

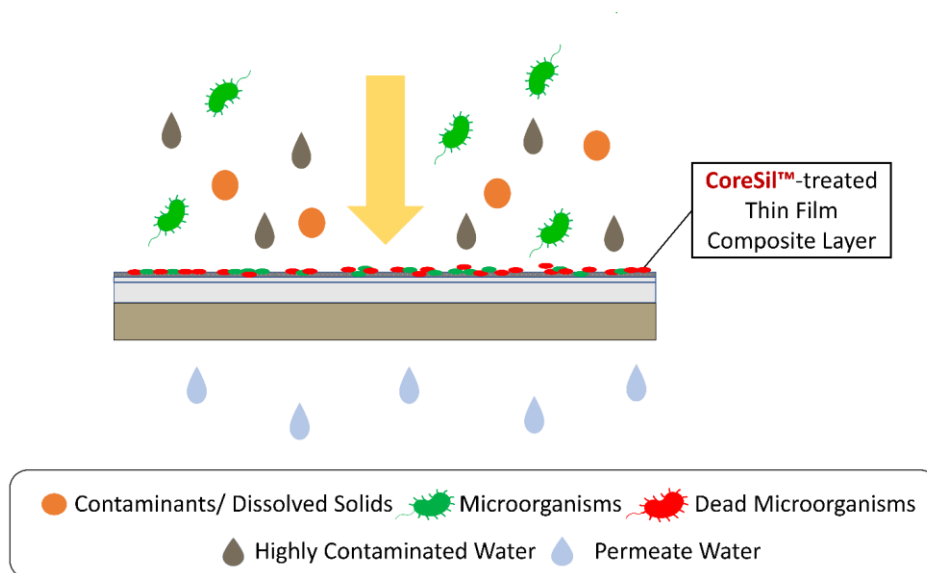


CoreSil™ Anti-fouling Fiberglass Wrapped RO

Advanced Brackish Water Membranes - 4040

Cactus Materials reverse osmosis membranes incorporate innovative CoreSil™ anti-fouling technology to provide superior performance for a wide range of applications, including wastewater treatment and non-potable water reuse. The fiberglass-wrapped brackish RO with CoreSil™ technology deliver high-quality permeate while removing contaminants of concern at low operating pressures. The polyamide thin-film composite membranes with CoreSil™ technology are best suited for applications with challenging feed conditions of high biological fouling potential.

- ❖ Hard fiberglass exterior provides added strength and withstands higher pressure drops than tape-wrapped elements.
- ❖ Reduces biological fouling rates and thus cleaning frequency (up to > 60%).
- ❖ More effective restoration of nominal performance after cleaning.
- ❖ Up to 19% less energy consumption at the same water productivity.
- ❖ CS-CPA5-LD-4040 brackish water RO membrane is designed with low differential pressure LD to reject all ions, including silica and nitrates.
- ❖ CS-CPA7-LD-4040 high-rejection brackish water RO offers the highest salt rejection in the industry.
- ❖ CS-LFC2-LD-4040 combines neutral surface charge and hydrophilicity to provide a significant reduction of fouling caused by organic and colloidal foulants.



Biofouling Control with CoreSil™ Membrane Technology

Product Specifications	CS-CPA5-LD 4040	CS-CPA7-LD 4040	CS-LFC2-LD 4040
Permeate Flow (gpd)	2,100	2,300	2,100
Salt Rejection (%)	99.7	99.8	99.7

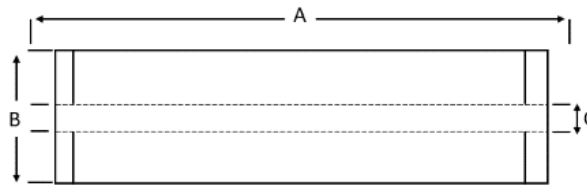
Type

Membrane Polymer:	Composite Polyamide
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Application Specification

Feed water pH Range, Continuous (Cleaning):	2-10 (1-12)	2-11 (1-13)	2-10 (1-12)
Maximum Operating Pressure:	600 psig		
Maximum Operating Temperature:	113 °F (45°C)		
Maximum Feed Water Turbidity:	1.0 NTU		
Maximum Feed Water SDI (15 min):	5.0		
Maximum Pressure Drop:	15 psig (0.10Mpa)		
Maximum Feed Flow	16 gpm		
Minimum Brine Flow	3 gpm		
Maximum Chlorine Concentration:	<0.1 ppm		

Test Conditions: 1500 ppm NaCl solution, 225 psig (1.55 MPa) applied pressure, 77 °F (25 °C) Operating Temperature, 15% Permeate Recovery, 6.5 - 7.0 pH Range.



Membrane Model	A	B	C	Active Area	Feed Spacer
	Inches	Inches	Inches	ft ²	mil
CS-CPA5-LD-4040	40	3.95	0.75	80	34
CS-CPA7-LD-4040	40	3.95	0.75	80	34
CS-LFC2-LD-4040	40	3.95	0.75	80	34

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