AG Series

FACT SHEET

Standard Brackish Water Reverse Osmosis Elements

The AG-Series standard brackish water reverse osmosis elements are characterized by high flux and high sodium chloride rejection. AG Series elements are selected when high rejection and operating pressures as low as 200 psi (1,379 kPa) are desired. These elements are considered a standard in the industry.

Table 1: Element Specification

Membrane	AG Series, thin-film membrane (TFM)

Model	Average Permeate Flow gpd (m^3/day) (1)(2)	Average NaCl Rejection (1)(2)	Minimum NaCl Rejection (1)(2)
AG2540TM	750 (2.8)	99.5%	99.0%
AG4026T	1,600 (6.1)	99.5%	99.0%
AG4040FM	2,400 (9.1)	99.5%	99.0%
AG4040TM	2,400 (9.1)	99.5%	99.0%
AG8040F	10,000 (37.9)	99.5%	99.0%
AG8040F-400	11,000 (41.6)	99.5%	99.0%
AG8040F-440	12,000 (45.4)	99.5%	99.0%

(1) Average salt rejection after 24 hours of operation. Individual flow rate may vary ±20%.
(2) Testing conditions: 2,000 ppm NaCl solution at 225 psi (1,551 kPa) operating pressure, 77°F (25°C), pH 7.5 and 15% recovery.

Table 2: Element Properties (3)

Model	Membrane Area ft² (m²)	Outer Wrap	Part Number
AG2540TM	27 (2.5)	Tape	1206729
AG4026T	60 (5.6)	Tape	1206756
AG4040FM	85 (7.9)	Fiberglass	3032513
AG4040TM	85 (7.9)	Tape	3032514
AG8040F	365 (33.9)	Fiberglass	3032515
AG8040F-400	400 (37.2)	Fiberglass	3032518
AG8040F-440	440 (40.9)	Fiberglass	3194307

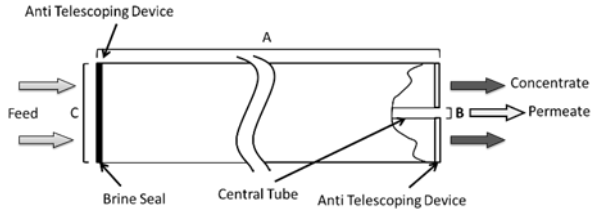

Figure 1: Element Dimensions Diagram – Female

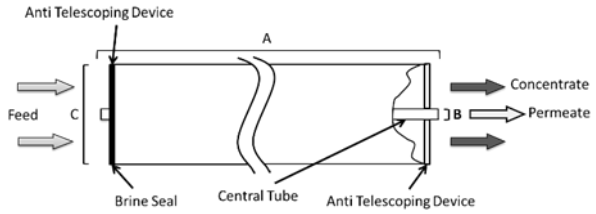

Figure 2: Element Dimensions Diagram – Male

Table 3: Dimensions and Weight [3]

Model	Type	Dimensions, inches (cm)			Boxed
		A	B	C	Weight lbs. (kg)
AG2540TM	Male	40.0 (101.6)	0.75 (1.90)	2.4 (6.1)	7 (3)
AG4026T	Female	26.0 (66.7)	0.625 (1.59)	3.9 (9.9)	9 (4)
AG4040FM	Male	40.0 (101.6)	0.75 (1.90)	3.9 (9.9)	11 (5)
AG4040TM	Male	40.0 (101.6)	0.75 (1.90)	3.9 (9.9)	11 (5)
AG8040F	Female	40.0 (101.6)	1.125 (2.86)	7.9 (20.1)	35 (16)
AG8040F-400	Female	40.0 (101.6)	1.125 (2.86)	7.9 (20.1)	35 (16)
AG8040F-440	Female	40.0 (101.6)	1.125 (2.86)	7.9 (20.1)	35 (16)

Table 4: Operating and CIP Parameters [3]

Typical Operating Pressure	200 psi (1,379 kPa)
Typical Operating Flux	10-20GFD (15-35 LMH)
Maximum Operating Pressure	Tape: 450 psi (3,103 kPa) Other outerwrap: 600 psi (4,137 kPa)
Maximum Temperature	Continuous operation: 122°F (50°C) Clean-In-Place (CIP): 122°F (50°C)
pH Range	Optimum rejection: 7.0-7.5, Continuous operation: 2.0-11.0, Clean-In-Place (CIP): 1.0-13.0 [4]
Maximum Pressure Drop	Tape: 7 psi (48 kPa) over an element, 25 psi (172 kPa) over the vessel Cage and FRP: 15 psi (103 kPa) over the element, 60 psi (413 kPa) over the vessel
Chlorine Tolerance	1,000+ ppm x hours, dechlorination recommended
Feedwater	NTU < 1 SDI_{15} < 5

[3] Element properties and parameters are indicative numbers. Specific values by element may vary within normal element manufacturing tolerances.
[4] Refer to Cleaning Guidelines Technical Bulletin TB1194

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