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## **FILMTEC™** Membranes

FILMTEC SW30-8040 Seawater Reverse Osmosis Element

Product Spe	cifications Active Area	30-8040 Seawater Reverse Permeate Flow Rate	Minimum Salt	Stabilized Salt
Product SW30-8040	ft <sup>2</sup> (m <sup>2</sup> )	gpd (m <sup>3</sup> /d)	Rejection %	Rejection %
<ol> <li>The above benchma</li> <li>Permeate flows for i</li> <li>Product specificatio</li> <li>Active area guarant</li> </ol>	individual elements may vary +/-15%. ns may vary slightly as improvements	are implemented. ilmTec Corporation is not comparable		99.1 77°F (25°C), pH.8 and 10% recovery.
Figure 1		Fiberglass Outer W	rap Er	d Cap Brine Product
Duaduat		nensions – Inches (mm)		С
Product SW30-8040	A /0	(1,016) B	125 (29)	7.9 (201)
1. Refer to FilmTec Co	40 orporation Design Guidelines formultin I 8-inch (203 mm) I.D. pressure vesse	le-element systems.	125 (23)	1 inch = 25.4 mm
Operating Li	<ul> <li>Maximum</li> <li>Maximum</li> <li>Maximum</li> <li>Maximum</li> <li>Free Chlo</li> <li>pH Range</li> <li>pH Range</li> <li>Maximum</li> </ul>	e Type Operating Pressure Operating Temperature Feed Turbidity rine Tolerance , Continuous Operation , Short-Term Cleaning (30 r Feed Flow Feed Silt Density Index (SE	1,015 113°F 1 NTL <0.1 p 2 – 11 2 – 13 60 gp	opm  -  - 

Important Information	Proper start-up of reverse osmosis water treatment systems is essential to prepare the membranes for operating service and to prevent membrane damage due to overfeeding or hydraulic shock. Following the proper start-up sequence also helps ensure that system operating parameters conform to design specifications so that system water quality and productivity goals can be achieved.
	Before initiating system start-up procedures, membrane pretreatment, loading of the membrane elements, instrument calibration and other system checks should be completed.
	Please refer to the application information literature entitled "Start-Up Sequence" (Form No. 609-02077) for more information.
Operation Guidelines	<ul> <li>Avoid any abrupt pressure or cross-flow variations on the spiral elements during start-up, shutdown, cleaning or other sequences to prevent possible membrane damage. During start-up, a gradual change from a standstill to operating state is recommended as follows:</li> <li>Feed pressure should be increased gradually over a 30-60 second time frame.</li> <li>Cross-flow velocity at set operating point should be achieved gradually over 15-20 seconds.</li> <li>Permeate obtained from first hour of operation should be discarded.</li> </ul>
General Information	<ul> <li>Keep elements moist at all times after initial wetting.</li> <li>If operating limits and guidelines given in this bulletin are not strictly followed, the limited warranty will be null and void. Refer to FILMTEC™ Reverse Osmosis and Nanofiltration Element Three-Year Prorated Limited Warranty (Form No. 609-35010)</li> <li>To prevent biological growth during prolonged system shutdowns, it is recommended that membrane elements be immersed in a preservative solution.</li> <li>The customer is fully responsible for the effects of incompatible chemicals and lubricants on elements.</li> <li>Maximum pressure drop across an entire pressure vessel (housing) is 50 psi (3.4 bar).</li> <li>Avoid static permeate-side backpressure at all times.</li> </ul> Notice: The use of this product in and of itself does not necessarily guarantee the removal of cysts and pathogens from water. Effective oyst 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. NO WARRANTIES ARE GIVEN. ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE EXPRESSLY EXCLUDED.
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