AG LE Series

FACT SHEET

Low Energy Brackish Water RO Elements

The AG LE Series of thin-film reverse osmosis (RO) elements are designed to perform in brackish water applications where the customer and application seek to optimize energy performance with high rejection. AG LE Series elements optimize Veolia chemistry and manufacturing advancements to deliver differentiated performance over the life of the element.

Table 1: Element Specification

Membrane	Thin-film membrane, polyamide

Model	Average permeate flow gpd (m^3/day) (1,2)	Typical NaCl rejection (1,2)	Minimum NaCl rejection (1,2)
AG8040F-400 LE	8,500 (32.2)	99.0%	98.5%
AG8040F-440 LE	9,100 (34.5)	99.0%	98.5%

(1) Average salt rejection after 24 hours of operation. Individual flow rate may vary with a minimum of 6,800 gpd (25.7 m^3/day) for the AG8040F-400 LE and 7,280 gpd (27.6 m^3/day) for the AG8040F-440 LE.
(2) Testing conditions: 2,000 ppm NaCl solution at 150 psi (1,034 kPa) operating pressure, 77°F (25°C), pH 7 and 15% recovery.

Table 2: Element Properties (3)

Model	Active area ft^2 (m^2)	Outer wrap	Part number
AG8040F-400 LE	400 (37.2)	Fiberglass	3160987
AG8040F-440 LE	440 (40.9)	Fiberglass	3194309

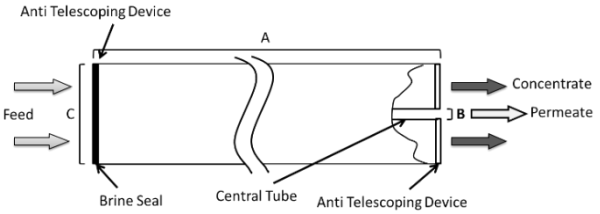

Figure 1: Element Dimensions Diagram – Female

Table 3: Dimensions and Weights (3)

Model	Type	Dimensions, inches (cm)			Boxed weight lbs (kg)
		A	B	C	
AG8040F-400 LE	Female	40.0 (101.6)	1.125 (2.86)	7.9 20.1)	35 (16)
AG8040F-440 LE	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	150 psi (1,034 kPa)
Typical Operating Flux	10-20 GFD (15-35 LMH)
Maximum Operating Pressure	600 psi (4,137 kPa)
Maximum Temperature	Continuous operation: 113°F (45°C)
pH Range	Continuous operation 2.0-11.0, Clean-In-Place (CIP): 1.0-12.0 (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) Please refer to Cleaning Guidelines Technical Bulletin TB1194.

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