

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

Typical Properties

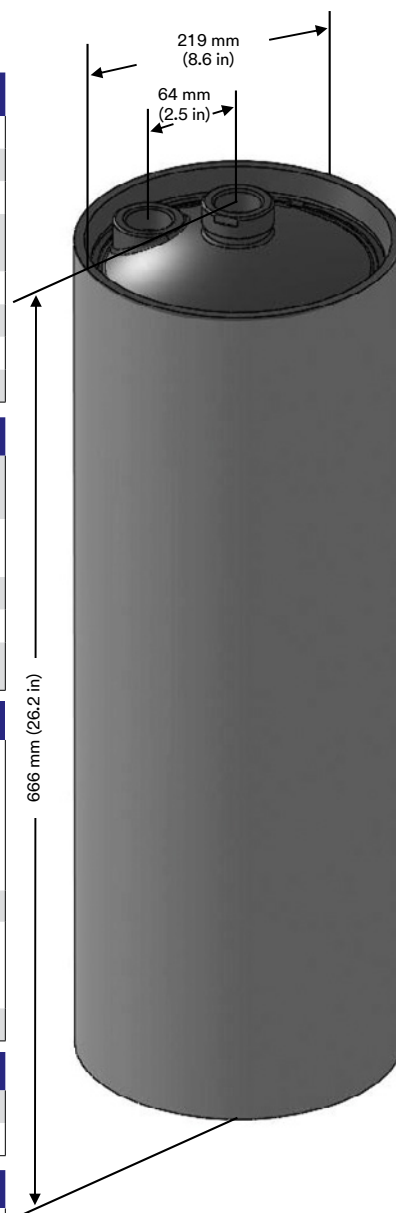
| Membrane Characteristics | |
|------------------------------|---|
| Cartridge Configuration | Extra-Flow with Centre Baffle |
| Liquid Flow Guidelines | 1 – 11 m³/hr (5 – 50 gpm) |
| Membrane Type | XIND Fibre |
| | Recommended for CO ₂ removal from liquid and other gas transfer applications |
| Membrane/Potting Material | Polypropylene / Epoxy |
| Priming Volume (approximate) | |
| Shellside | 6.7 L (1.8 gal) |
| Lumenside | 1.2 L (1.4 gal) |

| Pressure Guidelines* | |
|---|---|
| Maximum Shellside LIQUID Working Temperature/ Pressure | 25°C, 4.8 barg (77°F, 70 psig) 40°C, 2.1 barg (104°F, 30 psig) |
| If no vacuum is used, 1.0 barg (15 psig) can be added to pressures above. If operating using air sweep, the liquid or air temperature should not exceed 30°C for any length of time. Exceeding 30°C will reduce contactor life. | |
| Maximum Applied Gas Pressure | 2.1 barg at 25°C (30 psig at 77°F) |
| Maximum applied gas pressure is for integrity testing at ambient temperatures. Normal operating pressures are typically lower. | |
| * See Operating Guide for complete temp/pressure limits for housings and membrane. | |
| Note: Liquid pressure should always exceed gas pressure. | |

| Housing Options and Characteristics | |
|-------------------------------------|---|
| Material | <ul style="list-style-type: none"> PVC housing Due to the nature of the material, scratches, blemishes and other marks may be visible on the housing surface. These do not impact contactor function. Engineering thermoplastic end caps |
| Port Connections | |
| Shellside (Liquid Inlet/Outlet) | 1 Inch Female NPT 1.5 Inch Grooved pipe fitting Note: both options are standard on 1 end cap |
| Lumenside | 1 Inch Female NPT |

| Weight (approximate) | |
|--------------------------|----------------|
| Dry | 13 kg (28 lbs) |
| Water-filled (shellside) | 19 kg (43 lbs) |

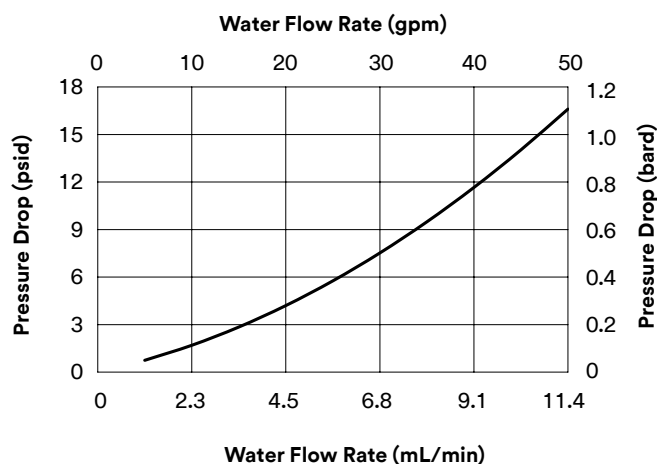
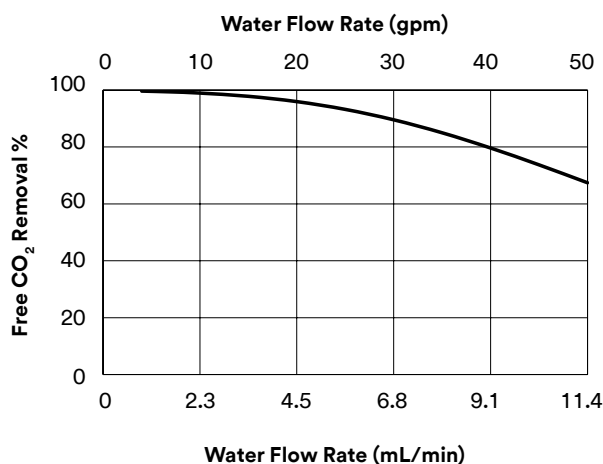
| Regulatory | |
|--|--|
| Complies with the limits as set by (EU) 2015/863 amending Annex II to the Restriction on Hazardous Substances (RoHS) Directive (2011/65/EU). | |



All dimensions are nominal values.
See 3M.ca/Liqui-Cel for all housing drawings.

Not for consumer sale or use.

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Curves represent nominal values using water at 25°C. Characteristics may change under different operating conditions.

Test conditions:

CO₂ Removal: Air sweep mode at 5 scfm.

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