

Water Solutions



# Prime RO

PROven  
PROgressive  
PROductive  
PROficient  
PROminent



DuPont introduces  
New FilmTec™ Prime RO Portfolio



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PROgressive  
PROductive  
PROficient  
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# DuPont introduces Prime RO Industrial Portfolio

- **PROven** Based on the historical FilmTec™ BW30, with more than 40 years of manufacturing experience
- **PROgressive** Continuous innovation to reach unparalleled combination of product specifications, durability and cleanability
- **PROductive** Enables customers to benefit from up to 20% in energy consumption savings while improving permeate quality by up to 50%
- **PROficient** Outstanding performance and durability compared to other available alternatives
- **PROminent** Demonstrates unparalleled combination of product specifications, durability and cleanability

# Prime RO Portfolio | The Next Generation



# New FilmTec™ Prime RO Products and Timeline



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# Prime RO Portfolio | The Next Generation

## Current Portfolio

	Product Name	Salt Rejection (%)		Flow (GPD)	Spacer (mil)		Product Name	Salt Rejection (%)		Flow (GPD)	Spacer (mil)
		Stabilized	Minimum					Stabilized	Minimum		
Phase 1 Jan '22	BW30XFR-400/34 (i)	99.65	99.4	11,500	34-LDP	»»»	BW30XHR PRO-400/34 (i)	99.8	99.6	11,500	34-LDP
	BW30-400	99.5	99	10,500	28	»»»	BW30 PRO-400	99.6	99.4	11,000	28
	BW30-400/34 (i)	99.5	99	10,500	34	»»»	BW30 PRO-400/34 (i)	99.6	99.4	11,000	34
Phase 2 April '22	BW30-365	99.5	99	9,500	34	»»»	BW30 PRO-365	99.55	99.35	10,000	34
	BW30 IG-400	99.5	99	10,500	28	»»»	BW30 IG PRO-400	99.55	99.35	11,000	28

■ Improved Specifications



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# Prime RO Portfolio | The Next Generation

## 2<sup>nd</sup> pass

### Prime RO Portfolio

	Product Name	Salt Rejection (%)		Flow (GDP)	Spacer (mil)
		Stabilized	Minimum		
Existing Product	BW30HR-440 (i)*	99.7	99.4	12,650	28
Oct '21	BW30XHR PRO-440	99.8	99.6	12,650	28

■ Improved Specifications

\* Will not be discontinued

- Product available by mid-October
- Key Applications: 2<sup>nd</sup> pass or high-quality water first pass
- FilmTec™ BW30HR-440(i) will NOT be discontinued
- Separate sessions will be offered for this product



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# Prime RO Portfolio | Product Launch

Jan '22

BW30 PRO-400

BW30 PRO-400/34

BW30 PRO-400/34i

BW30XHR PRO-400/34

BW30XHR PRO-400/34i

BW30XHR PRO-440\*

April '22

BW30 PRO-365

BW30 IG PRO-400

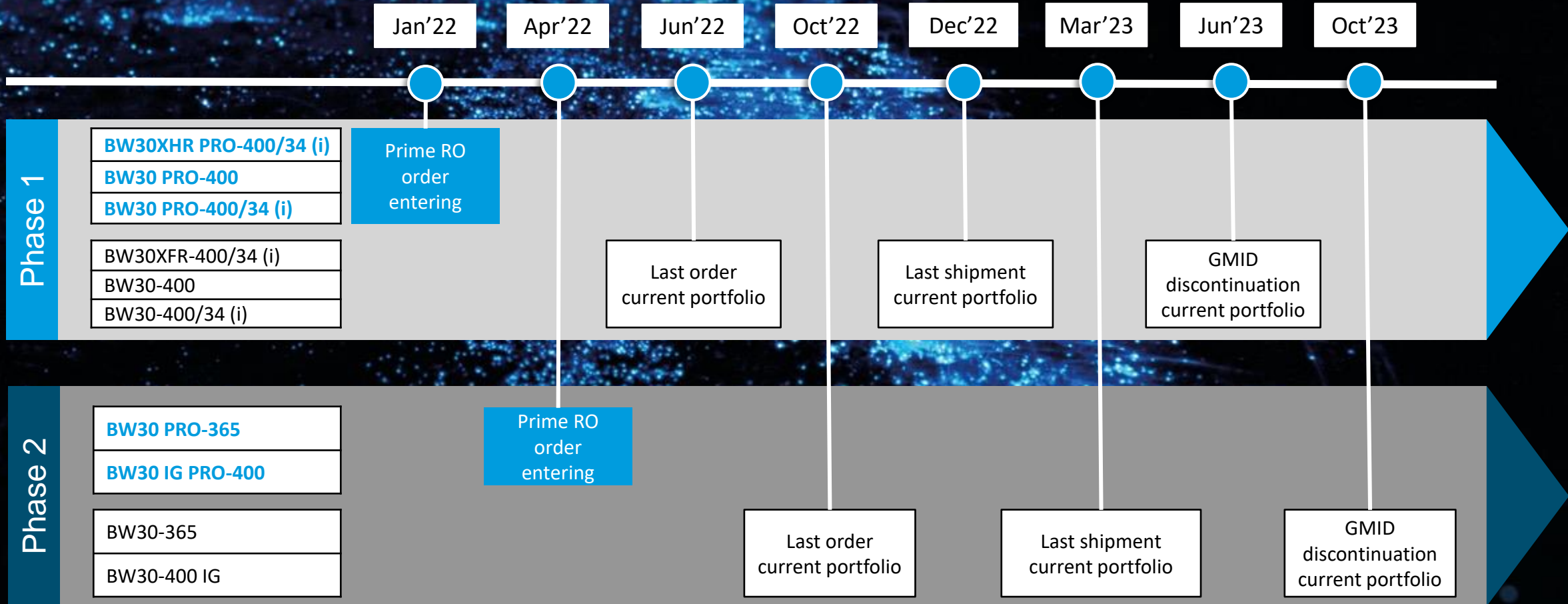
\* Orders can be entered as soon as mid-Oct



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# Prime RO Portfolio | New and Old products timeline



# New FilmTec™ Prime RO Benefits and Replacement



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# Prime RO Portfolio | Benefits & Replacement guide

## Users of BW30-365

### Option 1 – Upgrade to BW30 PRO-365

- ~10% Lower permeate TDS
- ~5% Higher permeate flow

### Option 2 – Upgrade to BW30 PRO-400

- ~20% Lower permeate TDS
- ~15% Higher permeate flow

### Option 3 – Upgrade to BW30 PRO-400/34 (i)

- ~20% Lower permeate TDS
- ~15% Higher permeate flow
- Available with iLEC™

### Option 4 – Upgrade to BW30XHR PRO-400/34 (i)

- ~60% Lower permeate TDS
- ~20% Higher permeate flow
- Enhanced fouling protection thanks to 34 mil LDP feed spacer
- Available with iLEC™

Replacement Option	Product Name	Salt Rejection (%)		Flow (GPD)	Spacer (mil)
		Stabilized	Minimum		
Original Product	BW30-365	99.5	99.0	9,500	34
Option 1	BW30 PRO-365	99.55	99.35	10,000	34
Option 2	BW30 PRO-400	99.6	99.4	11,000	28
Option 3	BW30 PRO-400/34 (i)	99.6	99.4	11,000	34
Option 4	BW30XHR PRO-400/34 (i)	99.8	99.6	11,500	34-LDP

# Prime RO Portfolio | Benefits & Replacement guide

## Users of BW30-400

### Option 1 – Upgrade to BW30 PRO-400

- ~20% Lower permeate TDS
- ~5% Higher permeate flow

### Option 2 – Upgrade to BW30 PRO-400/34 (i)

- ~20% Lower permeate TDS
- ~5% Higher permeate flow
- Enhanced fouling protection thanks to 34 mil feed spacer
- Available with iLEC™

### Option 3 – Upgrade to BW30XHR PRO-400/34 (i)

- ~60% Lower permeate TDS
- ~10% Higher permeate flow
- Enhanced fouling protection thanks to 34 mil LDP feed spacer
- Available with iLEC™

Replacement Option	Product Name	Salt Rejection (%)		Flow (GPD)	Spacer (mil)
		Stabilized	Minimum		
Original Product	BW30-400	99.5	99	10,500	28
Option 1	BW30 PRO-400	99.6	99.4	11,000	28
Option 2	BW30 PRO-400/34 (i)	99.6	99.4	11,000	34
Option 3	BW30XHR PRO-400/34 (i)	99.8	99.6	11,500	34-LDP

# Prime RO Portfolio | Benefits & Replacement guide

## Users of BW30-400/34 (i)

### Option 1 – Upgrade to BW30 PRO-400/34 (i)

- ~20% Lower permeate TDS
- ~5% Higher permeate flow
- Available with iLEC™

### Option 2 – Upgrade to BW30XHR PRO-400/34 (i)

- ~60% Lower permeate TDS
- ~10% Higher permeate flow
- Enhanced fouling protection thanks to 34 mil LDP feed spacer
- Available with iLEC™

Replacement Option	Product Name	Salt Rejection (%)		Flow (GDP)	Spacer (mil)
		Stabilized	Minimum		
Original Product	BW30-400/34 (i)	99.5	99	10,500	34 mil
Option 1	BW30 PRO-400/34 (i)	99.6	99.4	11,000	34 mil
Option 2	BW30XHR PRO-400/34 (i)	99.8	99.6	11,500	34-LDP

# Prime RO Portfolio | Benefits & Replacement guide

## Users of BW30-400 IG

### Option 1 – Upgrade to BW30 IG PRO-400

- ~10% Lower permeate TDS
- ~5% Higher permeate flow

### Option 2 – Upgrade to BW30 PRO-400

- ~20% Lower Permeate TDS
- ~5% Higher permeate flow

### Option 3 – Upgrade to BW30 PRO-400/34 (i)

- ~20% Lower Permeate TDS
- ~5% Higher permeate flow
- Enhanced fouling protection thanks to 34 mil feed spacer
- Available with iLEC™

Replacement Option	Product Name	Salt Rejection (%)		Flow (GDP)	Spacer (mil)
		Stabilized	Minimum		
Original Product	BW30-400 IG	99.5	99	10,500	28
Option 1	BW30 IG PRO-400	99.55	99.35	11,000	28
Option 2	BW30 PRO-400	99.6	99.4	11,000	28
Option 3	BW30 PRO-400/34 (i)	99.6	99.4	11,000	34

# Prime RO Portfolio | Benefits & Replacement guide

## Users of BW30XFR-400/34 (i)

### Option 1 – Upgrade to BW30XHR PRO-400/34 (i)

- ~40% Lower permeate TDS
- Available with iLEC™
- Similar fouling protection as BW30XFR

### Option 2 – Upgrade to Fortilife™ CR100 (i)

- Contaminant & biofouling resistant
- ~15% Lower permeate TDS
- Enhanced fouling protection thanks to 34 mil L2DP feed spacer
- Available with iLEC™

Replacement Option	Product Name	Salt Rejection (%)		Flow (GDP)	Spacer (mil)
		Stabilized	Minimum		
Original Product	BW30XFR-400/34 (i)	99.65	99.4	11,500	34-LDP
Option 1	<b>BW30XHR PRO-400/34 (i)</b>	<b>99.8</b>	<b>99.6</b>	11,500	34-LDP
Option 2	<b>CR100 (i)</b>	<b>99.7</b>	99.4	11,500	<b>34-L2DP</b>

# Prime RO Portfolio | PDS

## What's new?

- Clear, simplified and differentiated value proposition
- New links to the products' operational limits
- Content consolidated to fit into **2 pages**

**Product Data Sheet**  
FilmTec™ Reverse Osmosis Membranes

**FilmTec™ BW30 PRO-365**

High Rejection, High Reliability Industry-Standard Brackish Water Reverse Osmosis Membrane Element

**Key Features**

- Delivers consistent water quality and higher rejection and flow than previous generation BW30 product
- Based on historical BW30 industry-standard RO membrane with decades of proven performance
- Outstanding durability resulting in stable long-term performance
- Enhanced fouling protection thanks to 34 mil feed spacer

**Key Applications**

- Product replacement in existing systems
- Demineralization for industrial applications, such as: Power Generation, Steel & Metal, Chemical & Petrochemical

**Typical Properties**

FilmTec™ Element	Active Area ft² (m²)	Feed Spacer Thickness (mil)	Permeate Flow Rate gpd (m³/d)	Stabilized Salt Rejection (%)	Minimum Salt Rejection (%)
BW30 PRO-365	365 (34)	34	10,000 (38)	99.55	99.35

1. Permeate flow and salt rejection based on the following standard conditions: 2,000 ppm NaCl, 225 psi (15.5 bar), 77°F (25°C), pH 8 and 15% recovery.  
2. Flow rates for individual elements may vary but will be no more than 15% below the value shown.  
3. Sales specifications may vary as design revisions take place.

**Element Dimensions**

FilmTec™ Element BW30 PRO-365	Dimensions - inches (mm)
A	40.0 (1,016)
B	1.125 ID (29)
C	7.9 (201)

1. For element weight information refer to the [FAQ](#).  
2. For element packaging and shipping information refer to [How are FilmTec™ elements packaged and shipped?](#)

**Product Data Sheet**  
FilmTec™ Reverse Osmosis Membranes

**FilmTec™ BW30 PRO-400/34**

High Rejection and High Performance Industry-Standard Brackish Water Reverse Osmosis Membrane Element

**Key Features**

- Delivers consistent water quality and higher rejection and flow than previous generation BW30 product
- Based on historical BW30 industry-standard RO membrane with decades of proven performance
- Outstanding durability resulting in stable long-term performance
- Enhanced fouling protection thanks to 34 mil feed spacer

**Key Applications**

- Demineralization for industrial applications, such as: Power Generation, Steel & Metal, Chemical & Petrochemical
- Municipal water purification

**Typical Properties**

FilmTec™ Element	Active Area ft² (m²)	Feed Spacer Thickness (mil)	Permeate Flow Rate gpd (m³/d)	Stabilized Salt Rejection (%)	Minimum Salt Rejection (%)
BW30 PRO-400/34	400 (37)	34	11,000 (42)	99.6	99.4

1. Permeate flow and salt rejection based on the following standard conditions: 2,000 ppm NaCl, 225 psi (15.5 bar), 77°F (25°C), pH 8 and 15% recovery.  
2. Flow rates for individual elements may vary but will be no more than 15% below the value shown.  
3. Sales specifications may vary as design revisions take place.

**Element Dimensions**

FilmTec™ Element BW30 PRO-400/34	Dimensions - inches (mm)
A	40.0 (1,016)
B	1.125 ID (29)
C	7.9 (201)

1. For element weight information refer to the [FAQ](#).  
2. For element packaging and shipping information refer to [How are FilmTec™ elements packaged and shipped?](#)

**Product Data Sheet**  
FilmTec™ Reverse Osmosis Membranes

**FilmTec™ BW30XHR PRO-400/34i**

Extra High Rejection Brackish Water Reverse Osmosis Membrane Element

**Key Features**

- Offers exceptional permeate quality
- Delivers excellent silica, boron, nitrate, TOC and ammonium rejection
- Outstanding durability resulting in stable, long-term performance
- Enhanced fouling protection thanks to 34 mil feed spacer
- Includes iLEC™ interlocking end caps, reducing system operating costs and the risk of o-ring leaks that can cause poor water quality

**Key Applications**

- Demineralization for industrial applications, such as: Power Generation, Steel & Metal, Chemical & Petrochemical
- Municipal water purification
- Applications requiring stringent permeate quality

**Typical Properties**

FilmTec™ Element	Active Area ft² (m²)	Feed Spacer Thickness (mil)	Permeate Flow Rate gpd (m³/d)	Stabilized Salt Rejection (%)	Minimum Salt Rejection (%)
BW30XHR PRO-400/34i	400 (37)	34 LDP	11,500 (43.5)	99.9	99.6

1. Permeate flow and salt rejection based on the following standard conditions: 2,000 ppm NaCl, 225 psi (15.5 bar), 77°F (25°C), pH 8 and 15% recovery.  
2. Flow rates for individual elements may vary but will be no more than 15% below the value shown.  
3. Sales specifications may vary as design revisions take place.

**Element Dimensions**

FilmTec™ Element BW30XHR PRO-400/34i	Dimensions - inches (mm)
A	40.0 (1,016)
B	40.5 (1,029)
C	7.9 (201)
D	1.125 ID (29)

1. For element weight information refer to the [FAQ](#).  
2. For element packaging and shipping information refer to [How are FilmTec™ elements packaged and shipped?](#)  
3. Individual elements with iLEC™ interlocking Endcaps measure 40.5 inches (1,029 mm) in length (B). The net length (A) of the elements when connected is 40.0 inches (1,016 mm).

# Prime RO Portfolio | WAVE Model

## Addition of Prime RO portfolio

- BW30 PRO-365
- BW30 PRO IG-400
- BW30 PRO-400
- BW30 PRO-400/34 (i)
- BW30 XHR PRO-400/34 (i)
- BW30 XHR PRO-440



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