

Aquaporin Inside® CLEAR Ultra 4040 & 4040XL

High Capacity Low Energy Advanced Reverse osmosis



Revolutionary high water flow and high rejection for efficient water treatment



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.

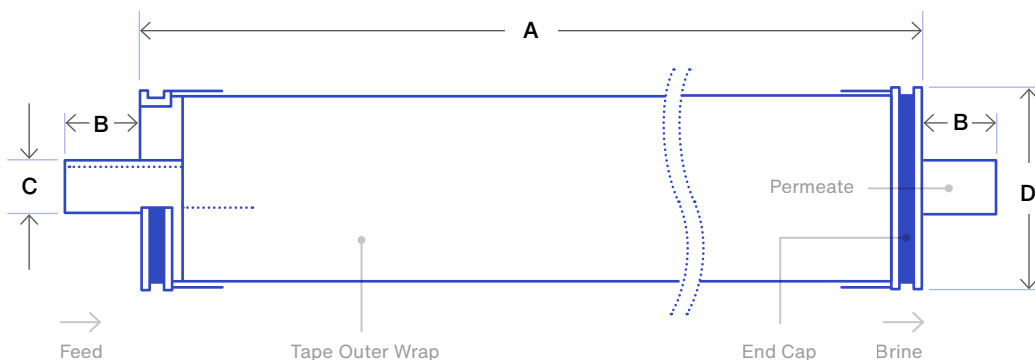
All Aquaporin Inside® CLEAR membranes are available in standard configurations and can easily fit into any commercial or industrial RO system.

PRODUCT SPECIFICATIONS

Product name	Item no.	Element type	Active membrane area	Product performance		Test conditions	
				Permeate flow rate	Typical rejection	Feed water	Pressure
Aquaporin Inside® CLEAR Ultra 4040	40101	Tape wrap, wet	85 ft ² 7.9 m ²	2,800 GPD	99.0%	500 ppm NaCl	100 psi (6.9 bar)
Aquaporin Inside® CLEAR Ultra 4040XL	40102	Tape wrap, wet	97 ft ² 9.0 m ²	3,300 GPD	99.0%	500 ppm NaCl	100 psi (6.9 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



Product name	Dimensions (inches / millimeters)			
	A	B	C	D
Aquaporin Inside® CLEAR Ultra 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 Ultra 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	20.7 bar (300 psi)	Maximum feed water turbidity	1 NTU
Maximum feed flow rate	3.6 m ³ /h (16 gpm)	pH range (operation)	3-10
Maximum operating temperature	45°C (113°F)	pH range (short-term cleaning)	2-11
Maximum pressure drop	0.7 bar (10 psi)	Free chlorine tolerance	< 0.1 ppm
Maximum feed water SDI	5 (15 min)		

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.

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