

# Aquaporin Inside® CLEAR Plus 8040

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.

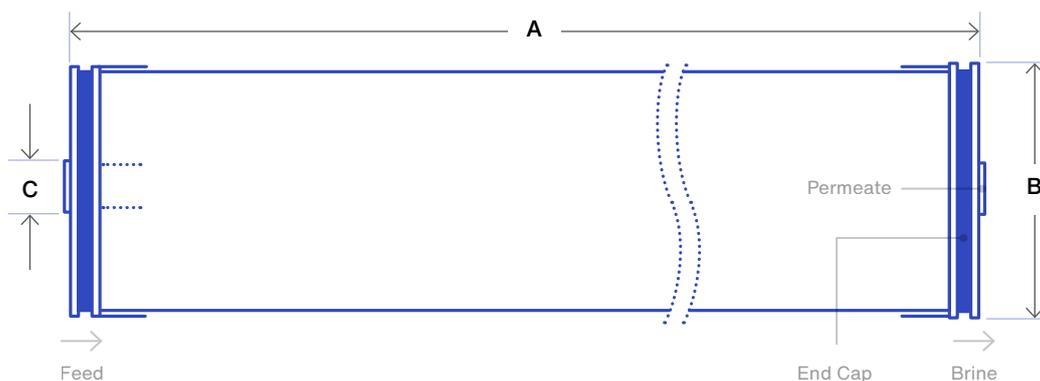
All Aquaporin Inside® CLEAR membranes are available in standard configurations and can easily fit into any commercial or industrial RO system.

## PRODUCT SPECIFICATIONS

| Product name                      | Item no. | Element type    | Product performance |                   | Test conditions |                   |
|-----------------------------------|----------|-----------------|---------------------|-------------------|-----------------|-------------------|
|                                   |          |                 | Permeate flow rate  | Typical rejection | Feed water      | Pressure          |
| Aquaporin Inside® CLEAR Plus 8040 | 40106    | Fiberglass, wet | 11,500 GDP          | 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            |
|-------------------------------------------|---------------|-----------|--------------|
| Aquaporin Inside® CLEAR Plus 8040 element | 40.0 / 1016.0 | 7.9 / 200 | 1.125 / 28.6 |

Aquaporin A/S reserves the right to change specifications without prior notice. The CLEAR Plus 8040 element fits standard 8 inch inner diameter pressure vessels.

**OPERATING SPECIFICATIONS**

|                               |                    |                                |           |
|-------------------------------|--------------------|--------------------------------|-----------|
| Maximum operating pressure    | 41.4 bar (600 psi) | Maximum feed water turbidity   | 1 NTU     |
| Maximum feed flow rate        | 17 m³/h (75 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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**Aquaporin Inside®**