

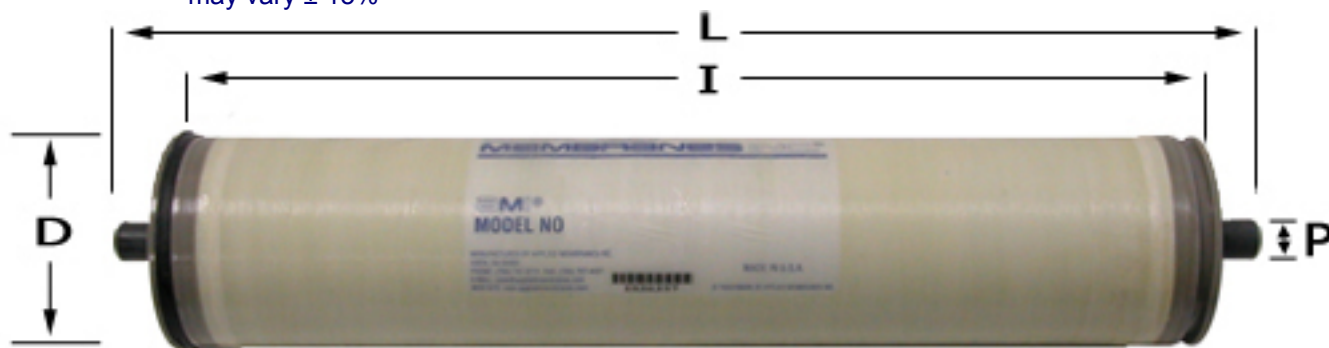
# AMI<sup>®</sup> MEMBRANES

## 4" SEAWATER FRP WRAPPED THIN FILM ELEMENTS

### PERFORMANCE SPECIFICATIONS

Model No.	Permeate Flow Rate		Minimum Salt Rejection %	Stabilized Salt Rejection (%)
	Gals/Day	M3/DAY		
M-S4021A	800	3.03	99.2	99.4
M-S4040A	1,950	7.38	99.2	99.4

**Note:** Performance specifications based on, 32,000 mg/l sodium chloride, 800 psi (5.5 MPa) applied pressure, 77°F (25°C) feed water temperature, pH 8 and % recovery as indicated below. Element permeate flow may vary  $\pm$  15%



### RECOMMENDED OPERATING CONDITIONS

Maximum applied pressure	1,000 PSI (6.9 MPa)
Maximum feed flow rate	18 gpm (4.1 m3/Hr.)
Maximum operating temperature	113°F (45°C)
Maximum feed water turbidity	1 NTU
Maximum feed water silt density index (15 min)	5
Chlorine tolerance	<0.1 ppm
Feed water pH range, Continuous Operation	2-11
Feed water pH range, Short-Term Cleaning (30 Minutes)	1-12
Single Element recovery percent: M-S4021A	4
Single Element recovery percent: M-S4040A	8

### DIMENSIONS

Model No.	L		I		D	
	Inches	MM	Inches	MM	Inches	MM
M-S4021A	21	533	19	483	3.9	99
M-S4040A	40	1,016	38	965	3.9	99

Applied Membranes, Inc. assumes no liability for results obtained or damages incurred through the improper application of the above information and data.

**APPLIED**  
**MEMBRANES INC.**

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## Important Operating Information

1. Elements must be kept sealed and moist when in storage. Drying out will irreversibly damage the membranes.
2. Prevent elements from freezing, or being exposed to direct sunlight.
3. Elements are shipped in sealed bags and contain a preservative solution of 1-2% (by weight) of sodium meta bisulfite (Food Grade).
4. Discard the permeate from the first hour of operation.
5. Permeate flow varies with feed water temperature. Divide the rated flow with the correction factor below to get the permeate flow at that temperature.

Temperature		Correction Factor
°C	°F	
5	41.0	2.58
6	42.8	2.38
7	44.6	2.22
8	46.4	2.11
9	48.2	2.00
10	50.0	1.89
11	51.8	1.78
12	53.6	1.68
13	55.4	1.61
14	57.2	1.54
15	59.0	1.47
16	60.8	1.39
17	62.6	1.34
18	64.4	1.29
19	66.2	1.24
20	68.0	1.19
21	69.8	1.15
22	71.6	1.11
23	73.4	1.08
24	75.2	1.04
25	77.0	1.00
26	78.8	0.97
27	80.6	0.94
28	82.4	0.91
29	84.2	0.88
30	86	0.85

6. Membrane Elements for residential systems have a one year warranty from the date of shipment. Warranty is void for membrane elements fouled by suspended solids, precipitates or biological growth. Membrane warranty is also void if the membrane elements are improperly used, poorly maintained or improperly stored.
7. Applied Membranes' obligation under this warranty is limited to and shall be fully discharged by repairing or replacing any defective part FOB its works. Applied Membranes shall not be liable for damages or delay caused by defective material. Please refer to detailed warranty information.
8. Warranty claims for membrane elements must be made as detailed in Membrane Warranty Claims Bulletin.