



TRISEP® PS Pharmaceutical UH004 Series

TRISEP® PS sanitary membrane elements for pharmaceutical applications have a long history of outstanding, stable field performance. NADIR® UH004 hydrophilic polyethersulfone (PESH) membrane with a nominal 4,000 Da molecular weight cut-off offers consistently high protein rejection. PS elements are available with a number of different feed spacers and in all sizes common in the industry. TRISEP PS elements are built with FDA compliant materials, are compliant with European food regulations (EU 10/2011 and EC 1935/2004), and comply with both USDA and BSE/TSE standards.

Membrane Characteristics

Membrane	Nominal M.W.C.O. (Da)
NADIR® UH004	4,000

Maximum Operating Pressure.....	10 bar (145 psi)
Maximum Operating Temperature.....	50°C (122°F)
Cleaning pH Range ¹	1.0 – 12.0
Cleaning Chlorine Tolerance	200 ppm for sanitization at pH ≥ 10.5
Maximum Pressure Drop	1 bar (15 psi) per element 4 bar (60 psi) per housing

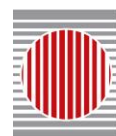
¹ Refer to temperature and pH limits in our *Membrane Cleaning Guides*.

Design Information

MICRODYN-NADIR has the versatility to customize elements to meet customers' specific needs. Please contact MICRODYN-NADIR for information on customized solutions.

Model	Membrane Area m ² (ft ²)	Feed Spacer Thickness (mil) ^a
TRISEP® PS UH004 3838B	7.0 (75)	31
TRISEP® PS UH004 3838C	5.7 (61)	46
TRISEP® PS UH004 3838F	4.0 (43)	80
TRISEP® PS UH004 8338B	34.0 (366)	31
TRISEP® PS UH004 8338C	27.5 (296)	46
TRISEP® PS UH004 8338F	21.2 (228)	80

^a All models on this sheet are net wrapped and have diamond shaped feed spacers.



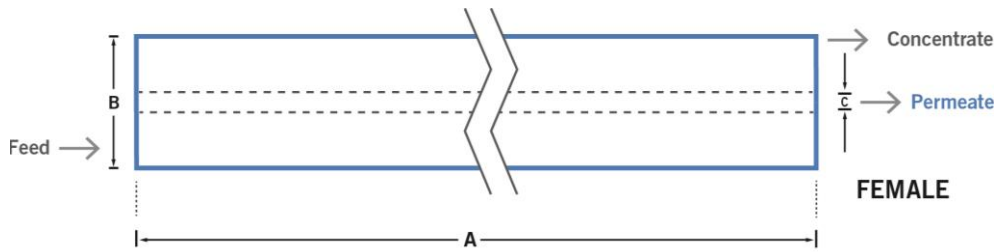
Product Specification (continued)

Physical Dimensions

Model	Element Weight kg (lbs) ^b	Dimensions, mm (inches)			Permeate Tube
		A	B	C ^c	
TRISEP® PS UH004 3838B	4 (9)	965 (38.0)	96 (3.8)	21.1 (0.83)	Female
TRISEP® PS UH004 3838C	4 (9)	965 (38.0)	96 (3.8)	21.1 (0.83)	Female
TRISEP® PS UH004 3838F	4 (9)	965 (38.0)	96 (3.8)	21.1 (0.83)	Female
TRISEP® PS UH004 8338B	18 (40)	965 (38.0)	211 (8.3)	28.9 (1.138)	Female
TRISEP® PS UH004 8338C	18 (40)	965 (38.0)	211 (8.3)	28.9 (1.138)	Female
TRISEP® PS UH004 8338F	18 (40)	965 (38.0)	211 (8.3)	28.9 (1.138)	Female

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

^c Dimension "C" is the Inner Diameter.



Important Information

- Start-up:** MICRODYN-NADIR 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

MICRODYN-NADIR 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 MICRODYN-NADIR to customize a product that satisfies your specific requirements.

Solving Unmet Needs with Customized Products



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