



TRISEP® HT 8040-RO-47P-FG

High Temperature RO Elements

The TRISEP® HT 8040-RO-47P-FG RO membrane element features high rejection ACM2 membrane and is versatile enough to be used in a wide variety of water purification and process applications. This element is ideal for applications which require membrane separation at continuous high temperatures, up to 80°C (176°F). ACM2 membrane is available in numerous strong and durable spiral-wound element designs that may be customized to meet customer requirements.

MEMBRANE CHARACTERISTICS

Membrane	ACM2
Membrane Type	Polyamide
Stabilized Salt Rejection (%)	99.5
Minimum Salt Rejection (%)	99.0

DESIGN INFORMATION

Model	Membrane Area m² (ft²)	Feed Spacer Thickness (mil)^a
TRISEP® HT 8040-RO-47P-FG	25.5 (275)	47

^a This model has a fiberglass outer wrap and parallel 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 Temperature	80°C (176°F)
Maximum Operating Pressure	32.2 bar (470 psi) at 60°C (140°F) 27.6 bar (400 psi) at 70°C (158°F) 24.1 bar (350 psi) at 80°C (176°F)
Cleaning pH Range¹	1.0 - 12.0
Chlorine Tolerance²	< 0.1 ppm
Maximum Pressure Drop at 30°C	1.4 bar (20 psi) per element; 6 bar (80 psi) per housing
Maximum Pressure Drop at 70°C	0.3 bar (5 psi) per element; 1.4 bar (20 psi) per housing

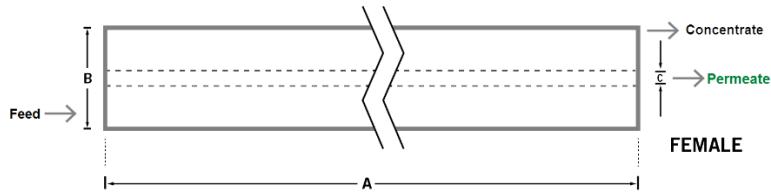
¹ Refer to temperature and pH limits in our Membrane Cleaning Guides.

² 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® HT 8040-RO-47P-FG	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 Membrane Cleaning Guide – Water Application Elements (TSG-C-001).
- 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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