

Energy Saving RO Membrane Elements

Applications

- Groundwater, tap water treatment etc.
- Supply system for beverage production municipal drinking water, agricultural water, 2nd pass RO feed water etc.
- Feed TDS below 1000mg/L

Benefits

- High Permeability
- Low Operating Pressure
- Cost-effective

1. 8040 Element



1.1 Specifications

Model	Active Area ft ² (m ²)	Feed Spacer Thickness (mil)	Permeate Flow Rate GPD (m ³ /d)	Stabilized Salt Rejection (%)
XLP-8040	440(40.9)	28	11000 (41.6)	99.20
XLP-8040HF	440(40.9)	28	13000 (49.2)	99.00

1.2 Standard Test Conditions

Solution	Operating Pressure psi (MPa)	Temperature (°C)	pH	Recovery (%)
500mg/L NaCl	100(0.69)	25	7.5-8.0	15

Individual flow rate may vary ± 15%

2. 4040 Element



2.1 Specifications

Model	Active Area ft ² (m ²)	Feed Spacer Thickness (mil)	Permeate Flow Rate GPD (m ³ /d)	Stabilized Salt Rejection (%)
XLP-8040	90 (8.4)	28	2600(9.8)	99.20
XLP-8040HF	100(9.3)	28	3000 (11.4)	99.00

2.2 Standard Test Conditions

Solution	Operating Pressure psi (MPa)	Temperature (°C)	pH	Recovery (%)
500mg/L NaCl	100(0.69)	25	7.5-8.0	15

Individual flow rate may vary $\pm$ 15%

3. 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	600psi(4014MPa)
Operating Temperature Range	0-45°C
Maximum Feed Flow Rate	17.0m ³ /h(8040), 3.6m ³ /h(4040)
Maximum Feed 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)