

SW(SeaWater) sea water RO membrane

► Brief introduction

Daltonen SW special reverse osmosis membrane element for seawater desalination adopts innovative technology, with high compressive tightness at the bottom of the supporting layer of the membrane, thick and dense cortex, wear resistance and chemical degradation resistance; Using the short membrane structure, the number of membrane pages is increased, the membrane efficiency is greatly improved, and the ultra-high desalination rate and ultra-high boron interception rate under the condition of high-yield water are realized. It has wide pH resistance range and high cleaning efficiency. It can use ordinary acid and alkali for strong and efficient cleaning. Because the cleaning is more thorough, the membrane system can operate under low pressure for a long time, which can greatly reduce the operation cost.

► Advantage

- * high salt desalination rate
- *It has compression tightness, anti pollution
- high-definition washing efficiency
- *Improve the overall economic benefits of seawater desalination system



► Product dimension

Model	A inch (mm)	B inch(mm)	C inch (mm)	D inch (mm)
SW8400HR	40(1,016)	/	1.125(29)	7.9(201)
SW8440HR	40(1,016)	/	1.125(29)	7.9(201)
SW8400HRLE	40(1,016)	/	1.125(29)	7.9(201)
SW8440HRLE	40(1,016)	/	1.125(29)	7.9(201)
SW8365HRLE	40(1,016)	/	1.125(29)	7.9(201)
SW8400XHR	40(1,016)	/	1.125(29)	7.9(201)
SW8440XHR	40(1,016)	/	1.125(29)	7.9(201)

► Specification

Model	Affective area ft ² (m ²)	Boron remove rate%	Salt rejection %	Min salt rejection %	Capa. gpd(m ³ /d)
SW8400HR	400(37.2)	90	99.80	99.70	6,000(23)
SW8440HR	440(41)	90	99.80	99.70	6,600(25)
SW8400HRLE	400(37.2)	90	99.80	99.70	7,500(28)
SW8440HRLE	440(41)	90	99.80	99.70	82,00(31)
SW8365HRLE	365(34)	90	99.80	99.70	6,700(25)
SW8400XHR	400(37.2)	90	99.82	99.70	6,000(23)
SW8440XHR	440(41)	90	99.82	99.70	6,600(25)

Test conditions: inlet pressure 5.5 MPa (800 psi); Water inlet temperature 25 °C (77 ° f); Inlet water quality 32000 ppm NaCl; Influent pH 8; The recovery was 8%.

► Operation condition

- Max.work pressure: 83 bar (1200psi)
- Max.work temp: 45°C (113°F)
- Continuous operation pH range 2-11
- Max pressure drop: 1.0 bar (15 psi)
- 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 $\pm 15\%$.
- The variation range of effective membrane area is $\pm 4\%$.
- The stable desalination rate is obtained after 24-48 hours of continuous operation, depending on the inlet water quality and operating conditions.