FilmTec™ SW30XFR-400/34
Fouling Resistant Element
Be Bold Against Biofouling
Introducing: FilmTec™ SW30XFR-400/34 Fouling Resistant Element

- **Fouling-Resistant**: Reduce CIP frequency
- **Durable**: Maintain stable rejection despite multiple CIP
- **Low ∆P Element**: Lower pressure drop, improved hydraulic balance, better cleanability

Biofouling Cycle – What if we could...

<table>
<thead>
<tr>
<th>Country</th>
<th>Capacity (m³/d)</th>
<th>Product</th>
<th>Installation Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>China</td>
<td>8,000</td>
<td>SW30XFR-400/34</td>
<td>2020</td>
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<tr>
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<td>9,000</td>
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Proven Performance
FilmTec™ SW30XFR-400/34

Less is More: Less Cleaning, More Uptime

Feature: Fouling-Resistant Design
Result: Reduce CIP Frequency by > 30%
Benefits: Reliable System, More Uptime, Stable System, Reduce RO Fouling, Reduce CIP

Built to Last

Feature: Durable Membrane Chemistry
Result: Maintain stable rejection despite multiple CIP
Benefits: Stable water quality, Reliable System, More Uptime, Lower Total Cost of Ownership
Invest to Save tool:
- Calculate the benefits of higher durability: [https://www.DesalApp.com/](https://www.DesalApp.com/)

When Low is High: Low ΔP, High Balance

Feature: Low ΔP Element
Result: Pressure drop reduced by 40%, Improved system hydraulic balance and better cleanability
Benefits: Reliable System, More Uptime, Reduce RO Fouling, Reduction in CIP

Side by side comparison made with seawater, UF pretreatment, 6 elements in series at Recovery 40%, and 13 LMH flux

Side by side comparison made with synthetic sea water, consisting of 7 CIP cycles of caustic (pH 12, 35°C) and acid (pH 2, 25°C) was performed side-by-side, followed by a stabilization standard test

Applications
1. SWRO Plants with biofouling challenge
2. Industrial utility water from seawater source
3. Municipal Desalination Plants
4. Upgrade of FilmTec™ SW30HRLE-400 and SW30HRLE-400i

SW30XFR-400/34 is a fouling-resistant SWRO element specifically designed to handle biofouling in SWRO Desalination Plants. This is achieved thanks to its fouling-resistant design, its durable membrane chemistry and its low pressure drop design.

The hydraulic tests were performed registering the pressure drop evolution of the elements at increasing feed flow, ranging from 3 m³/h to 18 m³/h at a constant temperature of 25°C
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