Water Technologies & Solutions

fact sheet

AG series

standard brackish water RO elements

The A-Series, family of proprietary thin-film reverse osmosis membrane elements, are characterized by high flux and high sodium chloride rejection. AG Standard Brackish Water Elements are selected when high rejection and operating pressures as low as 200 psi (1,379 kPa) are desired. These elements allow moderate energy savings, and are considered a standard in the industry.

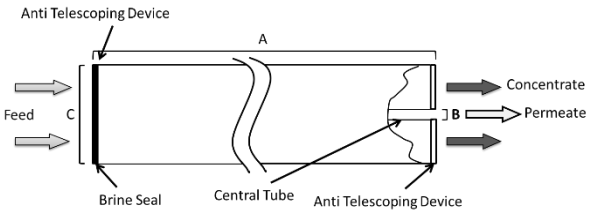
Table 1: Element Specification

Membrane	A-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%
AG4025T	1,600 (6.1)	99.5%	99.0%
AG4026F	1,600 (6.1)	99.5%	99.0%
AG4040C	2,400 (9.1)	99.5%	99.0%
AG4040FM	2,400 (9.1)	99.5%	99.0%
AG4040FM,34	2,200 (8.8)	99.5%	99.0%
AG4040TM	2,400 (9.1)	99.5%	99.0%
AG8040C	10,000 (37.9)	99.5%	99.0%
AG8040F	10,000 (37.9)	99.5%	99.0%
AG8040F 400	11,000 (41.6)	99.5%	99.0%
AG8040N	9,600 (36.3)	99.2%	98.5%
AG8040N 400	10,500 (39.7)	99.2%	98.5%
AG8340F 400	10,500 (39.7)	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.

Model	Membrane area ft^2 (m^2)	Outer wrap	Part Number
AG2540TM	27 (2.5)	Tape	1206729
AG4025T	60 (5.6)	Tape	1206754
AG4026F	60 (5.6)	Fiberglass	1206756
AG4040C	90 (8.4)	Cage	1206757
AG4040FM	85 (7.9)	Fiberglass	3032513
AG4040FM,34	80 (7.4)	Fiberglass	3154063
AG4040TM	85 (7.9)	Tape	3032514
AG8040C	380 (35.3)	Cage	1222546
AG8040F	365 (33.9)	Fiberglass	3032515
AG8040F 400	400 (37.2)	Fiberglass	3032518
AG8040N	365 (33.9)	Net	1231784
AG8040N 400	400 (37.2)	Net	1231786
AG8340F 400	400 (37.2)	Fiberglass	3048370



Note: **4040C elements do not feature brine seal.

Figure 1 : Element Dimensions Diagram – Female

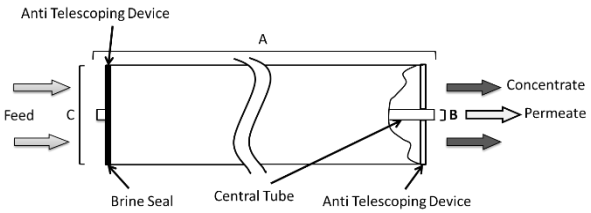


Figure 2: Element Dimensions Diagram – Male

Table 2: Dimensions and Weight

Model	Type	Dimensions, inches (cm)			Boxed
		A	B	C	Weight lbs. (kg)
AG2540*	Male	40.0 (101.6)	0.75 (1.90)	2.4 (6.1)	7 (3)
AG4025*	Female	25.0 (63.5)	0.625 (1.59)	3.9 (9.9)	7 (3)
AG4026*	Female	26.0 (66.7)	0.625 (1.59)	3.9 (9.9)	9 (4)
AG4040C	Female	40.0 (101.6) (1)	0.625 (1.59)	3.9 (9.9)	11 (5)
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)
AG8040*	Female	40.0 (101.6)	1.125 (2.86)	7.9 (20.1)	35 (16)
AG8340*	Female	40.0 (101.6)	1.125 (2.86)	8.3 (21.1)	45 (20)

(1) Includes interconnector, refer to Technical Bulletin TB1206.

Table 3: Operating and CIP parameters

Typical Operating Pressure	200 psi (1,379 kPa)
Typical Operating Flux	10-20GFD (15-35LMH)
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(1)
Maximum Pressure Drop	Over an element: 12 psi (83 kPa) Per housing: 50 psi (345 kPa)
Chlorine Tolerance	1,000+ ppm x hours, Dechlorination recommended
Feedwater	NTU < 1 SDI_{15} < 5

(1) Refer to Cleaning Guidelines Technical Bulletin TB1194.