

# Clariphex

## BRANEX FR series – Fouling Resistance Brackish Water RO Membranes

### Product description:

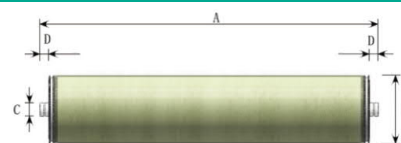
BRANEX FR membranes integrate advanced anti-fouling technologies to resist organic and microbial contamination. Specifically engineered for treating high-challenge water sources—including paper mill wastewater, dyeing wastewater, and industrial effluents from thermal power plants—these elements leverage proprietary surface modification techniques to optimize the membrane’s electrostatic charge and surface smoothness, while significantly enhancing its hydrophilicity. These targeted modifications substantially reduce the adhesion of pollutants and microorganisms, in turn lowering fouling rates and extending the membrane’s service life.

### Product Highlights:

- \* Enhanced fouling resistance enabled by advanced surface modification
- \* Optimized electrostatic properties minimize organic and microbial adhesion
- \* Improved hydrophilicity boosts water permeability while reducing fouling propensity
- \* Ideal for treating poor-quality feedwater from diverse industrial sources

### Product Dimensions:

Membrane Code	Dim. A		Dim. B		Dim. C		Dim. D	
	mm	inch	mm	inch	mm	inch	mm	inch
BRANEX-FR-8x40-400	1016	40	201	7.9	29	1.125		
BRANEX-FR/34-8x40-400	1016	40	201	7.9	29	1.125		
BRANEX-FR-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 <sup>2</sup> )	(ft <sup>2</sup> )	(m <sup>3</sup> /d)	(gpd)			
BRANEX-FR-8x40-400	37.2	400	42	11100	99.35	99.50	
BRANEX-FR/34-8x40-400	37.2	400	42	11100	99.35	99.50	
BRANEX-FR-4x40-82	7.6	82	7.6	2000	99.30	99.50	

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 (SDI<sub>15</sub>): 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.