AQUAPORIN INSIDE® DWRO™ MEMBRANES

Drinking 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 using Nature's own water filters

PRODUCT TYPE

The Aquaporin Inside® Drinking Water Reverse Osmosis (DWRO™) membrane element is produced with aquaporin proteins, Nature's own water filters. It is the aquaporin protein that provides Aquaporin Inside® membranes with their unique properties.

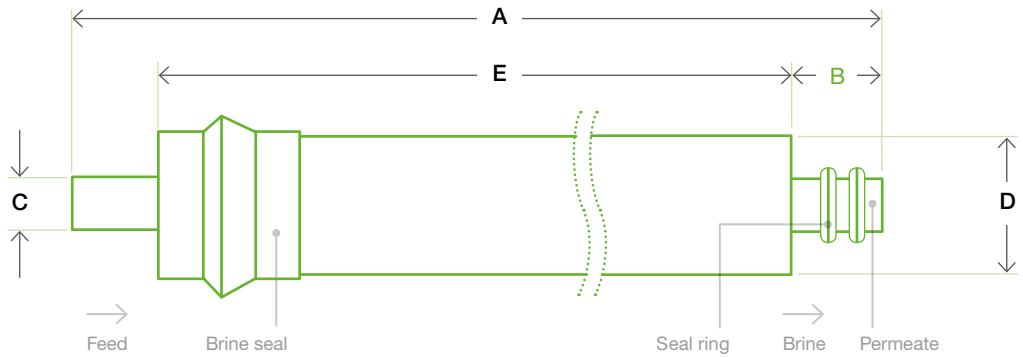
All Aquaporin Inside® DWRO™ membranes are available in standard configurations and can easily fit into any conventional point-of-use residential or commercial RO system.

PRODUCT SPECIFICATIONS

Product name	**DWRO™ 1812-150**
Permeate flow rate	**150 GDP / 23.7 L/h**
Minimum NaCl rejection	**96 %**
Typical NaCl rejection	**98 %**
Applied pressure	**60 psi**
Recovery	**15 %**

The stated product performances are based on 250 ppm NaCl solution at 25°C / 77°F. Permeate flow rate and typical rejection are stated after 24 hours of stabilization. Individual element permeate flow rate may vary ±15%.

ELEMENT DIMENSIONS



	Dimensions (inches / millimeters)				
Product name	A	B	C	D	E
DWRO™ 1812-150	**11.73 / 298.0**	**0.87 / 22.0**	**0.67 / 17.0**	**1.85 / 47.0**	**9.25 / 235**

Aquaporin A/S reserves the right to change specifications without prior notice.
DWRO™ 1812-150 elements fit standard 1812 pressure vessels with nominal 52 mm (2.05 inches) inner diameter.

OPERATING SPECIFICATIONS

Maximum operating pressure	**125 psi (8.6 bar)**	Maximum feed water turbidity	**1 NTU**
Maximum operating temperature	**45 °C (113 °F)**	Operating pH range	**3-10**
Maximim feed flow rate	**2.0 gpm (450 L/h)**	Cleaning pH range	**2 - 11 (25 °C)**
Maximum feed water SDI	**5 (15 min)**	Free chlorine tolerance	**< 0.1 ppm**

ADDITIONAL INFORMATION

- ✓ Permeate from the first hour of operation should be discarded. Do not use this initial permeate for drinking or food preparation.
- ✓ 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.
- ✓ Keep elements moist at all times after initial wetting.
- ✓ Surface and color variations may occur on the flat sheet membrane but will not affect the performance.
- ✓ 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 implies any warranty as to the merchantability or fitness of the products.

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