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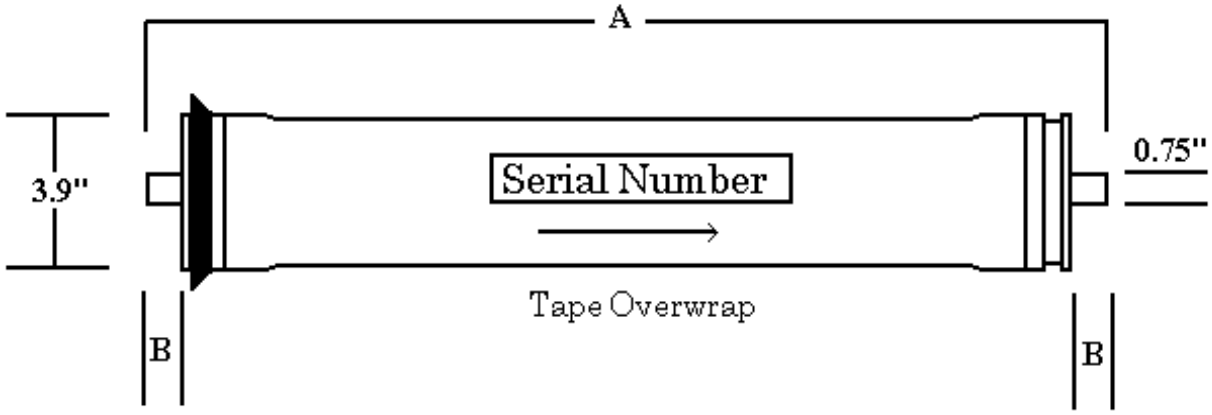
NANOFILTRATION-70
4.0 INCH THIN FILM COMPOSITE MEMBRANE
SPECIFICATIONS
Membrane Designed to fit a 4.0 Inch ID Housing or Pressure Vessel

Application: HCTI NE70 elements with medium monovalent ion rejection and more than 99% rejection of divalent ions are useful for water softening, pretreatment for seawater desalination and food concentration in small size systems.

Model Number	Dimension A (Inches)	Dimension B (Inches)	Flow (GPD) Nominal	Rejection (%) (Monovalent Ion) Min.	Rejection (%) (Monovalent Ion) Nominal	Rejection % Divalent $(MgSO4)^2$
MEM 4014 NF-70	14	1.1	500	60.0	70.0	99.5%
MEM 4021 NF-70	21	1.1	750	60.0	70.0	99.5%
MEM 4040 NF-70	40	1.1	1500	60.0	70.0	99.5%

1. The stated performance is initial data taken after 30 minutes of operation based on the following monovalent test conditions; 2,000 mg/L NaCl solution at 75 psig (0.5 MPa) applied pressure, 15% recovery, 77˚F (25˚C) and pH 6.5-7.0.
2. The stated performance is initial data taken after 30 minutes of operation based on the following divalent test conditions; 2000 mg/L $MgSO_4$ solution at 75 psig (0.5 MPa) applied pressure, 15% recovery, 77˚F (25˚C) and pH 6.5-7.0.
3. All elements are vacuum sealed in a polyethylene bag containing 1.0% SBS (sodium bisulfite) solution.



Operating Limits

Membrane Type	Thin-Film Composite
Maximum Operating Pressure	600psi (4.14 Mpa)
Maximum feed flow rate	18 gpm (4.09 m^3/h)
Minimum concentrate flow rate	4.0 gpm (0.91 m^3/h)
pH Range, Continuous	3 to 10
pH Range, Cleaning Cycle (30 min)	2 to 11
Maximum Operating Temperature	113˚ f (45˚ C)
Maximum Feed Turbidity	1 NTU
Maximum Feed Silt Density Index (15')	5.0
Free chlorine Tolerance	<0.1 mg/L

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