

# Clariphex

## FORTEX HCO series – Special Membranes for high COD Waste water

### Product description:

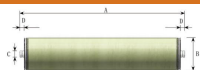
HCO-R50 builds on Clariphex field-proven fouling-resistant (FR) membrane technology, with targeted enhancements for highly polluted water sources with elevated COD levels. As an anti-fouling brackish water RO membrane element, it boasts improved sheet durability while integrating Clariphex proprietary anti-fouling innovations and robust membrane chemistry.

### Product Highlights:

- \* Increased flux at lower operation pressures
- \* Enhanced durability to withstand challenging water conditions
- \* Wide pH tolerance (1–13) enables aggressive cleaning protocols
- \* 34-mil spacer and 400 ft<sup>2</sup> membrane area boost cleaning efficiency
- \* Short membrane leaves reduce concentration polarization, enhance flow distribution and improve fouling resistance

### Product Dimensions:

Membrane Code	Dim. A		Dim. B		Dim. C		Dim. D	
	mm	inch	mm	inch	mm	inch	mm	inch
FORTEX-HCO-R50	1016	40	201	7.9	29	1.125		
FORTEX-HCO-R100	1016	40	201	7.9	29	1.125		



### 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)				
FORTEX-HCO-R50	37	400	42	11000	99.20	99.60		
FORTEX-HCO-R100	37	400	44	11500	99.40	99.70		

Note: Flux and rejection rate is based on the following standard test conditions: 1.55 MPa (225 psi) pressure, 25°C (77°F), 2,000 ppm NaCl solution, pH 8 for feedwater, and 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: 3-10
- \* pH Range Short-Term (Cleaning): 2-12
- \* 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.