

# TF-SERIES RESIDENTIAL MEMBRANE ELEMENTS

**AXEON® TF-Series Residential Membrane Elements** are recognized as one of the industry's most reliable and highest performing membrane elements that deliver consistent quality and performance. Advanced manufacturing processes and utilization of the industry's leading **FILMTEC™ flat sheet** allows these elements to deliver consistent results that equipment suppliers and water treatment dealers have come to rely on. **AXEON TF-Series Residential Membrane Elements** are shipped dry for an indefinite shelf life, easier handling and a lighter shipping weight.

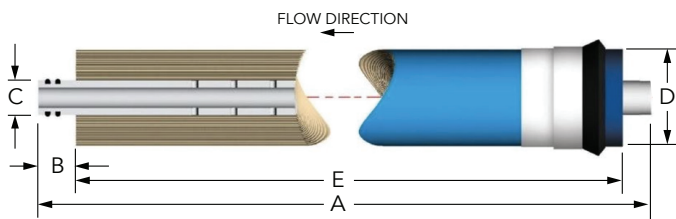


## OPERATING LIMITS

Membrane Type	Polyamide Thin-Film Composite
Maximum Operating Temperature (°F / °C)	113 / 45
Maximum Operating Pressure (psi / bar)	150 / 10
Maximum Feed Flow Rate (gpm / lpm)	2 / 7.60 2.50 / 9.50 <sup>A</sup>
pH Range, Continuous Operation <sup>B</sup>	2-11
Maximum Feed Silt Density Index (SDI)	5
Chlorine / Chloramine Tolerance (ppm):	0

A. Maximum feed flow rate for TF-3012-500.

B. Maximum temperature for continuous operations above pH10 is 95°F / 35°C.



## SPECIFICATIONS

Description	Applied Pressure (psi / bar)	Permeate Flow Rate (gpd / lpd)	Nominal Salt Rejection %
TF-1812-25	50 / 3.40	25 / 94.64	98
TF-1812-35	50 / 3.40	35 / 132.49	98
TF-1812-50	50 / 3.40	50 / 189.27	98
TF-1812-75	50 / 3.40	75 / 283.91	98
TF-1812-100	60 / 4.13	100 / 378.54	98
TF-1812-150	65 / 4.48	150 / 567.81	98
TF-3012-500	70 / 4.80	500 / 1892.71	98

**Warranty Evaluation Test Conditions:** Permeate flow and salt rejection based on the following test conditions—250 ppm, filtered and dechlorinated municipal tap water, 77°F / 25°C, 15% recovery and the specified operating pressure. Minimum salt rejection is 96%. Permeate flows for warranty evaluation may vary +/-20%. Maximum pressure drop at 13 psi / 0.9 bar.

Description	DIMENSIONS (IN / MM)				
	A	B	C	D	E
TF-1812-25	11.75 / 298.45	0.86 / 21.84	0.67 / 17.02	1.78 / 45.21	10 / 254
TF-1812-35	11.75 / 298.45	0.86 / 21.84	0.67 / 17.02	1.78 / 45.21	10 / 254
TF-1812-50	11.75 / 298.45	0.86 / 21.84	0.67 / 17.02	1.78 / 45.21	10 / 254
TF-1812-75	11.75 / 298.45	0.86 / 21.84	0.67 / 17.02	1.78 / 45.21	10 / 254
TF-1812-100	11.75 / 298.45	0.86 / 21.84	0.67 / 17.02	1.78 / 45.21	10 / 254
TF-1812-150	11.75 / 298.45	0.86 / 21.84	0.67 / 17.02	1.82 / 46.23	10 / 254
TF-3012-500	11.75 / 298.45	0.75 / 19.05	0.67 / 17.02	2.90 / 73.66	10.50 / 266.70

**Note:** All 1812 elements fit nominal 2.00" I.D. membrane housings and all 3012 elements fit nominal 3.00" I.D. membrane housings.

**Important:** Under certain conditions, the presence of free chlorine, chloramines and other oxidizing agents will cause premature membrane failure. Since oxidation damage is not covered under warranty, the manufacturer recommends removing all oxidizing agents by pretreatment prior to membrane exposure. Please contact the manufacturer or your supplier for more information.

It is recommended that systems using these elements rinse the elements for 24 hours, prior to first use, to meet NSF/ANSI 58 Standard. The first full tank of permeate must be discarded. Do not use this initial permeate for drinking water or food preparation. Keep elements moist at all times after initial wetting. To prevent biological growth during prolonged system shutdowns, it is recommended that membrane elements be immersed in M-100 preservative solution. Rinse out the preservative before use. For membrane warranty details, please contact the manufacturer or your supplier for more information.

If operating limits and guidelines given in this product specification sheet are not strictly followed, the warranty will be null and void. The customer is fully responsible for the effects of incompatible chemicals and lubricants on elements. Use of any such chemicals or lubricants will void the warranty. These membranes may be subject to drinking water application restrictions in some countries; please check the application status before use and sale. These elements have not been through the French approval process for use in potable water. The use of this product in and of itself does not necessarily guarantee the removal of cysts and pathogens from water. Effective cyst and pathogen reduction is dependent on the complete system design and on the operation and maintenance of the system.

No freedom from infringement of any patent owned by the manufacturer or others is to be inferred. Because use conditions and applicable laws may differ from one location to another and may change with time, customer is responsible for determining whether products and the information in this document are appropriate for customer's use and for ensuring that customer's workplace and disposal practices are in compliance with applicable laws and other governmental enactments. The claims made may not have been approved for use in all countries. The manufacturer assumes no obligation or liability for the information in this document. AXEON reserves the right to update this information periodically for the purposes of quality and accuracy. **NO WARRANTIES ARE GIVEN; ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE EXPRESSLY EXCLUDED.**