Industrial filtration

Liqui-Cel EXF 8×80 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	25 - 70 gpm (5.7 - 15.9 m^3/hr)
Membrane/potting material	Polypropylene/epoxy
Membrane type	X40 fiber
	X40 fiber recommended for O_2 removal from compatible liquid streams
Priming volume (approximate)	
Shell side	8.0 gal (30.3 L)
Lumen side	5.2 gal (19.7 L)

Operating parameters	
Pressure guidelines*	X40 fiber
Maximum shell side LIQUID operating temperature/pressure	
41 - 77°F (5 - 25°C)	300 psig (20.7 barg)
140°F (60°C)	190 psig (13.1 barg)
Maximum lumen side GAS operating temperature/pressure	
77°F (25°C)	30 psig (2.1 barg)

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

Housing characteristics	
Material	Fiber Reinforced Plastic (FRP), FRP Vessel Code-rated to ASME BPVC Section X

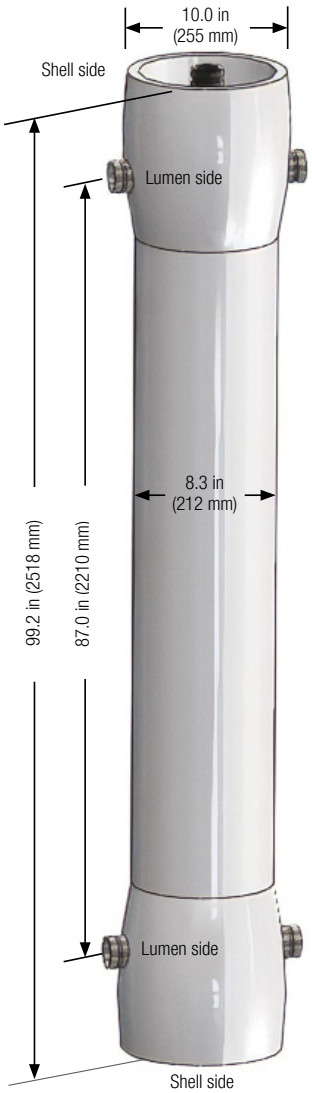
Port connections	
Shell side (liquid inlet/outlet)	1.5-inch grooved pipe fitting
Lumen side (inlet/outlet)	1.5-inch grooved pipe fitting

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

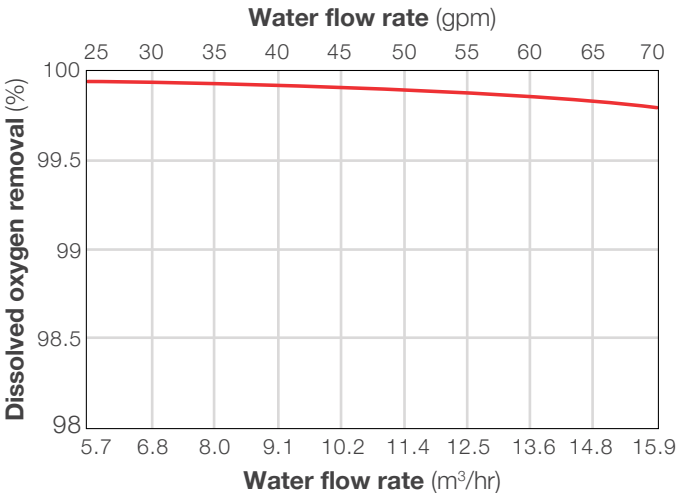
Weight (approximate)	
Dry	115 lbs (52 kg)
Water-filled (shell side)	196 lbs (89 kg)

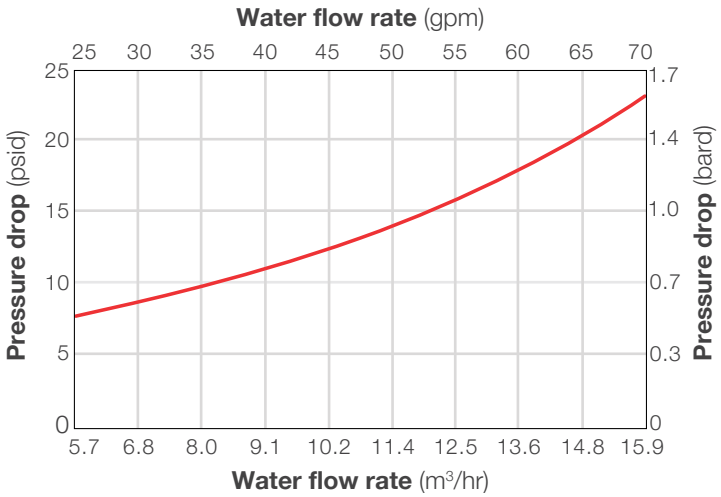
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Note: All dimensions are nominal values. See housing drawings for additional dimensional details.

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: 50 torr Vacuum, N_2 sweep 0.5 SCFM at 99.99% purity.
- These charts should not be used to design systems.

Intend 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.

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 risk assessments and evaluation of the Thermo Scientific product in the user's application.

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Liqui-Cel EXF 8×80 products are not for use in food contact applications.

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