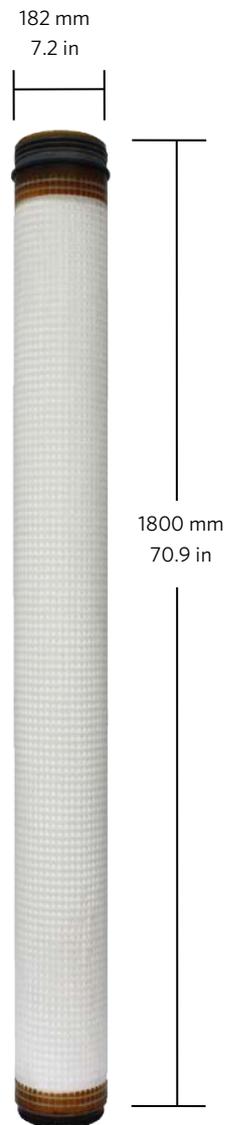


MEMCOR® L40N MEMBRANE FILTRATION MODULE SPECIFICATION

L40N MODULE SPECIFICATIONS

Parameter	Details
Module Operating Process	Pressurized Ultrafiltration
Typical Applications	General Applications
Membrane Type	Hollow Fiber
Filtration Flow Direction	Outside to Inside
Backwash Type	Air Scour with Liquid Backwash
Membrane Material	PVDF (Polyvinylidene Fluoride)
Other Wetted Module Components	Polyurethane, Polyethylene, Polyamide, EPDM
Nominal Membrane Pore Size	0.04 μm
Nominal Membrane Area	67.0 m ² / 721 ft ²
Nominal Module Length (Overall)	1800 mm / 70.9 in
Nominal Module Diameter (Overall)	182 mm / 7.2 in
Approximate Module Mass	22.0 kg / 49 lb



L40N MODULE OPERATING SPECIFICATIONS

Parameter	Details
Operating Temperature Range	> 0 to 35 °C / > 32 to 95 °F (Must not be exposed to freezing conditions)
Temperature Range for Transportation and Storage	Preferred range 5 to 25 °C / 41 to 77 °F Allowable range > 0 to 40 °C / > 32 to 104 °F (shipment/storage in a temperature controlled container (or reefer) at 20 °C / 68 °F recommended). Modules must not be exposed to freezing conditions and must remain moist at all times.
Typical Feed pH Range	6.0 – 9.0 pH ^{Note i}
Allowable pH Range for Cleaning	2.0 – 10.0 pH typical ^{Note ii}
Typical Maximum Recommended Trans-Membrane Pressure (TMP) in Filtration	140 kPa / 20 psi ^{Note iii}
Maximum Allowable TMP at any time	± 150 kPa / ± 22 psi @ ≤ 30 °C / 86 °F ± 120 kPa / ± 17 psi @ > 30 °C / 86 °F
Typical chlorine concentration during cleaning (MW or CIP)	50 – 200 mg/L @ 25 °C / 50 – 200 ppm @ 77 °F ^{Note iv}
Maximum chlorine concentration during cleaning	1000 mg/L @ 25 °C / 1000 ppm @ 77 °F ^{Note iv}
Maximum total exposure to chlorine during cleaning	1,000,000 mg.h/L @ 25 °C / 1,000,000 ppm.h @ 77 °F ^{Note iv}
Maximum separate exposure to chlorine in feed or during storage	< 1 mg/L average, < 5 mg/L maximum, pH > 6.5 @ 25 °C < 1 ppm average, < 5 ppm maximum, pH > 6.5 @ 77 °F 100,000 mg.h/L @ 25 °C / 100,000 ppm.h @ 77 °F ^{Note iv}
Maximum separate exposure to chloramines in feed or during storage	< 2.5 mg/L average, < 5 mg/L maximum, pH > 6.5 @ 25 °C < 2.5 ppm average, < 5 ppm maximum, pH > 6.5 @ 77 °F 150,000 mg.h/L @ 25 °C / 150,000 ppm.h @ 77 °F ^{Note iv}

Notes:

- i. Exposure to chlorine or chloramines is not recommended in feeds below 6.5 pH.
- ii. Occasional brief exposure during chlorine cleans to pH 10.5 is acceptable.
- iii. Maximum recommended filtration TMP for a particular application is usually feed dependent. The actual recommended value may vary from that shown.
- iv. Please consult Evoqua Water Technologies for additional guidance on exposure limits and for operation at different temperatures.



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