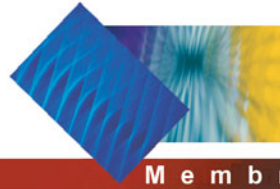
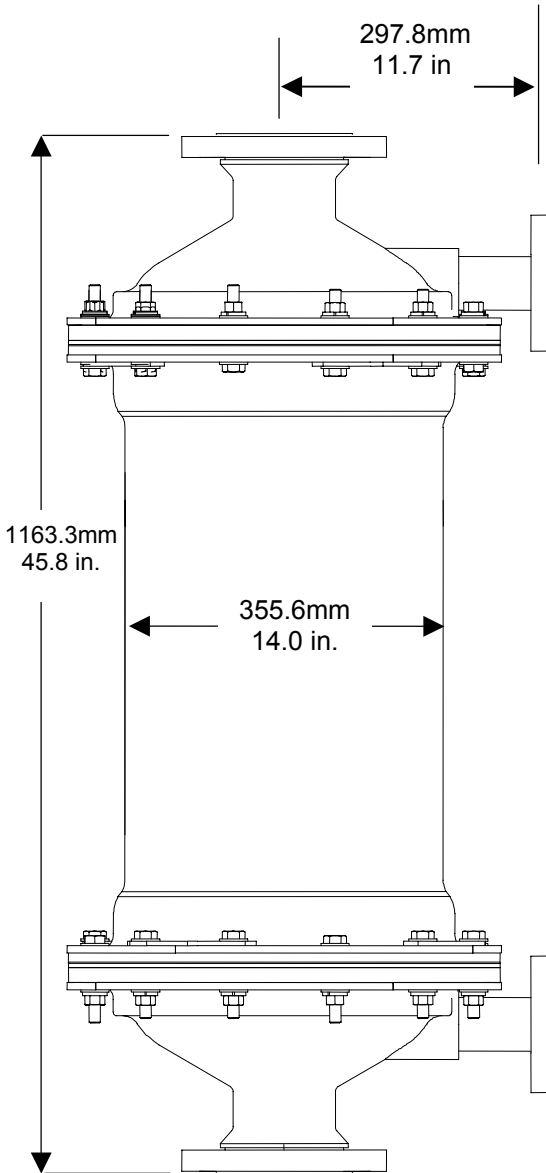


14x28 EXTRA-FLOW PRODUCT DATA SHEET



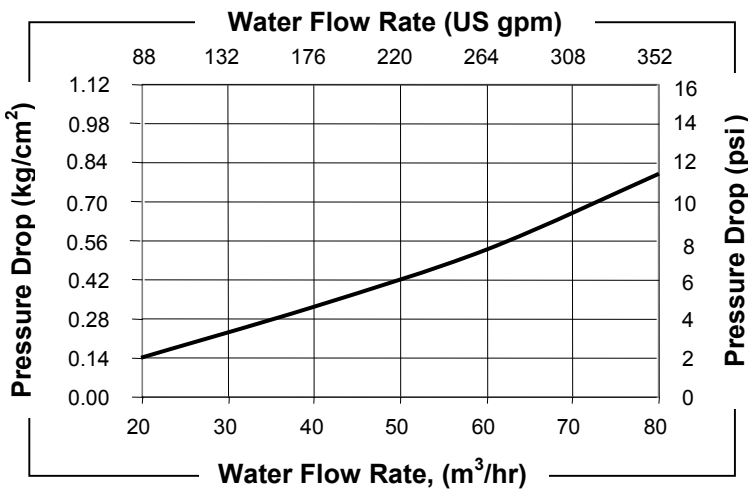
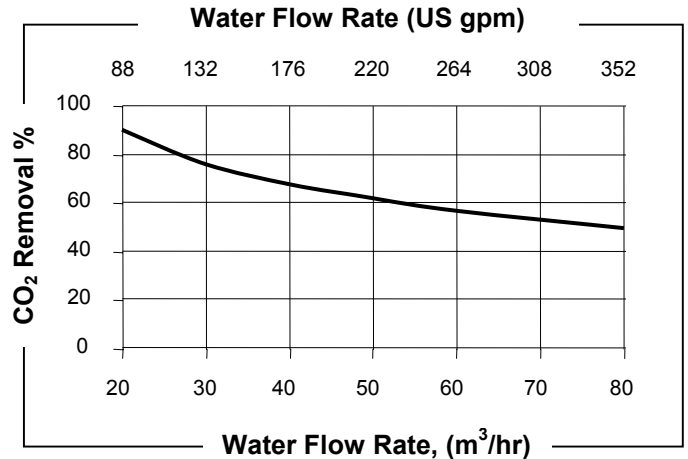
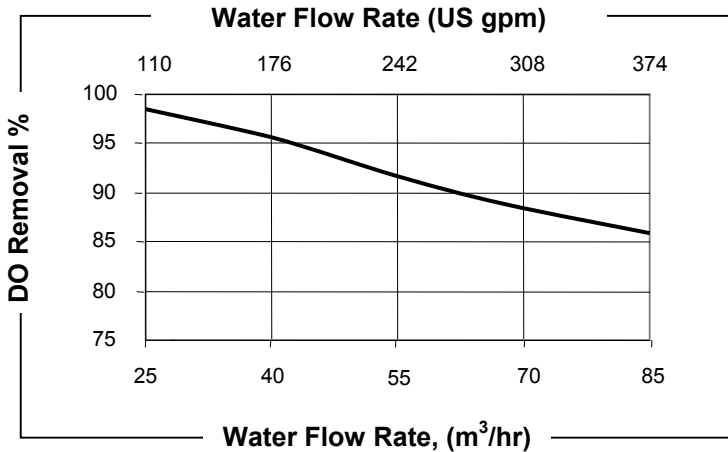
Liqui-Cel®

Membrane Contactors



NOTE: All dimensions are nominal values

Cartridge Characteristics		
Cartridge Configuration	Extra-Flow with Center Baffle	
Liquid Flow Guidelines	16 – 90.8 m ³ /hr (70 – 400 gpm)	
Membrane Type	X50 Fiber	X40 Fiber
	Recommended for CO ₂ removal from water	Recommended for all other gas transfer applications
Porosity	~40%	~25%
OD / ID	300 / 220 micron	300 / 200 micron
Membrane/Potting Material	Polypropylene / Epoxy	
Typical Active Membrane Area	2370 ft ² (220m ²)	
Maximum Shellside Working Temperature/Pressure of fiber	25°C, 4.6 kg/cm ² or 4.5 bar 45°C, 2.1 kg/cm ² or 2.1 bar <i>[Using 50 mm vacuum on Lumenside. Add 1.05 kg/cm² (15 psig) when vacuum is not used.]</i>	25°C, 7.4 kg/cm ² or 7.2 bar 45°C, 2.1 kg/cm ² or 2.1 bar
	(77°F, 65 psig) (113°F, 30 psig)	(77°F, 105 psig) (113°F, 30 psig)
Priming Volume (approximate)	X50 Fiber	X40 Fiber
Shellside	33.5 liters (8.84 gal.)	33.5 liters (8.84 gal.)
Lumenside	21.7 liters (5.73 gal.)	20.1 liters (5.31 gal.)
Housing Options and Characteristics		
Housing 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"> 316LSS 4 inch class 150 raised face flange per ANSI B16.5 316LSS 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 	
Max. Allowable Working Pressure of Vessel	<ul style="list-style-type: none"> 8.4 Kg/cm² (8.3 bar or 120 psi) Shellside (Liquid Only) 4.2 Kg/cm² (4.1 bar or 60 psi) on gas or Lumenside NOTE: Refer to Cartridge Characteristics for maximum operating conditions of each fiber type	
Seal Options		
Material	Applications	
EPDM (ANSI / NSF 61)	General Purpose	
Mounting Kit		
A Mounting Kit with 2 cradles and 2 straps is available and sold separately. It will hold the contactor horizontally or vertically.		
Weight (approximate)		
Dry	71.7 kg. (158 lbs.)	
Liquid full (shellside)	106.6 kg. (235 lbs.)	
Shipping Weight w/o Mounting kit	83.4 kg. (184 lbs.)	
Shipping Weight with Mounting kit	92.5 kg. (204 lbs.)	



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

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

Test condition CO₂ Removal: X50 membrane, Air vacuum combo mode, vacuum: 150mm Hg, air sweep 3 scfm

Characteristics may change under different operating conditions.

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