

# AG HR LF Series

## high rejection low fouling brackish water RO element

The A-Series family of proprietary thin-film reverse osmosis membrane are characterized by high flux and high sodium chloride rejection. AG HR LF Brackish Water Elements are selected for the treatment of impaired water when high rejection is desired. The AG HR LF membrane features a more neutral charge and therefore reduces interactions with potential foulants present in surface water or tertiary effluent.

**Table 1: Element Specification**

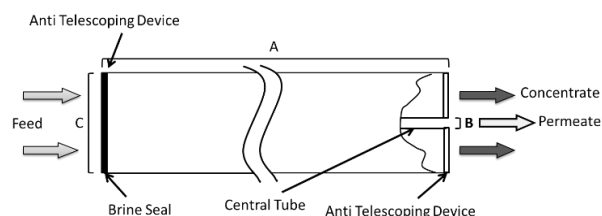
<b>Membrane</b>	A-Series, Thin-film membrane (TFM*)
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Model	Average permeate flow gpd (m <sup>3</sup> /day) (1)(2)	Average NaCl rejection (1)(2)	Minimum NaCl rejection (1)(2)
AG-90 LF	2300 (8.7)	99.8%	99.3%
AG-400 LF, 34	10500 (39.7)	99.8%	99.3%

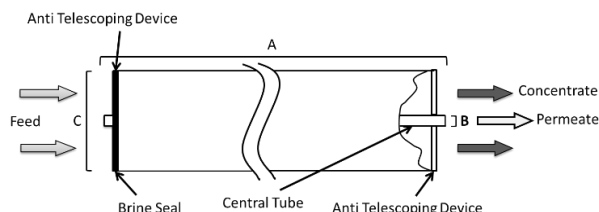
(1) Average salt rejection after 24 hours of operation. Individual flow rate may vary +25%/-20%.

(2) Testing conditions: 2,000ppm NaCl solution at 225psi (1,550kPa) operating pressure, 77°F (25°C), pH7 and 15% recovery.

Model	Active area ft <sup>2</sup> (m <sup>2</sup> )	Outer wrap	Part number
AG-90 LF	90 (8.4)	Fiberglass	3056674
AG-400 LF, 34	400 (37.2)	Fiberglass	3056675



**Figure 1a: Element Dimensions Diagram – Female**



**Figure 1b: Element Dimensions Diagram – Male**

**Table 2: Operating and CIP parameters**

<b>Typical Operating Pressure</b>	200 psi (1,380 kPa)
<b>Typical Operating Flux</b>	10-20GFD (15-35LMH)
<b>Maximum Operating Pressure</b>	600 psi (4,137 kPa)
<b>Maximum Temperature</b>	Continuous operation: 122°F (50°C) Clean-In-Place (CIP): 122°F (50°C)
<b>pH range</b>	Optimum rejection: 7.0-7.5, Continuous operation 4.0-11.0, Clean-In-Place (CIP): 1.0-13.0 (1)
<b>Maximum Pressure Drop</b>	Over an element: 12 psi (83 kPa) Per housing: 50 psi (345 kPa)
<b>Chlorine Tolerance</b>	1,000+ ppm-hours, dechlorination recommended
<b>Feedwater</b>	NTU < 1 SDI <sub>15</sub> < 5

(1) Please refer to Cleaning Guidelines Technical Bulletin TB1194.

**Table 3: Dimensions and Weights**

Model	Type	Dimensions, inches (cm)			Boxed Weight lbs (kg)
		A	B	C	
AG-90 LF	Male	40.0 (101.6)	0.75 (1.90)	3.9 (9.9)	9 (4)
AG-400 LF, 34	Female	40.0 (101.6)	1.125 (2.86)	7.9 (20.1)	35 (16)

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