

AG-400 FR,34

FACT SHEET

High rejection, fouling resistant brackish water RO element

The A-Series family of proprietary thin-film reverse osmosis membrane is characterized by high flux and high sodium chloride rejection. The AG-400 FR,34 brackish water element is selected when high rejection, fouling resistance and operating pressures as low as 200 psi (1,379 kPa) are desired. The element construction enhances feed flow to minimize fouling and optimize energy performance. In addition, AG-400 FR,34 elements enable more effective cleaning cycles and reduce cleaning frequency as well as the need for harsh chemicals.

Table 1: Element Specification

Membrane	A-series, thin-film membrane (TFM)
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Model	Average permeate flow gpd (m ³ /day) (1)(3)	Average NaCl rejection (2)(3)	Minimum NaCl rejection (2)(3)
AG-400 FR,34	11,000 (41.6)	99.8%	99.3%

(1) Individual flow rate may vary ±20%.
 (2) Stabilized salt rejection after 24 hours of operation.
 (3) Testing conditions: 2,000ppm NaCl solution at 225psi (1,550kPa) operating pressure, 77°F (25°C), pH 7 and 15% recovery.

Table 2: Element Properties (4)

Model	Active area ft ² (m ²)	Outer wrap	Feed Spacer (mil)	Part number
AG-400 FR,34	400 (37.2)	Fiberglass	34	3157478

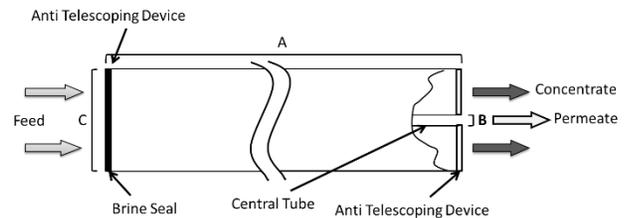


Figure 1: Element Dimensions Diagram – Female

Table 3: Dimensions and Weights (4)

Model	Type	Dimensions, inches (cm)			Boxed Weight lbs (kg)
		A	B	C	
AG-400 FR,34	Female	40.0 (101.6)	1.125 (2.86)	7.9 (20.1)	35 (16)

Table 4: Operating and CIP Parameters (4)

Typical Operating Pressure	200 psi (1,380 kPa)
Typical Operating Flux	10-20 GFD (15-35 LMH)
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 (5)
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

(4) Element properties and parameters are indicative numbers. Specific values by element may vary within normal element manufacturing tolerances

(5) Refer to Cleaning Guidelines Technical Bulletin TB1194