Brackish Water RO Membranes-dBW Series

Desalt BW RO membrane elements are an important component of brackish water desalination systems, which are used to remove dissolved salts and other impurities from water sources that have a higher salt content than freshwater but lower salt content than seawater.

The dBW RO membrane elements are designed to provide stable and consistent membrane performance, making them ideal for use in industrial water treatment systems. Their high rejection rate for dissolved salts such as TOC and SiO2, means they are highly effective in removing difficult-to-remove impurities, which makes them a suitable option for near zero discharge for oil and petrochemical industry waste water treatment.

One of the benefits of dBW RO membrane elements is their low operating pressure, which makes them a more costeffective alternative for industrial-grade water treatment applications. They are also suitable for use in feed water for thermal power plant boilers, as they are capable of removing impurities that can cause scaling and corrosion in the boiler system.

It's worth noting that dBW RO membrane elements are available in two sizes, 4" and 8", providing flexibility in system design and installation.

Operating Specifics

- pH Range Continuous Operation 2-11
- pH Range Short-Term Cleaning 1-13
- Maximum Operating Temperature 45°C (113°F)
- Maximum Feed SDI(SDI15)
- Maximum Operating Pressure
- Maximum Element Pressure Drop
- Free Chlorine Tolerance

41 bar	(600 psi
1.0 bar	[.] (15psi)
< 0.1 pr	om

5.0



Model	Membrane	Max. Salt	Min. Salt	Flux, gpd	A	B	C
	Area ft² (m²)	Rejection	Rejection	(m³/d)	Inch (mm)	Inch (mm)	Inch (mm)
dBW 8040-400	400(37)	99.5%	99.0%	10,500(40)	40(1,016)	7.9(201)	1.125 (29)

Rejection & Flux rate:

- 77°F(25°C)
- PH 8 feedwater
- 2,000 ppm NaCl solution
- 1.55 MPa (225 psi) pressure
- 15% recovery

- Permeate flow for individual elements from the value specifed: ±15 percent.
- Guaranteed active membrane area : $\pm 4\%$.
- Stabilized salt rejection is generally achieved within 24-48 hours of continuous use; depending upon feedwater characteristics and operating conditions.

Brackish Water RO Membranes-dBW Series

Desalt BW RO membrane elements are an important component of brackish water desalination systems, which are used to remove dissolved salts and other impurities from water sources that have a higher salt content than freshwater but lower salt content than seawater.

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One of the benefits of dBW RO membrane elements is their low operating pressure, which makes them a more costeffective alternative for industrial-grade water treatment applications. They are also suitable for use in feed water for thermal power plant boilers, as they are capable of removing impurities that can cause scaling and corrosion in the boiler system.

It's worth noting that dBW RO membrane elements are available in two sizes, 4" and 8", providing flexibility in system design and installation.

Operating Specifics

- pH Range Continuous Operation 2-11
- pH Range Short-Term Cleaning 1-13
- Maximum Operating Temperature 45°C (113°F)
- Maximum Feed SDI(SDI15)
- Maximum Operating Pressure
- Maximum Element Pressure Drop
- Free Chlorine Tolerance

41 bar	(600 psi)
1.0 bar	⁻ (15psi)
< 0.1 pr	om

5.0



Model	Membrane	Max. Salt	Min. Salt	Flux, gpd	A	B	C
	Area ft² (m²)	Rejection	Rejection	(m³/d)	Inch (mm)	Inch (mm)	Inch (mm)
dBW 4040-78	78(7.2)	99.5%	99.0%	2,050(7.8)	37.9(963)	3.9(99)	0.75(19)

Rejection & Flux rate:

- 77°F(25°C)
- PH 8 feedwater
- 2,000 ppm NaCl solution
- 1.55 MPa (225 psi) pressure
- 15% recovery

- Permeate flow for individual elements from the value specifed: ±15 percent.
- Guaranteed active membrane area : $\pm 4\%$.
- Stabilized salt rejection is generally achieved within 24-48 hours of continuous use; depending upon feedwater characteristics and operating conditions.

Fouling Resistance Brackish Water RO Membranes-FR Series

Dsalt FR series RO membrane elements are specifically designed for use in industrial settings where the water source is contaminated with organic and microbial pollutants. The proprietary technology used in these membrane elements alters the surface properties of the membrane, making it more resistant to fouling and extending its service life. This can be particularly useful in applications where the feed water quality is poor, such as in paper plants waste water, dyeing waste water, and industrial waste water from thermal power plants.

It's also helpful to know that these RO membrane elements are available in 4" and 8" sizes, which can provide flexibility for different types of industrial applications. Overall, it sounds like the Dsalt FR series RO membrane elements offer a reliable and effective solution for treating contaminated water sources in industrial settings.

Operating Specifics

- pH Range Continuous Operation 2-11
- pH Range Short-Term Cleaning
- Maximum Operating Temperature
- Maximum Feed SDI(SDI15)
- Maximum Operating Pressure
- Maximum Element Pressure Drop
- Free Chlorine Tolerance

5.0 41 bar (600 psi) 1.0 bar (15psi) < 0.1 ppm

45°C (113°F)

1-13



Model	Membrane	Max. Salt	Min. Salt	Flux, gpd	A	B	C
	Area ft² (m²)	Rejection	Rejection	(m³/d)	Inch (mm)	Inch (mm)	Inch (mm)
dBW8040-400FR	400(37)	99.5%	99.0%	10,500(40)	40(1,016)	7.9(201)	1.125 (29)

Rejection & Flux rate:

- 77°F(25°C)
- PH 8 feedwater
- 2,000 ppm NaCl solution
- 1.55 MPa (225 psi) pressure
- 15% recovery

- Permeate flow for individual elements from the value specifed: ±15 percent .
- Guaranteed active membrane area : ±4%.
- Stabilized salt rejection is generally achieved within 24-48 hours of continuous use; depending upon feedwater characteristics and operating conditions.

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Operating Specifics

- pH Range Continuous Operation 2-11
- pH Range Short-Term Cleaning
- Maximum Operating Temperature
- Maximum Feed SDI(SDI15)
- Maximum Operating Pressure
- Maximum Element Pressure Drop
- Free Chlorine Tolerance

5.0 41 bar (600 psi) 1.0 bar (15psi) < 0.1 ppm

45°C (113°F)

1-13



Model	Membrane	Max. Salt	Min. Salt	Flux, gpd	A	B	C
	Area ft² (m²)	Rejection	Rejection	(m³/d)	Inch (mm)	Inch (mm)	Inch (mm)
dBW8040-400FR/34	400(37)	99.5%	99.0%	10,500(40)	40(1,016)	7.9(201)	1.125 (29)

Rejection & Flux rate:

- 77°F(25°C)
- PH 8 feedwater
- 2,000 ppm NaCl solution
- 1.55 MPa (225 psi) pressure
- 15% recovery

- Permeate flow for individual elements from the value specifed: ±15 percent .
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Operating Specifics

- pH Range Continuous Operation 2-11
- pH Range Short-Term Cleaning
- Maximum Operating Temperature
- Maximum Feed SDI(SDI15)
- Maximum Operating Pressure
- Maximum Element Pressure Drop
- Free Chlorine Tolerance

5.0 41 bar (600 psi) 1.0 bar (15psi) < 0.1 ppm

45°C (113°F)

1-13



Model	Membrane	Max. Salt	Min. Salt	Flux, gpd	A	B	C
	Area ft² (m²)	Rejection	Rejection	(m³/d)	Inch (mm)	Inch (mm)	Inch (mm)
dBW4040-78FR	78(7.2)	99.5%	99.0%	2,050(7.8)	37.9(963)	3.9(99)	0.75(19)

Rejection & Flux rate:

- 77°F(25°C)
- PH 8 feedwater
- 2,000 ppm NaCl solution
- 1.55 MPa (225 psi) pressure
- 15% recovery

- Permeate flow for individual elements from the value specifed: ±15 percent .
- Guaranteed active membrane area : ±4%.
- Stabilized salt rejection is generally achieved within 24-48 hours of continuous use; depending upon feedwater characteristics and operating conditions.

Extra Fouling Resistance Brackish Water RO Membranes- XFR Series

Desalt XFR series RO membrane elements are advanced water treatment solutions that are specifically designed to effectively remove organic and microbial contaminants from various water sources. These RO membrane elements are particularly useful in treating wastewater from various industries.

One of the key features of Desalt XFR series RO membrane elements is their high resistance to organic and microbial contamination. This is due to the proprietary technology used in these membrane elements, which alters the electric-static charges and smoothness of the membrane surface and enhances the hydrophilicity of the membrane surface. This technology significantly reduces the fouling rate and extends the service life of the membrane elements.

Another important aspect of Desalt XFR series RO membrane elements is their ability to handle poor feed water quality. The advanced membrane design and technology used in these elements enable them to effectively remove contaminants from water sources with poor quality.

Desalt XFR series RO membrane elements are available in two sizes - 4" and 8" - making them suitable for a wide range of industrial water treatment applications. Overall, these RO membrane elements are an excellent choice for industries that require reliable and efficient water treatment solutions.

Operating Specifics

- pH Range Continuous Operation 2-11
- pH Range Short-Term Cleaning 1-13
- Maximum Operating Temperature
- Maximum Feed SDI(SDI15)
- Maximum Operating Pressure
- Maximum Element Pressure Drop
- Free Chlorine Tolerance
- 5.0 41 bar (600 psi) 1.0 bar (15psi) < 0.1 ppm

45°C (113°F)



Model	Membrane	Max. Salt	Min. Salt	Flux, gpd	A	B	C
	Area ft² (m²)	Rejection	Rejection	(m³/d)	Inch (mm)	Inch (mm)	Inch (mm)
dBW8040-400XFR	400(37)	99.6%	99.4%	10,500(40)	40(1,016)	7.9(201)	1.125 (29)

Rejection & Flux rate:

- 77°F(25°C)
- PH 8 feedwater
- 2,000 ppm NaCl solution
- 1.55 MPa (225 psi) pressure
- 15% recovery

- Permeate flow for individual elements from the value specifed: ±15 percent .
- Guaranteed active membrane area : ±4%.
- Stabilized salt rejection is generally achieved within 24-48 hours of continuous use; depending upon feedwater characteristics and operating conditions.

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Operating Specifics

- pH Range Continuous Operation 2-11
- pH Range Short-Term Cleaning 1-13
- Maximum Operating Temperature
- Maximum Feed SDI(SDI15)
- Maximum Operating Pressure
- Maximum Element Pressure Drop
- Free Chlorine Tolerance
- Feed Spacer

41 bar (600 psi) 1.0 bar (15psi)

45°C (113°F)

5.0

- < 0.1 ppm
- 34 MIL



Model	Membrane	Max. Salt	Min. Salt	Flux, gpd	A	B	C
	Area ft² (m²)	Rejection	Rejection	(m³/d)	Inch (mm)	Inch (mm)	Inch (mm)
dBW8040-400XFR/34	400(37)	99.6%	99.4%	10,500(40)	40(1,016)	7.9(201)	1.125 (29)

Rejection & Flux rate:

- 77°F(25°C)
- PH 8 feedwater
- 2,000 ppm NaCl solution
- 1.55 MPa (225 psi) pressure
- 15% recovery

- Permeate flow for individual elements from the value specifed: ±15 percent .
- Guaranteed active membrane area : ±4%.
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Operating Specifics

- pH Range Continuous Operation 2-11
- pH Range Short-Term Cleaning 1-13
- Maximum Operating Temperature
- Maximum Feed SDI(SDI15)
- Maximum Operating Pressure
- Maximum Element Pressure Drop
- Free Chlorine Tolerance
- 5.0 41 bar (600 psi) 1.0 bar (15psi) < 0.1 ppm

45°C (113°F)



Model	Membrane	Max. Salt	Min. Salt	Flux, gpd	A	B	C
	Area ft² (m²)	Rejection	Rejection	(m³/d)	Inch (mm)	Inch (mm)	Inch (mm)
dBW4040-78XFR	78(7.2	99.6%	99.4%	2,050(7.8)	37.9(963)	3.9(99)	0.75(19)

Rejection & Flux rate:

- 77°F(25°C)
- PH 8 feedwater
- 2,000 ppm NaCl solution
- 1.55 MPa (225 psi) pressure
- 15% recovery

- Permeate flow for individual elements from the value specifed: ±15 percent .
- Guaranteed active membrane area : ±4%.
- Stabilized salt rejection is generally achieved within 24-48 hours of continuous use; depending upon feedwater characteristics and operating conditions.

Low Energy RO Membranes- LE Series

Desalt LE series RO membranes are a type of reverse osmosis (RO) membrane that have been specifically designed to operate more efficiently than traditional brackish water RO membranes. This has been achieved through changes in the formula and process conditions of the supporting layer and thin film composite layer.

One of the key advantages of the Desalt LE series RO membrane is its high rejection rate of 99.3%, which means that it is able to remove a high percentage of contaminants from the feed water. Additionally, this high rejection rate is achieved at a lower operating pressure compared to traditional brackish water RO membranes, resulting in a 33% reduction in operating pressure.

Another significant advantage of the Desalt LE series RO membrane is its energy efficiency. By reducing the operating pressure, this RO membrane element can reduce the energy consumption of the RO system by up to 1/3, without compromising the quality of the product water.

Desalt LE series RO membranes are available in two sizes, 4" and 8", providing flexibility in their application to a variety of systems. These membranes are ideal for applications in which energy efficiency is a priority, such as in desalination plants, industrial water treatment, and wastewater treatment.

Operating Specifics

- pH Range Continuous Operation 2-11
- pH Range Short-Term Cleaning 1-13
- Maximum Operating Temperature 45°C (113°F)
- Maximum Feed SDI(SDI15)
- Maximum Operating Pressure
- Maximum Element Pressure Drop
- Free Chlorine Tolerance
- 41 bar (600 psi) 1.0 bar (15psi) < 0.1 ppm

5.0



Model	Membrane	Max. Salt	Min. Salt	Flux, gpd	A	B	C
	Area ft² (m²)	Rejection	Rejection	(m³/d)	Inch (mm)	Inch (mm)	Inch (mm)
dBW8040-400LE	400(37)	99.3%	99.0%	11,500(44)	40(1,016)	7.9(201)	1.125 (29)

Rejection & Flux rate:

- 77°F(25°C)
- PH 8 feedwater
- 2,000 ppm NaCl solution
- 1.03 MPa (150 psi) pressure
- 15% recovery

- Permeate flow for individual elements from the value specifed: ±15 percent .
- Guaranteed active membrane area : ±4%.
- Stabilized salt rejection is generally achieved within 24-48 hours of continuous use; depending upon feedwater characteristics and operating conditions.

Low Energy RO Membranes- LE Series

Desalt LE series RO membranes are a type of reverse osmosis (RO) membrane that have been specifically designed to operate more efficiently than traditional brackish water RO membranes. This has been achieved through changes in the formula and process conditions of the supporting layer and thin film composite layer.

One of the key advantages of the Desalt LE series RO membrane is its high rejection rate of 99.3%, which means that it is able to remove a high percentage of contaminants from the feed water. Additionally, this high rejection rate is achieved at a lower operating pressure compared to traditional brackish water RO membranes, resulting in a 33% reduction in operating pressure.

Another significant advantage of the Desalt LE series RO membrane is its energy efficiency. By reducing the operating pressure, this RO membrane element can reduce the energy consumption of the RO system by up to 1/3, without compromising the quality of the product water.

Desalt LE series RO membranes are available in two sizes, 4" and 8", providing flexibility in their application to a variety of systems. These membranes are ideal for applications in which energy efficiency is a priority, such as in desalination plants, industrial water treatment, and wastewater treatment.

Operating Specifics

- pH Range Continuous Operation 2-11
- pH Range Short-Term Cleaning 1-13
- Maximum Operating Temperature 45°C (113°F)
- Maximum Feed SDI(SDI15)
- Maximum Operating Pressure
- Maximum Element Pressure Drop
- Free Chlorine Tolerance
- 5.0 41 bar (600 psi) 1.0 bar (15psi) < 0.1 ppm



Model	Membrane	Max. Salt	Min. Salt	Flux, gpd	A	B	C
	Area ft² (m²)	Rejection	Rejection	(m³/d)	Inch (mm)	Inch (mm)	Inch (mm)
dBW8040-440LE	440(41)	99.3%	99.0%	12,650(48)	40(1,016)	7.9(201)	1.125 (29)

Rejection & Flux rate:

- 77°F(25°C)
- PH 8 feedwater
- 2,000 ppm NaCl solution
- 1.03 MPa (150 psi) pressure
- 15% recovery

- Permeate flow for individual elements from the value specifed: ±15 percent .
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Low Energy RO Membranes- LE Series

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Another significant advantage of the Desalt LE series RO membrane is its energy efficiency. By reducing the operating pressure, this RO membrane element can reduce the energy consumption of the RO system by up to 1/3, without compromising the quality of the product water.

Desalt LE series RO membranes are available in two sizes, 4" and 8", providing flexibility in their application to a variety of systems. These membranes are ideal for applications in which energy efficiency is a priority, such as in desalination plants, industrial water treatment, and wastewater treatment.

Operating Specifics

- pH Range Continuous Operation 2-11
- pH Range Short-Term Cleaning 1-13
- Maximum Operating Temperature 45°C (113°F)
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- Maximum Operating Pressure
- Maximum Element Pressure Drop
- Free Chlorine Tolerance
- 41 bar (600 psi) 1.0 bar (15psi) < 0.1 ppm

5.0



Model	Membrane	Max. Salt	Min. Salt	Flux, gpd	A	B	C
	Area ft² (m²)	Rejection	Rejection	(m³/d)	Inch (mm)	Inch (mm)	Inch (mm)
dBW4040-78LE	78(7.2)	99.3%	99.0%	2,250(7.8)	37.9(963)	3.9(99)	0.75(19)

Rejection & Flux rate:

- 77°F(25°C)
- PH 8 feedwater
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- 15% recovery

- Permeate flow for individual elements from the value specifed: ±15 percent .
- Guaranteed active membrane area : ±4%.
- Stabilized salt rejection is generally achieved within 24-48 hours of continuous use; depending upon feedwater characteristics and operating conditions.

Extra Low Energy Brackish Water RO Membranes-XLE Series

Desalt XLE Series RO membrane is a type of reverse osmosis (RO) membrane that has been designed and engineered to improve the performance and efficiency of wastewater treatment systems. This membrane offers several advantages over traditional RO membranes, including increased specific surface area and hydrophilicity, which maximize permeate flux rate. This means that the Desalt XLE Series RO membrane can produce more purified water in less time than other RO membranes, making it highly effective for municipal wastewater treatment.

The Desalt XLE Series RO membrane is also highly cost-effective, with a lower total cost of ownership than many other membrane systems. This is due in part to its low energy consumption and high performance, which enable it to operate at a lower pressure than other RO membranes. In addition, the Desalt XLE Series RO membrane has a high rejection rate, meaning that it can remove up to 99% of contaminants from wastewater.

The Desalt XLE Series RO membrane is available in two sizes, 4" and 8", making it suitable for a wide range of wastewater treatment applications. Overall, the Desalt XLE Series RO membrane is a highly efficient, cost-effective, and environmentally friendly solution for municipal wastewater treatment.

Operating Specifics

- pH Range Continuous Operation 2-11
- pH Range Short-Term Cleaning 1-13
- Maximum Operating Temperature
- Maximum Feed SDI(SDI15)
- Maximum Operating Pressure
- Maximum Element Pressure Drop
- Free Chlorine Tolerance
- 5.0 41 bar (600 psi) 1.0 bar (15psi) < 0.1 ppm

45°C (113°F)



Model	Membrane	Max. Salt	Min. Salt	Flux, gpd	A	B	C
	Area ft² (m²)	Rejection	Rejection	(m³/d)	Inch (mm)	Inch (mm)	Inch (mm)
dBW8040-400XLE	400(37)	99.0%	98.0%	11,500(44)	40(1,016)	7.9(201)	1.125 (29)

Rejection & Flux rate:

- 77°F(25°C)
- PH 8 feedwater
- 2,000 ppm NaCl solution
- 0.69 MPa (100 psi) pressure
- 15% recovery

- Permeate flow for individual elements from the value specifed: ±15 percent .
- Guaranteed active membrane area : ±4%.
- Stabilized salt rejection is generally achieved within 24-48 hours of continuous use; depending upon feedwater characteristics and operating conditions.

Extra Low Energy Brackish Water RO Membranes-XLE Series

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- Maximum Feed SDI(SDI15)
- Maximum Operating Pressure
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- 41 bar (600 psi) 1.0 bar (15psi) < 0.1 ppm

45°C (113°F)

5.0



Model	Membrane	Max. Salt	Min. Salt	Flux, gpd	A	B	C
	Area ft² (m²)	Rejection	Rejection	(m³/d)	Inch (mm)	Inch (mm)	Inch (mm)
dBW8040-440XLE	440(41)	99.0%	98.0%	12,650(48)	40(1,016)	7.9(201)	1.125 (29)

Rejection & Flux rate:

- 77°F(25°C)
- PH 8 feedwater
- 2,000 ppm NaCl solution
- 0.69 MPa (100 psi) pressure
- 15% recovery

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- pH Range Continuous Operation 2-11
- pH Range Short-Term Cleaning 1-13
- Maximum Operating Temperature
- Maximum Feed SDI(SDI15)
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- Free Chlorine Tolerance
- 41 bar (600 psi) 1.0 bar (15psi) < 0.1 ppm

45°C (113°F)

5.0



Model	Membrane	Max. Salt	Min. Salt	Flux, gpd	A	B	C
	Area ft² (m²)	Rejection	Rejection	(m³/d)	Inch (mm)	Inch (mm)	Inch (mm)
dBW4040-78XLE	78(7.2)	99.0%	98.0%	2,250(7.8)	37.9(963)	3.9(99)	0.75(19)

Rejection & Flux rate:

- 77°F(25°C)
- PH 8 feedwater
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- 15% recovery

- Permeate flow for individual elements from the value specifed: ±15 percent .
- Guaranteed active membrane area : ±4%.
- Stabilized salt rejection is generally achieved within 24-48 hours of continuous use; depending upon feedwater characteristics and operating conditions.

Fouling Resistance & Low Energy RO Membranes-FRLE Series

Desalt FRLE series RO membrane element are a promising technology for treating feed water with biofouling or organism fouling. Its superior fouling resistance and low energy consumption make it an attractive option for industrial and municipal water treatment applications.

The fact that the Desalt FRLE series operates at 30% lower pressure than regular dBW RO membranes is particularly noteworthy. This means that the system requires less energy to operate, which can translate to lower operational costs and a reduced environmental footprint.

It's also impressive that the Desalt FRLE series can achieve rejection rates of up to 99.3%. This means that it can effectively remove a wide range of contaminants from the feed water, including salts, minerals, and organic compounds.

Overall, the Desalt FRLE series RO membrane element seems like a high-performance option for treating feed water with biofouling or organism fouling. The availability of 4" and 8" sizes also makes it suitable for a range of applications, from small-scale operations to large municipal or industrial treatment plants.

Operating Specifics

- pH Range Continuous Operation 2-11
- pH Range Short-Term Cleaning
- Maximum Operating Temperature
- Maximum Feed SDI(SDI15)
- Maximum Operating Pressure
- Maximum Element Pressure Drop
- Free Chlorine Tolerance
- 5.0 41 bar (600 psi) 1.0 bar (15psi) < 0.1 ppm

45°C (113°F)

1-13



Model	Membrane	Max. Salt	Min. Salt	Flux, gpd	A	B	C
	Area ft² (m²)	Rejection	Rejection	(m³/d)	Inch (mm)	Inch (mm)	Inch (mm)
dBW8040-400FRLE	400(37)	99.3%	99.0%	11,500(44)	40(1,016)	7.9(201)	1.125 (29)

Rejection & Flux rate:

- 77°F(25°C)
- PH 8 feedwater
- 2,000 ppm NaCl solution
- 0.69 MPa (100 psi) pressure
- 15% recovery

- Permeate flow for individual elements from the value specifed: ±15 percent .
- Guaranteed active membrane area : ±4%.
- Stabilized salt rejection is generally achieved within 24-48 hours of continuous use; depending upon feedwater characteristics and operating conditions.

Fouling Resistance & Low Energy RO Membranes-FRLE Series

1-13

5.0

45°C (113°F)

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Operating Specifics

- pH Range Continuous Operation 2-11
- pH Range Short-Term Cleaning
- Maximum Operating Temperature
- Maximum Feed SDI(SDI15)
- Maximum Operating Pressure
- Maximum Element Pressure Drop
- Free Chlorine Tolerance
- Feed Spacer 34 MIL

<u>م</u>	desolt dBW Series	
C		

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Model	Membrane	Max. Salt	Min. Salt	Flux, gpd	A	B	C
	Area ft² (m²)	Rejection	Rejection	(m³/d)	Inch (mm)	Inch (mm)	Inch (mm)
dBW8040-400FRLE /34	400(37)	99.3%	99.0%	11,500(44)	40(1,016)	3.9(99)	0.75(19)

Rejection & Flux rate:

- 77°F(25°C)
- PH 8 feedwater
- 2,000 ppm NaCl solution
- 0.69 MPa (100 psi) pressure
- 15% recovery

- Permeate flow for individual elements from the value specifed: ±15 percent .
- Guaranteed active membrane area : ±4%.
- Stabilized salt rejection is generally achieved within 24-48 hours of continuous use; depending upon feedwater characteristics and operating conditions.

High Rejection & Fouling Resistance Brackish RO Membranes-HRFR Series

Desalt HRFR series RO membrane element are an essential component of reverse osmosis (RO) systems, which are commonly used in industrial and water treatment applications to remove impurities from water and achieve high-quality effluent water.

The Desalt HRFR series RO membrane element to be a high-performing option with a maximum and stable desalination rate of 99.7%. This means that it can effectively remove up to 99.7% of dissolved salts and other impurities from water, making it an ideal choice for applications that require high water purification requirements.

With an active area of 400 square feet, these RO membrane elements can maximize productivity and provide accurate system design and predictable flux. The availability of these RO membranes in both 4" and 8" sizes provides flexibility for system designers to choose the optimal configuration for their specific application needs.

Overall, the Desalt HRFR series RO membrane element to be a cost-effective solution that can meet the strictest requirements for effluent water quality in a single primary RO membrane system.

Operating Specifics

- pH Range Continuous Operation 2-11
- pH Range Short-Term Cleaning 1-13
- Maximum Operating Temperature
- Maximum Feed SDI(SDI15)
- Maximum Operating Pressure
- Maximum Element Pressure Drop
- Free Chlorine Tolerance
- 5.0 41 bar (600 psi) 1.0 bar (15psi) < 0.1 ppm

45°C (113°F)



Model	Membrane	Max. Salt	Min. Salt	Flux, gpd	A	B	C
	Area ft² (m²)	Rejection	Rejection	(m³/d)	Inch (mm)	Inch (mm)	Inch (mm)
dBW8040-400HRFR	400(37)	99.7%	99.4%	11,500(44)	40(1,016)	7.9(201)	1.125 (29)

Rejection & Flux rate:

- 77°F(25°C)
- PH 8 feedwater
- 2,000 ppm NaCl solution
- 1.55 MPa (255 psi) pressure
- 15% recovery

- Permeate flow for individual elements from the value specifed: ±15 percent .
- Guaranteed active membrane area : ±4%.
- Stabilized salt rejection is generally achieved within 24-48 hours of continuous use; depending upon feedwater characteristics and operating conditions.

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Operating Specifics

- pH Range Continuous Operation 2-11
- pH Range Short-Term Cleaning 1-13
- Maximum Operating Temperature
- Maximum Feed SDI(SDI15)
- Maximum Operating Pressure
- Maximum Element Pressure Drop
- Free Chlorine Tolerance
- 5.0 41 bar (600 psi) 1.0 bar (15psi) < 0.1 ppm

45°C (113°F)



Model	Membrane	Max. Salt	Min. Salt	Flux, gpd	A	B	C
	Area ft² (m²)	Rejection	Rejection	(m³/d)	Inch (mm)	Inch (mm)	Inch (mm)
dBW4040-78HRFR	78(7.2)	99.7%	99.4%	2,250(7.8)	37.9(963)	3.9(99)	0.75(19)

Rejection & Flux rate:

- 77°F(25°C)
- PH 8 feedwater
- 2,000 ppm NaCl solution
- 1.55 MPa (255 psi) pressure
- 15% recovery

- Permeate flow for individual elements from the value specifed: ±15 percent .
- Guaranteed active membrane area : ±4%.
- Stabilized salt rejection is generally achieved within 24-48 hours of continuous use; depending upon feedwater characteristics and operating conditions.