

# Aquaporin Inside® DWRO™ 1812-100

**Drinking Water Reverse Osmosis** 





Revolutionary high water flow for efficient water treatment



High rejection of harmful pollutants ensures safe and healthy drinking water



Biomimetic product incorporating nature's water channels

### PRODUCT TYPE

The Aquaporin Inside® Drinking Water Reverse Osmosis (DWRO™) membrane elements are biomimetic products that get their unique properties from their embedded aquaporin proteins, nature's water channels.

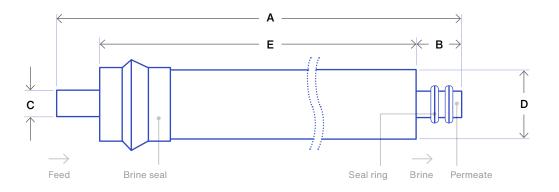
The Aquaporin Inside® DWRO™ membranes are available in standard configurations and can easily fit into any conventional point-of-use residential or commercial RO system.

# PRODUCT SPECIFICATIONS

Product name	Item no.	Permeate flow rate	Minimum NaCl rejection	Typical NaCl rejection	Applied pressure	Recovery
Aquaporin Inside® DWRO™ 1812-100	40060	100 GPD 15.8 L/h	96 %	98 %	60 psi	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	А	В	С	D	E
Aquaporin Inside® DWRO™ 1812-100	11.73 / 298.0	0.87 / 22.0	0.67 / 17.0	1.73 / 44.0	9.25 / 235

Aquaporin A/S reserves the right to change specifications without prior notice.

DWROTM 1812-100 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.
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