

COMPONENT Tested and Certified to

ANSI/NSF Standard 58

# **FILMTEC Membranes**

## FILMTEC<sup>®</sup> Low-Pressure RO Elements

### **Product Specifications**

Product	Produc (gpd)	t Water F (m <sup>3</sup> /d)	low Rate (Iph)	Minimum Salt Rejection Cl <sup>-</sup> (%)	Stabilized Salt Rejection CI <sup>-</sup> (%)
TW30-1512-10	10	0.04	1.6	96	98
TW30-1812-16	16	0.06	2.5	96	98
TW30-1812-24	24	0.09	3.8	96	98
TW30-1812-36	36	0.14	5.7	96	98
TW30-1812-50	50	0.19	7.9	96	98
TW30-1812-75	75	0.28	11.8	96	98

1. Permeate flow and salt rejection based on the following conditions: 250 ppm softened tapwater, 50 psi (.36 MPa), 77°F (25°C), pH 8, and 15% recovery.



#### **Operating Limits**

Maximum Operating Pressure	125 psi (0.86 MPa)
Maximum Feed Flow Rate	2 gpm (7.5 lpm)
Minimum Concentrate Flow Rate	4 x permeate flow
pH Range, Continuous Operation	2-11
pH Range, Short-Term Cleaning (30 min.)	1-12
Maximum Operating Temperature	113°F (45°C)
Maximum Feedwater Turbidity	1 NTU
Maximum Feed Silt Density Index	SDI 5
Free Chlorine Tolerance	<0.1 ppm

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## **FILMTEC Membranes**

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# Comparison of flow at various pressures (constant temperature, recovery)



# Temperature effect on home drinking water elements



#### **Important Operating Information**

- 1. Install element into vessel.
- Permeate obtained from first hour of operation should be discarded. Do not use this initial permeate for drinking water or food preparation.
- 3. Keep elements moist at all times after initial wetting.
- 4. If operating specifications given in this Technical Bulletin are not strictly followed, the limited warranty will be null and void.
- **5.** To prevent biological growth during storage, shipping, or system shutdowns it is recommended that elements be immersed in a

protective solution. The standard storage solution contains 1.5 percent (by weight) sodium metabisulfite (food grade).

- 6. The membrane shows some resistance to short-term attack by chlorine (hypochlorite). Continuous exposure, however, may damage the membrane and should be avoided.
- 7. The customer is fully responsible for the effects of incompatible chemicals on elements. Their use will void the element limited warranty.

**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.

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