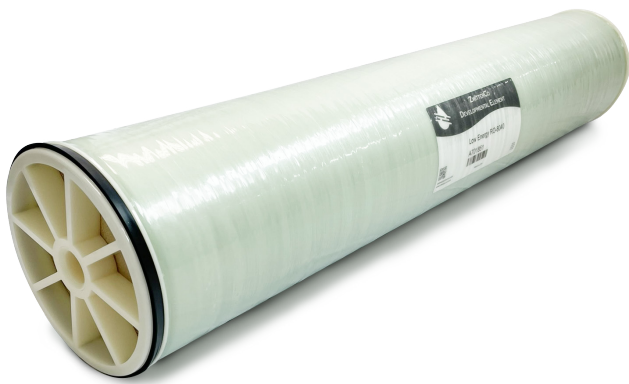


PRELIMINARY PRODUCT SPECIFICATION - 2540/4040

ZwitterCo High Pressure RO Elements



The First RO Membrane that Reduces Cleaning Frequency by up to 90%

ZwitterCo has developed the world's **most fouling-resistant** brackish water RO membrane that allows for full performance recovery. It is so resistant to fouling that performance may be restored with less frequent cleaning. ZwitterCo RO elements require **no system modifications** or capital investment for easy implementation.

We Help You:

- Reduce operating costs
- Increase system uptime
- Experience longer element life
- Achieve sustainability & safety goals

**REDUCE CLEANING FREQUENCY IN YOUR
OPERATIONS BY AS MUCH AS 90%.**

Contact us to learn more about our solutions or to try our products in your facility.

Preliminary Product Specification

ZwitterCo High Pressure RO Elements

ELEMENT PROPERTIES

| Parameter | 2540 | 4040 |
|--|----------|----------|
| Active Area (ft ² /m ²) | 27 (2.5) | 80 (7.4) |
| Stabilized salt rejection - % | 99.5 | |
| Minimum salt rejection - % | 99.2 | |
| Feed spacer - mil | 34 | |

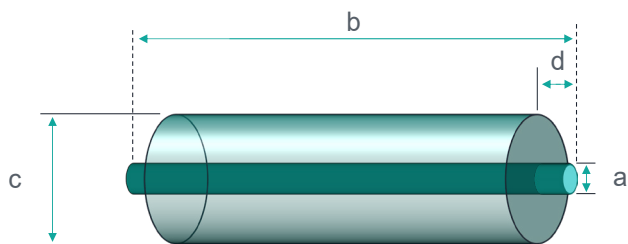
Test Conditions: 1,500 ppm NaCl, 225 psi (15.5 bar), 25°C (77°F), pH 8, and 15% recovery. Product specifications may change without notice as design revisions occur.

OPERATING SPECIFICATIONS

| Parameter | Units |
|---|------------|
| Max operating pressure - psi (bar) | 1,200 (83) |
| Max pressure drop (per element) - psi (bar) | 15 (1) |
| Max pressure drop (per housing) - psi (bar) | 60 (4) |
| Max operating temperature - °C (°F) | 40 (104) |
| pH range: Continuous operation | 2 - 10 |
| pH range: Cleaning (short-term) | 1 - 12 |
| Max SDI ₁₅ | 5 |
| Max turbidity - NTU | 1 |
| Free chlorine tolerance - ppm* | <0.1 |

* Pretreatment 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 RO may result in shortened operating life or membrane failure. Such oxidation damage is excluded from warranty.

ELEMENT DIMENSIONS



| Measurement - in (mm) | a | b | c | d |
|-----------------------|-----------|------------|----------|-------------|
| 2540 | 0.75 (19) | 40 (1,016) | 2.4 (61) | 1.2 (30.2) |
| 4040 | 0.75 (19) | 40 (1,016) | 3.9 (99) | 1.05 (26.7) |