For high purity water, with reliable performance

FilmTec™ Commercial RO Element Catalogue

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.

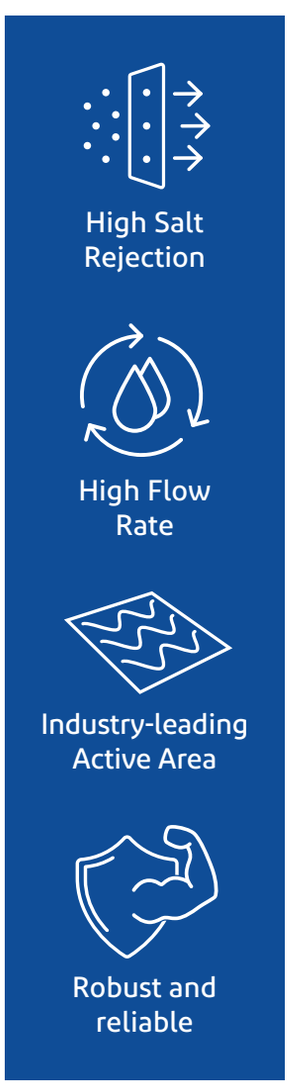
DuPont Water Solutions provides an extensive range of water-treatment technologies to help commercial facilities operate efficiently and deliver quality products to their customers.

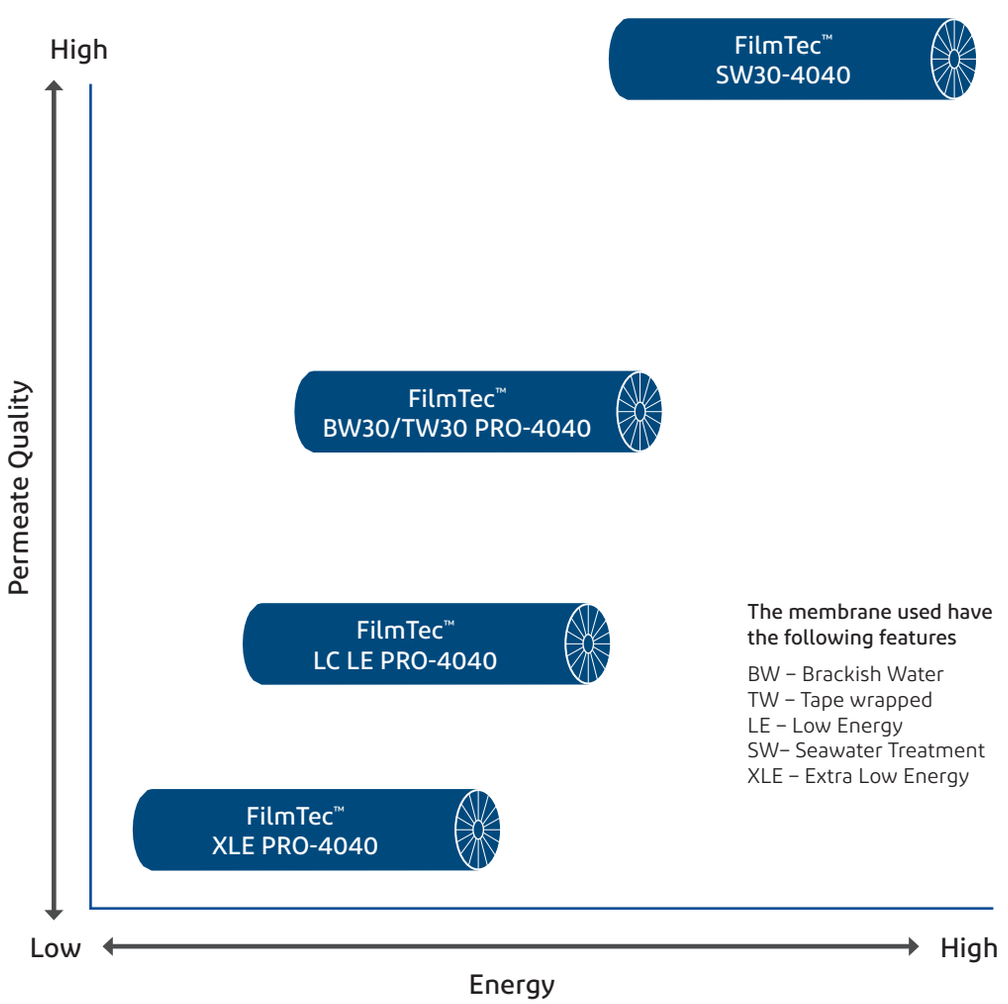
DuPont™ FilmTec™ RO element large commercial portfolio - Boosting performance while reaching an unparalleled sustainability impact.

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.





Product typical properties

Product Name	Product flow [GPD/m³/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	1000/3.8	99	2.5	40	High flux results in high yields	C
SW30-4040	1950/7.4	99.7	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	• 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	• 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	• 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	• Offers consistent water quality and higher rejection and flow compared to previous generation FilmTec™ TW 30 proudct • 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	• High flux reduces energy requirements and required pressure • Offers high rejection to help to meet WHO and other drinking water standard

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

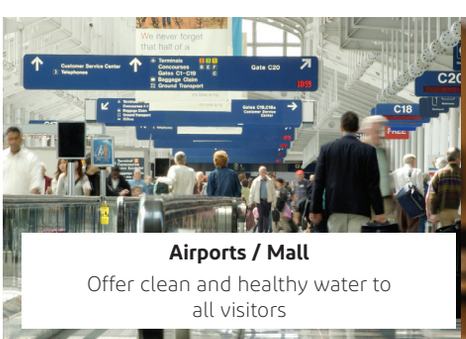
- FilmTec™ membranes completed qualifying tests before commercialization
- Membrane and element production lines are managed by quality management systems

International Certifications

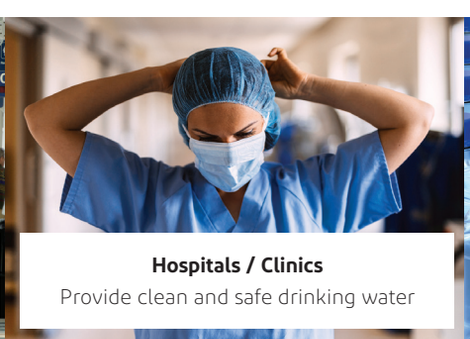
- Both FilmTec™ membrane and element production lines are certified by international certifications (NSF, MOH)

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

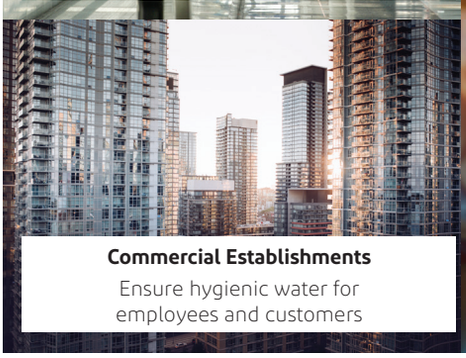


Airports / Mall
Offer clean and healthy water to all visitors

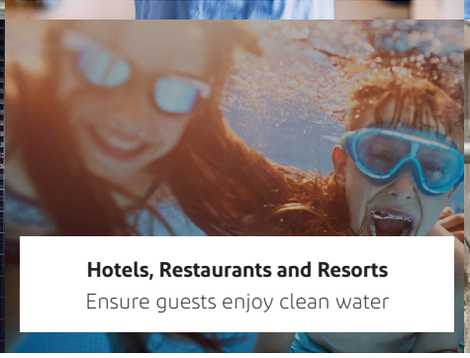


Hospitals / Clinics
Provide clean and safe drinking water

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



Commercial Establishments
Ensure hygienic water for employees and customers

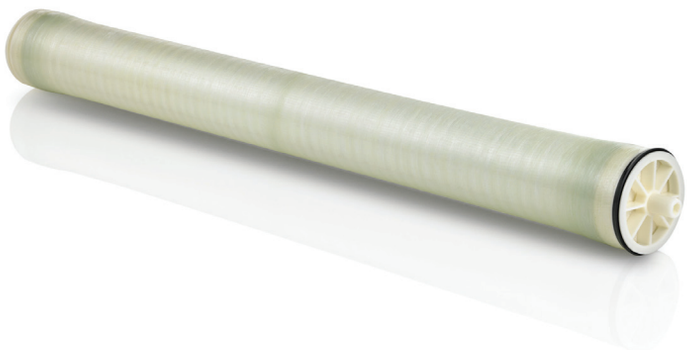


Hotels, Restaurants and Resorts
Ensure guests enjoy clean water

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

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

COMMERCIAL OPERATIONS

Astana, Kazakhstan
Bangkok, Thailand
Beijing, China
Bogota, Colombia
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 Lampur, 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
Pfaeffikon, Switzerland
Shanghai, China
Singapore
Surubyia, Indonesia
Taipei, Taiwan
Tokyo, Japan
Warsaw, Poland

MANUFACTURING

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

* Global Water Technology Center

Have a question? Contact us at: dupont.com/water/contact-us

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