

FR(FoulingResistant) Brackish RO membrane

► Brief introduction

Daltonen series reverse osmosis membrane elements change the charge and smoothness of the membrane surface, enhance the hydrophilicity of the membrane surface, reduce the adhesion of pollutants on the surface, and have strong anti scaling and anti pollution properties through special composite membrane preparation technology. Daltonen FR series are available in 8-inch and 4-inch specifications. It is mainly used to treat water sources with high biological pollution, such as printing and dyeing wastewater and industrial wastewater from thermal power plants.

► Advantage

- Strong anti pollution performance, long service life
- Suitable for poor inlet water quality



► Product dimension

Model	A inch (mm)	B inch(mm)	C inch (mm)	D inch (mm)
FR8400	40(1,016)	/	1.125(29)	7.9(201)
FR4040-82	37.9(963)	1.05 (26. 7)	0.75(19)	3.9 (99)

► Specification

Model	Affective area ft ² (m ²)	Stable salt rejection %	Min salt rejection %	Capa. gpd(m ³ /d)
FR8400	400(37.2)	99.6	99.3	10,500(40)
FR4040-82	82(7.6)	99.6	99.3	2,050(7.8)

Test conditions: inlet pressure 1.03 MPa (150 psi); Water inlet temperature 25 °C (77 ° f); Inlet water quality: 2000 ppm NaCl; Influent pH 8; The recovery was 15%

► Operation condition

- Max.work pressure: 83 bar (1200psi)
- Max.work temp 45°C (113°F)
- Max pressure drop: 1.0 bar (15 psi)
- Continuous operation pH range 2-11
- Chemical cleaning pH range 1-13
- Max feed water SDI(SDI₁₅) 5.0
- Free chlorine: <0.1 ppm

► Instruction

- The flow variation range of single membrane element is ± 15%
- The variation range of effective membrane area is ± 4%
- The stable desalination rate is obtained after 24-48 hours of continuous operation, depending on the inlet water quality and operating conditions.