High Rejection RO Membrane Elements

Applications

- Seawater desalination.
- Industrial applications for landfill leachate sewage wastewater treatment, high-salinity wastewater concentration etc.
- Minimal or zero liquid discharge.
- Feed TDS above 10000mg/L.

Benefits

- High Rejection Rate and High Concentration Rate.
- Stability and Durability.

8040 Elements

Specifications

Model	Active Area $ft^2(m^2)$	Feed Spacer Thickness(mil)	Permeate Flow Rate GPD(m^3/d)	Stabilized Salt Rejection (%)
SW-8040HR	400(37.2)	28	6500(24.6)	99.80
SW-8040MR	400(37.2)	28	7500(28.3)	99.75

Standard Test Condition

Solution	Temperature （℃）	pH	Operating Pressure psi(MPa)	Recovery （%）
32000mg/L NaCl	25	7.5-8.0	800(5.5)	8

Individual flow rate may vary ±15%

4040 Elements

Specifications

Model	Active Area $ft^2(m^2)$	Feed Spacer Thickness(mil)	Permeate Flow Rate GPD(m^3/d)	Stabilized Salt Rejection (%)
SW-4040HR	85(7.9)	28	1500(5.7)	99.75
SW-4040MR	85(7.9)	28	1800(6.8)	99.70

Standard Test Condition

Solution	Temperature（℃）	pH	Operating Pressure psi(MPa)	Recovery（%）
32000mg/L NaCl	25	7.5-8.0	800(5.5)	8

Individual flow rate may vary ±15%

Element Dimensions and Operating Limits

Model	Length		Diameter		Permeate Tube inner Diameter		Permeate Tube Extension Length	
	inch	mm	inch	mm	inch	mm	inch	mm
8040	40	1016	7.9	201	1.12	28.5	/	/
4040	40	1016	3.9	99	0.75	19.1	1.04	26.5

Maximum Operating Pressure	1200psi(8.3MPa)
Maximum Operating Temperature	45℃
Maximum Feed Silt Density Index (SDI_{15})	5.0
Free Chlorine Tolerance	0.1mg/L
pH Range,Continuous Operation	3-10
pH Range,Short-Term Cleaning	1-13
Maximum Element Pressure Drop	15psi(0.1MPa)