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AK LE Series

High Flow Low Energy Brackish Water RO Elements

The A-Series family of proprietary thin-film reverse osmosis membrane is characterized by high flux and high sodium chloride rejection. AK LE brackish water elements are selected when high rejection, high flow and ultra-low operating pressures are desired.

The AK LE element is a low energy high flow element for beverage, light commercial, residential and general industrial applications. AK LE Series elements feature a Fiberglass outer wrap.

Table 1: Element Specification

Membrane

AK-400 LE

AK-440 LE

Model		Average permeate flow gpd (m3/day) ^{1,2}	Average NaCl rejection ^{1,2}	Minimum NaCl rejection ^{1,2}	
AK-90 LE		2800 (10.6)	99.3%	99.0%	

Thin-film membrane (TFM*)

99.3%

99.3%

99.0%

99.0%

12300 (46.6)

13500 (51.1)

² Testing conditions: 500ppm NaCl solution at 115psi (793kPa) operating pressure, 77°F (25°C), pH7 and 15% recovery.

Model	Active area ft² (m²)	Outer wrap	Part number	
AK-90 LE	90 (8.4)	Fiberglass	3056683	
AK-400 LE	400 (37.2)	Fiberglass	3056684	
AK-440 LE	440 (40.9)	Fiberglass	3056685	

Table 2: Operating and CIP parameters

³SDI is measured on a non-linear scale using a 0.45 micron filter paper. Additionally, finer colloids, particulates and microorganisms that pass through the filter paper and not measured in the SDI test, will potentially foul the RO element. For performance consistency and project warranty, please use Winflows projection software and consult your Filters with Membranes representative.

Figure 1a: Element Dimensions Diagram – Male

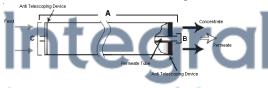
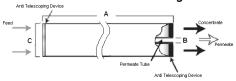


Figure 1b: Element Dimensions Diagram – Female



 $^{^{\}rm 1}$ Average salt rejection after 24 hours operation. Individual flow rate may vary +25%/-15%.

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Table 3: Dimensions and Weights

Model ¹	Туре	Dimensions, inches (cm)			Boxed
		Α	B ²	С	Weight lbs (kg)
AK-90 LE	Male	40.0 (101.6)	0.75 (1.90)	3.9 (9.9)	9 (4)
AK-400 LE	Female	40.0 (101.6)	1.125 (2.86)	7.9 (20.1)	35 (16)
AK-440 LE	Female	40.0 (101.6)	1.125 (2.86)	7.9 (20.1)	35 (16)



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