

TWRO4040



Aquaporin Inside[®] Membranes

Tap Water Reverse Osmosis Element



- ✓ Manufactured using Nature's water channels
- ✓ Recommended for residential and commercial tap water treatment
- ✓ Shipped dry or wet
- ✓ Available in standard size configurations

Product type

Aquaporin Inside[®] TWRO membrane is produced with aquaporin proteins, Nature's own water filter. It is the aquaporin protein that provides Aquaporin Inside[®] membranes with its unique properties.

Polymer: Polyamide-TFC



Certified to
NSF/ANSI 61

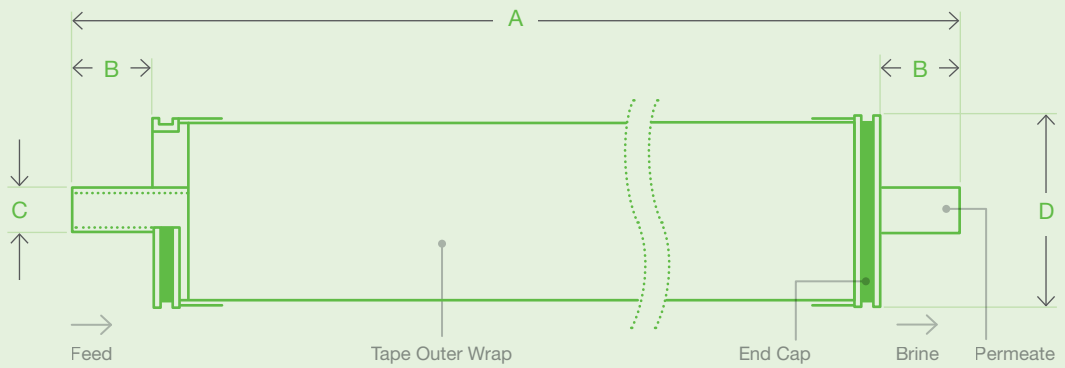
Product specifications

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

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

TWRO4040

Element dimensions



Dimensions (inches / millimeters)

Product name	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

Product name	Maximum operating pressure	Maximum feed flow rate	Maximum operating temperature	Maximum pressure drop	Maximum feed water SDI	Maximum feed water turbidity	pH range	Free chlorine tolerance
TWRO4040	220 psi (15 bar)	16 gpm (3.6 m³/h)	45°C (113°F)	10 psi (0.7 bar)	5	1 NTU	3-10	< 0.1 ppm

Additional information

- ✓ Permeate from the first hour of operation should be discarded.
- ✓ 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.
- ✓ 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.
- ✓ 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 implies any warranty as to the merchantability or fitness of the products.

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