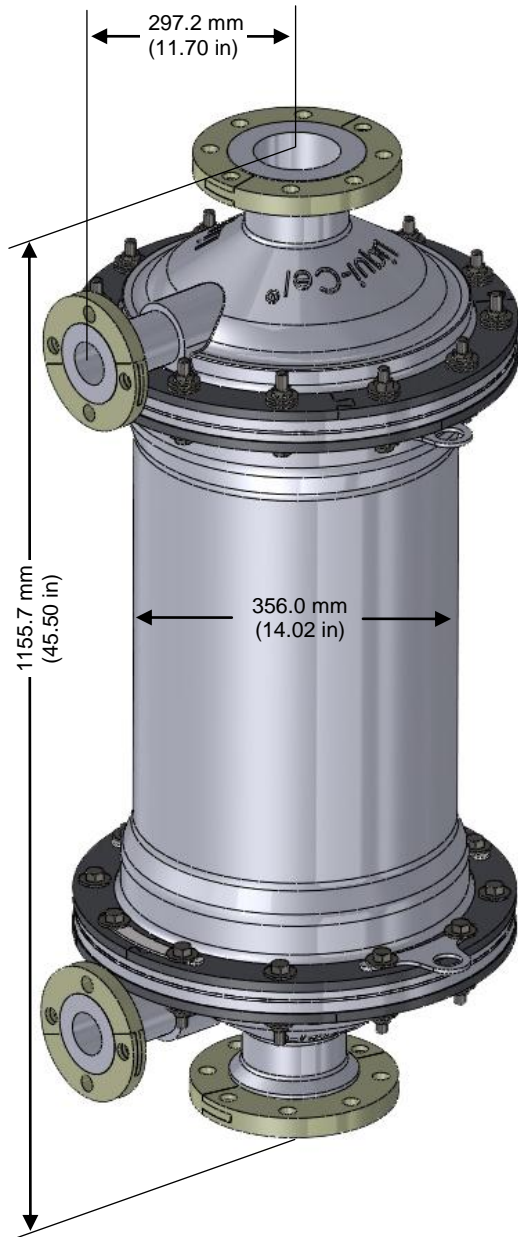


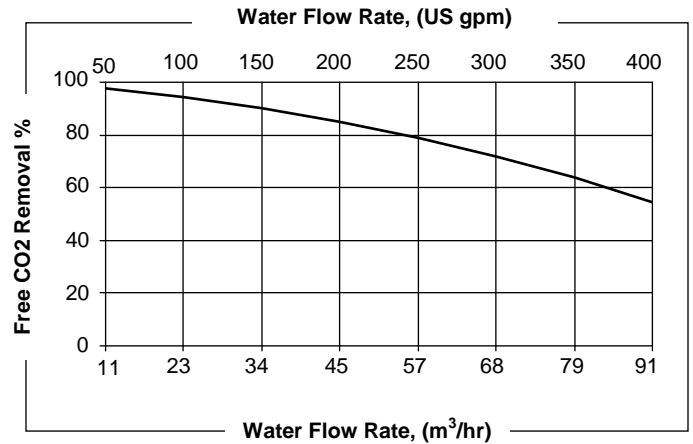
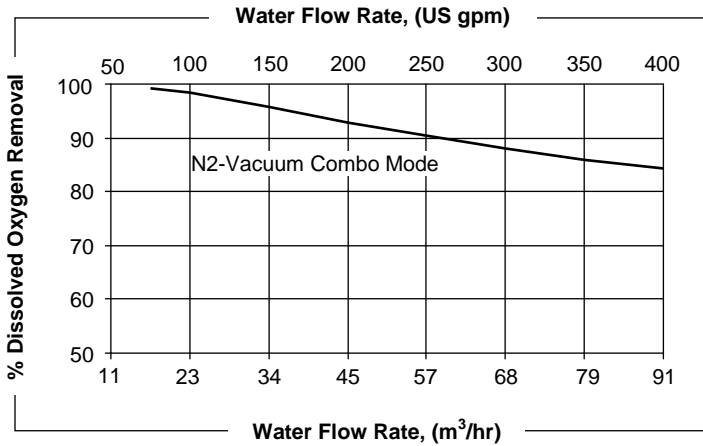
14 x 28 EXTRA-FLOW PRODUCT DATA SHEET



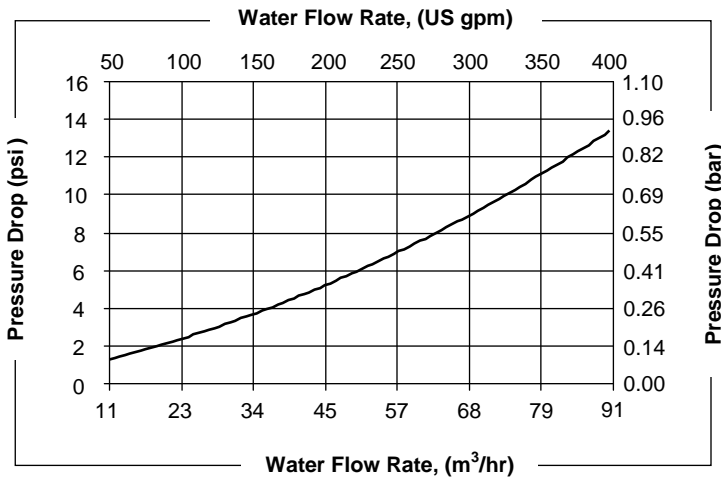
NOTE: All dimensions are nominal

Membrane Characteristics							
Cartridge Configuration	Extra-Flow with Center Baffle						
Liquid Flow Guidelines	16 – 90.8 m ³ /hr (70 – 400 gpm)						
Membrane Type	<table border="1"> <thead> <tr> <th>X50 Fiber</th> <th>X40 Fiber</th> </tr> </thead> <tbody> <tr> <td>Recommended for CO₂ removal from liquid and other gas transfer applications</td> <td>Recommended for O₂ removal from liquid and other gas transfer applications</td> </tr> </tbody> </table>	X50 Fiber	X40 Fiber	Recommended for CO ₂ removal from liquid and other gas transfer applications	Recommended for O ₂ removal from liquid and other gas transfer applications		
X50 Fiber	X40 Fiber						
Recommended for CO ₂ removal from liquid and other gas transfer applications	Recommended for O ₂ removal from liquid and other gas transfer applications						
Membrane/Potting Material	Polypropylene / Epoxy						
Typical Membrane Surface Area	220m ² (2370 ft ²)						
Priming Volume (approximate)	<table border="1"> <thead> <tr> <th>X50 Fiber</th> <th>X40 Fiber</th> </tr> </thead> <tbody> <tr> <td>Shellside</td> <td>33.5 L (8.84 gal.)</td> </tr> <tr> <td>Lumenside</td> <td>21.7 L (5.73 gal.)</td> </tr> </tbody> </table>	X50 Fiber	X40 Fiber	Shellside	33.5 L (8.84 gal.)	Lumenside	21.7 L (5.73 gal.)
X50 Fiber	X40 Fiber						
Shellside	33.5 L (8.84 gal.)						
Lumenside	21.7 L (5.73 gal.)						
Pressure Guidelines*							
	X50 or X40 Fiber						
Maximum Shellside LIQUID Working Temperature/Pressure	5-25° C, 7.2 bar (41-77° F, 105 psig) 50° C, 2.1 bar (122° F, 30 psig)						
If no vacuum is used, 1.05 bar (15 psig) can be added to pressures above.							
Maximum Applied Gas Pressure	4.1 bar (60 psig)						
Max applied gas pressure is for integrity testing at ambient temperatures. Normal operating pressures are typically lower.							
*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. 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	PVC Vessel with Nylon End Caps						
Flange Backing Rings	SMC (Sheet Molded Compound)						
Flange Connections							
Shellside (Liquid Inlet/Outlet)	<ul style="list-style-type: none"> SMC 4 inch class 150 raised face flange per ANSI B16.5 SMC 100A at 10K raised face flange per JIS B2238 						
Lumenside	<ul style="list-style-type: none"> SMC 2 inch class 150 raised face flange per ANSI B16.5 SMC 50A at 10K flat face flange per JIS B2238 						
Mounting Kit							
A Mounting Kit with 2 cradles and 2 straps is available and sold separately. It will hold the contactor horizontally or vertically.							
Seal Options							
Material	Applications						
EPDM (ANSI / NSF 61)	General Purpose						
Weight							
Dry	61.7 kg. (136 lbs.)						
Liquid full (shellside)	96.6 kg. (213 lbs.)						
Shipping Weight w/o Mounting kit	73.4 kg. (162 lbs.)						
Shipping Weight with Mounting kit	82.5 kg. (182 lbs.)						
Regulatory							
Meets RoHS threshold limits. Complies with the PED 97/23/EC. NSF Certified to NSF/ANSI 61.							

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Note: Performance can be improved by adjusting the sweep rate.



Note: for X40 membrane.

Cartridge Specifications		
Characteristics	Test Conditions	Specifications
Performance O ₂ Removal, minimum	Shellside water flow: 300 gpm, 20°C (68°F) Lumenside N ₂ Flow: 6.5 ft ³ /min, 1.0 atm at 20°C	X50: 86% X40: 86%
Pressure Drop, psi maximum	Shellside water flow: 300 gpm, 20°C (68°F)	X50: 13.0 X40: 12.0

Curves represent nominal values, generated using water at 20°C.

Test condition O₂ Removal: X40 membrane, N₂-vacuum combo mode, vacuum: 75 mm Hg, N₂ Sweep 0.5 scfm.

Test condition CO₂ Removal: X50 membrane, Air vacuum combo mode, vacuum: 150mm Hg, air sweep 8 scfm.

Characteristics may change under different operating conditions.

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