



TRISEP® 8040-O3E6R1 Cellulose Acetate (CA) NF Elements

The 8040-O3E6R1 CA NF membrane element features a unique cellulose acetate / triacetate blend that delivers an excellent combination of solute rejection, fouling resistance, and chlorine tolerance. This element operates at a much lower pressure than a CA RO membrane while still offering high quality permeate. The combination of high chlorine tolerance and smooth surface morphology makes these membranes a perfect fit for applications where biofouling is an issue.

MEMBRANE CHARACTERISTICS

Membrane	"O3"
Membrane Type	Cellulose Acetate
Stabilized Salt Rejection (%)	85.0
Salt Rejection Bounds (%)	80.0 - 90.0

DESIGN INFORMATION

Model	Part Number	Permeate Flow m ³ /day (GPD) ^a	Membrane Area m ² (ft ²)	Feed Spacer Thickness (mil) ^b
TRISEP® 8040-O3E6R1	151050849	32.6 (8,600)	32.5 (350)	31

a Test conditions: 2,000 ppm NaCl, 15.5 bar (225 psi), 25°C (77°F), 15% recovery, pH 5.5, 30 minutes operation. Flow rates will be no more than 15% below the values shown. Product specifications may change without notice as design revisions occur.

b This model has a fiberglass outer wrap and diamond shaped feed spacers. This model includes anti-telescoping devices (ATDs) attached to the ends of the element, one brine seal, and one interconnector.

OPERATING PARAMETERS

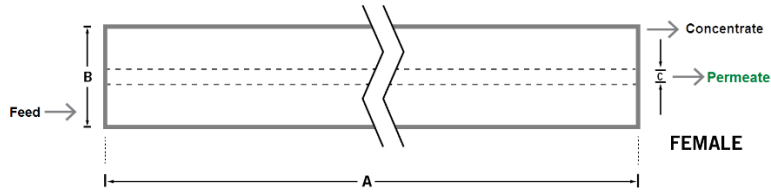
Maximum Operating Pressure	41 bar (600 psi)
Maximum Operating Temperature	32°C (90°F)
Nominal Operating pH	5.5
Cleaning pH Range¹	2.0 - 7.5
Chlorine Tolerance	0.5 ppm nominal, 1 ppm max
Maximum Pressure Drop	1 bar (15 psi) per element; 4 bar (60 psi) per housing
Maximum SDI₁₅	5.0
Maximum Turbidity	1 NTU

¹ Refer to pH limits in Membrane Cleaning Guide - Cellulose Acetate Elements (TSG-C-005).

PHYSICAL DIMENSIONS

Model	Element Weight kg (lb) ^c	Dim. A mm (inches)	Dim. B mm (inches)	Dim. C ^d mm (inches)	Permeate Tube
TRISEP® 8040-O3E6R1	16 (36)	1,016 (40.0)	201 (7.9)	38.1 (1.50)	Female

^c Shipping weight is dependent on packaging material and quantity shipped.
^d Dimension "C" is the Inner Diameter.



IMPORTANT INFORMATION

- Start-up:** MANN+HUMMEL Water & Fluid Solutions recommends flushing elements for 30 minutes at low pressure and discarding permeate during the flush prior to operation. For a more detailed start-up procedure, please see Element Start-Up Guide – System Start-Up (TSG-O-005).
- Cleaning:** TRISEP® membrane elements must be cleaned periodically to ensure proper operation and to prevent membrane damage. Please see Membrane Cleaning Guide – Cellulose Acetate Elements (TSG-C-005).
- Storage:** TRISEP membrane elements must be stored appropriately to ensure proper operation and to prevent membrane damage. Please see Element Storage Guides (TSG-O-009 & TSG-O-010).

CUSTOMIZABLE SPECIALTY ELEMENTS

MANN+HUMMEL Water & Fluid Solutions offers a full range of membranes and element designs for challenging water and process applications. Technologies include low-fouling RO, submerged UF, continuous high temperature, ultra-high pressure, unique sanitary designs and more. Contact us to customize a product that satisfies your specific requirements.

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