



TRISEP® HPR 8040-NP030-31-FG

High Pressure Industrial NF Membrane Elements

The TRISEP® HPR series has a maximum operating pressure of 83 bar (1,200 psi) and is versatile enough to be used in a wide variety of industrial and wastewater purification applications. These elements use the highest rejection membrane for challenging applications such as leachate, minimum-liquid discharge, and high salt concentrations. TRISEP membrane is available in numerous strong and durable spiral-wound element designs that may be customized to meet customer requirements.

MEMBRANE CHARACTERISTICS

Membrane	Membrane Type	Na ₂ SO ₄ Salt Rejection (%)
NP030	Polyethersulfone	77 - 95%

DESIGN INFORMATION

Model	Membrane Area m ² (ft ²)	Feed Spacer Thickness (mil) ^a
TRISEP® HPR 8040-NP030-31-FG	33.4 (360)	31

^a 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 and one brine seal.

OPERATING PARAMETERS

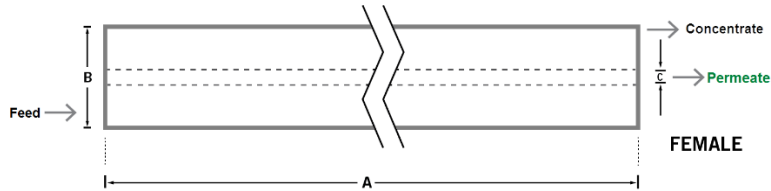
Maximum Operating Pressure	83 bar (1,200 psi)
Maximum Operating Temperature	45°C (113°F)
Cleaning pH Range ¹	1.0 - 12.0
Maximum Pressure Drop	1 bar (15 psi) per element; 4 bar (60 psi) per housing

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

PHYSICAL DIMENSIONS

Model	Element Weight kg (lb) ^b	Dim. A mm (inches)	Dim. B mm (inches)	Dim. C ^c mm (inches)	Permeate Tube
TRISEP® HPR 8040-NP030-31-FG	16 (36)	1,016 (40.0)	201 (7.9)	28.6 (1.125)	Female

^b Shipping weight is dependent on packaging material and quantity shipped.
^c 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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