DUPONT™

FilmTec™ SW30XFR–400/34

Fouling Resistant Element

Be Bold Against Biofouling

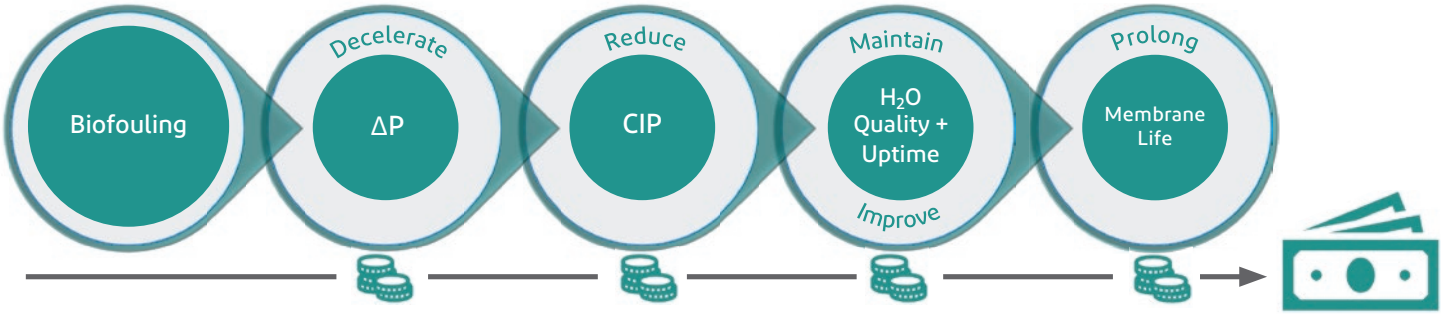
Introducing: FilmTec™ SW30XFR–400/34 Fouling Resistant Element

Fouling-Resistant
Reduce CIP frequency

Durable
Maintain stable rejection despite multiple CIP

Low ΔP Element
Lower pressure drop
Improved hydraulic balance
Better cleanability

Biofouling Cycle – What if we could...



Reference

SW30XFR-400/34 and SW30XFR-400/34i are installed worldwide

Country	Capacity (m³/d)	Product	Installation Year
China	8,000	SW30XFR-400/34	2020
China	7,000	SW30XFR-400/34	2020
Cyprus	60,000	SW30XFR-400/34	2020
Indonesia	3,000	SW30XFR-400/34	2020
Singapore	8,000	SW30XFR-400/34	2020
UAE	33,000	SW30XFR-400/34i	2020
USA	9,000	SW30XFR-400/34	2020

Proven Performance

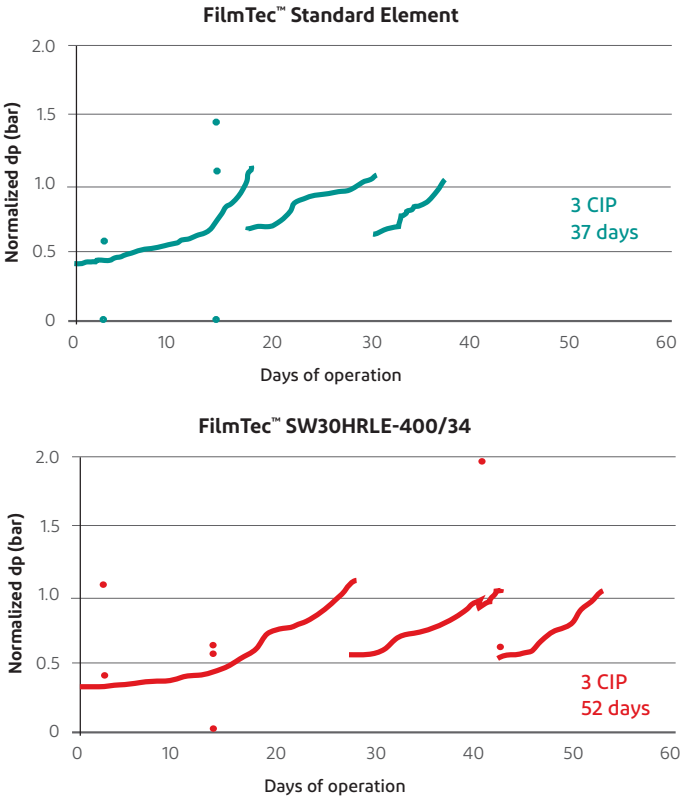
FilmTec™ SW30XFR-400/34

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



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

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.

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

Built to Last

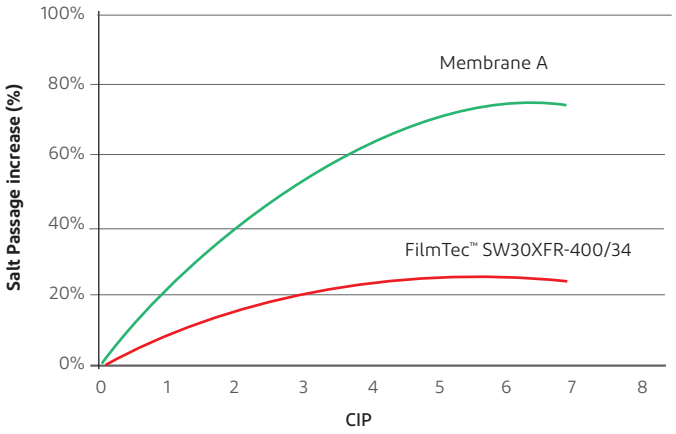
Feature: **Durable Membrane Chemistry**

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/



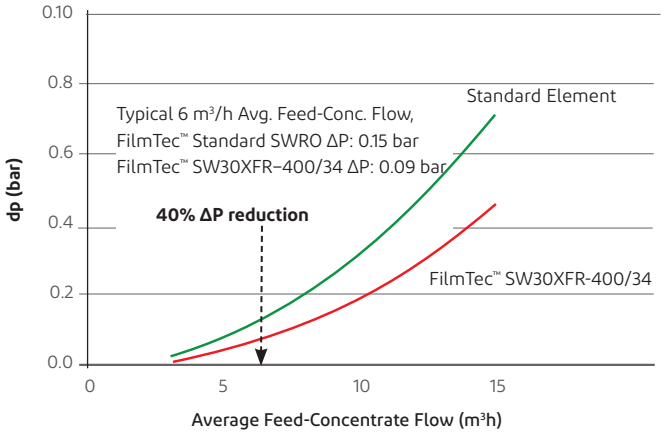
Side by side comparison made with synthetic sea water, consisting of 7 CIP cycles of caustic (pH 12, 35°C) and acid (pH 2, 25°C) was performed side-by-side, followed by a stabilization standard test

When Low is High: Low ΔP, High Balance

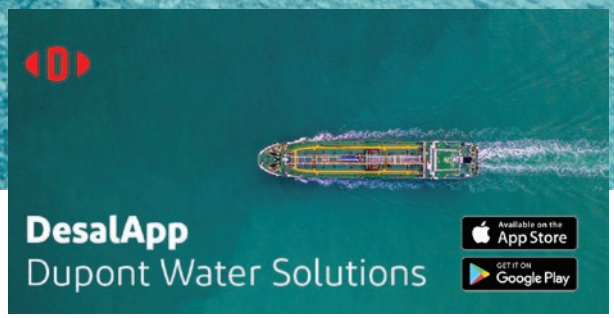
Feature: **Low ΔP Element**

Result: Pressure drop reduced by 40%, Improved system hydraulic balance and better cleanability

Benefits: Reliable System, More Uptime, Reduce RO Fouling, Reduction in CIP



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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