

Product Data Sheet

BW30XFR-400/34 Element

Description

Ideal for: reverse osmosis plant managers and operators dealing with challenging waters and wastewaters and seeking consistent high performance, long element life, increased productivity and higher water quality coupled with excellent fouling resistance.

With proven performance, BW30XFR-400/34:

- Delivers the highest quality permeate water while minimizing CAPEX and OPEX
- Offers the most effective cleaning performance, robustness and durability due to its widest cleaning pH range (1 – 13) and chemical tolerance, and the support of The Company representatives



Product Type

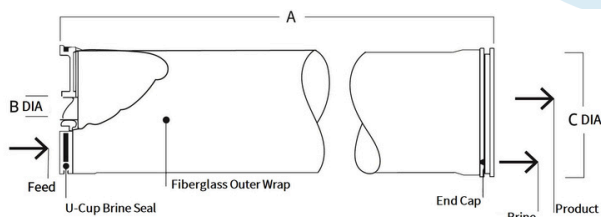
Spiral-wound element with polyamide thin-film composite membrane

Typical Properties

Element	Active Area (ft ²)	Active Area (m ²)	Feed Spacer Thickness (mil)	Permeate Flow Rate (GPD)	Permeate Flow Rate (m ³ /d)	Typical Stabilized Salt Rejection (%)	Minimum Salt Rejection (%)
BW30XFR-400/34	400	37	34-LDP	11,500	43.5	99.65	99.4

1. Permeate flow and salt (NaCl) rejection based on the following standard test conditions: 2,000 ppm NaCl, 225 psi (15.5 bar), 77°F (25°C), pH 8, 15% recovery.
2. Flow rates for individual elements may vary but will be no more than $\pm 15\%$. Stabilized salt rejection is generally achieved within 24-48 hours of continuous use; depending upon feedwater characteristics and operating conditions.
3. Sales specifications may vary as design revisions take place.
4. Active area guaranteed $\pm 3\%$. Active area as stated by The Company Water Solutions is not comparable to nominal membrane area often stated by some manufacturers.

Element Dimensions



The Company supplies coupler part number 313198 with each element. Each coupler includes two 3-912 EPRO-rings (part number 151705).

Dimensions – inches (mm)						1 inch = 25.4 mm
A		B		C		
Element	(in.)	(mm)	(in.)	(mm)	(in.)	(mm)
BW30XFR-400/34	40.0	1,016	1.125 ID	29ID	7.9	201

1. Refer to the Company [Design Guidelines for multiple-element systems of 8-inch elements](#) (Form No. 45-D01695-en).
2. Element to fit nominal 8-inch (203-mm) I.D. pressure vessel.

Operating and Cleaning Limits

Maximum Operating Temperature a	113°F (45°C)
Maximum Operating Pressure	600 psig (41 bar)
Maximum Element Pressure Drop	15 psig (1.0 bar)
pH Range	
Continuous Operation a	2 – 11
Short-Term Cleaning (30 min.) b	1 – 13
Maximum Feed Silt Density Index (SDI)	SDI 5
Free Chlorine Tolerance c	< 0.1 ppm

- a. Maximum temperature for continuous operation above pH 10 is 95°F (35°C).
- b. Refer to [he Company Cleaning Guidelines](#) (Form No. 45-D01696-en).
- c. Under certain conditions, the presence of free chlorine and other oxidizing agents will cause premature membrane failure. Since oxidation damage is not covered under warranty, The Company Water Solutions recommends removing residual free chlorine by pretreatment prior to membrane exposure. Please refer to [Dechlorinating Feedwater](#) (Form No. 45-D01569-en) for more information.

Additional Important Information Product Stewardship

Before use or storage, review these additional resources for important information:

- [Usage Guidelines for FilmTec™ 8" Elements](#) (Form No. 45-D01706-en)
- [Start-Up Sequence](#) (Form No. 45-D01609-en)

The Company has a fundamental concern for all who make, distribute, and use its products, and for the environment in which we live. This concern is the basis for our product stewardship philosophy by which we assess the safety, health, and environmental information on our products and then take appropriate steps to protect employee and public health and our environment. The success of our product stewardship program rests with each and every individual involved with The Company products—from the initial concept and research, to manufacture, use, sale, disposal, and recycle of each product.

Customer Notice

The Company strongly encourages its customers to review both their manufacturing processes and their applications of The Company products from the standpoint of human health and environmental quality to ensure that The Company products are not used in ways for which they are not intended or tested. The Company personnel are available to answer your questions and to provide reasonable technical support. The Company product literature, including safety data sheets, should be consulted prior to use of The Company products. Current safety data sheets are available from The Company.

Please be aware of the following:

- 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.

Regulatory Note

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

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