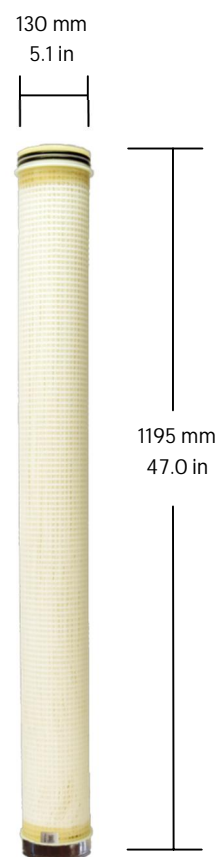


MEMCOR[®] S10N MEMBRANE FILTRATION MODULE SPECIFICATION

S10N MODULE SPECIFICATIONS

Parameter	Details
Module Operating Process	Submerged 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	23.1 m ² / 249 ft ²
Nominal Module Length (Overall)	1195 mm / 47.0 in
Nominal Module Diameter (Overall)	130 mm / 5.1 in
Approximate Module Mass	6.8 kg / 15 lb



S10N 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 35 °C / > 32 to 95 °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 Available Trans-Membrane Pressure (TMP) in Filtration	85 kPa / 12.3 psi ^{Note iii}
Maximum Allowable TMP at any time	± 150 kPa / ± 22 psi
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	500,000 mg.h/L @ 25 °C / 500,000 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 available filtration TMP is based on a number of variables including atmospheric pressure, module submergence depth and filtrate pump NPSH requirement. The actual value may vary slightly from that shown.
- iv. Please consult Evoqua Water Technologies for additional guidance on exposure limits and for operation at different temperatures.

The information provided in this literature contains merely general descriptions or characteristics of performance which in actual case of use do not always apply as described or which may change as a result of further development of the products.

An obligation to provide the respective characteristics shall only exist if expressly agreed in the terms of the contract. Additional operating information, storage instructions and warranty terms may apply. Please contact Evoqua Water Technologies for more information.