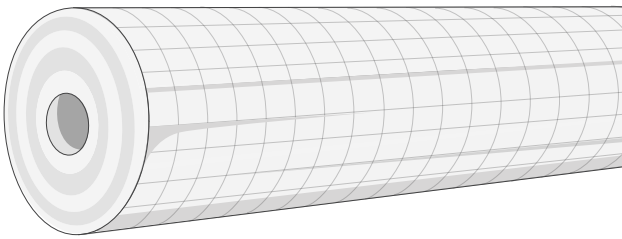
Evolution

RO Membrane



Faster, Simpler, Lower-Cost Cleaning

ZwitterCo Evolution RO anti-fouling membranes are powered by ZwitterShield™, an additive membrane technology using ZwitterCo's patented zwitterionic chemistry that is bonded to proven membrane chemistries to equip them with a permanent barrier to irreversible organic fouling and prevent the adhesion of protein, fats, and other organic compounds.

Main Benefits

- Reduce cleaning costs by over 50%
- Save over 40% in cleaning related water usage
- Reduce cleaning time by 1 hour or more per day

Ideal Applications

- Industrial Product Concentration
- Effluent or Wastewater Concentration

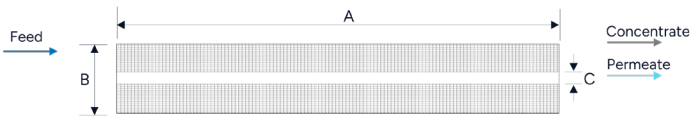
Product Specifications

Element Size	8038	7838	3838
Membrane Area - ft^2 (m^2)	370 (34.3)	350 (32.5)	75 (7.0)
Feed Spacer – mil	30		
Membrane Chemistry	Polyamide with ZwitterShield™		

Evolution

RO Membrane

Dimensions in. (mm)				
Size		8038	7838	3838
A	Element Length in (mm)	38 (965)	38 (965)	38 (965)
B	Element Diameter in (mm)	7.9 (201)	7.7. (197)	3.8 (96)
C	Permeate Tube Diameter in (mm)	1.125 (28.6)	1.125 (28.6)	0.83 (21.1)



Operating Specifications	
Max Operating Pressure - psi (bar)	600 (41)
Max Pressure Drop (per element) – psi (bar)	15 (1)
Max Pressure Drop (per vessel) – psi (bar)	60 (4)
Max Operating Temp - °C (°F)	40 (104)
Max Cleaning Temp - °C (°F)	40 (104)
pH Range: Continuous Operation	2-10
pH Range: Cleaning	1-12
Free Chlorine Tolerance – ppm*	< 0.1

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

Operating Information

1. ZwitterCo Evolution 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 Evolution RO technical manual. 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.

ZwitterCo
12 Cabot Road, Suite B
Woburn, MA 01801

Contact Us
zwitterco.com
sales@zwitterco.com

ZwitterCo