

SEA WATER (SW) RO ELEMENT



MaxFlux RO SW Elements provide high flow rates and high productivity with excellent salt rejection to serve both sea-based and land-based desalination plants. The membrane performance is consistent due to the automated and precise production facilities. Higher durability and lower energy consumption is the key feature of MaxFlux RO membranes

| Size | Model | Stable Rejection | Average Permeated Flow GPD(T/D) | Active Membrane Area ft ² (m ²) |
|--------|--------------|------------------|---------------------------------|--|
| 8 Inch | SW-XLE-8040 | 99.7% | 9000(34.1) | 400(37.2) |
| | SW-HRLE-8040 | 99.7% | 7500(28.3) | 400(37.2) |
| 4 Inch | SW-XLE-4040 | 99.7% | 1800(6.8) | 85(7.9) |
| | SW-HRLE-4040 | 99.8% | 1500(5.7) | 78(7.2) |

Permeate flow and salt (NaCL) rejection based on: 2,000 ppm NaCL, 225psi (15.5 bar), 77 °F (25 °C), pH 8, 15% recovery

Operation Limits and conditions

| | |
|--|---|
| Max. Working pressure | 1200psi (8.3MPa) |
| Max. Feed Water Temperature | 45C |
| Max. Feed Water Flow | 17.0m ³ /h (8040) 3.6m ³ /h (4040) |
| Max. Feed Water SDI ₁₅ | 5.0 |
| Free Chlorine Concentration of Feed water | 0.1mg/L |
| pH Range of Feed Water during Continuous Operation | 2-11 |
| pH Range of Feed Water during Chemical Cleaning | 1-13 |
| Max. Pressure Drop of Single Membrane Element | 15psi |



| MaxFlux Element | Dimensions - inches (mm) | | | 1 inch=25.4 mm |
|-----------------|--------------------------|----------|-------------|----------------|
| | A | B | C | D |
| SW 8040 | 40.0(1016) | 7.9(201) | 1.125ID(29) | / |
| SW 4040 | 40.0(1016) | 3.9(99) | 0.75(19) | 1.04(26.5) |

Projects

Sea water desalination projects for petroleum industry in Australia

Project name: petroleum industry in Australia

Model: SW30XLE-8040

Permeate flow: 100m³/h

Application: boiler feedwater

Operation date: 2019.3

Raw water type: Sea water

Operating Pressure: 56bar

Pressure Vessel Array: 24*7

Recovery: 40%

Salt Rejection: 98.4%

Temperature: 28°C

