



FilmTec™ BW30PRO-400/34

High Rejection and High Performance Industry-Standard Brackish Water Reverse Osmosis Membrane Element

Key Features

- Delivers consistent water quality and higher rejection and flow than previous generation BW30 product
- Based on historical BW30 Industry-standard RO membrane with decades of proven performance
- Excellent durability resulting in stable, long-term performance
- Enhanced fouling protection thanks to 34 mil feed spacer

Key Applications

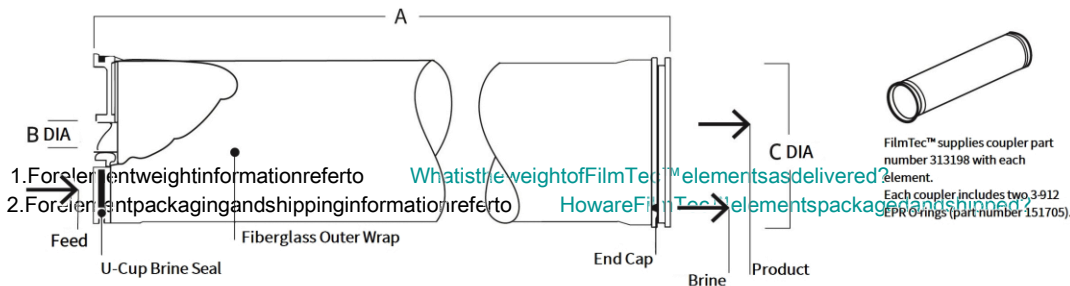
- Demineralization for industrial applications, such as: Power Generation, Steel & Metal, Chemical & Petrochemical
- Municipal water purification

Typical Properties

BW30PRO-400/34	400(37)	34	11,000(42)	99.6	99.4
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1. Permeate flow and salt rejection based on the following standard conditions: 2,000 ppm NaCl, 225 psi (15.5 bar), 77°F (25°C), pH 8 and 15% recovery.
2. Flow rates for individual elements may vary but will be no more than 15% below the values shown.
3. Sales specifications may vary as design revision takes place.

Element Dimensions



A	40.0(1,016)
B	1.125ID(29)
C	7.9(201)

Suggested Operating Conditions

Membrane Type	Polyamide Thin-Film Composite	1. Maximum temperature for continuous operation above pH 10
Maximum Operating Temperature ¹	113°F (45°C)	
Maximum Operating Pressure	600 psig (41 bar)	
Maximum Pressure Drop		3. For recommended feed and permeate flow rates, flux, and recovery for various feed sources, refer to FilmTec™ Design Guidelines for multiple-element systems of 8-inch elements
Per Element	15 psig (1.0 bar)	
Per Pressure Vessel (Minimum 4 Elements)	50 psig (3.5 bar)	
pH Range		4. Oxidation damage is not covered under warranty, DuPont recommends removing residual free chlorine by pretreatment prior to membrane exposure. Please refer to Dechlorinating
Continuous Operation ¹	2-11	
Short-Term Cleaning (30 min.) ²	1-13	
Maximum Feed Flow ³	75 gpm (17 m ³ /hr)	
Maximum Feed Silt Density Index	SDI5	
Free Chlorine Tolerance ⁴	<0.1 ppm	

General Information

- Keep elements moist at all times after initial wetting.
- For successful operation of Reverse Osmosis (RO) and Nanofiltration (NF) membrane systems, the operation must follow the guidelines provided in the [FilmTec™ Reverse Osmosis/Nanofiltration Elements Operation Excellence and Limiting Conditions TechFact](#) (Form No. 45-D04388-en).
- To prevent biological growth during prolonged system shutdowns, it is recommended that membrane elements be immersed in a preservative solution.
- The customer is fully responsible for the effects of incompatible chemicals and lubricants on elements.
- Avoid static permeate-side back pressure at all times.
- Permeate obtained from the first hour of operations should be discarded.
- 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.

Important Information

Please consider good operating practices for the optimal performance of the Reverse Osmosis membrane elements to assure damage-free operation:

1. [Loading of Pressure Vessels-Preparation & Element Loading](#) (Form No. 45-D01602-en)
2. System Operation, including plant [Start-Up Sequence](#) (Form No. 45-D01609-en) and [RO & NF Systems Shutdown](#) (Form No. 45-D01613-en)
3. [Handling, Preservation, and Storage](#) (Form No. 45-D03716-en)

Full information of plant design, system operation and troubleshooting is given in the [FilmTec™ Reverse Osmosis Membranes Technical Manual](#) (Form No. 45-D01504-en).

Regulatory Note

This product may be subject to drinking water application restrictions in some countries; please check the application status before use and sale.



Have a question? Contact us at:

www.dupont.com/water/contact_us

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Form No. 45-D03745-en, Rev. 2

December 2022