



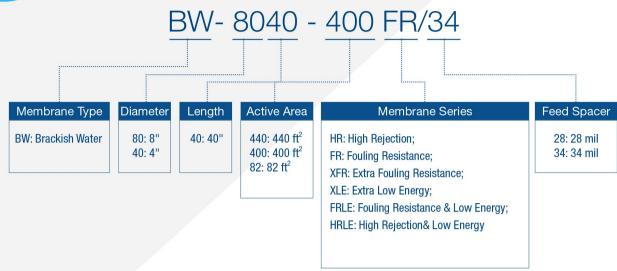


Seawater Desalination RO Membrane Performance Specifications

		Active Area	Flux	Min.	Stablized	Stabilized Boron		Test Conditions	;
Туре	Membrane Model	ft ² (m ²)	gpd (m³/d)	Rejection Rate (%)	Rejection Rate (%)	Rejection Rate (%)	Pressure psi (MPa)	Solution NaCl (ppm)	Recovery (%)
LID	SW-8040-400HR	400 (37.2)	6,500 (24.5)	99.65	99.80	92.0			
HR	SW-4040-82HR	82 (7.6)	1,320 (5)	99.60	99.75	/			
	SW-8040-400XLE/34	400 (37.2)	9,000 (34)	99.60	99.80	92.0			
XLE	SW-8040-440XLE	440 (41)	9,750 (37)	99.60	99.80	92.0			
	SW-4040-82XLE	82 (7.6)	1,660 (6.3)	99.60	99.65	/			
	SW-8040-400HRLE	400 (37.2)	7,400 (28)	99.65	99.80	92.0	000 (5.5)	00.000	0
HRLE	SW-8040-440HRLE	440 (41)	7,900 (30)	99.65	99.80	92.0	800 (5.5)	32,000	8
	SW-4040-82HRLE	82 (7.6)	1,600 (6.1)	99.60	99.70	/			
HRFR	SW-8040-400HRFR/34	400 (37.2)	7,400 (28)	99.65	99.80	92.0			
	SW-8040-400XHR	400 (37.2)	6,100 (23)	99.70	99.82	92.0			
XHR	SW-8040-440XHR	440 (41)	6,600 (25)	99.70	99.82	92.0			0
	SW-4040-82XHR	82 (7.6)	1,180 (4.5)	99.60	99.75	/			

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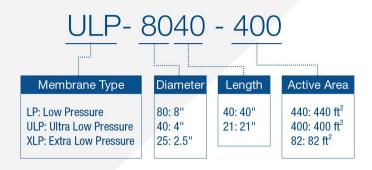




Industrial Brackish Water RO Membrane Performance Specification

		Author Aug	Fl	Min.	Otablicad		Test Conditions	
Туре	Membrane Model	Active Area ft ² (m ²)	Flux gpd (m³/d)	Rejection Rate (%)	Stablized Rejection Rate (%)	Pressure psi (MPa)	Solution NaCl (ppm)	Recovery (%)
	BW-8040-400HR	400 (37.2)	11,350 (43)	99.4	99.7			
HR	BW-8040-440HR	440 (41)	12,560 (48)	99.4	99.7			
	BW-4040-82HR	82 (7.6)	2,250 (8.6)	99.3	99.5			
FR	BW-8040-400FR/34	400 (37.2)	11,100 (42)	99.35	99.5	225 (1.55)	2,000	
FN	BW-4040-82FR/34	82 (7.6)	2,000 (7.6)	99.3	99.5			
XFR	BW-8040-400XFR/34	400 (37.2)	11,350 (43)	99.4	99.6			
AFN	BW-4040-82XFR/34	82 (7.6)	2,050 (7.8)	99.4	99.6			
	BW-8040-400XLE	400 (37.2)	12,550 (47.5)	98.0	99.0			15
XLE	BW-8040-440XLE	440 (41)	14,000 (53)	98.0	99.0	125 (0.86) 500		
	BW-4040-82XLE	82 (7.6)	2,400 (9.1)	98.0	99.0			
EDI E	BW-8040-400FRLE/34	400 (37.2)	10,500 (40)	99.1	99.3			
FRLE	BW-4040-82FRLE/34	82 (7.6)	1,900 (7.2)	99.0	99.3			
	BW-8040-400HRLE	400 (37.2)	11,350 (43)	99.1	99.3	150 (1.03)	1500	
HRLE	BW-8040-440HRLE	440 (41)	12,560 (48)	99.1	99.3			
	BW-4040-82HRLE	82 (7.6)	2,250 (8.5)	99.0	99.3			





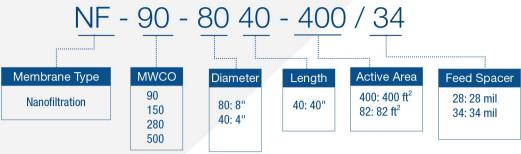
Brackish Water Membrane Performance Specification

		Active Area	Flux	Dolootion Dolootion		Test Conditions		
Туре	Membrane Model	ft ² (m ²)	gpd (m³/d)		100 march 100 ma	Pressure psi (MPa)	Solution NaCl (ppm)	Recovery (%)
LD	LP-4040-82	82 (7.6)	2,250 (8.6)	99.3	99.6	005 (4.55)	0.000	4.5
LP	LP-8040-400	400 (37.2)	11,100 (42)	99.3	99.6	225 (1.55)	2,000	15
	ULP-4040-82	82 (7.6)	2,250 (8.6)	99.0	99.5			15
ULP	ULP-8040-400	400 (37.2)	11,350 (43)	99.0	99.5	150 (1.03)	1,500	
	ULP-8040-440	440 (41)	12,650 (48)	99.0	99.5			
	XLP-4040-82	82 (7.6)	2,220 (8.4)	98.0	99.0			
XLP	XLP-8040-400	400 (37.2)	11,900 (45)	98.0	99.0	100 (0.69)	500	15
	XLP-8040-440	440 (41)	13,200 (50)	98.0	99.0			

Commercial Membrane Performance Specification

		2		Min.	Stablized		Test Conditions	
Туре	Membrane Model	Active Area ft ² (m ²)	Flux gpd (m³/d)	Rejection Rate (%)	Rejection Rate (%)	Pressure psi (MPa)	Solution NaCl (ppm)	Recovery (%)
	SM SW-2540-28HR	28 (2.6)	580 (2.2)	99.55	99.7		Test Conditions Solution NaCl (ppm) 32,000	8
	SM SW-4021-33HR	33 (3.1)	660 (2.5)	99.55	99.65			5
Commercial	SM SW-2521-12HR	12 (1.1)	240 (0.9)	99.5	99.6	000 (5.5)	20.000	Recovery (%)
Seawater Desalination	SM SW-2540-28HRLE	28 (2.6)	680 (2.6)	99.5	99.65	800 (5.5)	32,000	8
	SM SW-4021-33HRLE 33 (3.1) 790 (3) 99.5 99.5	99.6			5			
	SM SW-2521-12HRLE	12 (1.1)	290 (1.1)	99.4	99.55			5





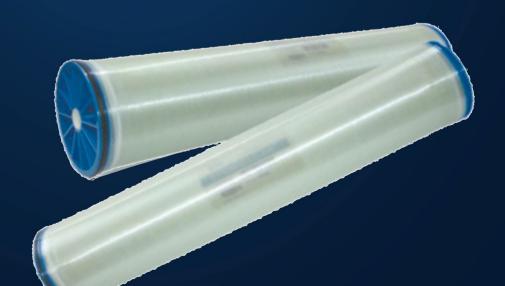
Nano Filtration Membrane Performance Specifications

		Active Area	Flux	Stablized		Test Conditions	
Туре	Membrane Model	ft ² (m ²)	gpd (m³/d)	Rejection Rate (%)	Pressure psi (MPa)	Solution NaCl (ppm)	Recovery (%)
	NF-90-8040-400	400 (37.2)	8,200 (31)	> 98.5			
90 Series	NF-90-4040-82	82 (7.6)	1,580 (6)	> 98.5			
150 Series	NF-150-8040-400/34	400 (37.2)	8,950 (34)	> 98			
100 001100	NF-150-4040-82	82 (7.6)	1,850 (7)	> 98	70 (0.48)	2,000 ppm MgSO₄	15
200 Carias	NF-280-8040-400	400 (37.2)	12,410 (47)	> 97			
280 Series	NF-280-4040-82	82 (7.6)	2,430 (9.2)	> 97			
E00 Carias	NF-500-8040-400	400 (37.2)	13,200 (50.0)	> 90			
500 Series	NF-500-4040-82	82 (7.6)	2,900 (11)	> 90			

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HR- High Rejection SWRO Membranes

SW-HR series are membrane elements with high rejection rate developed for seawater desalination, which can ensure long-term stable high rejection rate while reaching the standard flux.

Product Highlights

- High boron removal rate and high rejection rate
- Increased sheet thickness and cross-linking degree to ensure the service life and chemical resistance of membranes
- Adopt the short membrane sheet length design to increase the utilization rate of effective area and reduce the fouling rate ofmembranes



Product Dimensions

	A inch (mm)	B inch (mm)	C inch (mm)	D inch (mm)	
SW-8040-400HR	40 (1,016)	/	1.125 (29)	7.9 (201) 3.9 (99)	
SW-4040-82HR	37.9 (963)	1.05 (26.7)	0.75 (19)		

Product Specifications

	Effective Area ft ² (m ²)	Minimum Rejection Rate %	Stablized Rejection Rate %	Stabilized Boron Rejection Rate %	Flux gpd (m³/d)
SW-8040-400HR	400 (37.2)	99.65	99.80	92.0	6,500 (24.5)
SW-4040-82HR	82 (7.6)	99.60	99.75	/	1,320 (5)

Flux and rejection rate is based on the following standard test conditions: 5.5 MPa (800 psi) pressure, 77°F (25°C), 32000 ppm NaCl solution and pH 8 for feedwater, and 8% recovery.

Operating and Cleaning Limits

• Maximum Operating Pressure: 83 bar (1200 psi)

• Maximum Operating Temperature: 45°C (113°F)

• Maximum Element Pressure Drop: 1.0 bar (15 psi)

• pH Range Continuous Operation: 2-11

• pH Range Short-Term Cleaning: 1-13

• Maximum Feed SDI (SDI₁₅): 5.0

• Free Chlorine Tolerance: < 0.1 ppm

- \bullet Permeate flow for individual elements may vary ± 15 percent from the value specifed.
- Active membrane area guaranteed ±4%.
- Stabilized salt rejection is generally achieved within 24-48 hours of continuous use; depending uponfeedwater characteristics and operating conditions.



XHR- Extra High Rejection SWRO Membranes

SW-XHR series are based on the production process of SM SW-HR series, which increases the density of the sheet and further upgrades the rejection rate. The membrane elements have extra high rejection rate and can maintain high stability in long-term operation.

Product Highlights

- Increased density of the sheet effectively improve the rejection rate of membranes
- High boron removal rate and high rejection rate
- · Non-oxidation post-treatment process ensure the service life and chemical stability of membranes
- Adopt short membrane sheet length design to increase the utilization rate of the effective area, make the flux distribution on the membrane surface more uniform, and reduce the fouling rate of membranes



Product Dimensions

	A inch (mm)	B inch (mm)	C inch (mm)	D inch (mm)
SW-8040-400XHR	40 (1,016)	/	1.125 (29)	7.9 (201)
SW-8040-440XHR	40 (1,016)	/	1.125 (29)	7.9 (201)
SW-4040-82XHR	37.9 (963)	1.05 (26.7)	0.75 (19)	3.9 (99)

Product Specifications

	Effective Area ft ² (m ²)	Minimum Rejection Rate %	Stablized Rejection Rate %	Stabilized Boron Rejection Rate %	Flux gpd (m³/d)
SW-8040-400XHR	400 (37.2)	99.70	99.82	92.0	6,100 (23)
SW-8040-440XHR	440 (41)	99.70	99.82	92.0	6,600 (25)
SW-4040-82XHR	82 (7.6)	99.6	99.75	/	1,180 (4.5)

Flux and rejection rate is based on the following standard test conditions: 5.5 MPa (800 psi) pressure, 77°F (25°C), 32000 ppm NaCl solution and pH 8 for feedwater, and 8% recovery.

Operating and Cleaning Limits

• Maximum Operating Pressure: 83 bar (1200 psi)

• Maximum Operating Temperature: 45°C (113°F)

• Maximum Element Pressure Drop: 1.0 bar (15 psi)

• pH Range Continuous Operation: 2-11

- pH Range Short-Term Cleaning: 1-13
- Maximum Feed SDI (SDI₁₅): 5.0
- Free Chlorine Tolerance: < 0.1 ppm

- Permeate flow for individual elements may vary ±15 percent from the value specifed.
- Active membrane area guaranteed ±4%.
- Stabilized salt rejection is generally achieved within 24-48 hours of continuous use; depending uponfeedwater characteristics and operating conditions.



HRLE- High Rjection & low Energy SWRO Membranes

SW-HRLE series are aimed at the problem of high energy consumption of conventional seawater desalination membranes. The membrane performance has been upgraded again to achieve high rejection rate while reducing operating energy consumption and saving costs for users.

Product Highlights

- Help the system to operate at lower energy consumption, or obtain higher flux under the same pressure
- High rejection rate, high flux and high boron removal
- Non-oxidation post-treatment process ensure the service life and chemical stability of membranes
- Adopt short membrane sheet length design to increase the utilization rate of the effective area, make the flux distribution on the membrane surface more uniform, and reduce the fouling rate of membranes



Product Dimensions

	A inch (mm)	B inch (mm)	C inch (mm)	D inch (mm)
SW-8040-400HRLE	40 (1,016)	1	1.125 (29)	7.9 (201)
SW-8040-440HRLE	40 (1,016)	/	1.125 (29)	7.9 (201)
SW-4040-82HRLE	37.9 (963)	1.05 (26.7)	0.75 (19)	3.9 (99)

Product Specifications

		Effective Area ft ² (m ²)	Minimum Rejection Rate %	Stablized Rejection Rate %	Stabilized Boron Rejection Rate %	Flux gpd (m³/d)
	SW-8040-400HRLE	400 (37.2)	99.65	99.80	92.0	7,400 (28)
ı	SW-8040-440HRLE	440 (41)	99.65	99.80	92.0	7,900 (30)
	SW-4040-82HRLE	82 (7.6)	99.60	99.70	/	1,600 (6.1)

Flux and rejection rate is based on the following standard test conditions: 5.5 MPa (800 psi) pressure, 77°F (25°C), 32000 ppm NaCl solution and pH 8 for feedwater, and 8% recovery.

Operating and Cleaning Limits

• Maximum Operating Pressure: 83 bar (1200 psi)

• Maximum Operating Temperature: 45°C (113°F)

• Maximum Element Pressure Drop: 1.0 bar (15 psi)

• pH Range Continuous Operation: 2-11

• pH Range Short-Term Cleaning: 1-13

• Maximum Feed SDI (SDI₁₅): 5.0

• Free Chlorine Tolerance: < 0.1 ppm

- Permeate flow for individual elements may vary ±15 percent from the value specifed.
- Active membrane area guaranteed ±4%.
- Stabilized salt rejection is generally achieved within 24-48 hours of continuous use; depending uponfeedwater characteristics and operating conditions.



XLE- Extra Low Energy SWRO Membranes

SW-XLE series are low-energy and high-flux membrane elements developed to reduce the energy consumption of the system. It can effectively reduce the energy consumption of the pump, or achieve higher flux than other SWRO models under the same operating pressure, which is suitable for users who pursue higher flux.

Product Highlights

- High rejection rate and high flux
- Lower energy consumption
- Improve water production economy



Product Dimensions

	A inch (mm)	B inch (mm)	C inch (mm)	D inch (mm)
SW-8040-400XLE/34	40 (1,016)	/	1.125 (29)	7.9 (201)
SW-8040-440XLE	40 (1,016)	/	1.125 (29)	7.9 (201)
SW-4040-82XLE	37.9 (963)	1.05 (26.7)	0.75 (19)	3.9 (99)

Product Specifications

	Effective Area ft ² (m ²)	Minimum Rejection Rate %	Stablized Rejection Rate %	Stabilized boron rejection rate %	Flux gpd (m³/d)
SW-8040-400XLE/34	400 (37.2)	99.60	99.80	92.0	9,000 (34)
SW-8040-440XLE	440 (41)	99.60	99.80	92.0	9,750 (37)
SW-4040-82XLE	82 (7.6)	99.60	99.65	/	1,660 (6.3)

Flux and rejection rate is based on the following standard test conditions: 5.5 MPa (800 psi) pressure, 77°F (25°C), 32000 ppm NaCl solution and pH 8 for feedwater, and 8% recovery.

Operating and Cleaning Limits

• Maximum Operating Pressure: 83 bar (1200 psi)

Maximum Operating Temperature: 45°C (113°F)

• Maximum Element Pressure Drop: 1.0 bar (15 psi)

• pH Range Continuous Operation: 2-11

• pH Range Short-Term Cleaning: 1-13

• Maximum Feed SDI (SDI₁₅): 5.0

• Free Chlorine Tolerance: < 0.1 ppm

- Permeate flow for individual elements may vary ±15 percent from the value specifed.
- Active membrane area guaranteed ±4%.
- Stabilized salt rejection is generally achieved within 24-48 hours of continuous use; depending uponfeedwater characteristics and operating conditions.



XLE- Extra Low Energy SWRO Membranes

SW-XLE series are low-energy and high-flux membrane elements developed to reduce the energy consumption of the system. It can effectively reduce the energy consumption of the pump, or achieve higher flux than other SWRO models under the same operating pressure, which is suitable for users who pursue higher flux.

Product Highlights

- High rejection rate and high flux
- Lower energy consumption
- Improve water production economy



Product Dimensions

	A inch (mm)	B inch (mm)	C inch (mm)	D inch (mm)
SW-8040-400XLE	40 (1,016)	/	1.125 (29)	7.9 (201)
SW-8040-440XLE	40 (1,016)	/	1.125 (29)	7.9 (201)
SW-4040-82XLE	37.9 (963)	1.05 (26.7)	0.75 (19)	3.9 (99)

Product Specifications

	Effective Area ft ² (m ²)	Minimum Rejection Rate %	Stablized Rejection Rate %	Stabilized boron rejection rate %	Flux gpd (m³/d)
SW-8040-400XLE	400 (37.2)	99.60	99.80	92.0	9,000 (34)
SW-8040-440XLE	440 (41)	99.60	99.80	92.0	9,750 (37)
SW-4040-82XLE	82 (7.6)	99.60	99.65	/	1,660 (6.3)

Flux and rejection rate is based on the following standard test conditions: 5.5 MPa (800 psi) pressure, 77°F (25°C), 32000 ppm NaCl solution and pH 8 for feedwater, and 8% recovery.

Operating and Cleaning Limits

• Maximum Operating Pressure: 83 bar (1200 psi)

Maximum Operating Temperature: 45°C (113°F)

• Maximum Element Pressure Drop: 1.0 bar (15 psi)

• pH Range Continuous Operation: 2-11

• pH Range Short-Term Cleaning: 1-13

• Maximum Feed SDI (SDI₁₅): 5.0

• Free Chlorine Tolerance: < 0.1 ppm

- Permeate flow for individual elements may vary ±15 percent from the value specifed.
- Active membrane area guaranteed ±4%.
- Stabilized salt rejection is generally achieved within 24-48 hours of continuous use; depending uponfeedwater characteristics and operating conditions.



2. BW SERIES- INDUSTRIAL BRACKISH WATER RO MEMBRANES HR- HIGH REJECTION BWRO MEMBRANES

BW RO membrane elements are mainly used for brackish water desalination. They provide excellent, stable and consistent membrane performance for industrial water treatment systems. The element operates under low pressure providing a more cost effective alternative for industrial-grade water treatment applications. It has high rejection rate for dissolved salts that are difficult to remove, such as TOC, SiO₂, etc., and therefore, applicable to near zero discharge for oil and petrochemical industry waste water treatment and feed water for thermal power plant boilers.

Product Highlights

- Stable performance and high rejection rate for organics
- · Low operating pressures, high flux and cost saving
- Meet the demand for near zero discharge-



Product Dimensions

		A inch (mm)	B inch (mm)	C inch (mm)	D inch (mm)
BW-8040-40	0HR	40 (1,016)	/	1.125 (29)	7.9 (201)
BW-8040-440	0HR	40 (1,016)	1	1.125 (29)	7.9 (201)
BW-4040-82I	HR	37.9 (963)	1.05 (26.7)	0.75 (19)	3.9 (99)

Product Specifications

	Effective Membrane Area, ft² (m²)	Minimum Rejection Rate %	Stabilized Rejection Rate %	Flux gpd (m³/d)
BW-8040-400HR	400 (37.2)	99.4	99.7	11,350 (43)
BW-8040-440HR	440 (41)	99.4	99.7	12,560 (48)
BW-4040-82HR	82 (7.6)	99.3	99.5	2,250 (8.6)

Flux and rejection rate is based on the following standard test conditions: 1.55 MPa (225 psi) pressure, 77°F (25°C), 2000 ppm NaCl solution and pH 8 for feedwater, and 15% recovery.

Operating and Cleaning Limits

• Maximum Operating Pressure: 41 bar (600 psi)

Maximum Operating Temperature: 45°C (113°F)

• Maximum Element Pressure Drop: 1.0 bar (15 psi)

• pH Range Continuous Operation: 2-11

• pH Range Short-Term Cleaning: 1-13

• Maximum Feed SDI (SDI₁₅): 5.0

• Free Chlorine Tolerance: < 0.1 ppm

- Permeate flow for individual elements may vary ±15 percent from the value specifed.
- Active membrane area guaranteed ±4%.
- Stabilized salt rejection is generally achieved within 24-48 hours of continuous use; depending uponfeedwater characteristics and operating conditions.



2. BW SERIES- INDUSTRIAL BRACKISH WATER RO MEMBRANES FR- FOULING RESISTANCE BWRO MEMBRANES

FR series RO membrane elements are highly resistant to organic and microbial contamination, and are used to treat water sources such as paper plants waste water, dyeing waste water and industrial waste water from thermal power plants. The proprietary technology alters the electric-static charges and smoothness of the membrane surface, and enhances the hydrophilicity of the membrane surface. These alternatives greatly reduce the pollutants and microorganisms attached to the surface layer, therefore it reduces the fouling rate and extends service life. It is capable to tackle with poor feed water quality.

Product Highlights

- Excellent anti-pollution properties with the special process treated on the membrane surface
- Suitable for water treatment systems with poor inlet water quality
- Effectively reduces the frequency of membrane cleaning, thereby prolonging the service life



Product Dimensions

	A inch (mm)	B inch (mm)	C inch (mm)	D inch (mm)
BW-8040-400FR/34	40 (1,016)	/	1.125 (29)	7.9 (201)
BW-4040-82FR/34	37.9 (963)	1.05 (26.7)	0.75 (19)	3.9 (99)

Product Specifications

	Effective Membrane Area, ft² (m²)	Minimum Rejection Rate %	Stabilized Rejection Rate %	Flux gpd (m³/d)
BW-8040-400FR/34	400 (37.2)	99.35	99.5	11,100 (42)
BW-4040-82FR/34	82 (7.6)	99.3	99.5	2,000 (7.6)

Flux and rejection rate is based on the following standard test conditions: 1.55 MPa (225 psi) pressure, 77°F (25°C), 2000 ppm NaCl solution and pH 8 for feedwater, and 15% recovery.

Operating and Cleaning Limits

• Maximum Operating Pressure: 41 bar (600 psi)

Maximum Operating Temperature: 45°C (113°F)

• Maximum Element Pressure Drop: 1.0 bar (15 psi)

• pH Range Continuous Operation: 2-11

• pH Range Short-Term Cleaning: 1-13

• Maximum Feed SDI (SDI₁₅): 5.0

• Free Chlorine Tolerance: < 0.1 ppm

- Permeate flow for individual elements may vary ±15 percent from the value specifed.
- Active membrane area guaranteed ±4%.
- Stabilized salt rejection is generally achieved within 24-48 hours of continuous use; depending uponfeedwater characteristics and operating conditions.



2. BW SERIES- INDUSTRIAL BRACKISH WATER RO MEMBRANES XFR- EXTRA FOULING RESISTANCE BWRO MEMBRANES

XFR series RO membranes are manufactured by the optimized formula, reaction conditions and posttreatment.

The membrane thin film layer is denser, more hydrophilic, and the membrane surface is smoother. The membrane element is optimized in structure and manufactured with premium material. The membrane can effectively purify feed water with biological and organic pollution. XFR series adopts the latest membrane technology enabling industry's first-class organism fouling resistance and cleanability. It provides membrane elements with excellent fouling resistance and super durability for the difficult waste water treatment.

Product Highlights

- Better anti-fouling performance with smooth membrane surface
- Good recovery performance after chemical cleaning
- Stable flux and high rejection rate



Product Dimensions

	A inch (mm)	B inch (mm)	C inch (mm)	D inch (mm)
BW-8040-400XFR/34	40 (1,016)	1	1.125 (29)	7.9 (201)
BW-4040-82XFR/34	37.9 (963)	1.05(26.7)	0.75 (19)	3.9 (99)

Product Specifications

	Effective Membrane Area, ft² (m²)	Minimum Rejection Rate %	Stabilized Rejection Rate %	Flux gpd (m³/d)
BW-8040-400XFR/34	400 (37.2)	99.4	99.6	11,350 (43)
BW-4040-82XFR/34	82 (7.6)	99.4	99.6	2,050 (7.8)

Flux and rejection rate is based on the following standard test conditions: 1.55 MPa (225 psi) pressure, 77°F (25°C), 2000 ppm NaCl solution and pH 8 for feedwater, and 15% recovery.

Operating and Cleaning Limits

• Maximum Operating Pressure: 41 bar (600 psi)

• Maximum Operating Temperature: 45°C (113°F)

• Maximum Element Pressure Drop: 1.0 bar (15 psi)

• pH Range Continuous Operation: 2-11

• pH Range Short-Term Cleaning: 1-13

• Maximum Feed SDI (SDI₁₅): 5.0

• Free Chlorine Tolerance: < 0.1 ppm

- Permeate flow for individual elements may vary ±15 percent from the value specifed.
- Active membrane area guaranteed ±4%.
- Stabilized salt rejection is generally achieved within 24-48 hours of continuous use; depending uponfeedwater characteristics and operating conditions.



2. BW SERIES- INDUSTRIAL BRACKISH WATER RO MEMBRANES HRLE -HIGH REJECTION & FOULING RESISTANCE BWRO MEMBRANES

HRLE series RO membranes change the surface characteristics through increasing the density of the sheet compared with traditional brackish water membrane elements. The membrane elements have stable rejection rate and the operating pressure is reduced by 33%. The application of this model enables the entire reverse osmosis system to provide the same permeate quality while reducing energy consumption by 1/3, thus improve the system's operating economy. In addition, the number of membrane elements used in the system is reduced to save the construction cost of system.

Product Highlights

- High flux and high rejection rate
- Reduce operating energy consumption while ensuring the permeate quality
- Suitable for wider PH range to achieve good cleaning and recovery performance



Product Dimensions

	A inch (mm)	B inch (mm)	C inch (mm)	D inch (mm)
BW-8040-400HRLE	40 (1,016)	/	1.125 (29)	7.9 (201)
BW-8040-440HRLE	40 (1,016)	/	1.125 (29)	7.9 (201)
BW-4040-82HRLE	37.9 (963)	1.05 (26.7)	0.75 (19)	3.9 (99)

Product Specifications

	Effective Membrane Area, ft² (m²)	Minimum Rejection Rate %	Stabilized Rejection Rate %	Flux gpd (m³/d)
BW-8040-400HRLE	400 (37.2)	99.1	99.3	11,350 (43)
BW-8040-440HRLE	440 (41)	99.1	99.3	12,560 (48)
BW-4040-82HRLE	82 (7.6)	99.0	99.3	2,250 (8.5)

Test conditions: 1,500 ppm NaCl, 1.03 MPa (150 psi), 25 °C (77 °F), pH=8, recovery 15%

Operating and Cleaning Limits

• Maximum Operating Pressure: 41 bar (600 psi)

Maximum Operating Temperature: 45°C (113°F)

• Maximum Element Pressure Drop: 1.0 bar (15 psi)

• pH Range Continuous Operation: 2-11

• pH Range Short-Term Cleaning: 1-13

• Maximum Feed SDI (SDI₁₅): 5.0

• Free Chlorine Tolerance: < 0.1 ppm

- \bullet Permeate flow for individual elements may vary ± 15 percent from the value specifed.
- Active membrane area guaranteed ±4%.
- Stabilized salt rejection is generally achie ed within 24-48 hours of continuous use; depending uponfeedwater characteristics and operating conditions.



2. BW SERIES- INDUSTRIAL BRACKISH WATER RO MEMBRANES FRLE- FOULING RESISTANCE & LOW ENERGY BWRO MEMBRANES

FRLE series RO membranes have the characteristic of fouling resistance and low energy. This membrane element is developed for treating water quality with high tendency of biological pollution or organic pollution. Its operating pressure is 30% lower than that of ordinary brackish water reverse osmosis membrane elements, energy consumption is reduced by about 1/3.

Product Highlights

- Reduce the operating energy consumption of system to improve the economic benefits
- Good anti-pollution performance, suitable for high-pollution inlet water quality



Product Dimensions

	A inch (mm)	B inch (mm)	C inch (mm)	D inch (mm)
BW-8040-400FRLE/34	40 (1,016)	/	1.125 (29)	7.9 (201)
BW-4040-82FRLE/34	37.9 (963)	1.05 (26.7)	0.75 (19)	3.9 (99)

Product Specifications

	Effective Membrane Area, ft² (m²)	Minimum Rejection Rate %	Stabilized Rejection Rate %	Flux gpd (m³/d)
BW-8040-400FRLE/34	400 (37.2)	99.1	99.3	10,500 (40)
BW-4040-82FRLE/34	82 (7.6)	99.0	99.3	1,900 (7.2)

Test conditions: 1,500 ppm NaCl, 1.03 MPa (150 psi), 25 °C (77 °F), pH=8, recovery 15%

Operating and Cleaning Limits

• Maximum Operating Pressure: 41 bar (600 psi)

Maximum Operating Temperature: 45°C (113°F)

• Maximum Element Pressure Drop: 1.0 bar (15 psi)

• pH Range Continuous Operation: 2-11

• pH Range Short-Term Cleaning: 1-13

• Maximum Feed SDI (SDI₁₅): 5.0

• Free Chlorine Tolerance: < 0.1 ppm

- Permeate flow for individual elements may vary ±15 percent from the value specifed.
- Active membrane area guaranteed ±4%.
- Stabilized salt rejection is generally achieved within 24-48 hours of continuous use; depending uponfeedwater characteristics and operating conditions.



2. BW SERIES- INDUSTRIAL BRACKISH WATER RO MEMBRANES XLE- EXTRA LOW ENERGY BWRO MEMBRANES

By changing membrane surface and chemical properties, and upgrading the formulation and production conditions for both the supporting layer and thin film composite layer, XLE Series RO membrane offer enlarged specific surface area and hydrophilicity to maximize permeate flux rate. It is applicable for municipal waste water treatment, and it is one of the membrane elements with the highest water flux and lowest operating pressure. The total cost of the system with this element is the low, therefore it can significantly improve overall operating economy of the membrane system. As the latest RO membrane element with extra-low energy consumption and high performance, its operating pressure is about 1/2 less than regular BW RO membrane elements, and the rejection rate can reach 99%.

Product Highlights

- High flux rate and low operating pressure
- Lower power consumption of membrane systems without compromising high rejection rate



Product Dimensions

	A inch (mm)	B inch (mm)	C inch (mm)	D inch (mm)
BW-8040-400XLE	40 (1,016)	/	1.125 (29)	7.9 (201)
BW-8040-440XLE	40 (1,016)	/	1.125 (29)	7.9 (201)
BW-4040-82XLE	37.9 (963)	1.05 (26.7)	0.75 (19)	3.9 (99)

Product Specifications

	Effective Membrane Area, ft² (m²)	Minimum Rejection Rate %	Stabilized Rejection Rate %	Flux gpd (m³/d)
BW-8040-400XLE	400 (37.2)	98.0	99.0	12,550 (47.5)
BW-8040-440XLE	440 (41)	98.0	99.0	14,000 (53)
BW-4040-82XLE	82 (7.6)	98.0	99.0	2,400 (9.1)

Test conditions: 500 ppm NaCl, 0.86 MPa (125 psi), 25 °C (77 °F), pH=8, recovery 15%

Operating and Cleaning Limits

• Maximum Operating Pressure: 41 bar (600 psi)

Maximum Operating Temperature: 45°C (113°F)

• Maximum Element Pressure Drop: 1.0 bar (15 psi)

• pH Range Continuous Operation: 2-11

• pH Range Short-Term Cleaning: 1-13

• Maximum Feed SDI (SDI₁₅): 5.0

• Free Chlorine Tolerance: < 0.1 ppm

- Permeate flow for individual elements may vary ±15 percent from the value specifed.
- Active membrane area guaranteed ±4%.
- Stabilized salt rejection is generally achieved within 24-48 hours of continuous use; depending uponfeedwater characteristics and operating conditions.



3. ORDINARY BRACKISH WATER LP/ULP/XLP SERIES RO MEMBRANES ORDINARY BRACKISH WATER LP SERIES RO MEMBRANES

LP low-pressure brackish water reverse osmosis membrane element is mainly used for brackish water desalination. It has the characteristics of low operating pressure, high flux, high rejection rate, and stable performance. It is suitable for surface water and groundwater with low salinity. It can be used in Purification of drinking water, preparation of pure water in electronics, electric power and other fields. Thereby reducing the investment cost of relevant pumps, pipelines, containers and other equipment and the operating cost of the RO system, and improving economic benefits.

Product Highlights

- Low operating energy consumption, high rejection rate while ensuring high flux
- Non-oxidation treatment process ensure the stability and service life of the membrane
- Suitable for the water quality and temperature environment in most areas



Product Dimensions

	A inch (mm)	B inch (mm)	C inch (mm)	D inch (mm)
LP-4040-82	37.9 (963)	1.05 (26.7)	0.75 (19)	3.9 (99)
LP-8040-400	40 (1,016)	/	1.125 (29)	7.9 (201)

Product Specifications

	Effective Membrane Area, ft² (m²)	Stabilized Rejection Rate %	Minimum Rejection Rate %	Flux gpd (m³/d)
LP-4040-82	82 (7.6)	99.6	99.3	2,250 (8.6)
LP-8040-400	400 (37.2)	99.6	99.3	11,100 (42)

Flux and rejection rate is based on the following standard test conditions: 1.55 MPa (225 psi) pressure, 77°F (25°C), 2000 ppm NaCl solution and pH 8 for feedwater, and 15% recovery.

Operating and Cleaning Limits

• Maximum Operating Pressure: 41 bar (600 psi)

Maximum Operating Temperature: 45°C (113°F)

• Maximum Element Pressure Drop: 1.0 bar (15 psi)

• pH Range Continuous Operation: 2-11

• pH Range Short-Term Cleaning: 1-13

• Maximum Feed SDI (SDI₁₅): 5.0

• Free Chlorine Tolerance: < 0.1 ppm

- Permeate flow for individual elements may vary ±15 percent from the value specifed.
- Active membrane area guaranteed ±4%.
- Stabilized salt rejection is generally act leved within 24-48 hours of continuous use; depending uponfeedwater characteristics and operating conditions.



3.ORDINARY BRACKISH WATER LP/ULP/XLP SERIES RO MEMBRANES ORDINARY BRACKISH WATER ULP SERIES RO MEMBRANES

ULP series RO membranes are suitable for desalination treatment of water sources such as surface water, ground water, tap water and municipal water with a salt content below about 2000ppm. They are mainly used invarious scales of pure water, boiler feed water, food processing and pharmaceutical manufacturing industries, etc. In this field, it can achieve the same high flux and high rejection rate as conventional low-pressure membranes under ultra-low operating pressure conditions. Its operating pressure is about 2/3 of that conventional low-pressure composite membranes, and the rejection rate can reach 99.5%, thereby reducing the investment costs of related pumps, pipelines, containers and other equipment and the operating costs of reverse osmosis systems, and improving economic benefits.

Product Highlights

- High flux and high rejection rate
- Low operating cost, good economic benefits



Product Dimensions

	A inch (mm)	B inch (mm)	C inch (mm)	D inch (mm)
ULP-4040-82	37.9(963)	1.05 (26.7)	0.75(19)	3.9(99)
ULP-8040-400	40 (1,016)	/	1.125 (29)	7.9(201)
ULP-8040-440	40 (1,016)	/	1.125 (29)	7.9(201)

Product Specifications

	Effective Membrane Area, ft² (m²)	Stabilized Rejection Rate %	Minimum Rejection Rate %	Flux gpd (m³/d)
ULP-4040-82	82 (7.6)	99.5	99.0	2,250 (8.6)
ULP-8040-400	400 (37.2)	99.5	99.0	11,350 (43)
ULP-8040-440	440 (41)	99.5	99.0	12,650 (48)

Flux and rejection rate is based on the following standard test conditions: 1.03 MPa (150 psi) pressure, 77°F (25°C), 1500 ppm NaCl solution and pH 8 for feedwater, and 15% recovery.

Operating and Cleaning Limits

• Maximum Operating Pressure: 41 bar (600 psi)

Maximum Operating Temperature: 45°C (113°F)

• Maximum Element Pressure Drop: 1.0 bar (15 psi)

• pH Range Continuous Operation: 2-11

• pH Range Short-Term Cleaning: 1-13

• Maximum Feed SDI (SDI₁₅): 5.0

• Free Chlorine Tolerance: < 0.1 ppm

- \bullet Permeate flow for individual elements may vary ± 15 percent from the value specifed.
- Active membrane area guaranteed ±4%.
- Stabilized salt rejection is generally actived within 24-48 hours of continuous use; depending uponfeedwater characteristics and operating conditions.



3.ORDINARY BRACKISH WATER LP/ULP/XLP SERIES RO MEMBRANES ORDINARY BRACKISH WATER XLP SERIES RO MEMBRANES

XLP series RO membranes are suitable for the treatment of low-salinity water sources that do not require high desalination rate, such as surface water, groundwater, tap water and municipal water with a salt content less than 1000ppm, especially suitable for the second segment desalination of two-segment RO system, which can achieve the same high flux and high rejection rate as conventional low-pressure membranes under extremely low operating pressure conditions. Its operating pressure is about 1/2 of that conventional low-pressure composite membranes, and the rejection rate can reach 99.0%. Thereby reducing the investment cost of relevant pumps, pipelines, containers and other equipment and the operating cost of the reverse osmosis system, and improving economic benefits. It is mainly used in various fields such as pure water, boiler feed water, food processing and pharmaceutical manufacturing industries of various scales.

Product Highlights

- High flux and high rejection rate
- Low operating cost, good economic benefits



Product Dimensions

	A inch (mm)	B inch (mm)	C inch (mm)	D inch (mm)
XLP-4040-82	37.9(963)	1.05 (26.7)	0.75(19)	3.9(99)
XLP-8040-400	40 (1,016)	/	1.125 (29)	7.9(201)
XLP-8040-440	40 (1,016)	/	1.125 (29)	7.9(201)

Product Specifications

	Effective Membrane Area, ft² (m²)	Stabilized Rejection Rate %	Minimum Rejection Rate %	Flux gpd (m³/d)
XLP-4040-82	82 (7.6)	99.0	98.0	2,220 (8.4)
XLP-8040-400	400 (37.2)	99.0	98.0	11,900 (45)
XLP-8040-440	440 (41)	99.0	98.0	13,200 (50)

Flux and rejection rate is based on the following standard test conditions: 0.69 MPa (100 psi) pressure, 77°F (25°C), 500 ppm NaCl solution and pH 8 for feedwater, and 15% recovery.

Operating and Cleaning Limits

• Maximum Operating Pressure: 41 bar (600 psi)

Maximum Operating Temperature: 45°C (113°F)

• Maximum Element Pressure Drop: 1.0 bar (15 psi)

• pH Range Continuous Operation: 2-11

• pH Range Short-Term Cleaning: 1-13

• Maximum Feed SDI (SDI₁₅): 5.0

• Free Chlorine Tolerance: < 0.1 ppm

- Permeate flow for individual elements may vary ±15 percent from the value specifed.
- Active membrane area guaranteed ±4%.
- Stabilized salt rejection is generally achieved within 24-48 hours of continuous use; depending uponfeedwater characteristics and operating conditions.



4. COMMERCIAL SEAWATER DESALINATION RO MEMBRANE

Commercial seawater desalination RO membranes can ensure large flux while taking into account excellent rejection rate, which can meet the needs of seawater desalination installed on sea and land. At the same time, the operating pressure is lower, which can reduce the cost of high-pressure pumps and reduce operating costs. The advanced automatic precision manufacturing technology is adopted to make the performance of the membrane element reliable and stable.

Product Highlights

- High flux and reliable stability
- · Low operating pressure



Product Dimensions

	Inch A inch (mm)	Inch B inch (mm)	Inch C inch (mm)	Inch D inch (mm)
SW-2540-28HR	40 (1,016)	1.19 (30.2)	0.75 (19)	2.4 (61)
SW-4021-33HR	21 (533)	1.05 (26.7)	0.75 (19)	3.9 (99)
SW-2521-12HR	21 (533)	1.19 (30.2)	0.75 (19)	2.4 (61)
SW-2540-28HRLE	40 (1,016)	1.19 (30.2)	0.75 (19)	2.4 (61)
SW-4021-33HRLE	21 (533)	1.05 (26.7)	0.75 (19)	3.9 (99)
SW-2521-12HRLE	21 (533)	1.19 (30.2)	0.75 (19)	2.4 (61)

Product Specifications

	Effective Membrane Area, ft² (m²)	Stabilized Rejection Rate %	Minimum Rejection Rate %	Flux gpd (m³/d)
SW-2540-28HR	28 (2.6)	99.7	99.55	580 (2.2)
SW-4021-33HR	33 (3.1)	99.65	99.55	660 (2.5)
SW-2521-12HR	12 (1.1)	99.6	99.5	240 (0.9)
SW-2540-28HRLE	28 (2.6)	99.65	99.5	680 (2.6)
SW-4021-33HRLE	33 (3.1)	99.6	99.5	790 (3)
SW-2521-12HRLE	12 (1.1)	99.55	99.4	290 (1.1)

Flux and rejection rate is based on the following standard test conditions: 5.5 MPa (800 psi) pressure, 77°F (25°C), 32,000 ppm NaCl solution and pH 8 for feedwater, and SW-2521, SW4021 recovery 5%, SW-2540 recovery 8%.

Operating and Cleaning Limits

• Maximum Operating Pressure: 69 bar (1000 psi)

• Maximum Operating Temperature: 45°C (113°F)

• Maximum Element Pressure Drop: 1.0 bar (15 psi)

• pH Range Continuous Operation: 2-11

• pH Range Short-Term Cleaning: 1-13

• Maximum Feed SDI (SDI₁₅): 5.0

• Free Chlorine Tolerance: < 0.1 ppm

- Permeate flow for individual elements may vary ±15 percent from the value specifed.
- Active membrane area guaranteed ±4%.
- Stabilized salt rejection is generally achieved within 24-48 hours of continuous use; depending uponfeedwater characteristics and operating conditions.



5. NF 90 SERIES-NF MEMBRANES

NF90 series NF membranes provide high flux and excellent performance of removing monovalent and divalent salts. It has high removal rate of organic compounds, such as pesticides, herbicides and THM precursor, etc, as well as high removal of natural organic compounds. In the water treatment process, it can not only reduce the hardness of the water, but also effectively remove the toxic and harmful substances in the water, remove turbidity, color and organic matter. In addition, it can also recover valuable multivalent salts and small molecular organics. It requires low net driving pressure, and can effectively remove impurities or recover useful substances under very low operating pressure. The system runs with low energy consumption and cost.

Product Highlights

- Excellent monovalent salt selective passage and polyvalent salt removal performance
- Effective removal of pesticides, herbicides, TOC and THM precursors, etc.
- Separation, concentration and recovery of economically valuable salts, precious metals and small molecular organics
- Salt removal under ultra-low pressure and low energy consumption



Product Dimensions

_	· ·	A inch (mm)	B inch (mm)	C inch (mm)	D inch (mm)
	NF-90-8040-400	40 (1,016)	/	1.125 (29)	7.9 (201)
	NF-90- 4040-82	37.9 (963)	1.05 (26.7)	0.75 (19)	3.9 (99)

Product Specifications

	Effective Membrane Area, ft² (m²)	Stablized Rejection Rate %	Flux gpd (m³/d)
NF-90-8040-400	400 (37.2)	>98.5	8,200 (31)
NF-90-4040-82	82 (7.6)	>98.5	1,580 (6)

Flux and rejection rate is based on the following standard test conditions: 0.48 MPa (70 psi) pressure, 77°F (25°C), 2,000 ppm MgSO₄ solution and pH 8 for feedwater, and 15% recovery.

Operating and Cleaning Limits

• Maximum Operating Pressure: 41 bar (600 psi)

Maximum Operating Temperature: 45°C (113°F)

• Maximum Element Pressure Drop: 1.0 bar (15 psi)

• pH Range Continuous Operation: 3-10

• pH Range Short-Term Cleaning: 1–13

• Maximum Feed SDI (SDI₁₅): 5.0

• Free Chlorine Tolerance: < 0.1 ppm

- \bullet Permeate flow for individual elements may vary ± 15 percent from the value specifed.
- Active membrane area guaranteed ±4%.
- Stabilized salt rejection is generally achieved within 24-48 hours of continuous use; depending uponfeedwater characteristics and operating conditions.



6. NF 150 SERIES-NF MEMBRANES

NF150 series NF membranes are manufactured by a unique formula and technology, which is specially developed for special solute concentration and separation process, with stable and reliable performance and superior fouling resistance. SM NF150 series fill the gap in the cut-off molecular weight range of the existing NF membranes. It is suitable for fine separation, as well as removal of TOC and THM precursor, separation of monovalent salt, decolorization, separation and concentration of small molecule organic matter, etc.

Product Highlights

- Fill the gap in the cut-off molecular weight range of the existing NF membranes
- Suitable for the separation of fine materials, decolorization, the separation of small molecular organic matter, monovalent and multivalent salts
- · Superior chemical stability and fouling resistance



Product Dimensions

	A inch (mm)	B inch (mm)	C inch (mm)	D inch (mm)
NF-150-8040-400/34	40 (1,016)	/	1.125 (29)	7.9 (201)
NF-150-4040-82	37.9 (963)	1.05 (26.7)	0.75 (19)	3.9 (99)

Product Specifications

	Effective Membrane Area, ft² (m²)	Stablized Rejection Rate %	Flux gpd (m ³ /d)
NF-150-8040-400/34	400 (37.2)	>98	8,950 (34)
NF-150-4040-82	82 (7.6)	>98	1,850 (7)

Flux and rejection rate is based on the following standard test conditions: 0.48 MPa (70 psi) pressure, 77°F (25°C), $2,000 \text{ ppm MgSO}_4$ solution and pH 8 for feedwater, and 15% recovery.

Operating and Cleaning Limits

• Maximum Operating Pressure: 41 bar (600 psi)

Maximum Operating Temperature: 45°C (113°F)

• Maximum Element Pressure Drop: 1.0 bar (15 psi)

• pH Range Continuous Operation: 3-10

• pH Range Short-Term Cleaning: 1-12

• Maximum Feed SDI (SDI₁₅): 5.0

• Free Chlorine Tolerance: < 0.1 ppm

- Permeate flow for individual elements may vary ±15 percent from the value specifed.
- Active membrane area guaranteed ±4%.
- Stabilized salt rejection is generally achieved within 24-48 hours of continuous use; depending uponfeedwater characteristics and operating conditions.



7. NF 280 SERIES-NF MEMBRANES

NF 280 series NF membranes have ultra-high flux and are capable of removing TOC and THM (trihalides) precursor, at the meantime, NF 280 series offer some selectivity in the passing of divalent salts with moderate passing rate and other salts passing with higher passing rate. It is an ideal membrane element for removing organic matter from surface water and groundwater, softening, concentrating, separating or purifying inorganic salts, organic matters, natural drugs and fermentation broth. NF 280 series have high permeate flux rate, providing a wide range of water treatment, concentration and separation applications for industries. Suitable for removal of TOC, THM precursors, salts, low operating energy consumption systems under ultra-low pressure, as well as for material separation, municipal and industrial water treatment.

Product Highlights

- High flux
- High removal of TOC and THM precursors
- Excellent softening and decolorizing properties
- Ultra-low operating pressure and power consumption



Product Dimensions

	A inch (mm)	B inch (mm)	C inch (mm)	D inch (mm)
NF-280-8040-400	40 (1,016)	/	1.125 (29)	7.9 (201)
NF-280-4040-82	37.9 (963)	1.05 (26.7)	0.75 (19)	3.9 (99)

Product Specifications

	Effective Membrane Area, ft² (m²)	Stablized Rejection Rate %	Flux gpd (m³/d)
NF-280-8040-400	400 (37.2)	>97	12,410 (47)
NF-280-4040-82	82 (7.6)	>97	2,430 (9.2)

Flux and rejection rate is based on the following standard test conditions: 0.48 MPa (70 psi) pressure, 77°F (25°C), $2,000 \text{ ppm MgSO}_4$ solution and pH 8 for feedwater, and 15% recovery.

Operating and Cleaning Limits

• Maximum Operating Pressure: 41 bar (600 psi)

Maximum Operating Temperature: 45°C (113°F)

• Maximum Element Pressure Drop: 1.0 bar (15 psi)

• pH Range Continuous Operation: 3-10

• pH Range Short-Term Cleaning: 1-12

• Maximum Feed SDI (SDI₁₅): 5.0

• Free Chlorine Tolerance: < 0.1 ppm

- Permeate flow for individual elements may vary ±15 percent from the value specifed.
- Active membrane area guaranteed ±4%.
- Stabilized salt rejection is generally achieved within 24-48 hours of continuous use; depending uponfeedwater characteristics and operating conditions.



8. NF 500 SERIES-NF MEMBRANES

NF 500 series NF membranes are characterized by extremely high flux and rejection rate, high retainment of divalent salt and excellent passing of monovalent salt. It offers moderate removal rate of organic matters while achieves high flux. It can effectively retain organic compounds with cut-off molecular weight within the range of 300~500D. It offers excellent decolorization as well.

The NF500 series adopt the latest membrane manufacturing technology to minimize dead spots and bypasses during filtration process. It is suitable for waste water reuse, municipal water treatment, etc.

Product Highlights

- High flux
- Suitable for decolorization and COD removal



Product Dimensions

	A inch (mm)	B inch (mm)	C inch (mm)	D inch (mm)
NF-500-8040-400	40 (1,016)	/	1.125 (29)	7.9 (201)
NF-500-4040-82	37.9 (963)	1.05 (26.7)	0.75 (19)	3.9 (99)

Product Specifications

	Effective Membrane Area, ft² (m²)	Stablized Rejection Rate %	Flux gpd (m³/d)
NF-500-8040-400	400 (37.2)	>90	13,200 (50)
NF-500-4040-82	82 (7.6)	>90	2,900 (11)

Flux and rejection rate is based on the following standard test conditions: 0.48 MPa (70 psi) pressure, 77°F (25°C), $2,000 \text{ ppm MgSO}_4$ solution , pH 8 for feedwater, and 15% recovery.

Operating and Cleaning Limits

• Maximum Operating Pressure: 41 bar (600 psi)

Maximum Operating Temperature: 45°C (113°F)

• Maximum Element Pressure Drop: 1.0 bar (15 psi)

• pH Range Continuous Operation: 3-10

• pH Range Short-Term Cleaning: 1–12

• Maximum Feed SDI (SDI₁₅): 5.0

• Free Chlorine Tolerance: < 0.1 ppm

- Permeate flow for individual elements may vary ±15 percent from the value specifed.
- Active membrane area guaranteed ±4%
- Stabilized salt rejection is generally ar d within 24-48 hours of continuous use; depending uponfeedwater characteristics and operating conditions.