Naviblue

Membrane & Water

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RO Membrane Elements

Bluestar Membrane Industries Co., Ltd.

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RO Membrane Elements

BW - 8040 - 400

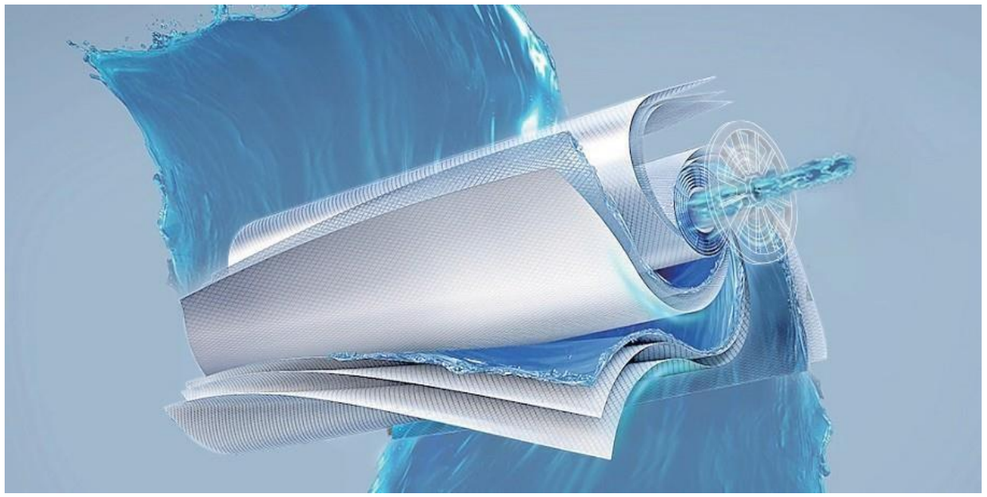
- Active membrane area
- Length of element in inch
- Diameter of element in inch
- Type

NF membrane Elements

N 70 - 8040 / 34i

- Spacer thickness
- Length of element in inch
- Diameter of element in inch
- Type
- NF membrane

Membrane Elements



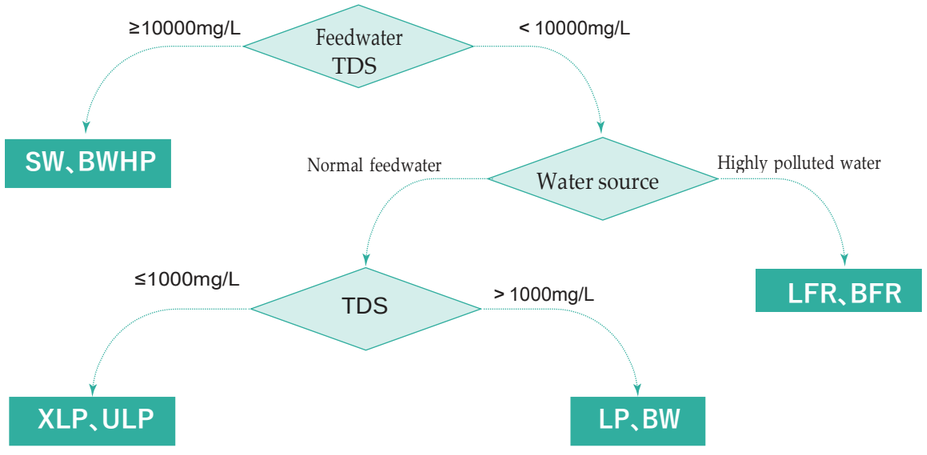
- BHM introduced a full set of automatic dry membrane production line, keep optimizing the facility, to
- guarantee the stability of product performance, and improve the adaptability and convenience during
- shipment and storage.
- Online monitoring in whole production process guarantees the stability and reliability of quality. We
- have an excellent technical team, to provide technical support from pre-sale to after-sale service forever.

Naviblue Series RO/NF Membrane Elements

Major Properties of RO Membrane

Type	Model	Active membrane area ft²/m²	Stable rejection %	Average Permeate GPD/m³/d
Extremely low pressure	XLP-8040-440	440 / 40.8	98.5	9 500 / 36.0
	XLP-8040-400	400 / 37.2	98.5	8 450 / 32.0
	XLP-4040	98 / 9.1	98.5	2 050 / 7.8
Ultra low pressure	ULP-8040-440	440 / 40.8	99.2	11 880 / 45.0
	ULP-8040-400	400 / 37.2	99.2	10 500 / 40.0
	ULP-4040	98 / 9.1	99.2	2 500 / 9.6
Low pressure	LP-8040-440	440 / 40.8	99.5	11 880 / 45.0
	LP-8040-400	400 / 37.2	99.5	10 500 / 40.0
	LP-4040 BW-	95 / 8.8	99.5	2 400 / 9.1
Brackish water	8040-440BW-	440 / 40.8	99.6	11 880 / 45.0
	8040-400	400 / 37.2	99.6	10 500 / 40.0
	BWHP-8040-380	380 / 35.3	99.6	9 500 / 36.0
	BW-4040	95 / 8.8	99.6	2 400 / 9.1
Fouling resistant	LFR-8040-400	400 / 37.2	99.5	10 000 / 38.0
	BFR-8040-400	400 /37.2	99.6	10 000 / 38.0
Sea water desalination	SW-8040-400	400 / 37.2	99.7	7 600 / 28.8
	SW-8040-380	380 / 35.3	99.7	6850 / 26.0
	SW-4040	92 / 8.5	99.7	1 700 / 6.5

Naviblue RO Membrane Elements Selection According to Water Source Quality



Major Properties of NF Membrane Elements

Type	Model	Active area ft²/m²	Stable rejection% MgSO₄	Stable rejection% Nacl	Average Permeate GPD/m³/d
Low desalination	N40-8040/28i	440 / 40.8	96.0	20-55	11 100 / 42.0
	N40-8040/34i	400 / 37.2	96.0	20-55	10 000 / 38.0
	N40-8040/36i	380 / 35.3	96.0	20-55	9 250 / 35.0
	N40-4040	98 / 9.1	96.0	20-55	2 400 / 9.2
Medium desalination	N70-8040/28i	440 / 40.8	98.0	50-85	11 100 / 42.0
	N70-8040/34i	400 / 37.2	98.0	50-85	10 000 / 38.0
	N70-4040	95 / 8.8	98.0	50-85	2 350 / 9.0
H igh desalination	N90-8040/28i	440 / 40.8	99.2	85-95	11 100 / 42.0
	N90-8040/34i	400 / 37.2	99.2	85-95	10 000 / 38.0
	N90-4040	98 / 9.1	99.2	85-95	2 350 / 9.0
Denitration	NTX-8040/28i	440 / 40.8	99.0	50-85	10 000 / 38.0
	NTX-8040/34i	400 / 37.2	99.0	50-85	9 000 / 34.0
	NTX-4040	95 / 8.8	99.0	50-85	2 250 / 8.5
High pressure	N70HP-8040/34i	370 / 34.3	98.0	50-85	9 000 / 34.0
	NTXHP-8040/34i	370 / 34.3	99.0	50-85	7 900 / 30.0

Naviblue NF Membrane Elements Selection According to Application

Type	Application	Model
Low desalination	Municipal water, material seperation,discoloration	N40
Medium desalination	Separation and concentration, meterial separation	N70
High desalination	Municipal water, material separation and concentration	N90
Denitration	Denitration, meterial separation, purification	NTX
High pressure	High TDS water desalination and concentration	N70HP、NTXHP

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BW Series Specifications

Type	Model		BW-8040-440	BW-8040-400	BWH P-8040-380	BW-4040
	Dimension			8 inch		4 inch
	Material			Polyamide		
Performance	Active membrane area	m² ft	40.8	37.2	35.3	8.8
		²	440	400	380	95
	Spacer thickness	mil	28	34	34	34
		mm	0.711	0.864	0.864	0.864
	Rejection%	Stable	99.6			
		Minimum	99.4			
	Permeate flow	m³/d	45.0	40.0	36.0	9.1
		GPD	11880	10500	9500	2400
Testing conditions	Feed water TDS (mg/L)		2000±50			
	Pressure (PSI/Mpa)		**225（1.55）**			
	Temperature (℃)		25.0±1.0			
	Recovery (%)		15±1			
	PH		7-8			
Operating limits	Max pressure (PSI/Mpa)		600(4.1)		1000(6.9)	600(4,1)
	Max feed water flow gpm (m³/h)		75(17.0)			16(3.6)
	Max Temperature (℃)		45			
	PH range of continuous operation		3-10			
	PH range of chemical cleaning		2-12			
	Max NTU		1.0			
	Max feed water SDI_{15}		5			
	Max concentration of free chlorine (mg/L)		0.1			
	Max pressure drop per element (PSI/Mpa)		15(0.1)			

Note: Each membrane element may have ±15% variation of permeate flow.

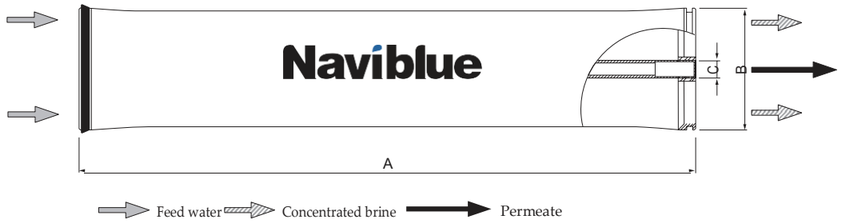
Note

- The specifications are based on the standard testing conditions. In practical applications, the performance will fluctuate with different application conditions and other factors. Please contact us when you are uncertain about product selection.
- New elements are tested and shipped either in dry condition or as wet and preserved elements, to prevent biological growth on membrane surfaces during storage and performance loss in subsequent operation, wet elements are preserved in a standard storage solution containing a buffered 1-2 wt % food-grade sodium metabisulfite (SMBS).
- Store inside a cool building or warehouse and not in direct sunlight. New dry elements will not be affected by temperatures below 45°C, wet element temperature limits: (2°C to 40°C).
- The performance will be stable only after several hours of operation, and the initial permeate should be discharged. The back pressure should be avoided when using.
- To maintain performance, elements must be wet at all times.

FR-Fouling Resistant RO Membrane Elements

FR Series RO Membrane Elements utilizes specialized manufacture technique that can improve the hydrophilicity, electric charge and roughness of its surface, thus reducing the breeding and adsorption of pollutants and microbes on membrane surface. we optimize the elements structure design at the same time, which significantly improve the performance recovery of the element after polluted and cleaning. These series are especially suitable for the treatment industrial wastewater, municipal wastewater, polluted groundwater and surface water etc.

Dimension



Dimension :mm(ft)	A	B	C
8040	1016(40)	201(7.9)	29(1.125)

SW Series Specifications

Type	Model		SW-8040-400	SW-8040-380	SW-4040
	Dimension		8 inch		4 inch
	Material		Polyamide		
Performance	Active membrane area	m^2	37.2	35.3	8.5
		ft^2	400	380	92
	Spacer thickness	mil	28	34	28
		mm	0.711	0.864	0.711
	Rejection%	Stable	99.7		
		Minimum	99.6		
	Permeate flow	m^3/d	28.8	26.0	6.5
		GPD	7600	6850	1700
Testing conditions	Feed water TDS (mg/L)		32000±100		
	Pressure (PSI/Mpa)		800 (5.52)		
	Temperature (℃)		25.0±1.0		
	Recovery (%)		8±1		
	PH		7-8		
Operating limits	Max pressure (PSI/Mpa)		1000 (6.9)		
	Max feed water flow gpm (m/h)		75 (17.0)		16 (3.4)
	Max Temperature (℃)		45		
	PH range of continuous operation		3-10		
	PH range of chemical cleaning		2-12		
	Max NTU		1.0		
	Max feed water SDI_{15}		5		
	Max concentration of free chlorine (mg/L)		0.1		
	Max pressure drop per element (PSI/Mpa)		15 (0.1)		

Note: Each membrane element may have ±15% variation of permeate flow.

Note

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- The performance will be stable only after several hours of operation, and the initial permeate should be discharged. The back pressure should be avoided when using.
- To maintain performance, elements must be wet at all times.

Cases

Cases	Model	Time
Sodium phosphate concentration project in Fujian province	N70-8040/34i;NTXHP-8040/34i	2022
Printing and dyeing wastewater recycling project in Zhejiang province	N70-8040/34i	2022
High salinity wastewater recycling project in Zhejiang province	NTXHP-8040/34i	2022
Printing and dyeing wastewater recycling project in Guangdong province	N40-8040/34i	2021
Mine water recycling project in Anhui province	BW-8040-400	2021
Water station of a food company in Hebei province	LP-8040-400	2021
Printing and dyeing wastewater recycling project in Zhejiang province	BFR-8040-400 N70-8040/34i	2021
Seawater desalination project in Zhoushan city, Zhejiang province	SW-8040-380	2021
Reclaimed water reuse project of a chemical enterprise in Sichuan province	ULP-8040-400	2020
Pure water project of a biochemical enterprise in Shandong province	ULP-4040 BW-4040	2020
Sewage water treatment project of a chemical company in Inner Mongolia	BW-8040-400 NTX-8040/34i NTXHP-8040/34i	2020
Concentrated water reuse of a sewage treatment company in Foshan city	N70-8040/34i N70HP-8040/34i	2019
Printing and dyeing wastewater recycling project in Guangzhou city	NTX-8040/34i	2019
Sewage treatment project of a chemical company in Sichuan province	N70-8040/34i BFR-8040-400	2019
Seawater desalination plant in Shengsi city, Zhejiang province	SW-8040-400	2018
Reclaimed water reuse project of a chemical enterprise in Hebei province	BW-8040-400	2018
Ultra-pure water project of a photovoltaic power plant in Yancheng city	BW-8040-400	2018
Reclaimed water reuse project in Dalian city	LP-8040-400	2018
Boiled water project of a chemical enterprise in Hebei province	BW-8040-400	2017
Printing and dyeing wastewater recycling project in Zhaoqing city	BW-8040-400	2017
Amino acid bleaching project of a biotechnology enterprise in Xinjiang	N40-8040/34i	2017
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Service