

Filter Data Sheet



G.E.M. REVERSE OSMOSIS MEMBRANE GLOBAL ETHANOL MEMBRANE

G.E.M. Reverse Osmosis Membranes provide the high salt rejection and flow rates typically available on composite membranes while providing superior value. This gives the Ethanol Producer an edge by providing reduced costs for the operation of reverse osmosis system. The pre-filtration program offered in conjunction with the G.E.M. membrane may eliminate the need for costly membrane cleanings. The membranes are manufactured utilizing ISO 9001:2000 Certified Quality Management System.

Application

Typical applications for G.E.M. membranes include:

- Producing Boiler Make-Up
- Water for Power Plants
- G.E.M. elements have also been used to treat blow-down from Power Plants
- Desalting of Well Waters for Municipal Drinking Water Supplies
- Reducing TDS prior to Ion-Exchange
- Purifying Water to Ultrapure Standards for Semiconductor Manufacturing Facilities

Performance

Permeate Flow.....8,900 to 14,000 gpd
Salt Rejection Minimum.....98%

Type

Configuration.....Spiral Wound
Membrane Polymer.....Composite Polyamide



Application Data*

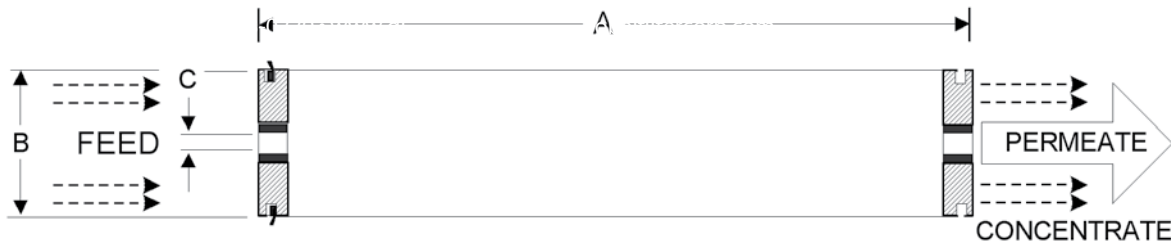
Max. Applied Pressure.....600 psig (4.16 MPa)
Max. Chlorine Concentration.....< 0.1 PPM
Max. Operating Temperature.....113 °F (45 °C)
Feedwater pH Range.....3.0 - 10.0
Max. Feedwater Turbidity.....1.0 NTU
Max. Feedwater SDI (15 mins).....5.0
Max. Feed Flow.....75 GPM (17.0 m3/h)
Max. Ratio of Concentrate to Permeate Flow for any Element.....5:1
Max. Pressure Drop for Each Element..10 psi

Test Conditions

The stated performance is initial (data taken after 30 minutes of operation), based on the following conditions:

NaCl Test Solution1500 PPM
Applied Pressure225 psi (1.55 MPa)
Operating Temperature77°F (25°C)
Permeate Recovery15%
pH Range6.5 - 7.0

* The limitations shown here are for general use. The values may be more conservative for specific projects to ensure the best performance and longest life of the membrane.



A, inches (mm)	B, inches (mm)	C, inches (mm)	Weight, lbs. (kg)
40.0 (1016)	7.95 (201.9)	1.125 (28.6)	36 (16.4)