## Hydrocomponents & Technologies, Inc. www.hcti.com

1175-H Park Center Drive Vista, CA 92081 U.S.A

sales@hcti.com Tel: (760) 598-0189 Fax: (760) 598-2589

## NANOFILTRATION-90 4.0 INCH THIN FILM COMPOSITE MEMBRANE **SPECIFICATIONS**

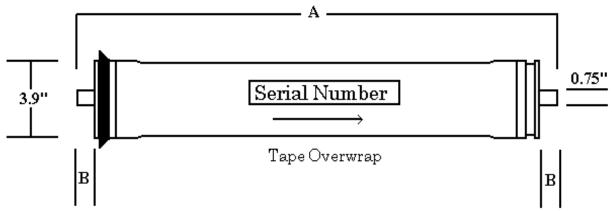
Membrane Designed to fit a 4.0 Inch ID Housing or Pressure Vessel

## ALL MATERIALS ARE NSF AND/OR FDA APPROVED WITH THE EXCEPTION OF THE ADHESIVE ON THE OUTER WRAP AND THE FIBERGLASS OUTER WRAP.

**Application:** HCTI NF90 elements with 90% monovalent ion rejection and more than 99% rejection of divalent ions are useful for water softening, removing endocrine disruption chemicals from drinking water and also food processing in small size systems

Model Number	Dimension	Dimension  B (Inches)	Flow (GPD)  Nominal	Rejection (%) (Monovalent Ion)		Rejection % Divalent
	A (Inches)			Min.	Nominal	$(MgSO4)^2$
MEM 4014 NF-90	14	1.1	700	85.0	95.0	99.5%
MEM 4021 NF-90	21	1.1	1000	85.0	95.0	99.5%
MEM 4040 NF-90	40	1.1	1900	85.0	95.0	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<sub>4</sub> 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% sodium bi-sulfite solution.



## **Operating Limits**

Free chlorine Tolerance

Membrane Type Maximum Operating Pressure Maximum feed flow rate Minimum concentrate flow rate pH Range, Continuous pH Range, Cleaning Cycle (30 min) Maximum Operating Temperature Maximum Feed Turbidity Maximum Feed Silt Density Index (15')

 $18 \text{ gpm} (4.09 \text{ m}^3/\text{h})$  $4.0 \text{ gpm } (0.91 \text{ m}^3/\text{h})$ 3 to 10 2 to 11 113° f (45° C) 1 NTU 5.0 <0.1 mg/L

Thin-Film Composite

300psi (2.12 MPa)