

## 8" Acid-resisting Spiral Wound Nanofiltration Elements

### Description:

Acid-resisting (pH=0)

Application for lithium extraction and acid recovery

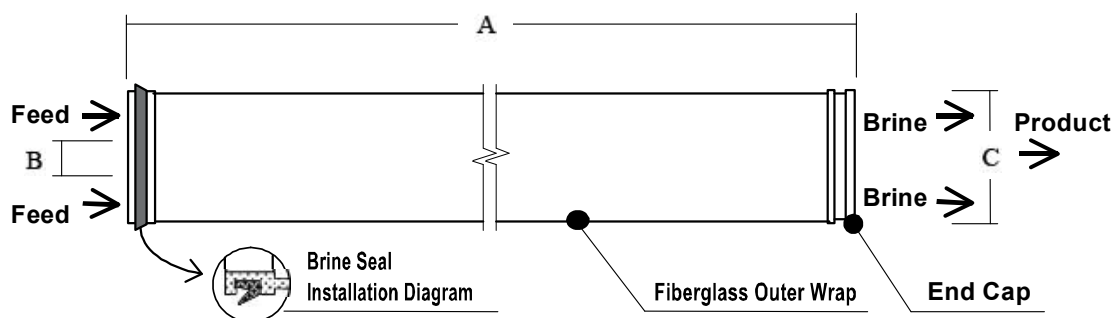
### Specifications:

| Model           | Permeate Flow<br>GPD(m <sup>3</sup> /day) | Active Membrane<br>Area ft <sup>2</sup> (m <sup>2</sup> ) | Stabilized<br>Salt Rejection | Minimum<br>Salt Rejection | Feed spacer<br>mil(mm) | Test Conditions                    |
|-----------------|-------------------------------------------|-----------------------------------------------------------|------------------------------|---------------------------|------------------------|------------------------------------|
| NF-8040-AR (34) | 7000 (26.5)                               | 370 (34)                                                  | 95%                          | 93%                       | 34 (0.85)              | 110psi / 2000ppm MgSO <sub>4</sub> |

1. All performance data are collected at 25°C (77°F), pH7.5 and 15% recovery rate.

2. Permeate flows for single element may vary ±15%.

### Element Dimension:



| Product         | Dimensions – Inches (mm) |            |           |
|-----------------|--------------------------|------------|-----------|
|                 | A                        | B          | C         |
| NF-8040-AR (34) | 40.0 (1016)              | 1.125 (29) | 7.9 (201) |

\* 1 inch= 25.4 mm

## Operating Limits for Design:

|                                             |               |
|---------------------------------------------|---------------|
| Maximum Operating Temperature.....          | 45°C(113°F)   |
| Maximum Operating Pressure.....             | 600psi(41bar) |
| Maximum Pressure Drop (single element)..... | 15psi(1.0bar) |
| pH Range for Continuous Operation.....      | 0-11          |
| pH Range for Cleaning.....                  | 0-12          |
| Chlorine tolerance.....                     | <0.1ppm       |
| Maximum Feed SDI.....                       | 5             |

