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Product Information



DOW FILMTEC™ Membranes

DOW FILMTEC Seawater RO Elements for Marine Systems

Features

Improved DOW FILMTEC[™] seawater reverse osmosis elements offer the highest productivity while maintaining excellent salt rejection.

- DOW FILMTEC SW30 membrane elements have the highest flow rates available to meet the water demands of both sea-based and land-based desalinators.
- DOW FILMTEC SW30 elements may also be operated at lower pressure to reduce pump size, cost and operating expenses.
- Improved DOW FILMTEC seawater membrane combined with automated, precision • element fabrication result in the most consistent product performance available.

Product Specifications

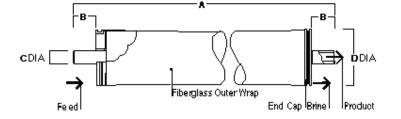
| Part Number | Applied Pressure psig (bar) | Permeate Flow Rate gpd (m ³ /d) | Stabilized Salt Rejection (%) |
|-------------|----------------------------------|--|---|
| 80733 | 800 (55) | 150 (0.6) | 99.4 |
| 80734 | 800 (55) | 300 (1.1) | 99.4 |
| 80737 | 800 (55) | 700 (2.6) | 99.4 |
| 80740 | 800 (55) | 800 (3.0) | 99.4 |
| 80741 | 800 (55) | 1,950 (7.4) | 99.4 |
| | 80733 80734 80737 80740 | Part Number psig (bar) 80733 800 (55) 80734 800 (55) 80737 800 (55) 80740 800 (55) | Part Number psig (bar) gpd (m³/d) 80733 800 (55) 150 (0.6) 80734 800 (55) 300 (1.1) 80737 800 (55) 700 (2.6) 80740 800 (55) 800 (3.0) |

1. Permeate flow and salt rejection based on the following test conditions: 32,000 ppm NaCl, pressure specified above, 77°F (25°C) and the following recovery rates; SW30-2514 - 2%, SW30-2521 & SW30-4021 - 5%, SW30-2540 & SW30-4040 - 8%.

2. Permeate flows for individual elements may vary +/-20%.

3. For the purpose of improvement, specifications may be updated periodically.

Figure 1





er 89055 for use ir elementhousings . Each coupler includes rad 2-2+0 EP R a-tings.

| | Maximum Feed Flow Rate gpm (m³/h) | Dimensions – Inches (mm) | | | |
|---|--------------------------------------|--------------------------|-------------|------------------|----------|
| Product | | Α | В | С | D |
| SW30-2514 | 6 (1.4) | 14.0 (356) | 1.19 (30.2) | 0.75 (19) | 2.4 (61) |
| SW30-2521 | 6 (1.4) | 21.0 (533) | 1.19 (30.2) | 0.75 (19) | 2.4 (61) |
| SW30-2540 | 6 (1.4) | 40.0 (1,016) | 1.19 (30.2) | 0.75 (19) | 2.4 (61) |
| SW30-4021 | 16 (3.6) | 21.0 (533) | 1.05 (26.7) | 0.75 (19) | 3.9 (99) |
| SW30-4040 | 16 (3.6) | 40.0 (1,016) | 1.05 (26.7) | 0.75 (19) | 3.9 (99) |
| 1. Refer to DOW FILMTEC Design Guidelines for multiple-element systems. | | | | 1 inch = 25.4 mm | |

2. SW30-2514, SW30-2521 and SW30-2540 elements fit nominal 2.5-inch I.D. pressure vessels.

SW30-4021 and SW30-4040 elements fit nominal 4-inch I.D. pressure vessel.

Pure Aqua, Inc. Reverse Osmosis & Water Treatment Systems

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| Operating Limits | Membrane Type Maximum Operating Temperature Maximum Operating Pressure Maximum Pressure Drop pH Range, Continuous Operation^a pH Range, Short-Term Cleaning^b Maximum Feed Silt Density Index Free Chlorine Tolerance^c Maximum temperature for continuous operation above pH 10 is 95°F Refer to Cleaning Guidelines in specification sheet 609-23010. Under certain conditions, the presence of free chlorine and other oxid Since oxidation damage is not covered under warranty, DOW FILMTE pretreatment prior to membrane exposure. Please refer to technical backsone is a specification of the conditione of the second structure of the conditione of th | izing agents will cause premature membrane failure. EC recommends removing residual free chlorine by | |
|--------------------------|---|--|--|
| 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 | Avoid any abrupt pressure or cross-flow variations on the shutdown, cleaning or other sequences to prevent post start-up, a gradual change from a standstill to operatin Feed pressure should be increased gradually over a Cross-flow velocity at set operating point should be Permeate obtained from first hour of operation should | sible membrane damage. During g state is recommended as follows: a 30-60 second time frame. achieved gradually over 15-20 seconds. | |
| General Information | Keep elements moist at all times after initial wetting If operating limits and guidelines given in this bulleti warranty will be null and void. To prevent biological growth during prolonged systemembrane elements be immersed in a preservative The customer is fully responsible for the effects of in on elements. Maximum pressure drop across an entire pressure of Avoid static permeate-side backpressure at all times Notice: The use of this product in and of itself does not necessarily guarate Effective cyst and pathogen reduction is dependent on the complete system the system. Notice: No freedom from any patent owned by Dow or others is to be infermany differ from one location to another and may change with time, Custom and the information in this document are appropriate for Customer's use ard isposal practices are in compliance with applicable laws and other govern liability for the information in this document. NO WARRANTIES ARE GIVE MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE | n are not strictly followed, the limited em shutdowns, it is recommended that solution. necompatible chemicals and lubricants vessel (housing) is 50 psi (3.4 bar). S. ntee the removal of cysts and pathogens from water. n design and on the operation and maintenance of red. Because use conditions and applicable laws er is responsible for determining whether products and for ensuring that Customer's workplace and ment enactments. Dow assumes no obligation or N; ALL IMPLIED WARRANTIES OF | |

