UNIT OF MEASURE: BOTH | ENGLISH | METRIC

DESAL®
MEMBRANE PRODUCTS

AG4040TF

Brackish Water Desalination
Reverse Osmosis, High Rejection

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. AG4040TF High Rejection Brackish Water elements feature a tape outerwrap and 28 mil feed spacers. This element is designed with male end connections.

Element Specifications

Model	Flow	Active Area	Avg. Rejection	Min. Rejection	Part Number
AG4040TF	2,200 GPD (8.3 m^3/d)	85 ft^2 (7.9 m^2)	99.5%	99%	1206774

Specifications are based on a 2000 mg/L NaCl solution at 225 psig operating pressure (1551 kPa), 77°F (25°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: 200 psig (1,379 kPa)
Maximum Pressure: 450 psig (3,103 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 (69 kPa) per element
50 psig (345 kPa) 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

AG 4040 T F

- AG — Membrane Type
- 4040 — Element Size
- T — Outer Wrap: N - Net; T - Tube; F - Fiberglass; C - Durasan
- F — Center Tube: F - Stinger Style



Model	Dimension A	Dimension B	Dimension C*	Weight
AG4040TF	40" (1,016 mm)	0.75" (19 mm)	3.88" (99 mm)	12.0 lbs (5.4 kg)

*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.

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