

The A-Series, family of proprietary thin-film reverse osmosis membrane elements are characterized by high flux and excellent sodium chloride rejection. AG High Rejection Brackish Water Elements are selected when high rejection and operating pressures as low as 200 psig (1,379 kPa) are desired. These elements allow moderate energy savings, and are considered a standard in the industry. AG4040FF High Rejection Brackish Water elements feature a FRP outerwrap and 27 mil feed spacers. This element is designed with male end connections.

**ELEMENT SPECIFICATIONS**

Model	Flow GPD	Flow (m <sup>3</sup> /d)	Active Area		Rejection		Part Number
			ft <sup>2</sup>	m <sup>2</sup>	Average	Minimum	
AG4040FF	2,200	8.3	85	7.9	99.5%	99.0%	1206761

Specifications are based on a 2000 mg/L NaCl solution at 225 psig feed pressure (1551kPa), 77deg F,(25deg C), 15% recovery, pH 7.5 after 24 hours. Individual flux may vary +25%/-15%.

**OPERATING AND DESIGN PARAMETERS**

Membrane: Thin Film Membrane (TFM®)  
 Typical Operating Pressure: 200psig (1379 kPa)  
 Maximum Pressure: 600psig (4137 kPa)  
 Maximum Temperature: 122°F (50°C)  
 Chlorine Tolerance: 1,000 ppm-hrs, Dechlorination recommended  
 Optimum rejection pH: 7.0 - 7.5  
 Operating pH range: 4.0 - 11.0  
 Cleaning pH range: 2.0 - 11.5  
 Maximum Pressure Drop: 10 psig (69kPa) per element  
 50 psig (345kPa) per vessel  
 Feed NTU: <1  
 Feed SDI: <3  
 Typical Operating Flux: 10 - 20 GFD (15-35 L.H-1.M-2)

**ELEMENT DIMENSIONS AND WEIGHT**

**MODEL NUMBER LEGEND**



Model	A inches (mm)	B inches (mm)	C* inches (mm)	Weight lbs (kg)
AG4040FF	40 (1016)	0.75 (19)	3.88 (99)	12 (5.5)

\* The element diameter (dimension C) is designed for optimum performance in Osmonics pressure vessels. Other pressure vessel dimension and tolerance may result in excessive bypass and loss of capacity.