

Water Solutions



For high purity water, with reliable performance

FilmTec™ Commercial RO Element Catalogue



Large Commercial RO Elements



Introduction

Commercial enterprises demand high-quality water for the many products and services they offer — from serving premium beverages to cleaning cars and operating swimming pools. In addition, buildings such as healthcare facilities, universities, and offices need access to clean water for drinking, heating systems, and other uses.

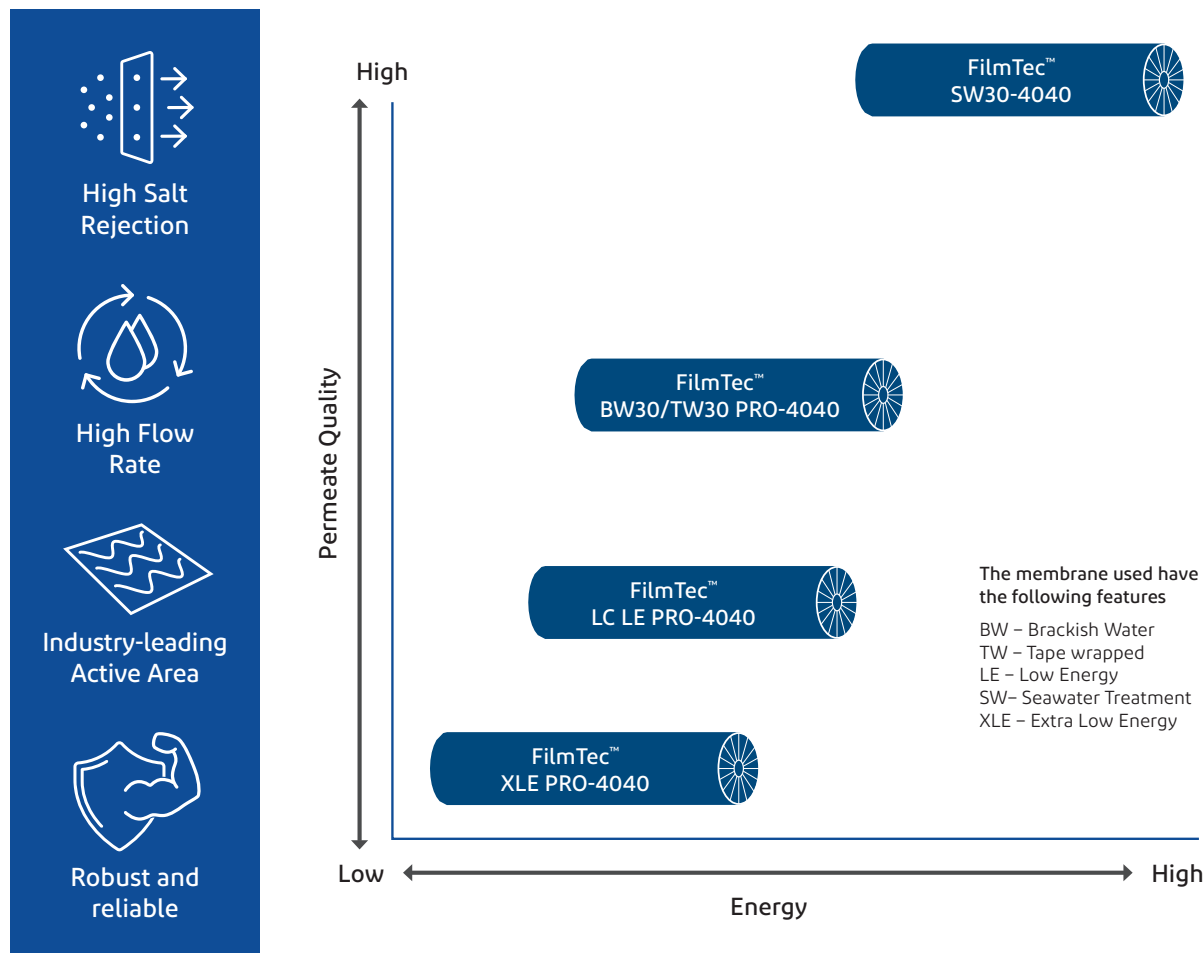
DuPont Water Solutions provides an extensive range of water-treatment technologies to help commercial facilities operate efficiently and deliver quality products to their customers.

DuPont™ FilmTec™ RO element large commercial portfolio - Boosting performance while reaching an unparalleled sustainability impact.

The range of Filmtec™ <4" and 4" size elements is designed to address a wide variety of customer priorities for commercial applications, from the highest purity water to the lowest total system costs. Offering consistent, outstanding system performance, DuPont™ FilmTec™ elements are highly effective in light industrial, commercial and consumer water applications.

FilmTec™ Large Commerical RO Advantages

- FilmTec™ large commercial RO membranes are made in USA with high-quality raw materials and are supplied in dry form , making them easy to handle and install, while extending shelf life.
- Powered by DuPont RO patented technology, the FilmTec™ membranes offer industry-leading reliability, exceptional antifouling performance and cleanability, and proven robustness.
- Featuring a series of products for developing customized water treatment system solutions that can, reduce infrastructure costs, lower operating expenses and reduce energy consumption while providing long lasting and reliable performance.
- A global leader in technologies for commercial water industry, DuPont is trusted by customers and partners and is globally recognized for its innovative solutions, expert support network and the unparalleled reliability of its products.





Large Commercial RO Elements

Product typical properties

Product Name	Product flow [GPD/m ³ /d]	Salt Rejection (Stable) %	Element Diameter [in]	Element Length [in]	Product Main Feature	Test Conditions
BW30 PRO-2540	1,000/3.8	99.7	2.5	40	Improved salt rejection and flow	A
BW30 PRO-4040	2,600/9.8	99.7	4	40	Improved salt rejection and flow	A
TW30 PRO-4040	2600/9.6	99.7	4	40	Improved salt rejection and flow	A
TW30 PRO-2540	1000/3.7	99.7	2.5	40	Improved salt rejection and flow	A
LC LE PRO-4040	2,600/9.8	99.5	4	40	Extreme low energy	B
XLE PRO-4040	2,750/10.4	99	4	40	High flux results in high yields	C
XLE PRO-2540	1,200/4.5	99	2.5	40	High flux results in high yields	C
SW30-4040	1950/7.4	99.5	4	40	High flow reduces energy consumption, high rejection	D
SW30-2540	700/2.6	99.5	2.5	40	High flow reduces energy consumption, high rejection	D

Test	Salt formula	Concentration mg/L	pH	Pressure Psi bar	Temperature °C °F	Recovery (%)
A	NaCl	2000	8	225/15.5	25/77	15
B	NaCl	2000	8	150/10.3	25/77	15
C	NaCl	2000	8	125/6.9	25/77	15
D	NaCl	32,000	8	800/55	25/77	8

Product key features

RO Element	Key Features
FilmTec™ LC LE PRO-4040	<ul style="list-style-type: none"> High salt rejection at low pressure in harsh water conditions, Providing effective cleaning performance, robustness and durability due to its broad cleaning PH range (1-13) Reduced fouling due to large active area, allowing element to have a lower operating pressure flux which still achieving higher flow
FilmTec™ XLE PRO-4040 / XLE PRO-2540	<ul style="list-style-type: none"> High flow rates offering greater yields Designed to produce good water quality at very low applied pressure for drinking water and commercial applications
FilmTec™ BW30 PRO-4040 / BW30 PRO-2540	<ul style="list-style-type: none"> Offers consistent water quality and higher rejection and flow compared to previous generation FilmTec™ BW 30 product Outstanding durability coupled with stable, long-term performance makes element suitable for sustainable water solutions Enhanced fouling protection
FilmTec™ TW30 PRO-4040 / TW 30 PRO-2540	<ul style="list-style-type: none"> Offers consistent water quality and higher rejection and flow compared to previous generation FilmTec™ TW 30 product Outstanding durability coupled with stable, long-term performance makes elements suitable for sustainable water solutions Enhanced fouling protection
FilmTec™ SW 30-4040 / SW 30-2540	<ul style="list-style-type: none"> High flux reduces energy requirements and required pressure Offers high rejection to help to meet WHO and other drinking water standard

Large Commercial RO Elements



World class RO membrane manufacturing processes and quality assurance

Membrane designed and made in USA

- DuPont patented technology developed in USA
- FilmTec™ membranes are manufactured in USA

Robust Quality Checks

- FilmTec™ membranes completed qualifying tests before commercialization
- Membrane and element production lines are managed by quality management systems

International Certifications

- Both FilmTec™ membrane and element production lines are certified by international certifications (NSF, MOH)



Main Applications

RO Element	Main Application
FilmTec™ LC LE PRO-4040	• Light industrial and drinking water applications requiring good permeate quality, including refilling stations, bottling plants, hotels and schools
FilmTec™ XLE PRO-4040 / XLE PRO-2540	• Drinking & Commercial water plants requiring <500L/hr (0.5M3/hr) including hotels, restaurants, cafes, car washes, schools, and refilling stations
FilmTec™ TW30 PRO-4040 / TW 30 PRO-2540	• Light industrial and drinking water applications requiring stringent permeate quality
FilmTec™ BW30 PRO-4040 / BW30 PRO-2540	• Light industrial and drinking water applications requiring stringent permeate quality
FilmTec™ SW 30-4040 / SW 30-2540	• Sea-based and Land-based desalination equipment including onboard yachts and within marinas



Airports / Mall

Offer clean and healthy water to all visitors



Hospitals / Clinics

Provide clean and safe drinking water



Bottled drinking water

Manufacture safe and high quality drinking water for people on the go



Commercial Establishments

Ensure hygienic water for employees and customers



Hotels, Restaurants and Resorts

Ensure guests enjoy clean water



Community water plants

Provide convenient, safe water in challenging locations



Expertise beyond the products

Our Water Application Value Engine (WAVE™ design application) is the industry's first fully integrated free modeling software program for water treatment plant design. Featuring our leading technologies UF, RO, IER within a comprehensive tool, use a common interface, to simplify the multi-tech solution design process and multi-tech solution helps reduce time needed to manage your water-treatment system.



WAVE projection software

- 75+ TS&D personnel globally
- Engineering support
- Drawings, layouts, designs, projections, P&ID
- Projection software: RO, UF & IER





Powering performance worldwide.

With a large global manufacturing footprint, strong R&D expertise and technical support services and systems, we supply large volumes of high quality water treatment products, and offer worldwide after sales service. DuPont works with you, our customer, to understand unmet needs and helps develop tailored multi-tech solutions.

TECHNICAL SERVICE, RESEARCH & DEVELOPMENT

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 Edina, MN, USA
 Huzhou, China
 Hyderabad, India
 KAUST Jeddah, KSA
 Midland, MI, USA
 Shanghai, China
 Singapore
 Tarragona, Spain*
 Wilmington, DE, USA

COMMERCIAL OPERATIONS

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 Bangkok, Thailand
 Beijing, China
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 Buenos Aires, Argentina
 Budapest, Hungary
 Dubai, UAE
 Chengdu, China
 Delhi, India
 Edina, MN, USA
 Guangzhou, China
 HCM City, Vietnam
 Hong Kong, China
 Jakarta, Indonesia
 Johannesburg, South Africa
 Kuala Lumpur, Malaysia
 Madrid, Spain

Manila, Philippine
 Melbourne, Australia
 Mexico City, Mexico
 Midland, MI, USA
 Moscow, Russia
 Mumbai, India
 Nairobi, Kenya
 Paris, France
 São Paulo, Brazil
 Seoul, Republic of Korea
 Pfaffikon, Switzerland
 Shanghai, China
 Singapore
 Surabaya, Indonesia
 Taipei, Taiwan
 Tokyo, Japan
 Warsaw, Poland

MANUFACTURING

Chauny, France
 Edina, MN, USA
 Fombio, Italy
 Huzhou, China
 Jubail Industry City, Saudi Arabia
 Midland, MI, USA
 Qingpu, China
 Soma, Japan

* Global Water
Technology Center



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