

FilmTec™ Fortilife™ CR200 Element

Highly Efficient, Durable, Organic and Biological Fouling Resistant,
 Brackish Water RO Element

Key Features

- Enables up to 10% higher productivity relative to FilmTec™ Fortilife™ CR100 element.
- Ultra-low pressure drop element design to help provide improved hydraulic balance and reliable system operation.
- Robust, fouling resistant membrane and module design delivering up to 50% reduction in the number of cleanings caused by biological fouling.
- Durable membrane that withstands cleaning over a wide pH range (from pH 1 to pH 13) for a long service life of an element and cost-effective maintenance.

Key Applications

- Industrial and Municipal Wastewater reuse such as in textiles, steel & metals, chemical & petrochemical
- Demineralization for industrial utility water with challenging feedwater

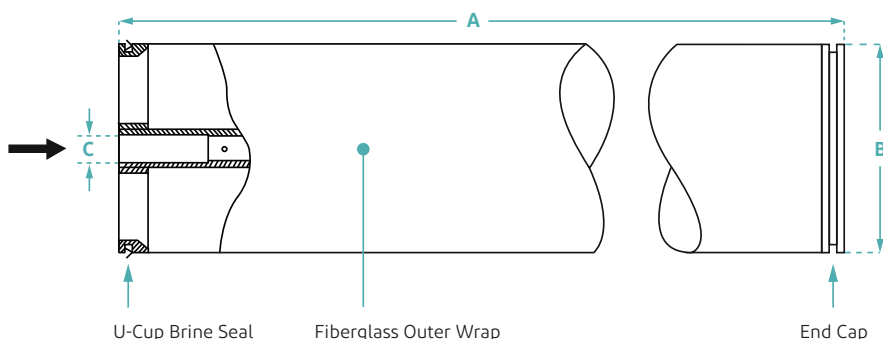


Typical Properties

Product	Active Area ft² (m²)	Feed Spacer Thickness (mil)	Permeate Flow Rate gpd (m³/d)	Stabilized Salt Rejection (%)	Minimum Salt Rejection (%)
FilmTec™ Fortilife™ CR200 element	400 (37)	34	12,500 (47.3)	99.7	99.4

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 value shown.
3. Sales specifications may vary as design revisions take place.

Element Dimensions



FilmTec™ supplies coupler part number 313198 with each element. Each coupler includes two 3-912 EPR O-rings (part number 151705).

Dimensions – inches (mm)	
A	40.0 (1,016)
B	7.9 (201)
C	1.125 ID (29)

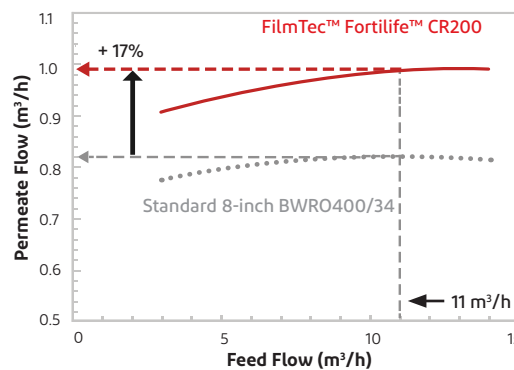
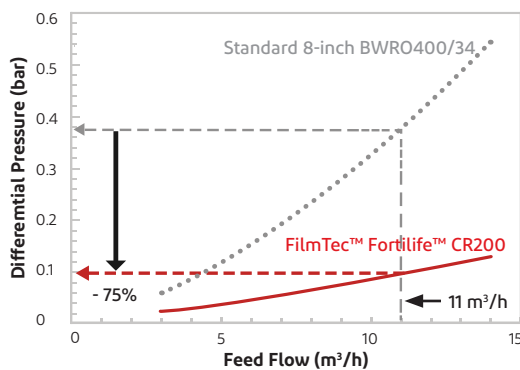
ID = Inner Diameter
 1 inch = 25.4 mm

1. For element weight information refer to [What is the weight of FilmTec™ elements as delivered?](#) (Form No. 45-D04811-en)
2. For element packaging and shipping information refer to [How are FilmTec™ elements packaged and shipped?](#) (Form No. 45-D04811-en)

Suggested Operating Conditions

Membrane Type	Polyamide Thin-Film Composite
Maximum Operating Temperature ¹	113°F (45°C)
Maximum Operating Pressure	600 psi (41 bar)
Maximum Pressure Drop	
Per Element	15 psi (1.0 bar)
Per Pressure Vessel (Minimum 4 Elements)	50 psi (3.5 bar)
pH Range	
Continuous Operation ¹	2 - 11
Short-Term Cleaning (30 min.) ²	1 - 13
Maximum Feed Flow ³	75 gpm (17 m ³ /h)
Maximum Feed Silt Density Index (SDI)	SDI 5
Free Chlorine Tolerance ⁴	< 0.1 ppm

1. Maximum temperature for continuous operation above pH 10 is 95°F (35°C).
2. Refer to [Cleaning Procedures for FilmTec™ Elements](#) (Form No. 45-D01696-en).
3. For recommended feed and permeate flow rates, flux, and recovery for various feed sources, refer to [Membrane System Design Guidelines for 8" FilmTec™ Elements](#) (Form No. 45-D01695-en).
4. Oxidation damage is not covered under warranty, DuPont recommends removing residual free chlorine by pretreatment prior to membrane exposure. Please refer to [Dechlorinating Feedwater](#) (Form No. 45-D01569-en) for more information.



Representative element (a) differential pressure and (b) permeate flow as a function of feed flow rate for FilmTec™ Fortilife™ CR200 versus standard 8-inch BWRO.

Results shown are of WAVE© simulations for a single element at a fixed pressure of 8 bar and feed water of 2000 ppm NaCl, pH 8, 25 °C.

Important 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 Tech Fact](#) (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 backpressure at all times.
- Permeate obtained from the first hour of operation 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.

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:
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