



TRISEP® Maple XP-8040

Membrane Element for

Maple Sap Concentration

TRISEP® Maple XP-8040 is a membrane element designed for maple sap concentration in standard pressure concentrators. It is made with superior high flux membrane which delivers both high flow and best in class sugar & mineral retention. Higher flux membrane means up to 20% higher flow than competitive products in the market.

MEMBRANE CHARACTERISTICS

Membrane	Membrane for Sugar Concentration
Membrane Type	Polyamide Thin-Film Composite

DESIGN INFORMATION

Model	Permeate Flow m ³ /day (GPD) ^a	Membrane Area m ² (ft ²)	Feed Spacer Thickness (mil) ^b
TRISEP® Maple XP-8040	45.4 (12,000)	37.2 (400)	34

a Test conditions: 500 ppm NaCl, 6.9 bar (100 psi), 25°C (77°F), 15% recovery, pH 8.0, 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 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

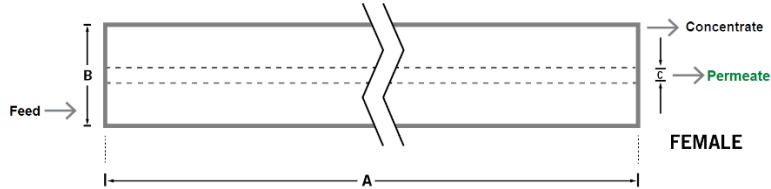
Maximum Operating Pressure	41 bar (600 psi)
Maximum Operating Temperature	45°C (113°F)
Cleaning pH Range	1.0 - 13.0 (short term cleaning - 30 min.)
Operating pH Range	3.0 - 9.0
Chlorine Tolerance¹	< 0.1 ppm
Maximum Pressure Drop	1 bar (15 psi) per element; 4 bar (60 psi) per housing
Maximum Feed Flow	16 m ³ /hr (70 gpm)

¹ Pretreatment is recommended for the removal of free chlorine and other oxidizing agents to prevent damage to membranes. Oxidizing agents, such as free chlorine, in contact with polyamide membranes may result in shortened operating life or membrane failure. Such oxidation damage is excluded from warranty. Refer to Membrane Operating Guide - Recommendations for Water Purification (TSG-O-012).

PHYSICAL DIMENSIONS

Model	Element Weight kg (lb) ^c	Dim. A mm (inches)	Dim. B mm (inches)	Dim. C ^d mm (inches)	Permeate Tube
TRISEP® Maple XP-8040	16 (36)	1,016 (40.0)	201 (7.9)	28.6 (1.125)	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 our Membrane Cleaning Guides.
- 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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