1、产品名称：

JOZZON 8-inch, wide inlet channel, fouling-resistant brackish water desalination membrane elements

2、一句话描述：

The JBW-8040-FR series membrane elements integrate jozzon unique antifouling membrane and winding process, resulting in a long service life, good weather resistance, and customizable 36-40mil wide flow channels to further enhance antifouling capabilities.

3、四个参考范围或基准值，方便买家快速判断，如下：

Salt Rejection：99.3%-99.5%

Operating Pressure：225psi (1.55Mpa)

Effective membrane area ft 2：280(26)-400（37.2）

Applied Industries:

1. Industrial wastewater reuse: Wastewater from various industrial enterprises such as electronics, textiles, chemicals, steel, electroplating, petrochemicals, coal chemicals, and printing and dyeing undergoes preliminary treatment followed by deep desalination and recycling.

2. Power plant boiler feedwater treatment: Used for desalination of boiler feedwater in power plants, requiring stable effluent quality and extremely low salt content.

3. Industrial wastewater treatment containing small amounts of organic pollutants: Particularly suitable for treating industrial wastewater containing small amounts of organic pollutants generated in food processing, printing and dyeing, and electroplating industries.

4. Advanced municipal wastewater treatment: Reuse of secondary effluent from municipal wastewater treatment plants, suitable for scenarios containing trace amounts of organic matter and microorganisms.

5. Treatment of slightly polluted water sources: Treatment of surface water or groundwater slightly polluted by agricultural non-point source pollution or domestic sewage.

6. Other Industrial Water Treatment

Desalination plants in power plants, petrochemical plants, and steel mills

Product Overview

The JBW-8040-FR series membrane elements incorporate Jozzon's unique antifouling technology in both membrane sheet and winding processes, effectively improving the membrane elements' resistance to fouling. Under the same operating conditions, these membrane elements have a longer service life and better weather resistance. Furthermore, our company's outstanding R&D capabilities allow us to customize feed channels with widths of 36mil-40mil for customers, further enhancing the antifouling capabilities of the membrane elements while ensuring sufficient permeate flow.

Features & Benefit

1.Unique Antifouling Membrane Technology

The membranes utilize Jozzon's independently developed antifouling technology, featuring strong surface hydrophilicity and optimized charge characteristics. This effectively reduces the adhesion tendency of pollutants such as organic matter, colloids, and microorganisms, minimizing fouling at its source.

2.Antifouling Rolling Process

Antifouling design concepts are incorporated into the rolling process, resulting in uniform membrane sheet distribution and a short permeate flow channel. This reduces dead zones for pollutant accumulation and enhances the overall fouling resistance of the membrane element.

3.Extra-Long Service Life and Weather Resistance

Under the same operating conditions, this series of membrane elements has a significantly longer service life than ordinary antifouling membranes and exhibits excellent weather resistance, adapting to fluctuations in water quality and environmental changes, reducing replacement frequency.

4.Customized Wide Flow Channel Design (36-40mil)

Leveraging its superior R&D capabilities, Jiuzhang can customize inlet flow channels with widths from 36mil to 40mil according to customer needs. While ensuring permeate flow, this further reduces pressure differential and enhances the water flow flushing effect, significantly improving antifouling performance.

5.Balancing High Productivity and Fouling Resistance: The wide-channel custom design does not come at the expense of productivity. By optimizing membrane and winding parameters, Jozzon ensures that high and stable product flux is maintained while enhancing fouling resistance.

技术参数表

可选型号选型表 Available Models

Membrane element model	Effective membrane area ft^2 (m^2)	Water production flow rate GPD(m^3 /d)	Stable desalination rate (%)	Minimum desalination rate (%)
JBW-8040-280/57-FR	280(26)	7500(28.4)	99.3	99.3
JBW-8040-300/50-FR	300 (27.9)	8000(30.3)	99.3	99.3
JBW-8040-330/48-FR	330(30.7)	8500(32.2)	99.3	99.3
JBW-8040-365/36-FR	365 (33.9)	950 0(36.0)	99.5	99.3
JBW-8040-365/34-FR	365 (33.9)	950 0 (36.0)	99.5	99.3
JBW-8040-380/34-FR	380 (35.3)	10000 (37.9)	99.5	99.3
JBW-8040-400/34-FR	400 (37.2)	10500 (39.7)	99.5	99.3

Test conditions

Test pressure 225psi (1.55Mpa)

Test solution temperature .... 25℃

solution concentration (NaCl) 2000ppm

pH value of the test solution 7.5

Single membrane element recovery rate 15%

Extreme usage conditions

Maximum operating pressure : 600 psi (4.14 MPa)

Maximum influent flow rate .... 75 gpm (17 m3 / h)

Maximum inlet water temperature .... 45℃

Maximum influent SDI_{15} 5

Influent free chlorine concentration : ... < 0.1 ppm

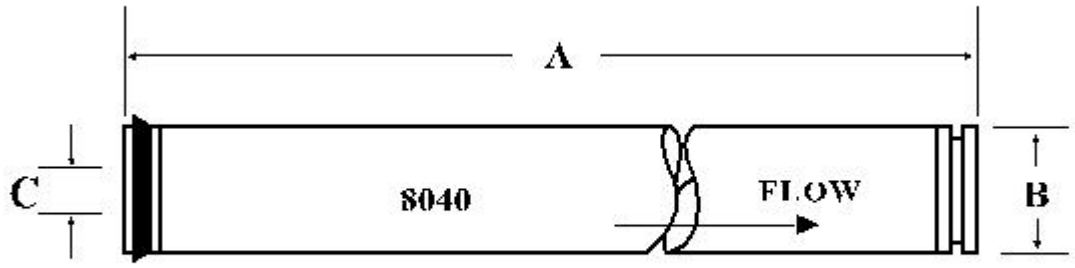
Influent pH range during continuous operation..... 2～12

pH range of influent during chemical cleaning (short-term 30-minute period).... 1～13

Maximum pressure drop of a single membrane element 15psi (0.1Mpa)

Membrane element size

The units in the diagram are millimeters (inches).



A=1016.0mm(40″) B=201.9mm(7.95″) 内径尺寸C=28.6mm(1.125″)