

Spiralwoundelement XLE 440

The FILMTEC™ XLE-440 is an extra low energy, high productivity brackish water reverse osmosis element designed to deliver high quality water at low operating costs for municipal and industrial water applications. Its high active area design coupled with the highly productive FILMTEC XLE membrane makes XLE-440 the lowest pressure RO element — resulting in lower energy costs.

FILMTEC 8" XLE-440 Element Product specifications.

Product	Nominal active Membrane area m ² (ft ²)	Permeate flow m ³ /day (gpd)	Stabilized Salt rejection Cl ⁻ (%)
XLE-440	41 (440)	55¹ (14,500)	99,0

Permeate flow and Salt rejection are based on following standard conditions: 2000 ppm NaCl, 1.07 MPa (150psi), 25°C (77°F), pH 8, 15% Recovery.

- ◆ XLE-440 will operate in many systems at less than half the feed pressure of a standard high rejection RO element and at up to 30% less pressure than other low energy membranes, resulting in lifetime energy savings greater than 100% of the initial membrane investment.
- ◆ XLE-440 is designed to operate in a variety of brackish water streams making it ideal for both surface water and well water feeds. It is also ideal for the second pass of two-pass RO systems.
- ◆ Automated, precision fabrication with a greater number of shorter membrane leaves maximizes membrane efficiency and allows for the industry's highest active membrane area without compromising the thickness of the feed spacer.
- ◆ With 440 square feet (41 square meters) of active membrane area, the FILMTEC XLE-440 element gives system designers the option of designing a system with fewer membrane elements, requiring lower capital expenditures for membranes and components.

COMPARISON CHART

Type	Operating Pressure	Flux	TDS-Permeate	Spacer Feed/Conc.
BW30 - 330	23,1 bar	32,6 l/m ² h	8,1 mg/l	34 mil
BW30 - 365	18,6 bar	29,5 l/m ² h	8,8 mg/l	34 mil
BW30 - 400	16,7 bar	26,9 l/m ² h	9,3 mg/l	28 mil
BW30 - LE 440	11,7 bar	24,4 l/m ² h	19,7 mg/l	28 mil
XLE - 440	8,7 bar	24,4 l/m² h	24,2 mg/l	28 mil
NF270 - 400	7,0 bar	26,9 l/m ² h	285 mg/l	28 mil

Vertrieb durch:

INAQUA Vertriebsgesellschaft mbH

Langmaar 7

D-41238 Mönchengladbach

Tel ++49 (0) 2166 621 99 0

Fax ++49 (0) 2166 621 99 26

Designbasis: TDS-Feed 1000 mg/l NaCl, Temp. 12°C, Flow 30,0 m³/h

Array 3 : 2 each 6 Elements, Recovery 80%, FF = 1,0