Industrial filtration

Liqui-Cel EXF 6×28 membrane contactors

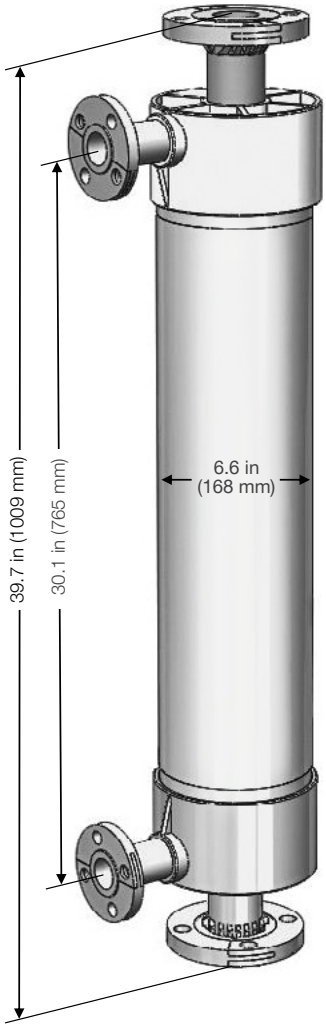
Thermo Scientific™ Liqui-Cel™ Membrane Contactors provide high-performance dissolved gas control in a compact design. Utilizing hollow fiber membrane technology, Thermo Scientific membrane contactors remove dissolved gases from or add gases to compatible liquid streams in-line and without chemicals to help facilities around the world improve operating efficiency and protect product quality in many industrial processes.

Typical properties

Membrane characteristics		
Cartridge configuration	Extra-flow with center baffle	
Liquid flow guidelines	5 - 50 gpm (1 - 11 m^3/hr)	
Membrane/potting material	Polypropylene/epoxy	
Membrane type	X50 fiber	X40 fiber
	Recommended for CO_2 removal from compatible liquid streams	Recommended for O_2 removal from compatible liquid streams
Priming volume (approximate)		
Shell side	1.8 gal (6.7 L)	1.8 gal (6.7 L)
Lumen side	0.7 gal (2.6 L)	0.6 gal (2.3 L)
Operating parameters		
Pressure guidelines*	X50 fiber	X40 fiber
Maximum shell side LIQUID operating temperature/pressure		
41 - 77°F (5 - 25°C)	120 psig (8.3 barg)	120 psig (8.3 barg)
140°F (60°C)	45 psig (3.1 barg)	
158°F (70°C)		45 psig (3.1 barg)
Maximum lumen side GAS operating temperature/pressure		
77°F (25°C)	46.4 psig (3.2 barg)	46.4 psig (3.2 barg)

*Note: Liquid pressure should always exceed gas pressure in operation.

Housing characteristics	
Material	ABS
Flange connections	
Shell side (liquid inlet/outlet)	• 2-inch class 150 raised face flange per ANSI B16.5 • 50A at 10K flat face flange per JIS B2238
Lumen side (inlet/outlet)	• 1-inch class 150 raised face flange per ANSI B16.5 • 25A at 10K flat face flange per JIS B2238
Mounting kit	
Contains 2 cradles and 2 straps sold separately and will hold the contactor horizontally or vertically	
Weight (approximate)	
Dry	23 lbs (10 kg)
Water-filled (shell side)	38 lbs (17 kg)
Regulatory	
Certain Thermo Scientific™ Liqui-Cel™ EXF 6×28 Membrane Contactor products are compliant with US FDA 21 CFR. Contact your Thermo Fisher Scientific representative for detailed declaration of compliance information for food contact applications.	

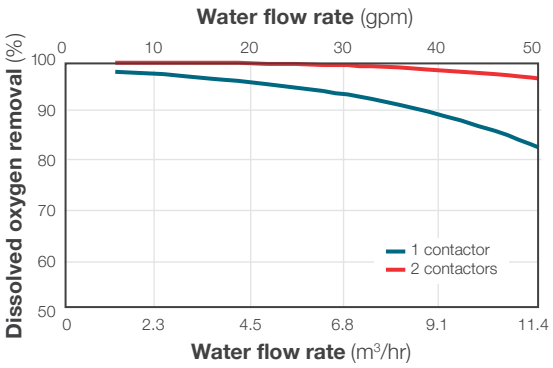


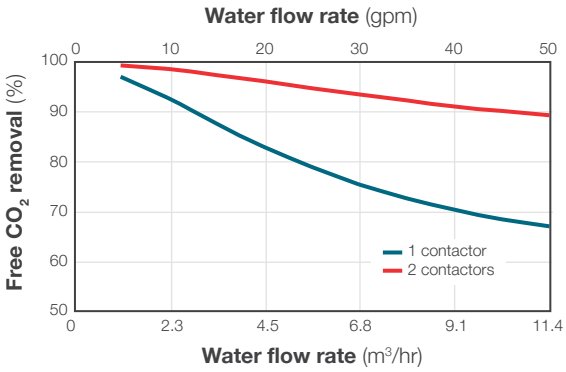
Note: All dimensions are nominal values. See housing drawings for additional dimensional details.

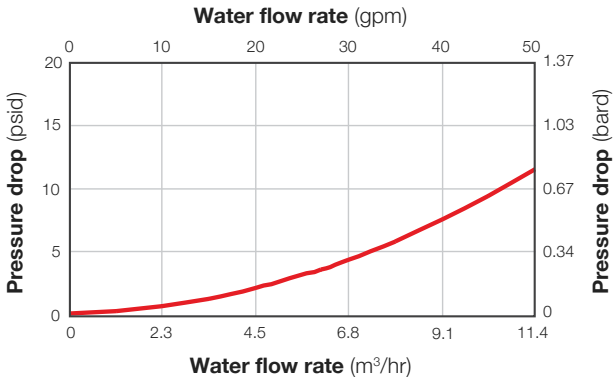
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Not for consumer sale or use.

Typical properties







Notes

- Curves represent nominal values using water at 68ºF (20ºC). Characteristics may change under different operating conditions.
- Test condition O_2 removal with X40 membrane: N_2-vacuum combo mode: 75 mm Hg vacuum, N_2 sweep 0.05 SCFM (1.4 L/min).
- Test condition CO_2 removal with X50 membrane: Air-combo mode: 150 torr vacuum, air sweep 0.25 G/L.
- These charts should not be used to design systems.

Intended Use: Liqui-Cel membrane contactors are intended to remove dissolved gases and bubbles from liquids or to add gases to a liquid stream. Liqui-Cel membrane contactors are for use in industrial separation applications of industrial fluids only, in accordance with the applicable product instructions, specifications, and where materials of construction are compatible. Liqui-Cel membrane contactors may further be used in the production of water for various pharmaceutical products upstream of the final water sterilization step.

Certain Liqui-Cel membrane contactors are compliant for use in Food and Beverage applications. For specific details regarding use or limitations for food contact applications please refer to the Liqui-Cel product's data sheet or contact your Thermo Fisher Scientific Inc. representative for more information.

Since there are many factors that can affect a product's use, the customer and user remain responsible for determining whether the Thermo Scientific product is suitable and appropriate for the user's specific application, including user conducting an appropriate risk assessment and evaluating the Thermo Scientific product in the user's application.

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