

# 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.

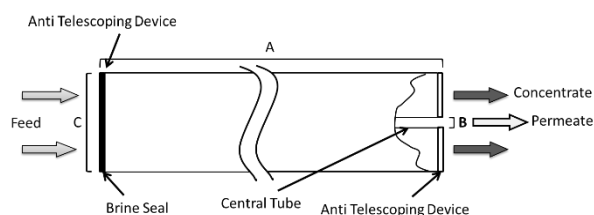
**Table 1: Element Specification**

| Membrane | A-Series, thin-film membrane (TFM*) |
|----------|-------------------------------------|
|----------|-------------------------------------|

| Model       | Average permeate flow gpd (m <sup>3</sup> /day) <sup>(1)(2)</sup> | Average NaCl rejection <sup>(1)(2)</sup> | Minimum NaCl rejection <sup>(1)(2)</sup> |
|-------------|---|--|--|
| 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%                                    |

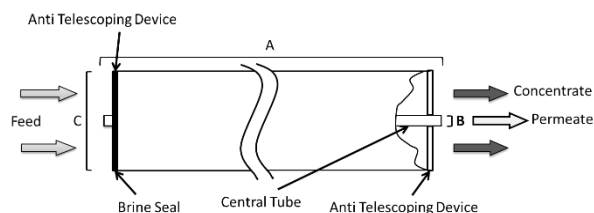
(1) Average salt rejection after 24 hours of operation. Individual flow rate may vary ±20%.  
 (2) Testing conditions: 2,000 ppm NaCl solution at 225 psi (1,551 kPa) operating pressure, 77°F (25°C), pH 7.5 and 15% recovery.

| Model       | Membrane area ft <sup>2</sup> (m <sup>2</sup> ) | 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**

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**Table 2: Dimensions and Weight**

| Model    | Type   | Dimensions, inches (cm) |                 |               | Boxed Weight lbs. (kg) |
|----------|--------|-------------------------|-----------------|---------------|------------------------|
|          |        | A                       | B               | C             |                        |
| AG2540*  | Male   | 40.0<br>(101.6)         | 0.75<br>(1.90)  | 2.4<br>(6.1)  | 7<br>(3)               |
| AG4025*  | Female | 25.0<br>(63.5)          | 0.625<br>(1.59) | 3.9<br>(9.9)  | 7<br>(3)               |
| AG4026*  | Female | 26.0<br>(66.7)          | 0.625<br>(1.59) | 3.9<br>(9.9)  | 9<br>(4)               |
| AG4040C  | Female | 40.0<br>(101.6) (1)     | 0.625<br>(1.59) | 3.9<br>(9.9)  | 11<br>(5)              |
| AG4040FM | Male   | 40.0<br>(101.6)         | 0.75<br>(1.90)  | 3.9<br>(9.9)  | 11<br>(5)              |
| AG4040TM | Male   | 40.0<br>(101.6)         | 0.75<br>(1.90)  | 3.9<br>(9.9)  | 11<br>(5)              |
| AG8040*  | Female | 40.0<br>(101.6)         | 1.125<br>(2.86) | 7.9<br>(20.1) | 35<br>(16)             |
| AG8340*  | Female | 40.0<br>(101.6)         | 1.125<br>(2.86) | 8.3<br>(21.1) | 45<br>(20)             |

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

**Table 3: Operating and CIP parameters**

|                                   |   |
|-----------------------------------|---|
| <b>Typical Operating Pressure</b> | 200 psi (1,379 kPa)   |
| <b>Typical Operating Flux</b>     | 10-20GFD (15-35LMH)   |
| <b>Maximum Operating Pressure</b> | Tape: 450 psi (3,103 kPa)<br>Other outerwrap: 600 psi (4,137 kPa)                                   |
| <b>Maximum Temperature</b>        | Continuous operation: 122°F (50°C)<br>Clean-In-Place (CIP): 122°F (50°C)                            |
| <b>pH Range</b>                   | Optimum rejection: 7.0-7.5,<br>Continuous operation: 2.0-11.0,<br>Clean-In-Place (CIP): 1.0-13.0(1) |
| <b>Maximum Pressure Drop</b>      | Over an element: 12 psi (83 kPa)<br>Per housing: 50 psi (345 kPa)                                   |
| <b>Chlorine Tolerance</b>         | 1,000+ ppm x hours,<br>Dechlorination recommended   |
| <b>Feedwater</b>                  | NTU < 1<br>SDI <sub>15</sub> < 5  |

(1) Refer to Cleaning Guidelines Technical Bulletin TB1194.