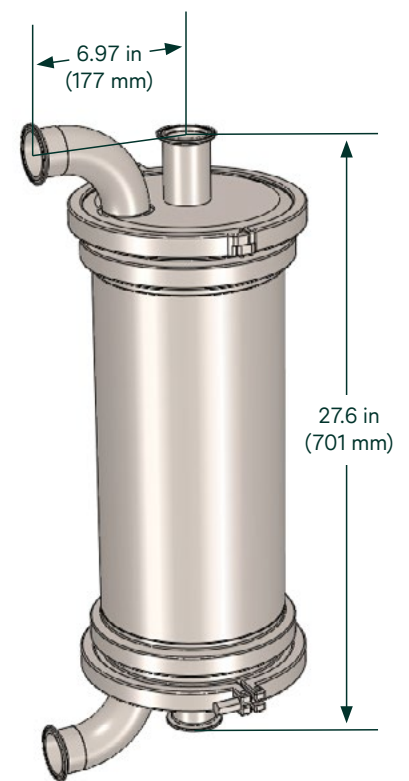


3M™ Liqui-Cel™ EXF-8×20 Series Membrane Contactor

Typical Properties

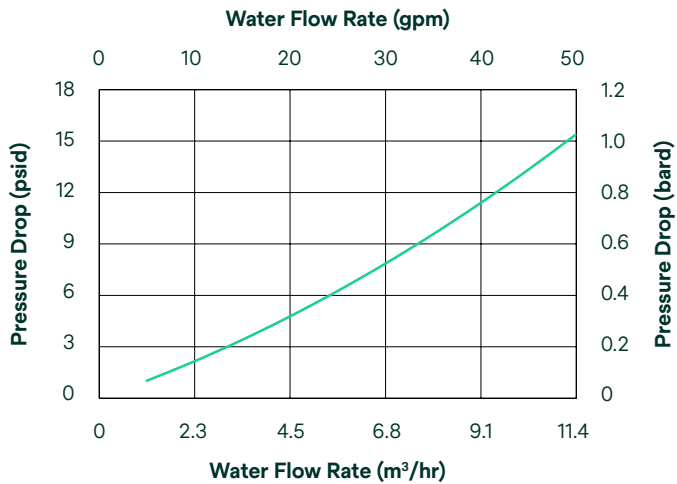
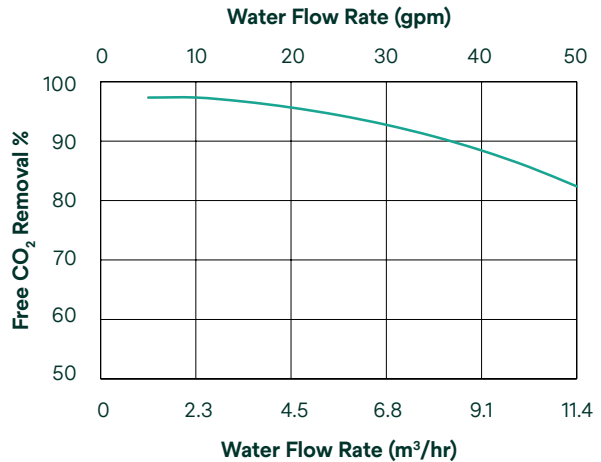
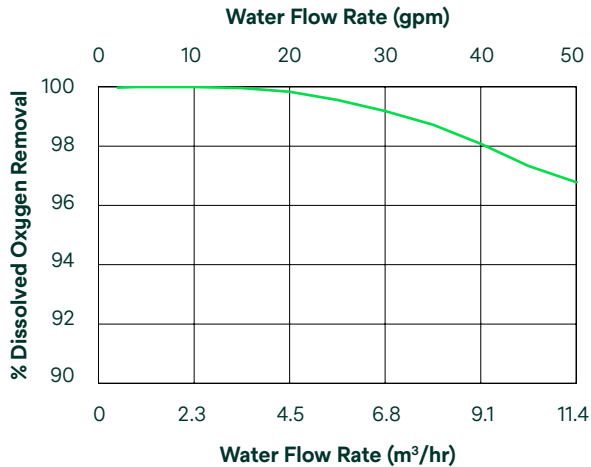
Membrane characteristics	
Cartridge configuration	Extra-Flow with Center Baffle
Liquid flow guidelines	1 – 11 m ³ /hr (5 – 50 gpm)
Membrane type	X40 Fiber Recommended for O ₂ and CO ₂ removal from liquids, carbonation and other gas transfer applications
Membrane/potting material	Polypropylene / Epoxy
Priming volume (approximate)	
Shell side	7.5 L (2.0 gal)
Lumen side	5.7 L (1.5 gal)
Pressure guidelines*	
<i>For countries following Pressure Equipment Directive PED 2014/68/EU only ART 483:</i>	
<i>For countries NOT following Pressure Equipment Directive PED 2014/68/EU:</i>	
Maximum shell side LIQUID working temperature/pressure	
5 - 25°C (41 - 77°F)	10.3 barg (150 psig)
50°C (122°F)	4.1 barg (60 psig)
70°C (158°F)	2.1 barg (30 psig)
Maximum lumen side GAS operating temperature/pressure	
25°C (77°F)	3.7 barg (54 psig)
Maximum shell side LIQUID working temperature/pressure	
5 - 25°C (41 - 77°F)	10.3 barg (150 psig)
50°C (122°F)	4.1 barg (60 psig)
70°C (158°F)	2.1 barg (30 psig)
Maximum lumen side GAS operating temperature/pressure	
25°C (77°F)	5.2 barg (75 psig)
*Note: Liquid pressure should always exceed gas pressure in operation. Pressures are based on fluid group 2 (other) liquids and gases per the European Union Pressure Equipment Directive 2014/68/EU.	
Housing characteristics	
Material	316L SS Housing ABS Cartridge Shell
Port connections	
Shell side (Liquid inlet/outlet)	2 inch sanitary
Lumen side	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	32.4 Kg (71 lbs)
Water-filled (shellside)	38.5 kg (85 lbs)
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). 3M™ Liqui-Cel™ EXF-8×20 Series Membrane Contactors in stainless steel housings are constructed of FDA Title 21 CFR §170-186 compliant materials for wetted parts only at ambient temperatures.	



All dimensions are nominal values.
See full housing drawing on go.solventum.com/liquicel-productdrawings for additional details.

Not for consumer sale or use.

3M™ Liqui-Cel™ EXF-8×20 Series Membrane Contactor



Curves represent nominal values. Characteristics may change under different operating conditions.

These charts should not be used to design systems.

Test condition O₂ Removal: N₂-vacuum combo mode with water at 20°C. Vacuum: 50 mm Hg abs. N₂ sweep: 0.25 scfm.

Test condition CO₂ Removal: Air sweep mode with water at 25°C. Air Sweep: 10 scfm.

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