

Specialty Ultrafiltration

Sanitary TUF10K and TUF10KHR

Model	Application	Feed Spacer Thickness in. (mm)	Nominal Membrane Area ft ² (m ²)	Dimensions, in. (mm)			Max Pressure Drop per Element psi (bar)
				Length A	Element OD B	Perm Tube ID C	
TUF3838 N1 & TUF3838 HRN1	Milk and Whey Protein Concentration USDA Accepted 3A / FDA Compliant	0.031 (0.79)	73 (6.8)	38 (965)	3.8 (97)	0.83 (21)	15 (1.0)
TUF3838 N2 & TUF3838 HRN2		0.046 (1.17)	57 (5.3)	38 (965)	3.8 (97)	0.83 (21)	15 (1.0)
TUF6338N1 & TUF6338HRN1		0.031 (0.79)	233 (21.6)	38 (965)	6.3 (160)	1.138 (28.9)	15 (1.0)
TUF6438N1 & TUF6438HRN1		0.031 (0.79)	233 (21.6)	38 (965)	6.3 (161)	1.138 (28.9)	15 (1.0)
TUF6338N2 & TUF6338HRN2		0.046 (1.17)	176 (16.3)	38 (965)	6.3 (160)	1.138 (28.9)	15 (1.0)
TUF6438N2 & TUF6438HRN2		0.046 (1.17)	176 (16.3)	38 (965)	6.3 (161)	1.138 (28.9)	15 (1.0)
TUF6338N3 & TUF6338HRN3		0.065 (1.65)	137 (12.7)	38 (965)	6.3 (160)	1.138 (28.9)	15 (1.0)
TUF6438N3 & TUF6438HRN3		0.065 (1.65)	137 (12.7)	38 (965)	6.3 (161)	1.138 (28.9)	15 (1.0)
TUF 7838N1		0.031 (0.79)	343 (31.9)	38 (965)	7.73 (196)	1.125 (28.6)	15 (1.0)
TUF8038N1 & TUF8038HRN1		0.031 (0.79)	360 (33.5)	38 (965)	7.9 (201)	1.125 (28.6)	15 (1.0)
TUF8038N2 & TUF8038HRN2		0.046 (1.17)	280 (26)	38 (965)	7.9 (201)	1.125 (28.6)	15 (1.0)

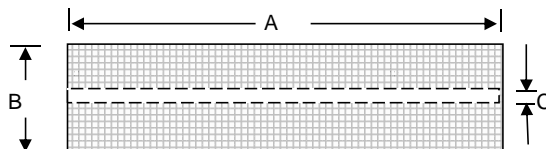
Nominal Molecular Weight Cut-off: 10,000 Daltons

Product Type: Net-Wrapped (no tail), Spiral Wound Element with hydrophilic Polyethersulfone Asymmetric Membrane
Developed specifically for maximum retention of milk and whey proteins and maximum capacity

Materials Specifications: Feed Spacers and Element Outer-Wrap: Polypropylene
Permeate Carrier: Proprietary
Adhesives: Proprietary

Operating Limits: Maximum Operating Pressure, psi (bar): 140 (9.7)
Maximum Operating Temperature, °F (°C): 131 (55)
Maximum Cleaning Temperature, °F (°C): 122 (50)
Acceptable pH Range (operating) : 2.5-10.0
Acceptable pH Range (short-term cleaning) : 1.7-11.5
Maximum Chlorine Tolerance (short-term cleaning at pH 11), ppm 180
Maximum Pressure Drop per Vessel, psi (bar): 60 (4.0)
(Consult Toray for pressure limits when operating above ambient temperature)

Dimensions:



Notice:

1. Elements are preserved in sodium meta-bisulfite. Appropriate personal protective equipment should be worn when handling.
2. Toray accepts no responsibility for results obtained by the application of this information or the safety or suitability of Toray's products, either alone or in combination with other products. Users are advised to make their own tests to determine the safety and suitability of each product combination for their own purposes.
3. All data may change without prior notice, due to technical modifications or production changes.
4. Consult Toray for element sizes not shown.
5. Product description;
 - 10K: Standard product with good flux and good rejection, across a broad range concentrations
 - 10KHR: Used in 10K Systems for highest true protein rejection at good flux