Water Solutions

DUPONT™

FilmTec™ NF270-440

CAPEX saving NF solution



Water Solutions

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The rise of Nanofiltration

With more stringent water quality standards, municipal utilities look to advanced treatment solutions to ensure delivery of reliable, safe water at premium quality to their constituents. Nanofiltration, a leading-edge membrane process, removes those unwanted dissolved contaminants from the source water while allowing a suitable level of dissolved minerals to pass through the filtration process.



Total Organic Compounds removal in the context of stricter regulation requirement



CAPEX Savings



Biofouling in membrane system



Energy Consumption

Minimizing NF CAPEX While Driving out OPEX

Introducing

CAPEX Saving NF Element FilmTec™ NF270-440

The NF270-440 product helps enables end-users to lower the CAPEX of NF system for large municipal drinking water projects by offering a 10% larger active membrane area, while achieving additional more than 10% energy saving and improvement on biofouling resistance



CAPEX Saving

10% more active membrane area
Less number of elements needed



Lower Energy Consumption

Up to 20%~70% less energy consumption+

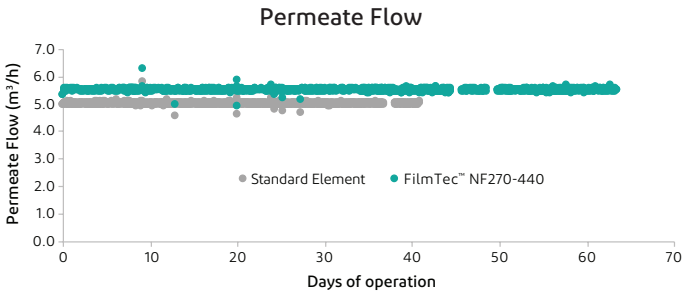


FOULING-RESISTANT

Reduced CIP frequency

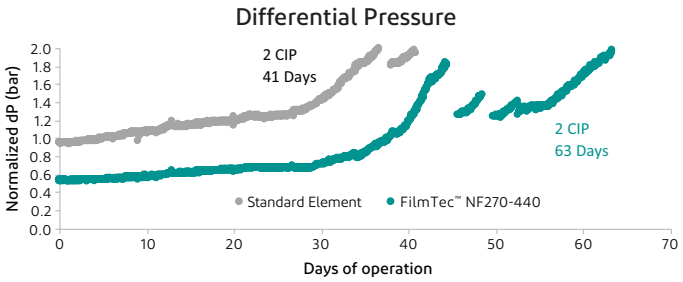
Productivity[1]

NF270-440 showed 10% higher permeate flow



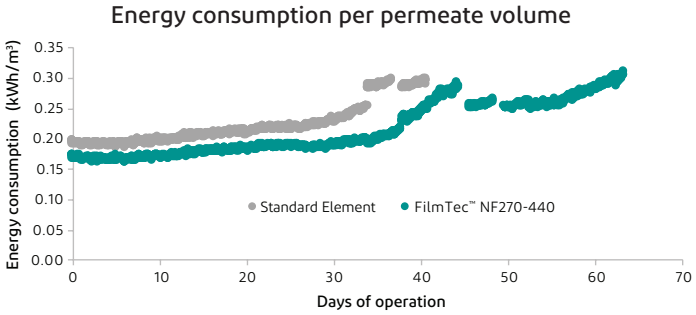
Biofouling Resistance[1]

NF270-440 showed 30% lower CIP frequency



Energy Consumption[1]

NF270-440 showed 13% lower feed pressure and energy consumption



Applications

1. New Municipal Drinking Projects targeting organics removal
2. Replacement opportunities which look for expanded treatment capacity
3. Upgrade of FilmTec™ NF270-400/34i

[1] Testing conditions: 6 elements in series, operated side by side, UF pretreatment, river water, feed TDS 900 ppm, Recovery 50%, Flux 22 lmh, Temperature 20-30°C

Building on Decades Worth of Municipal NF Experience

Méry-sur-Oise, France

Start-up: 1999
NF treatment capacity: 140,000 m³/d



Zhangjiagang, China

Start-up: 2020
NF treatment capacity: 100,000 m³/d in Phase I, 100,000 m³/d in Phase II





DuPont's global network of accessible knowledge and market-leading portfolio of purification and separation technologies enables the water productivity from which health, profits and possibilities spring. From manufacturers to municipalities, we help our customers to confidently explore new opportunities and shape the future.

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