

Clariphex

BRANEX XFR series – Extra Fouling Resistance Brakish Water RO Membranes

Product description:

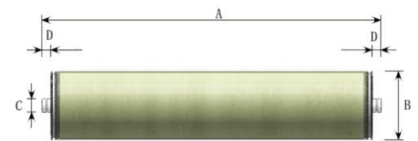
BRANEX XFR membranes stand as the pinnacle of anti-fouling technology, integrating optimized formulations, precise reaction conditions, and advanced post-treatment processes. The outcome is a membrane featuring a denser, more hydrophilic selective layer and an ultra-smooth surface. Its element structure has been meticulously optimized and constructed with premium materials—ensuring exceptional performance even in the most challenging applications. These membranes excel at purifying feedwater contaminated with biological and organic substances, delivering industry-leading resistance to organic fouling while maintaining outstanding cleanability.

Product Highlights:

- * Advanced anti-fouling technology delivers superior resistance to organic and biological contamination
- * Optimized membrane structure enhances durability and ensures long-term performance stability
- * High rejection rate combined with excellent flux characteristics for balanced efficiency

Product Dimensions:

Membrane Code	Dim. A		Dim. B		Dim. C		Dim. D	
	mm	inch	mm	inch	mm	inch	mm	inch
BRANEX-XFR-8x40-400	1016	40	201	7.9	29	1.125		
BRANEX-XFR/34-8x40-400	1016	40	201	7.9	29	1.125		
BRANEX-XFR-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-XFR-8x40-400	37.2	400	43	11350	99.40	99.60	
BRANEX-XFR/34-8x40-400	37.2	400	43	11350	99.40	99.60	
BRANEX-XFR-4x40-82	7.6	82	7.8	2050	99.40	99.60	

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.