PRODUCT INFORMATION BW-4040



The FROTEC BW(Brackish Water) series of brackish water aromatic polyamide compound membrane element developed by FROTEC Environmental Co.,Ltd.It has the properties of low-pressure operation, high permeate flow and excellent desalination. Besides, it is particularly applicable to fabrication of high-purity water for electronic industry and electric power industry owing to its excellent performance in removing soluble salts, TOC, SiO2, etc.

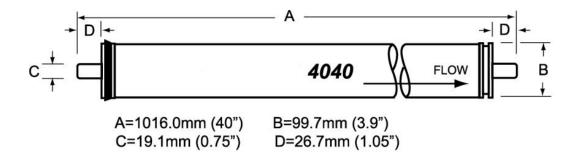
BW series membrane element is suitable for desalination treatment of surface water, groundwater, tap water and municipal water with salt content below 5000ppm.BW series is mainly applicable to treatment of various industrial water such as industrial-purpose pure water, boiler water replenishment in power plant, and can be also applied to such brackish water applications as treatment of high-concentrated saline wastewater and production of beverage-purpose water.

General Information

	Metric Units	US Units
Membrane area	7.2 m²	78 ft ²
Salt rejection,av.	99.5%	99.5%
Salt rejection,min.	99.0%	99.0%
Permeate flow rate,av.	8.7 m³ /d	2250gpd
Permeate flow rate,min.	7.5 m³ /d	2000gpd

Element is tested under the following conditions:applied pressure 15.52bar(225psi),NaCl concentration 2000mg/l,operating temperature 25° C (77° F),pH 8 and recovery rate 15%.

Element dimension



	A(Length)	B(Diameter)	C(OD)	D(Length)
Metric Units	1016 mm	99.7 mm	19.1 mm	26.7 mm
US Units	40 inch	3.9 inch	0.75 inch	1.05 inch

PRODUCT INFORMATION BW-4040



Application Data

	Metric Units	US Units
Operating pressure, max.	41 bar	600 psi
Operating temperature, max.	45° C	113° F
Feed water SDI,max.	5	5
Feed flow,max.	3.6 m³ /h	16 gpm
Concentrate flow,min.	0.6 m ³ /h	3 gpm
pH range during operating	3-10	3-10
pH range during cleaning	2-12	2-12
Pressure drop per element,max.	1.0bar	15 psi
Pressure drop per vessel,max.	3.5bar	50 psi
Chlorine concentration, max.	<0.1 ppm	<0.1 ppm

Additional Information

After Installation

^{*}Treat RO Elements with care;do not drop the element.

^{*}Each RO Element is wet tested, preserved in a 1% weight sodium bisulfite solution, and vacuum packed in oxygen barrier bags.

^{*}During storage, avoid freezing and direct sunlight. The temperature should be below 35° C(95° F).

^{*}Keep the RO Element wet, and use a compatible preservative for storage duration longer than 7 days.

^{*}During the initial start up, discharge the first permeate to drain for 30min.

^{*}Permeate back pressure should not exceed feed pressure at any time.

^{*}Consider cleaning, if the pressure drop increased by 20% or water permeability decreases by 10%.

^{*}Use only chemicals which are compatible with the membrane.