Industrial filtration

Liqui-Cel EXF 8×20 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)
Membrane/potting material	Polypropylene/epoxy
Membrane type	X40 fiber
	X40 fiber recommended for O_2 and CO_2 removal, carbonation and other dissolved gas control applications with compatible liquid streams
Priming volume (approximate)	
Shell side	2.0 gal (7.5 L)
Lumen side	1.5 gal (5.7 L)

Operating parameters	
Pressure guidelines*	
Maximum shell side LIQUID operating temperature/pressure	
41 - 77°F (5 - 25°C)	135 psig (9.3 barg)
122°F (50°C)	60 psig (4.1 barg)
158°F (70°C)	30 psig (2.1 barg)
Maximum lumen side GAS operating temperature/pressure	
77°F (25°C)	75 psig (5.2 barg)

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

Housing characteristics	
Material	316L SS Housing ABS cartridge shell

Port connections	
Shell side (liquid inlet/outlet)	2-inch sanitary
Lumen side (inlet/outlet)	2-inch sanitary

Seal material options for shell side wetted parts

EPDM

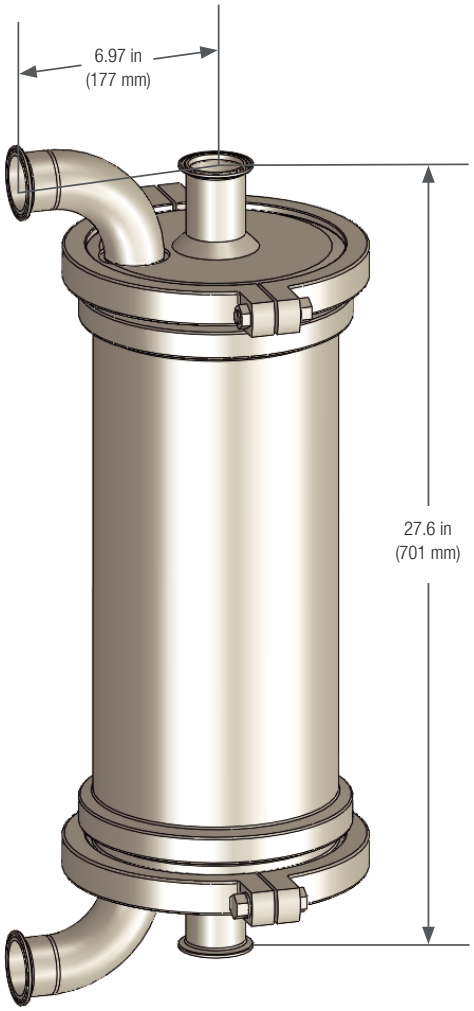
Mounting kit

Contains 2 cradles and 2 straps sold separately and will hold the contactor horizontally or vertically

Weight (approximate)	
Dry	71 lbs (32.4 kg)
Water-filled (shell side)	85 lbs (38.5 kg)

Regulatory

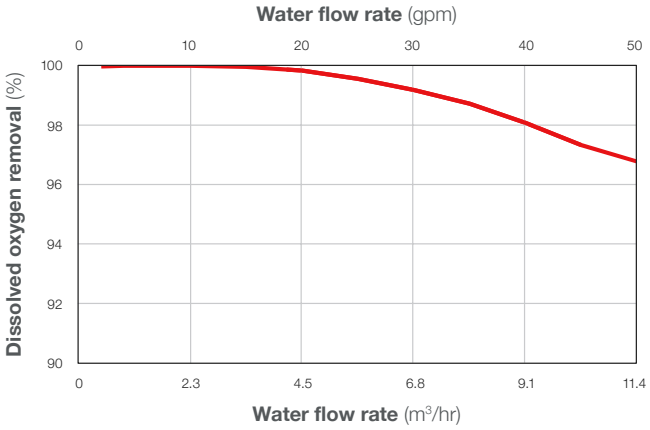
Complies with the limits as set by (EU) 2015/863 amending Annex II to the Restriction on Hazardous Substances (RoHS) Directive (2011 65/EU). Liqui-Cel EXF 8×20 membrane contactors in stainless steel housings are constructed of FDA Title 21 CFR §170-186 compliant materials for wetted parts only at ambient temperatures.

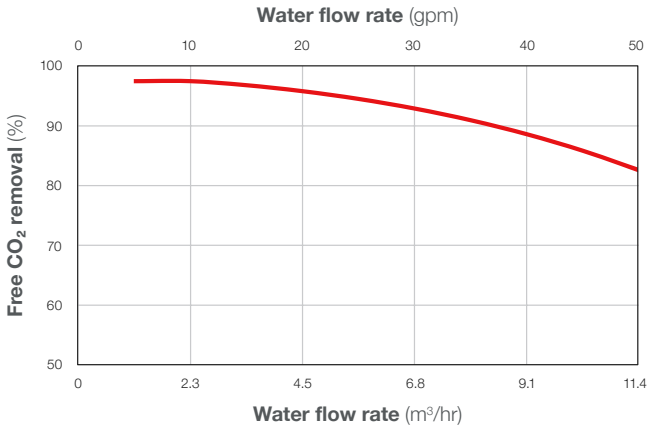


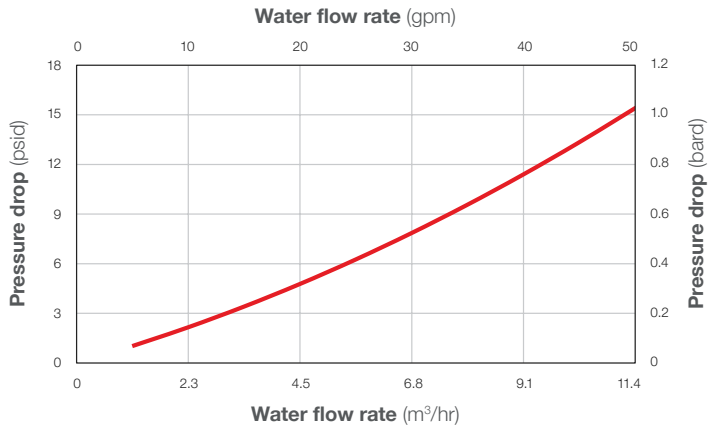
Note: All dimensions are nominal values. See housing drawings for additional dimensional details.

Not for consumer sale or use.

Typical properties







Notes

- Curves represent nominal values using water at 68ºF (20ºC) for O_2 removal and water at 77ºF (25ºC) for CO_2 removal. Characteristics may change under different operating conditions.
- Test condition O_2 removal with X40 membrane: N_2-vacuum combo mode: 50 mm Hg vacuum absolute, N_2 sweep 0.25 SCFM.
- Test condition CO_2 removal with X50 membrane: Air-sweep mode: air sweep 10 SCFM.
- These charts should not be used to design systems.

Intended Use: Liqui-Cel membrane contactors are intended 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 EXF 8×20 products 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 user's application.

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