

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. AG8040F High Rejection Brackish Water elements feature a FRP outerwrap and 27 mil feed spacers. This element is designed with flush end connections.

ELEMENT SPECIFICATIONS

Model	Flow		Active Area		Rejection		Part Number
	GPD	(m ³ /d)	ft ²	m ²	Average	Minimum	
AG8040F	9,200	34.8	350	32.5	99.0%	99.0%	1295779

Specifications are based on a 2000 mg/L NaCl solution at 200 psig feed pressure (1381 kPa), 77 deg F (25 deg C), 10% recovery, pH 7.5 after 24 hours. Individual flux may vary +25% - 15%.

OPERATING AND DESIGN PARAMETERS

Membrane: Thin Film Membrane (TFMB)
 Typical Operating Pressure: 200 psig (1379 kPa)
 Maximum Pressure: 600 psig (4137 kPa)
 Maximum Temperature: 122°F (50°C)
 Chlorine Tolerance: 1,000 ppm-hrs. Dechlorination recommended
 Optimum rejection pH: 7.0 - 7.6
 Operating pH range: 4.0 - 11.0
 Cleaning pH range: 2.0 - 11.5
 Maximum Pressure Drop: 10 psig (69 kPa) per element
 50 psig (345 kPa) per vessel
 Feed NTU: <1
 Feed SDI: <3
 Typical Operating Flux: 10 - 20 GPD (16-36 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)
AG8040F	40 (1016)	1.125 (29)	7.88 (200)	32 (14.5)

* 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.