

LE(LowEnergy) Brackish RO membrane

► Brief introduction

Daltonen LE series reverse osmosis membrane components change the formula and production process of the bottom membrane and composite membrane, changing the density and surface characteristics of the membrane. Compared with traditional brackish water membrane components, they provide a desalination rate of over 99.3% while reducing operating pressure by 33%. Daltonen LE low-power series comes in two sizes: 8-inch and 4-inch.

► Advantage

- Reduce the operating pressure and energy consumption
- Stable desalination rate and water yield
- The membrane system operates economically well

► Product dimension



Model	A inch (mm)	B inch (mm)	C inch (mm)	D inch (mm)
LE8400	40(1,016)	/	1.125(29)	7.9(201)
LE8440	40(1,016)	/	1.125(29)	7.9(201)
LE4040-82	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 %	Capacity gpd(m ³ /d)
LE8400	400(37.2)	99.3	99.0	11,500(44)
LE8440	440(41)	99.3	99.0	12,650(48)
LE4040-82	82(7.6)	99.3	99.0	2,250(8.7)

Test conditions: inlet pressure 1.55 MPa (225 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 condition.