


 Product
 Data
 Sheet

Commercial Model: DMDT SW8040-400
Part Number: DMDT-SW-8040-HR-A01
Document No: DMDT-DS-SW-8040-001
Revision: Rev.1.1

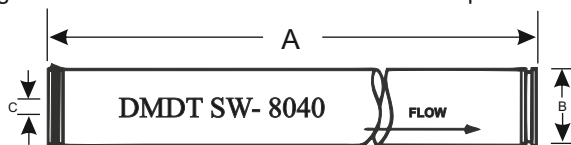
SW 8040 -400

Seawater Desalination Element



DMDT SW- 8040 400 RO Element

SW-8040-400 aromatic polyamide RO element is developed by DMDT for seawater desalination. This series of elements have the characteristics of low operating pressure, low equipment investment, good desalination performance and stability. This membrane elements are generally suitable for the treatment of seawater and brackish water with high concentration. It can be used for seawater desalination, desalination of brackish water with high concentration, boiler replenishment water in power plants, wastewater reuse, concentration and recovery of high value-added substances such as food and pharmaceuticals, etc.



A/mm(inch)	B/mm(inch)	C/mm(inch)
1016(40)	201(7.9)	29(1.125)

Seawater (SW Series)

Model	Active Membrane Area ft ² (m ²)	Permeate Flow GPD (m ³ /day)	Salt Rejection Rate %	Feed Spacer Thickness mil
SW-8040-400	400 (37.2)	7500 (28.4)	99.8	28
Testing Conditions	Operating Pressure 800 psi (5.52 MPa) Temperature at 25 °C Tested at 32000mg/L NaCl solution PH 8 Recovery Rate at 8%			
Limits	Maximum operating pressure		1200 psi (8.28 MPa)	
	Maximum feedwater flow		75 gpm (17 m3/h)	
	Maximum feedwater temperature		45 °C	
	Maximum feedwater flow SDI15		5	
	Allowed pH range for feedwater in operation		2~11	
	Allowed pH range for chemical cleaning		1~13	
	Maximum concentration of free chlorine		<0.1 ppm	
	Maximum pressure drop per element		15 psi (0.1 MPa)	

Size of Membrane Element: 1.0 inch=25.4 mm

NOTICE:

1- All data and information provided in this manual have been obtained from long-term experiment by DMDT. We confirm the effective and accuracy of the data. We assume no liability for any consequences of user's failure in abiding the conditions specified in this manual in use or maintenance of membrane products. It is strongly recommended that the user shall strictly abide the designed use and maintenance requirements and keep relevant records.

2- The permeate value listed in the table is the average value. The permeate flow of single membrane element is tolerance not exceeding ±20% of the nominal value.

3- All wet-type membrane elements have been strictly tested before leaving the factory, and have been treated with 1.0% sodium hydrogen sulfite (10% glycerin antifreeze required in winter) for storage purpose, then sealed with plastic bag in vacuum, and further packed in carton boxes.

4- The membrane used should remain wet after being used; In long term suspension, to prevent the breeding of microbes, soak the membrane elements with protective solution is highly recommended, the solution (prepared with RO filtered water) containing 1.0% sodium hydrogen sulfite (food grade).

5- Operate low pressure flushing for 15-25 minutes of first use, high pressure flushing for 60-90 minutes when first use (Permeate flow no less than 50% of designed flow). Discard all the permeate and concentrated water produced during the first one hour after system start-up.

6- During storage and operation period, it is strictly prohibited to add any chemicals that may be harmful to membrane elements. In case of any violation in adding chemicals, DMDT assumes no liabilities for any damages incurred.

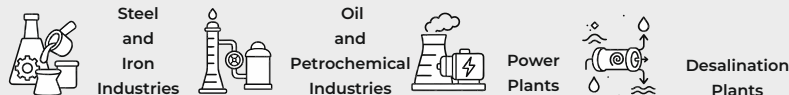
7- Along with technical development and product renovation, all information will be subject to modification without prior notification. Please keep notice of our website for any updates of the product.



Product **Commercial Model:** DMDT BW- LP22 8040-400
Data **Part Number:** DMDT-BW-8040-LP22-A01
Sheet **Document No:** DMDT-DS-BW-8040-001
 Revision: Rev.1.1

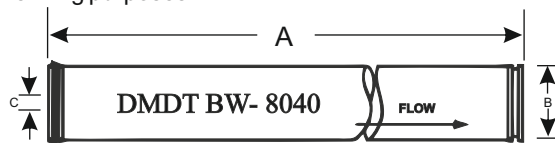
BW8040LP 22

Brackish Water Desalination Element



DMDT BW- 8040 LP22 RO Element

BW-8040 aromatic polyamide RO element is developed by DMDT for treatment of brackish water. It has the characteristics of low-pressure in operation, high permeate flow and excellent rejection performance in removing of solvable salts, TOC, SiO₂, etc. It is especially suitable for the preparation of high purity water in electronics and power industry. Surface water, underground water and municipal water with TDS is less than 10000 ppm. It is mainly used for producing various scales of bottle water, drinking water, industrial used pure water, high purity water, boiler replenishment water, also for wastewater reuse, material concentration, purification and refining purposes.



A/mm(inch)	B/mm(inch)	C/mm(inch)
1016(40)	201(7.9)	29(1.125)

Brackish Water (BW Series)

Model	Active Membrane Area ft ² (m ²)	Permeate Flow GPD (m ³ /day)	Salt Rejection Rate %	Feed Spacer Thickness mil
BW-8040 - LH	400 (37.2)	10500 (39.7)	99.7	28
Testing Conditions	Operating Pressure 225 psi (1.55 MPa) Temperature at 25 °C Tested at 2000 mg/L NaCl solution PH 7 ±0.5 Recovery Rate at 15%			
Limits	Maximum operating pressure	600 psi (4.14 MPa)		
	Maximum feedwater flow	75 gpm (17 m ³ /h)		
	Maximum feedwater temperature	45 °C		
	Maximum feedwater flow SDI15	5		
	Allowed pH range for feedwater in operation	2~11		
	Allowed pH range for chemical cleaning	1~13		
	Maximum concentration of free chlorine	<0.1 ppm		
	Maximum pressure drop per element	15 psi (0.1 MPa)		

Size of Membrane Element: 1.0 inch=25.4 mm



NOTICE:

1- All data and information provided in this manual have been obtained from long-term experiment by DMDT. We confirm the effective and accuracy of the data. We assume no liability for any consequences of user's failure in abiding the conditions specified in this manual in use or maintenance of membrane products. It is strongly recommended that the user shall strictly abide the designed use and maintenance requirements and keep relevant records.

2- The permeate value listed in the table is the average value. The permeate flow of single membrane element is tolerance not exceeding ±15% of the nominal value.

3- All wet-type membrane elements have been strictly tested before leaving the factory, and have been treated with 1.0% sodium hydrogen sulfite (10% glycerin antifreeze required in winter) for storage purpose, then sealed with plastic bag in vacuum, and further packed in carton boxes.

4- The membrane used should remain wet after being used; In long term suspension, to prevent the breeding of microbes, soak the membrane elements with protective solution is highly recommended, the solution (prepared with RO filtered water) containing 1.0% sodium hydrogen sulfite (food grade).

5- Operate low pressure flushing for 15-25 minutes of first use, high pressure flushing for 60-90 minutes when first use (Permeate flow no less than 50% of designed flow). Discard all the permeate and concentrated water produced during the first one hour after system start-up.

6- During storage and operation period, it is strictly prohibited to add any chemicals that may be harmful to membrane elements. In case of any violation in adding chemicals, DMDT assumes no liabilities for any damages incurred.

7- Along with technical development and product renovation, all information will be subject to modification without prior notification. Please keep notice of our website for any updates of the product.