

# Residential RO Membrane Elements I

## Introduction:

Ospura reverse osmosis (RO) membrane elements for household drinking water are some of the most reliable and consistent products in the industry. Advanced membrane technology, coupled with well-controlled element rolling, allows Ospura to produce RO Membrane Elements with stable performance. Ospura's first class RO Membrane Element quality helps customers develop and maintain brand recognition, along with a reputation for building systems that reliably provide low impurity drinking water. Ospura elements are uniquely engineered for their high level of salt rejection with minimum compromise in water flux. Ospura RO Membrane Elements have been certified by NSF (National Sanitation Foundation).

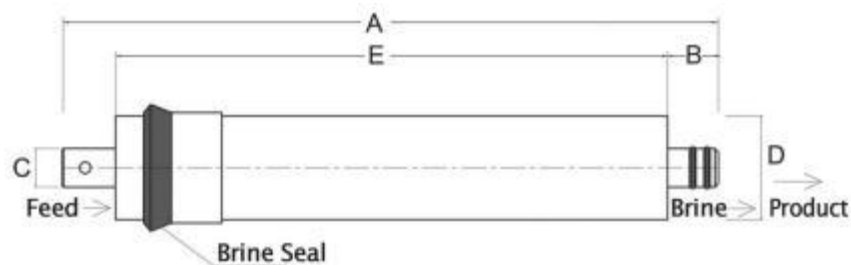
## Specifications:

| Specification<br>Item         | Specification      |
|-------------------------------|--------------------|
|                               | <b>OSP-1810-36</b> |
| Water Yield (GPD)             | 36                 |
| Stabilized Salt Rejection (%) | 97                 |

\* Test Condition: 25°C, 250PPM NaCl solution, 60PSI and 35% recovery rate

\* Permeate flows for single element may vary  $\pm 15\%$ .

## Dimension:



| Model No.       | Dimension- Inches (mm) |           |           |             |            |
|-----------------|------------------------|-----------|-----------|-------------|------------|
|                 | A                      | B         | C         | D           | E          |
| <b>OSP-1810</b> | 10.07 (256)            | 0.87 (22) | 0.68 (17) | 1.75 (44.5) | 9.05 (230) |

\* Home Drinking Water elements seal at a standard 2.0 inch I.D. within pressure vessels

1 inch=25.4 mm

## Operating Limits for Design:

|                                              |                               |
|----------------------------------------------|-------------------------------|
| Membrane Type .....                          | Polyamide Thin-Film Composite |
| Maximum Operating Temperature .....          | 113°F /45°C                   |
| Maximum Operating Pressure .....             | 300psi(21bar)                 |
| pH range, Continuous Operation .....         | 2-11                          |
| pH range, Short-Term Cleaning (30 min) ..... | 1-12                          |
| Maximum Feed Silt Density Index(SDI) .....   | 5                             |
| Free Chlorine Tolerance .....                | <0.1ppm                       |

## Important Operation Notes:

- When this product is used for the first time, permeate water obtained from the first hour of use should be discarded.
- Keep elements moist at all times after initial wetting.
- If operating limits and guidelines given in this Product Information Bulletin are not strictly followed, the Limited Warranty will be null and void.
- To prevent biological growth during prolonged system shutdowns, it is recommended that membrane elements be immersed in a preservative solution. Rinse out the preservative before use.
- The OEM is fully responsible for the effects of incompatible chemicals and lubricants on elements. Use of any such chemicals or lubricants will void the Limited Warranty.

