

# Aquaporin Inside<sup>®</sup> Membranes

Tap Water Reverse Osmosis Element



- ✓ Revolutionary high water flow for most efficient water treatment
- ✓ Enables water treatment with low energy consumption
- ✓ High rejection of harmful pollutants ensures safe and healthy drinking water
- ✓ Manufactured in Europe using Nature's water channels

## Product type

The Aquaporin Inside<sup>®</sup> Tap Water Reverse Osmosis (TWRO) membrane element is produced with aquaporin proteins, Nature's own water filter. It is the aquaporin protein that provides Aquaporin Inside<sup>®</sup> membranes with its unique properties.

All Aquaporin Inside<sup>®</sup> TWRO membranes are available in standard configurations and can easily fit into any point-of-use residential RO system.

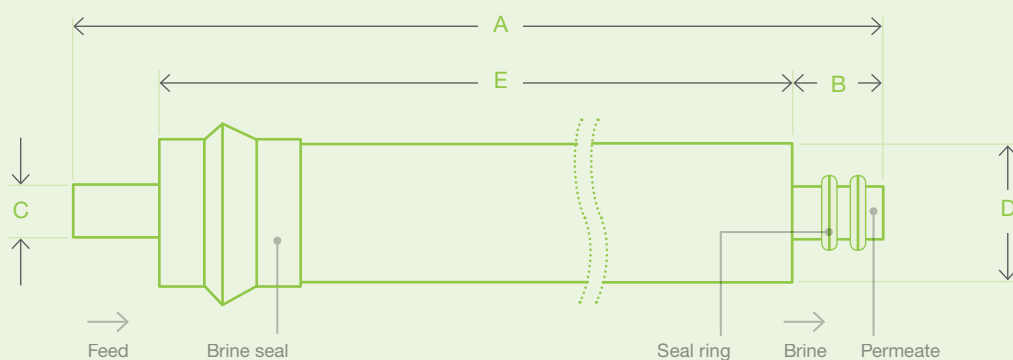
## Product specifications

Product name	Permeate flow rate		Stabilized salt rejection (%)	Applied pressure (psi)	Recovery (%)
	GPD	L/h			
AQP TWRO 1812-150	175	28	96	60	15

The stated product performances are based on 250 ppm softened tap water at 25°C / 77°F. Individual element permeate flow rate may vary ± 15%

## AQP TWRO 1812-150

### Element dimensions



Product name	Dimensions (inches / millimeters)				
	A	B	C	D	E
AQP TWRO 1812-150	11.7 / 296	0.87 / 22	0.68 / 17.2	1.75 / 44.5	10 / 255

Aquaporin A/S reserves the right to change specifications without prior notice.  
AQP TWRO 1812-150 elements seal at a standard 2.0-2.05 inch inner diameter pressure vessel.

### Operating specifications

Maximum operating pressure	150 psi (10 bar)	pH range	2-11
Maximum operating temperature	45°C (113°F)	Free chlorine tolerance	< 0.1 mg/L
Maximum feed flow rate	2.5 gpm (9.5 lpm)		

### Additional information

- ✓ To prevent biological growth during prolonged system shutdowns, it is recommended that membrane elements be immersed in a preservative solution. Rinse out the preservative solution before use.
- ✓ Elements contained in the boxes must be kept dry at room temperature (7-32°C / 40-95°F) and should not be stored in direct sunlight. If the polyethylene bag is damaged, a new preservative solution (sodium bisulfite) must be added and air-tight sealed to prevent drying and biological growth.
- ✓ Keep elements moist at all times after initial wetting.
- ✓ The presence of free chlorine and other oxidizing agents can cause premature membrane failure. Since oxidation damage is not covered under warranty, Aquaporin A/S recommends removing residual free chlorine by pretreatment prior to membrane exposure.
- ✓ The information provided in this document is for informative purposes only. It is the responsibility of the user to ensure appropriate usage of this product. Aquaporin A/S assumes no obligation, liability, or damages incurred for the misuse of the product or for the information provided in this document. This document does not express or imply any warranty as to the merchantability or fitness of the products.

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