

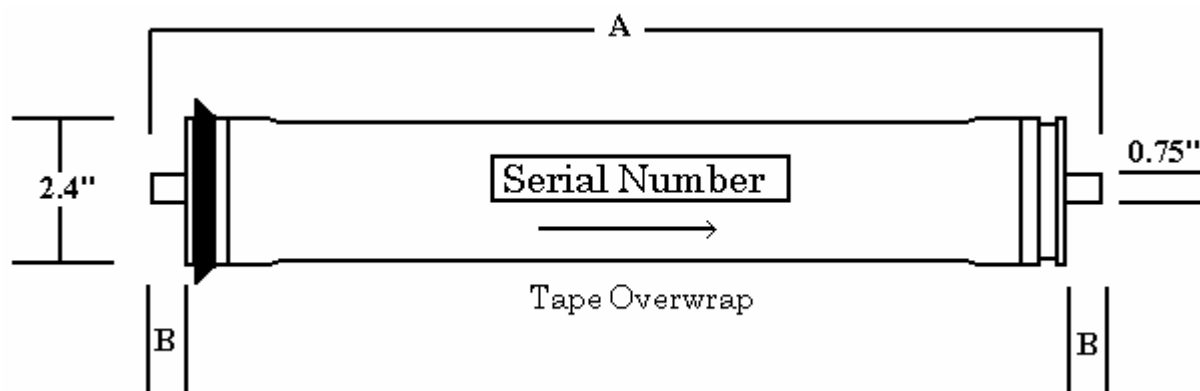
NANOFILTRATION-70  
2.5 INCH THIN FILM COMPOSITE MEMBRANE  
SPECIFICATIONS

Membrane Designed to fit a 2.45-2.5 Inch ID Housing or Pressure Vessel

**Application:** HCTI NF70 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	Dimension	Flow (GPD)	Rejection (%) (Monovalent Ion)		Rejection % Divalent
	A (Inches)	B (Inches)	Nominal	Min.	Nominal	(MgSO <sub>4</sub> ) <sup>2</sup>
MEM 2514 NF-70	14	1.1	125	60.0	70.0	99.5%
MEM 2521 NF-70	21	1.1	175	60.0	70.0	99.5%
MEM 2540 NF-70	40	1.1	350	60.0	70.0	99.5%

- 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.
- The stated performance is initial data taken after 30 minutes of operation based on the following divalent test conditions; 2000 mg/L MgSO<sub>4</sub> solution at 75 psig (0.5 MPa) applied pressure, 15% recovery, 77°F (25°C) and pH 6.5-7.0.
- All elements are vacuum sealed in a polyethylene bag containing 1.0% sodium bi-sulfite solution.



**Operating Limits**

Membrane Type	Thin-Film Composite
Maximum Operating Pressure	300psi (2.12 MPa)
Maximum feed flow rate	16 gpm (1.36 m <sup>3</sup> /h)
Minimum concentrate flow rate	1 gpm (0.23 m <sup>3</sup> /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