AG HR LF Series

FACT SHEET

High rejection low fouling brackish water RO element

The A-Series family of proprietary thin-film reverse osmosis elements are characterized by high flux and high sodium chloride rejection. The AG HR LF Series is 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.

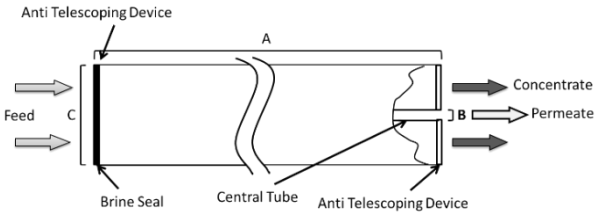

Figure 1: Element Dimensions Diagram – Female

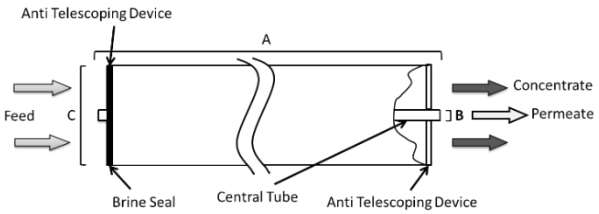

Figure 2: Element Dimensions Diagram – Male

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)
AG-90 LF	1875 (7.1)	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.

Table 2: Element Properties (3)

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

Table 3: Dimensions and Weights (3)

Model	Type	Dimensions, inches (cm)			Boxed
		A	B	C	Weight lbs (kg)
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)

Table 4: Operating and CIP Parameters (3)

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 (4)
Maximum Pressure Drop	Over an element: 15 psi (103 kPa) Per housing: 50 psi (345 kPa)
Chlorine Tolerance	1,000+ ppm-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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