

Performance

Product Code	Test Criteria 1		Test Criteria 2	
	LPH	Avg Rejection (%)	LPH	Avg Rejection (%)
SRO-1812-35	5.2	98.0	5.8	98.5
SRO-1812-50	7.8	98.0	9.4	98.5
SRO-1812-75	10.5	98.5	11.1	98.5
SRO-1812-100	13.7	98.5	17.1	98.5
SRO-1812-150	22.5	98.0	27.9	98.0

Note:

1. Test Criteria 1 = feedwater of 300ppm, 15% recovery at 18°C and feed pressure 3.4 bar (50psi)
2. Test Criteria 2 = feedwater of 300ppm, 15% recovery at 18°C and feed pressure 4.1 bar (60psi)
3. Minimum salt rejection at 3.4 bar: 98% (SRO-1812-150: 97.5%)
4. Minimum salt rejection at 4.1 bar: 98.5% (SRO-1812-150: 98%)
5. Permeate flows for individual membranes may vary ±20%

Technical Data

Maximum Operating Temperature °C (°F)	45 (113)
Minimum Operating Temperature °C (°F)	4 (39)
Maximum Operating Pressure bar (psi)	20.7 (300)
Minimum Operating Pressure bar (psi)	3 (44)
Maximum Feed Flow Rate (LPM)	7.6
Minimum Feed Flow Rate (LPM)	1.9
Maximum Recommended Recovery (%)	35
pH Range, Continuous Operation	3-10
Maximum Feed Silt Density Index (SDI)	5
Chlorine Tolerance (mg/l) (Total exposure 2000mg/l - hours)	<0.1
Maximum Feed Water Turbidity (NTU)	<1



Dimensions

Product Code	Size (")	Active Area ft ² (m ²)	Membrane Leaves
SRO-1812-35	1.54x12	3.1 (0.29)	1
SRO-1812-50	1.75x12	3.7 (0.34)	2
SRO-1812-75	1.75x12	4.5 (0.42)	2
SRO-1812-100	1.90x12	6.6 (0.61)	3
SRO-1812-150	1.90x12	8.2 (0.76)	3

Materials of Construction

Membrane:	Polyamide Thin-Film Composite
Brine Seal:	Buna-N
O-rings:	Buna-N

Construction Notes

1. Multi-layered polyamide thin-film composite membrane, spiral wound with feed channel spacer and collection material around a perforated collection tube.
2. SRO-1812-50 membrane and larger, use a multi-leaf construction to optimise performance.

Permeate Production Temperature Correction

The feedwater temperature will have an effect on the amount of water a membrane element can produce. The table below shows the approximate permeate production of each membrane at different feedwater temperatures.

Corrected Permeate Flow LPH						
Product Code	Water Temperature °C					
	4	10	15	18	20	25
SRO-1812-35	3.2	4.0	4.7	5.2	5.5	6.6
SRO-1812-50	4.8	6.0	7.0	7.8	8.3	9.9
SRO-1812-75	6.4	8.0	9.4	10.5	11.1	13.4
SRO-1812-100	8.4	10.5	12.3	13.7	14.5	17.5
SRO-1812-150	13.8	17.2	20.2	22.5	23.8	28.7

Permeate flowrate based on test criteria 1

Suitable Housings

EMH-PP-1812

(and most industry standard 1.8 / 2" membrane housings)