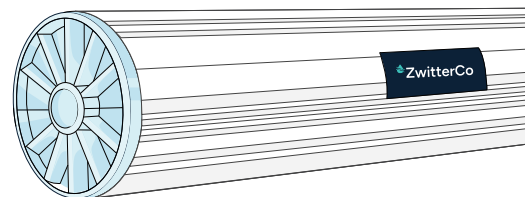


Elevation

High Pressure RO Membrane



ZwitterCo Elevation RO membranes are powered by ZwitterShield™ technology. ZwitterShield is an additive membrane technology using ZwitterCo's patented zwitterionic chemistry that may be bonded to proven membrane chemistries to equip them with a permanent barrier to irreversible organic fouling.



Protection against irreversible fouling with ZwitterShield™

Operates up to
1200 psi feed pressure

Main Benefits

Reduce chemical costs by up to 90%

More system uptime

Faster cleaning cycles

Most reliable, easiest & safest operations

Ideal Applications

Landfill Leachate

High Salinity Industrial Wastewater

Membrane Element Specification

Element Size	Membrane Area ft ² (m ²)	
	34 mil spacer	50 mil spacer
8040	400 (37.2)	270 (25)
4040	80 (7.4)	60 (5.6)

Performance Specifications

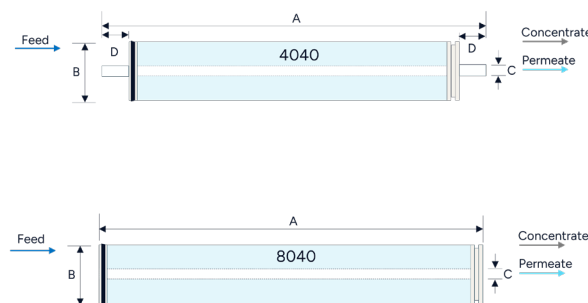
Membrane Chemistry	Polyamide RO with ZwitterShield™
Stabilized Salt Rejection - %	99.5
Minimum Salt Rejection - %	99.2

The specifications outlined above are normalized performances based on the following test conditions: 1,500 ppm NaCl, 225 psi (15.5 bar), 25°C (77°F), pH 8, and 15% recovery. Product specifications may change without notice as design revisions occur.

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High Pressure RO Membrane

Dimensions in. (mm)			
Size		8040	4040
A	Element Length in (mm)	40 (1016)	40 (1016)
B	Element Diameter in (mm)	7.9 (201)	3.9 (99)
C	Permeate Tube Diameter in (mm)	1.125 (28.6)	0.75 (19)
D	Male Permeate Tube Length Past Scroll End in (mm)	-	1.05 (26.7)



Operating Specifications	
Max Operating Pressure - psi (bar)	1,200 (83)
Max Pressure Drop (per element) – psi (bar)	15 (1)
Max Pressure Drop (per vessel) – psi (bar)	60 (4)
Max Operating Temp - °C (°F)	45 (113)
pH Range: Continuous Operation	2-10
pH Range: Cleaning	1-12
Free Chlorine Tolerance – ppm*	< 0.1

Pre-treatment is recommended for the removal of free chlorine and other oxidizing agents to prevent damage to membranes. Oxidizing agents, such as free chlorine, in contact with ZwitterCo Elevation RO may result in shortened operating life or membrane failure. Such oxidation damage is excluded from the warranty.

Operating Information

1. ZwitterCo Elevation RO elements are shipped wet, preserved with 1% food-grade sodium metabisulfite, and vacuum-sealed in oxygen-minimizing bags. Each element is boxed individually. Elements must be stored in original packaging in a cool, shaded environment (23°F to 95°F / -5°C to 35°C). Freezing during transit does not damage the elements, but they must be fully thawed before use.
2. Operational guidelines and chemical compatibility must be followed as specified in ZwitterCo technical guide for ZwitterCo Elevation RO elements. For optimal performance and system design, refer to the latest technical resources, design tools, or consult a ZwitterCo application specialist. Deviation from stated conditions or use of incompatible chemicals may impact membrane performance and may void the Limited Warranty.