

REVERSE OSMOSIS MEMBRANE

SRO 2.5", 4" & 8" (HIGH REJECTION)

Performance

Product Code	LPH (m ³ /day)	Avg Rejection (%) at 15.5 bar	Size (")	Active Area (ft ²)
SRO-2521	47 (1.1)	99.5	2.4 x 21	14
SRO-2540	118 (2.8)	99.5	2.4 x 40	30
SRO-4021	173 (4.2)	99.5	3.9 x 21	39
SRO-4040	379 (9.1)	99.5	3.9 x 40	87
SRO-8040	1514 (36.3)	99.5	7.95 x 40	365
SRO-8040-HF	1656 (39.7)	99.5	7.95 x 40	400

Note:

1. Permeate flow and rejection based on feedwater of 2000 ppm NaCl, 15% recovery (2540, 4040, 8040); 8% recovery (2521, 4021) and 25°C at the specified applied pressure.
2. Minimum salt rejection 99%
3. 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)	41 (595)
Minimum Operating Pressure bar (psi)	10 (145)
Recommended Operating Pressure bar (psi)	15.5 (225)
Maximum Feed Flow Rate LPM	2.5" = 22 4" = 60 8" = 280
Minimum Feed Flow Rate LPM	2.5" = 15 4" = 85 8" = 280
Maximum Recommended Recovery (%)	35
pH Range, Continuous Operation	3-10
pH Range, Short Term Cleaning	2-12
Maximum Feed Silt Density Index (SDI)	5.5
Chlorine Tolerance (Total Exposure 2000 mg/l - hours) (mg/l)	<0.1
Maximum Feed Water Turbidity (NTU)	<1

Materials of Construction

Permeate Tube:	ABS
Feed Channel Spacer:	Polypropylene
Membrane:	Polyamide Thin-Film Composite
Permeate Collection Material:	Polyethylene Terephthalate (PET)
Anti-Telescoping Device (ATD):	ABS
Outer Wrap:	Fibreglass
Brine Seal:	Buna-N
Interconnector:	ABS
Interconnector 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. Fouling resistant coating added to membrane flatsheet to create a more neutral surface charge.

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	16	21	25
SRO-2521	23	28	35	42	47
SRO-2540	57	71	86	104	118
SRO-4021	83	104	127	153	173
SRO-4040	182	227	276	333	379
SRO-8040	727	908	1105	1332	1514
SRO-8040-HF	795	994	1209	1457	1656

Suitable Housings

SMH - SP - 2521 - 3/8
SMH - SP - 2540 - 3/8
SMH - SP - 2540 - 3/8
SMH - SP - 4040 - 1/2
SMH - FRP - 2521
SMH - FRP - 2540
SMH - FRP - 4021 - 1/2 - 1/2
SMH - FRP - 4040 - 1/2 - 3/4
(and most industry membrane housings)