TRISEP® 8040-O1G8R1 Cellulose Acetate (CA) RO Elements

The 8040-O1G8R1 CA RO membrane element features a unique cellulose acetate / triacetate blend that delivers an excellent combination of solute rejection, fouling resistance, and chlorine tolerance. This element delivers high rejection in water where chlorine is used to control the growth of biological organisms. 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	"O1"
Membrane Type	Cellulose Acetate
Stabilized Salt Rejection (%)	98.0
Minimum Salt Rejection (%)	97.0

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-O1G8R1	151030842	26.5 (7,000)	32.5 (350)	31

a Test conditions: 2,000 ppm NaCl, 29.0 bar (420 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

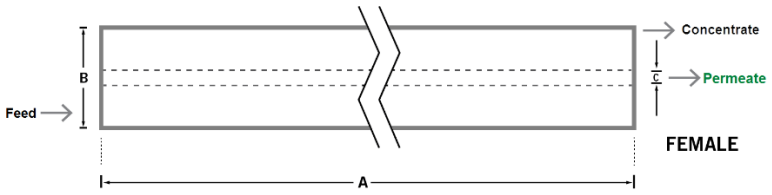
Maximum Operating Pressure	41 bar (600 psi)
Maximum Operating Temperature	32°C (90°F)
Nominal Operating pH	5.5
Cleaning pH Range[1]	2.0 – 7.5
Chlorine Tolerance	0.5 ppm nominal, 1 ppm max
Maximum Pressure Drop	1 bar (15 psi) per element; 4 bar (60 psi) per housing
Maximum SDI_{15}	5.0
Maximum Turbidity	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-O1G8R1	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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