

# Clariphex

## BRANEX HR series – High Rejection Brackish Water RO Membranes

### Product description:

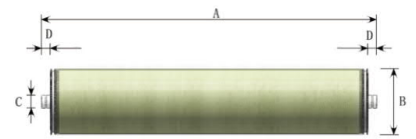
BRANEX HR membranes are purpose-engineered for brackish water desalination, delivering exceptional, consistent performance for industrial water treatment systems. These elements operate efficiently under low-pressure conditions, providing a cost-effective solution for industrial-grade water treatment. Notably, they exhibit high rejection efficiency for hard-to-remove dissolved contaminants—including total organic carbon (TOC) and silicon dioxide (SiO<sub>2</sub>).

### Product Highlights:

- \* Consistent performance with high rejection efficiency for salts and organic contaminants
- \* Low operating pressure reduces energy consumption and lowers operational costs
- \* Exceptional removal efficiency for challenging contaminants such as TOC and SiO<sub>2</sub>
- \* Available in 4" and 8" configurations to accommodate diverse system designs

### Product Dimensions:

Membrane Code	Dim. A		Dim. B		Dim. C		Dim. D	
	mm	inch	mm	inch	mm	inch	mm	inch
BRANEX-HR-8x40-400	1016	40	201	7.9	29	1.125		
BRANEX-HR-8x40-440	1016	40	201	7.9	29	1.125		
BRANEX-HR-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-HR-8x40-400	37.2	400	43	11350	99.40	99.70	
BRANEX-HR-8x40-440	41	440	48	12560	99.40	99.70	
BRANEX-HR-4x40-82	7.6	82	8.5	2250	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.