

AG LF series

low fouling brackish water reverse osmosis elements

The A-Series LF proprietary thin-film reverse osmosis (RO) membrane elements are characterized by high flow, high sodium chloride rejection and low fouling surface properties. AG LF brackish water elements are selected when high rejection and operating pressures as low as 200 psi (1,379 kPa) are desired. These elements are recommended for brackish water with salt concentration (TDS) levels between 1,000 and 10,000mg/l or when very high salt rejection of monovalent ions is required.

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) |
| AG4040F LF, WET | 2,300 (8.7) | 99.5% | 99.0% |
| AG8040F-400 LF, WET | 11,000 (41.6) | 99.5% | 99.0% |
| AG8040F-400 LF, 34 | 11,000 (41.6) | 99.5% | 99.0% |

(1) Average salt rejection after 24 hours of operation. Individual flow rate may vary ±20%.
 (2) Testing conditions: 2,000ppm NaCl solution at 225psi (1,550kPa) operating pressure, 77°F, pH7 and 15% recovery.

| Model | Active area ft ² (m ²) | Outer wrap | Part number |
|---------------------|---|------------|-------------|
| AG4040F LF, WET | 85 (7.9) | Fiberglass | 3056468 |
| AG8040F-400 LF, WET | 400 (37.2) | Fiberglass | 3056466 |
| AG8040F-400 LF, 34 | 400 (37.2) | Fiberglass | 3149711 |

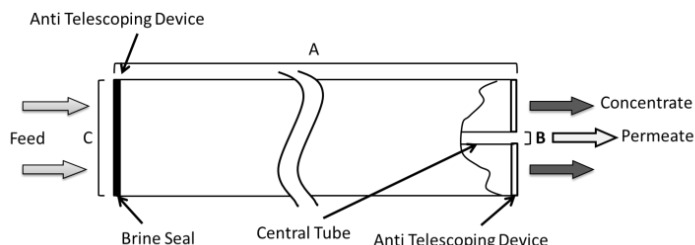


Figure 1: Element Dimensions Diagram - Female

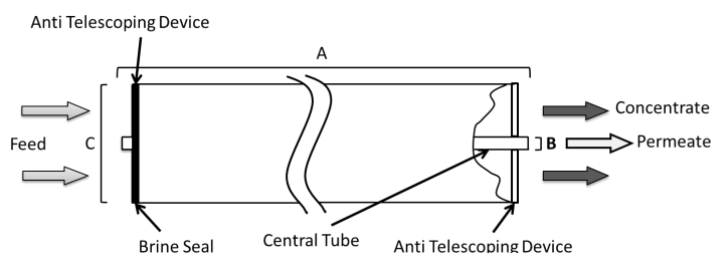


Figure 2: Element Dimensions Diagram - Male

Table 2: Dimensions and Weight

| Model | Type | Dimensions, inches (cm) | | | Boxed Weight lbs (kg) |
|---------|--------|-------------------------|--------------|------------|-----------------------|
| | | A | B | C | |
| AG4040* | Male | 40.0 (101.6) | 0.75 (1.9) | 3.88 (9.9) | 9 (4) |
| AG8040* | Female | 40.0 (101.6) | 1.125 (2.86) | 7.9 (20.1) | 35 (16) |

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Table 3: Operating and CIP parameters

| | |
|-----------------------------------|---|
| Typical Operating Pressure | 200 psi (1,380 kPa) |
| Typical Operating Flux | 10-20GFD (15-35LMH) |
| Maximum Operating Pressure | 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-hours, dechlorination recommended |
| Feedwater | NTU < 1 SDI ₁₅ < 5 |

(1) Refer to Cleaning Guidelines Technical Bulletin TB1194.