

TWRO4040



Aquaporin Inside[®] Membranes

Tap Water Reverse Osmosis Element



- ✓ Revolutionary high water flux for most efficient water treatment
- ✓ Enables water treatment with low energy consumption

- ✓ High rejection of harmful pollutants ensures safe and healthy drinking water
- ✓ Manufactured in Europe using Nature's water channels

Product type

The Aquaporin Inside[®] Tap Water Reverse Osmosis (TWRO) membrane element is produced with aquaporin proteins, Nature's own water filter. It is the aquaporin protein that provides Aquaporin Inside[®] membranes with its unique properties.

All Aquaporin Inside[®] TWRO4040 membranes are available in standard configurations and are shipped wet or dry.



Certified to
NSF/ANSI 61

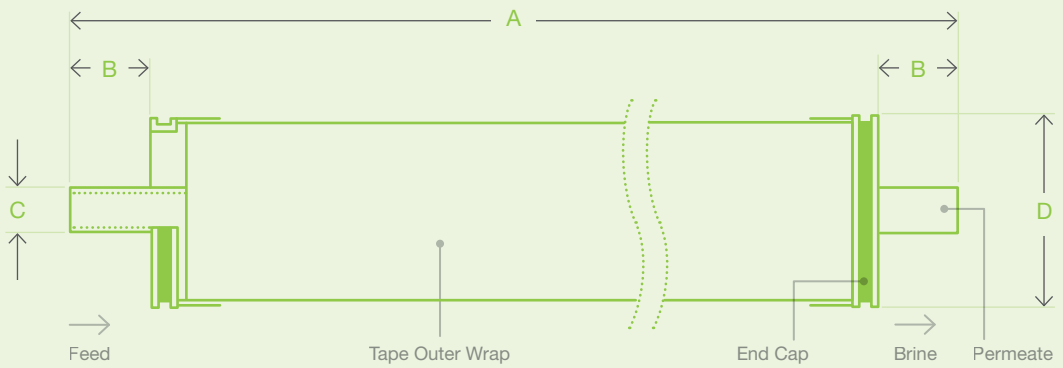
Product specifications

Product name	Permeate flow rate		Minimum salt rejection (%)	Stabilized salt rejection (%)	Applied pressure (psi)	Recovery (%)
	GPD	L/h				
TWRO4040	2700	425	92	98	100	15

The stated product performances are based on 500 ppm NaCl solution at 25°C / 77°F. Individual element permeate flow rate may vary ± 15%. Minimum salt rejection is measured after 30 min. Stabilized salt rejection is measured after 24 hours.

TWRO4040

Element dimensions



Product name	Dimensions (inches / millimeters)			
	A	B	C	D
TWRO4040	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.
TWRO4040 elements fit standard 4 inch inner diameter pressure vessels.

Operating specifications

Maximum operating pressure	300 psi (20.7 bar)	Maximum feed water SDI	5 (15 min)
Maximum operating temperature	45°C (113°F)	Maximum feed water turbidity	1 NTU
Maximum feed flow rate	16 gpm (3.6 m ³ /h)	pH range	3-10
Maximum pressure drop	10 psi (0.7 bar)	Free chlorine tolerance	< 0.1 ppm

Additional information

- ✓ Permeate from the first hour of operation should be discarded.
- ✓ 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. See Aquaporin's storage recommendations for TWRO elements for more details.
- ✓ 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. If the polyethylene bag is damaged, a new preservative solution (sodium bisulfite) must be added and air-tight sealed to prevent drying and biological growth.
- ✓ 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 or for the information provided in this document. This document does not express or imply any warranty as to the merchantability or fitness of the products.

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