LENNTECH
WATER TREATMENT SOLUTIONS

Aquaporin Inside® CLEAR Plus 4040 & 4040XL

High Capacity Low Energy Advanced Reverse osmosis

High water flow with enhanced rejection performance

Low energy water treatment

Biomimetic product incorporating nature's water channels

PRODUCT TYPE

The Aquaporin Inside® CLEAR membrane series are biomimetic products that get their unique properties from their embedded aquaporin proteins, nature's water channels.

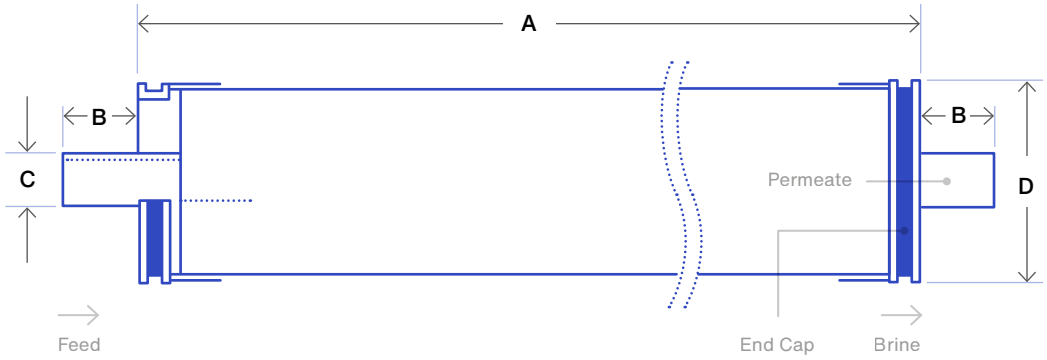
All Aquaporin Inside® CLEAR membranes are available in standard configurations and can easily fit into any commercial or industrial RO system.

PRODUCT SPECIFICATIONS

				Product performance		Test conditions	
Product name	Item no.	Element type	Active membrane area	Permeate flow rate	Typical rejection	Feed water	Pressure
Aquaporin Inside® CLEAR Plus 4040	**40104**	**Fiberglass, wet**	**85 ft^2 7.9 m^2**	**2,100 GPD**	**99.0%**	**2,000 ppm NaCl**	**125 psi (8.6 bar)**
Aquaporin Inside® CLEAR Plus 4040XL	**40105**	**Tape wrap, wet**	**97 ft^2 9.0 m^2**	**2,500 GPD**	**99.0%**	**2,000 ppm NaCl**	**125 psi (8.6 bar)**

The stated product performances are tested at 25°C (77°F), 15% recovery, pH 7-8.
Individual element permeate flow rate may vary ± 15%.

ELEMENT DIMENSIONS



	Dimensions (inches / millimeters)			
Product name	A	B	C	D
Aquaporin Inside® CLEAR Plus 4040 series	**40.0 / 1016.0**	**1.05 / 26.7**	**0.75 / 19.1**	**3.95 / 100.3**

Aquaporin A/S reserves the right to change specifications without prior notice.
The CLEAR Plus 4040 element series fits standard 4 inch inner diameter pressure vessels. For element loading use only glycerine to lubricate o-rings and brine seal.

OPERATING SPECIFICATIONS

Maximum operating pressure	**41.4 bar (600 psi) for fiberglass** **20.7 bar (300 psi) for tape wrap**
Maximum feed flow rate	**3.6 m^3/h (16 gpm)**
Maximim operating temperature	**45°C (113°F)**
Maximum pressure drop	**0.7 bar (10 psi)**

Maximum feed water SDI	**5 (15 min)**
Maximum feed water turbidity	**1 NTU**
pH range (operation)	**3-10**
pH range (short-term cleaning)	**2-11**
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 consumption.
- ✓ 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.
- ✓ 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. This document does not express or implies any warranty as to the merchantability or fitness of the products.

Aquaporin Inside®