

Residential RO Membrane Elements I

Introduction:

ULTRAMAR Water 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 ULTRAMAR Water to provide RO Membrane Elements with stable performance. ULTRAMAR Water'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. ULTRAMAR Water elements are uniquely engineered for their high level of salt rejection with minimum compromise in water flux. ULTRAMAR Water RO Membrane Elements have been certified by NSF (National Sanitation Foundation).

Specifications:

Specification Item	Specification						
	UW-1812-24	UW-1812-36	UW-1812-50	UW-1812-75	UW-1812-100	UW-1810-36	UW-1810-50
WaterYield (GPD)	24	36	50	75	100	36	50
Stabilized Salt Rejection (%)	96	96	6	96	96	96	96

* Test Condition: 25°C, 250PPM NaCl solution, 60PSI and 15% recovery rate

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

Dimension:



Model No.	Dimension- Inches (mm)				
	A	B	C	D	E
UW-1812	11.75 (298)	0.87 (22)	0.68 (17)	1.75 (44.5)	10.00 (254)
UW-1810	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.