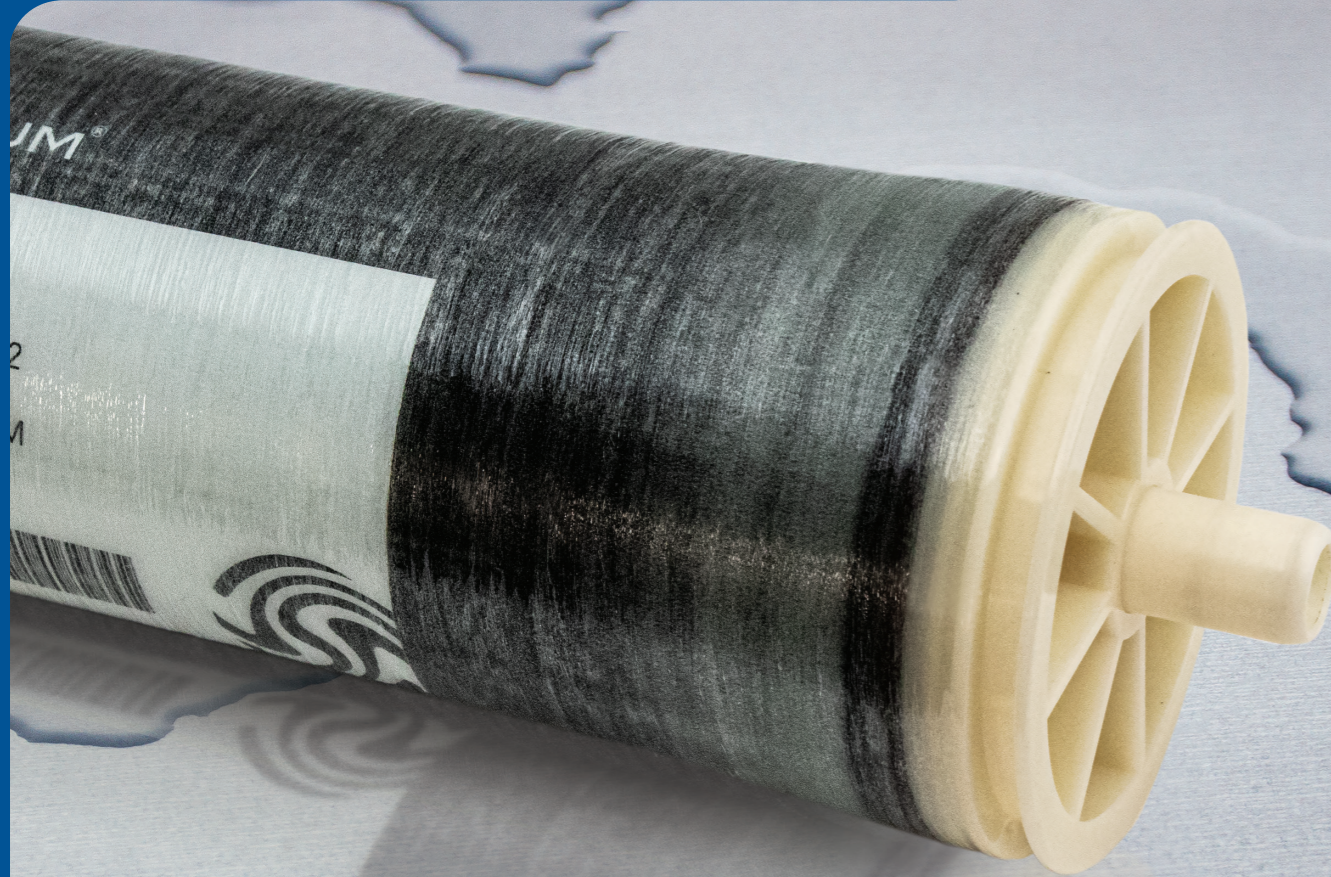


Fastest Rinse up RO Membrane



Commercial & Industrial Applications

4" Membranes

Higher Flow, Lower Energy

Advancing every area of the user experience, making the SPECTRUM 4" not just a retrofit but a system upgrade. Starting with logistics, where the fibreglass outer finish adds security, as does the strengthened packaging. Storage is improved with extended shelf life, installation rinse-up time is dramatically reduced, higher flow at lower energy consumption is achieved during operation, whilst increasing permeate quality, and membrane life is extended due to the anti-fouling media.

Specification

Maximum Operating Temperature	4-45°C
Maximum Operating Pressure	41 bar
Minimum Operating Pressure	- ERO 6 bar - SRO 10 bar - PRO 5.5 bar
Maximum Feed Flow Rate	60 LPM
Minimum Feed Flow Rate	15 LPM
Maximum Recommended Recovery	35 %
pH Range, Continuous Operation	3-10
pH Range, Short Term Cleaning	2-12
Maximum Feed Silt Density Index	5.5 SDI
Chlorine Tolerance (Total Exposure 2000 mg/l - hours) (mg/l)	<0.1
Maximum Feedwater Turbidity	<1 NTU
Maximum Feedwater Quality (TDS)	- ERO <2,000 mg/l - SRO <10,000 mg/l - PRO <1,000 mg/l
Recommended Shelf Life	2 Years

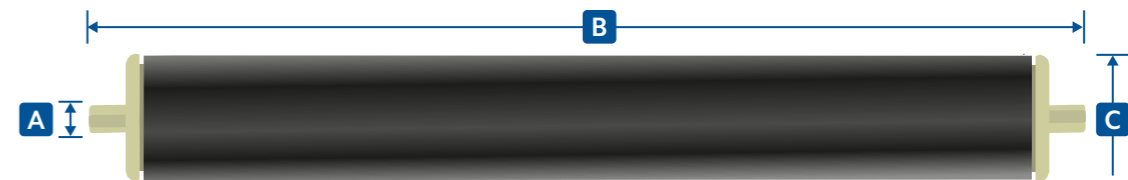
Materials of Construction

Permeate Tube ABS	Anti-Telescoping Device ABS
Feed Channel Spacer Polypropylene	Outer Wrap Fibreglass
Membrane Polyamide Thin-Film Composite	Brine Seal Buna-N
Permeate Collection Material Polyethylene Terephthalate (PET)	

Configurations

Diameter (")	Length (")	
4.0 (nominal)	21 (nominal)	40 (nominal)

Dimensions



Product	Dimensions (")			Active Area ft² (m²)
	A	B	C	
ERO-4021	0.75	21	3.9	36 (3.3)
ERO-4040	0.75	40	3.9	90 (8.3)
SRO-4021	0.75	21	3.9	39 (3.6)
SRO-4040	0.75	40	3.9	87 (8.1)
PRO-4021	0.75	21	3.9	39 (3.6)
PRO-4040	0.75	40	3.9	87 (8.1)

Part Number

Flow Rate

Product Code	LPH (m³/day)	Operating Pressure bar (psi)	Avg Rejection %
ERO-4021	189 (4.5)	@ 10.3 (150)	99.2
ERO-4040	410 (9.8)	@ 10.3 (150)	99.2
SRO-4021	173 (4.2)	@ 15.5 (225)	99.7
SRO-4040	379 (9.1)	@ 15.5 (225)	99.7
PRO-4021	189 (4.5)	@ 6.9 (100)	99.2
PRO-4040	410 (9.8)	@ 6.9 (100)	99.2

Reliable and Secure RO Housing



SPECTRUM

PED
Compliant
Article 4, Paragraph 3
Group 2 Liquids

Standard vs Economic

Extending the performance capabilities of the Economic range, the SMH is ideal for use with SPECTRUM SRO membranes in higher TDS feed waters (>500 mg/L). Designed for more demanding applications, the Standard range provides superior performance.



Corrosion Resistant

Constructed from 316L stainless steel, the SMH provides extra corrosion protection, such as pitting from high chloride solutions.

Durability

With a 30% thicker body, the Standard range has increased strength and durability, suitable for harsh industrial environments.

Seamless

Manufactured from a seamless stainless tube, the SMH avoids the potential of long term weld corrosion for extended service life.

Specification

Operating Temperature SMH 50 °C / EMH 40 °C
Maximum Operating Pressure SMH 17 bar / EMH 10 bar

Materials of Construction

Housing Body
- EMH 304 Stainless Steel - Seamed
- SMH 316L Stainless Steel - Seamless

Endcaps
ABS

Clamps
304 Stainless Steel

Clamp Screws
304 Stainless Steel

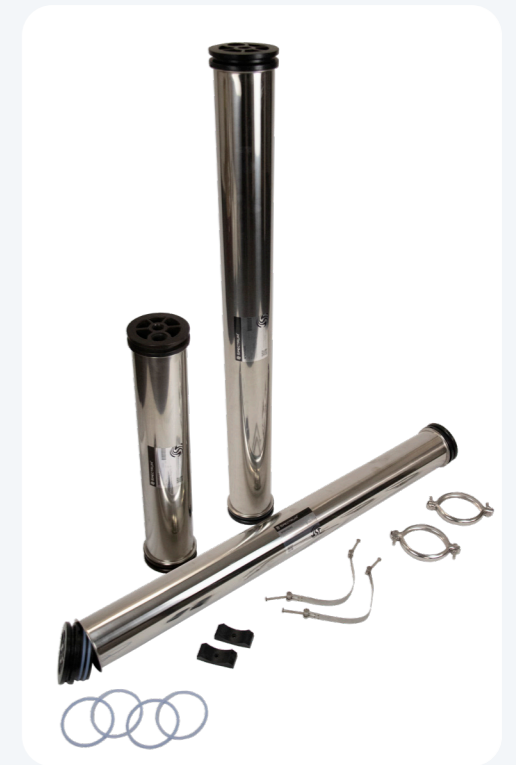
O-rings
Silicone

Mounting Strap
304 Stainless Steel

Plug
1/2" BSPT PVC

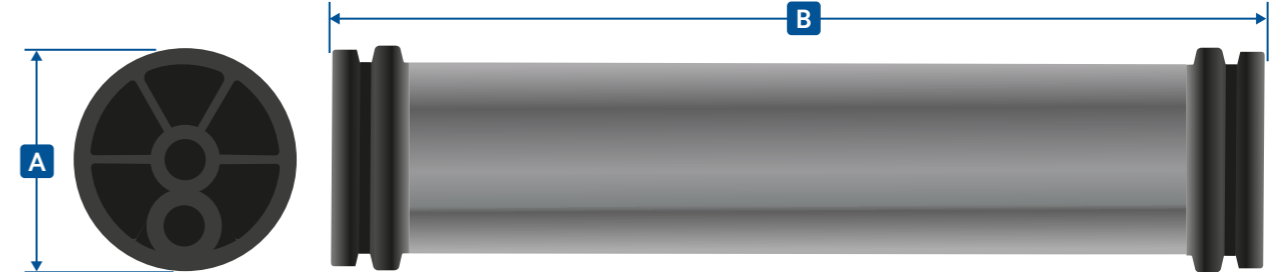
Configurations

Diameter (")	Length (")	Port Size (")		
		Feed	Permeate	Concentrate
4.0 (nominal)	21 (nominal)	3/4	1/2	3/4
	40 (nominal)			



- Increased resistance to UV (compared to PVC & FRP)
- Secure integrated clamping system
- Complete with mounting straps

Dimensions



Product	Dimensions (")	
	A	B
EMH-SP-4021	4.6	23.3
EMH-SP-4040	4.6	42.3
SMH-SP-4021	4.6	23.3
SMH-SP-4040	4.6	42.3

4" Membrane Housings

The Go-to For Commercial Pure Water Production

The preferred choice for commercial reverse osmosis systems, the SPECTRUM 4" stainless steel membrane housings are constructed with a highly polished stainless steel body to ensure membrane seal integrity. Typically lighter than comparable PVC or FRP alternatives, these housings feature two twin-port single piece ABS end-caps offering flexibility in both housing orientation and membrane flow pattern, whereby pure water can be collected at either end of the housing.

Part Number

Product Code	Material	Size	Port Size (Feed & Concentrate)	Port Size (Permeate)
EMH	SP	4021	3/4	1/2
SMH		4040		

e.g. EMH-SP-4021-3/4-1/2