

Clariphex

BRANEX FRLE series – Extra Low Energy Brackish Water RO Membranes

Product description:

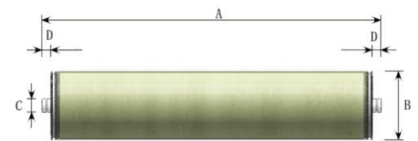
BRANEX FRLE membranes integrate superior fouling resistance with exceptional energy efficiency. Specifically engineered to treat feedwater prone to biofouling or organic contamination, these elements operate at approximately 30% lower pressure compared to conventional RO membranes—while maintaining an impressive rejection rate of up to 99.3%. This synergistic combination of performance characteristics makes the FRLE series an ideal solution for applications where both energy efficiency and anti-fouling capabilities are critical.

Product Highlights:

- * Operates at 30% lower pressure compared to conventional brackish water membranes
- * Delivers a high rejection rate of up to 99.3%, ensuring exceptional water quality
- * Advanced anti-fouling properties make it suitable for treating challenging feedwater

Product Dimensions:

Membrane Code	Dim. A		Dim. B		Dim. C		Dim. D	
	mm	inch	mm	inch	mm	inch	mm	inch
BRANEX-FRLE/34-8x40-400	1016	40	201	7.9	29	1.125		
BRANEX-FRLE/34-4x40-82	963	37.9	99	3.9	19	0.75	26.7	1.05



Product Specifications:

Membrane Code	Effective Area		Permeate flowrate		Min Rejection (%)	Stable Rejection (%)	Material
	(m ²)	(ft ²)	(m ³ /d)	(gpd)			
BRANEX-FRLE/34-8x40-400	37.2	400	40	10500	99.10	99.30	
BRANEX-FRLE/34-4x40-82	7.6	82	7.2	1900	99.00	99.30	

Note: Flux and rejection rate is based on the following standard test conditions: 1.55 MPa (225 psi) feedwater pressure, 25°C (77°F), 2,000 ppm NaCl solution, pH 8, 15% recovery.

Operation & Cleaning Limits:

- * Maximum Operating Pressure: 41 bar (600 psi)
- * Maximum Operating Temperature: 45°C (113°F)
- * Maximum Element Pressure Drop: 1.0 bar (15psi)
- * pH Range Continuous Operation: 2-11
- * pH Range Short-Term (Cleaning): 1-13
- * Maximum Feed SDI (SDI₁₅): 5.0
- * Free Chlorine Tolerance: < 0.1 ppm

Notes:

- * Permeate flow for individual elements may vary ±15 percent from the value specified.
- * Active membrane area guaranteed ±4%.
- * Stabilized salt rejection is generally achieved within 24-48 hours of continuous use; depending upon feedwater characteristics and operating conditions.