

The A-Series, family of proprietary thin-film reverse osmosis membrane elements are characterized by high flux and excellent sodium chloride rejection. AK Low Pressure Brackish Water Elements are selected when high rejection and low operating pressures are desired. These elements allow significant energy savings since good rejection is achieved at operating pressures as low as 100 psig (689 kPa). AK3218T Low Pressure Brackish Water elements feature a tape outerwrap and 28 mil feed spacers. This element is designed with flush end connections.

Element Specifications

Model	Flow	Active Area	Avg. Rejection	Min. Rejection	Part Number
AK3218T	755 GPD (2.9 m ³ /d)	29 ft ² (2.7 m ²)	99%	98%	1206803

Specifications are based on a 500 mg/L NaCl solution at 115 psig operating pressure (793 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: 100 psig (690 kPa)

Maximum Pressure: 400 psig (2,758 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

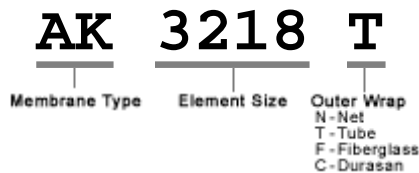
Feed NTU: <1

Feed SDI: <3

Typical Operating Flux: 10-20 GFD (15-35) L.H-1.M-2

Element Dimensions and Weight

Model Number Legend



Model	Dimension A	Dimension B	Dimension C*	Weight
AK3218T	18" (457 mm)	0.75" (19 mm)	3.20" (81 mm)	2.2 lbs (1.0 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.

Ametek Style- Designed to fit into an Ametek housing that has been equipped with a brine control valve.