



FILMTEC™ Membranes

FILMTEC High Flow 100 Gallons Per Day Drinking Water Element

Features

FILMTEC™ reverse osmosis membrane elements for home drinking water are the industry's most reliable. Advanced membrane technology and automated fabrication allow these elements to deliver consistent performance that equipment suppliers, water treatment dealers and residential customers can rely on. FILMTEC elements are shipped dry for convenient handling and long shelf-life.

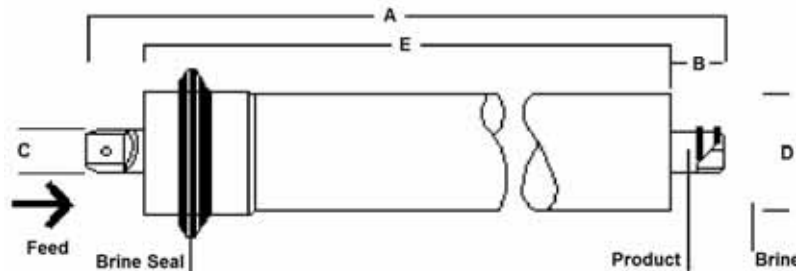
FILMTEC TW30-1812-100 is rated a 50 psi and will purify about 20% more water than competitive elements rated at 60 psi.

Product Specifications

Product	Part Number	Applied Pressure psig (bar)	Permeate Flow Rate gpd (l/h)	Stabilized Salt Rejection (%)
TW30-1812-100	170102	50 (3.4)	100 (16)	90

1. Permeate flow and salt rejection based on the following test conditions: 250 ppm softened tapwater, 77°F (25°C), 15% recovery and the specified applied pressure.
2. Minimum salt rejection is 90.0%.
3. Permeate flows for individual elements may vary +/-20%.
4. Product specifications may vary slightly as improvements are implemented.
5. For ease of installation, element o-rings have been pre-lubricated with glycerin.

Figure 1



Product	Dimensions – Inches (mm)				
	A	B	C	D	E
TW30-1812-100	11.74 (298)	0.87 (22)	0.68 (17)	1.80 (45.7)	10.0 (254)

1. TW30-1812-100 elements fit nominal 2-inch I.D. pressure vessel.

1 inch = 25.4 mm

Operating Limits

- Membrane Type: Polyamide Thin-Film Composite
- Maximum Operating Temperature: 113°F (45°C)
- Maximum Operating Pressure: 300 psig (21 bar)
- Maximum Feed Flow Rate: 2.0 gpm (7.6 lpm)
- pH Range, Continuous Operation^a: 2 - 11
- pH Range, Short-Term Cleaning (30 min.)^b: 1 - 13
- Maximum Feed Silt Density Index (SDI): 5
- Free Chlorine Tolerance^c: < 0.1 ppm

^a Maximum temperature for continuous operation above pH 10 is 95°F (35°C).

^b Refer to Cleaning Guidelines in specification sheet 609-23010.

^c Under certain conditions, the presence of free chlorine and other oxidizing agents will cause premature membrane failure. Since oxidation damage is not covered under warranty, FilmTec recommends removing residual free chlorine by pretreatment prior to membrane exposure. Please refer to technical bulletin 609-22010 for more information.

Figure 2. Impact of Pressure on Permeate Flow (constant temperature, recovery)

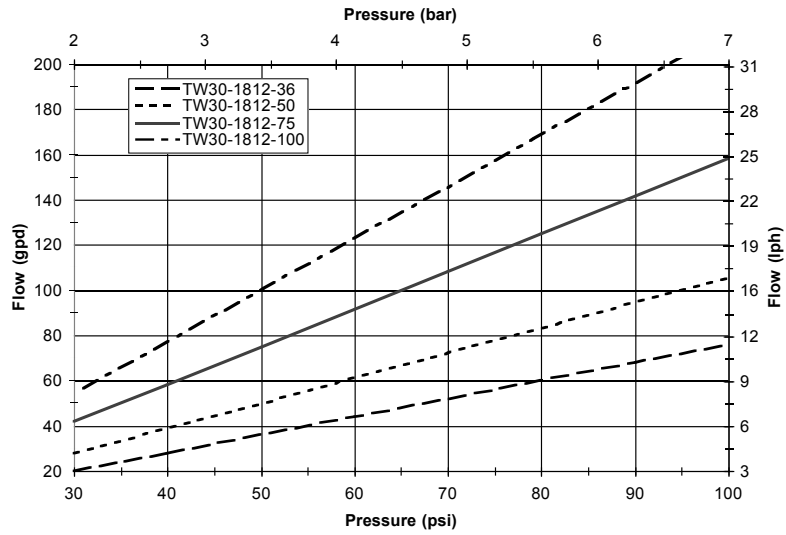
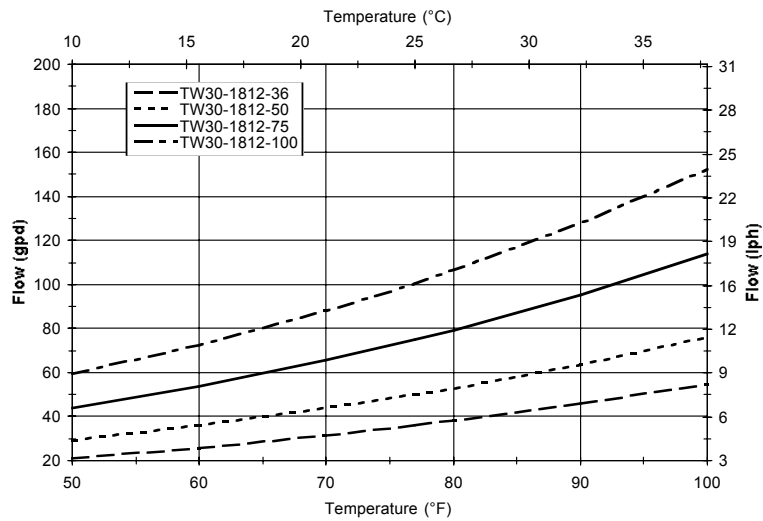


Figure 3. Impact of Temperature on Permeate Flow (constant pressure, recovery)



For information about other FILMTEC™ home drinking water elements, please refer to specification sheet 609-09010 or go to www.filmtec.com.

General Information

- The first full tank of permeate should be discarded. Do not use this initial permeate for drinking water or food preparation.
- Keep elements moist at all times after initial wetting.
- If operating limits and guidelines given in this bulletin are not strictly followed, the limited warranty will be null and void.
- To prevent biological growth during prolonged system shutdowns, it is recommended that membrane elements be immersed in a preservative solution.
- The membrane shows some resistance to short-term attack by chlorine (hypochlorite). Continuous exposure, however, may damage the membrane and should be avoided.
- The customer is fully responsible for the effects of incompatible chemicals and lubricants on elements. Their use will void the element limited warranty.

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Note: These elements have not been through the French approval process for use in potable water.

Notice: 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.

Notice: No freedom from any patent owned by Seller 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. Seller assumes no obligation or liability for the information in this document. NO WARRANTIES ARE GIVEN; ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE EXPRESSLY EXCLUDED.

