

# CoMem® - 25mm diameter Round channels

The high flux AquaSolution asymmetric silicon carbide (SiC) membrane is designed for removal of suspended solids from solution. The tightest membranes reject bacteria and other microorganisms and the virus count is reduced by several orders of magnitude. The CoMem® elements are designed for cross flow operation.

## Products and Guidelines

CoMem® Model	Channel dimension	Membrane Area	Dimensions		Feed flow at 3 m/s
xx is pore size	mm	m <sup>2</sup>	A (mm)	B (mm)	m <sup>3</sup> /h
COM-25-305-(Ø3)-xx	Ø3	0.05	25	305	1.45
COM-25-1016-(Ø3)-xx	Ø3	0.17	25	1016	1.45
COM-25-1178-(Ø3)-xx	Ø3	0.20	25	1178	1.45

Nominal Pore size		MWCO	Typical water flux @ At 25°C and 0,2 bar On non-fouling water
40 nm	0.04 micron	100 kD	1000 L/(m <sup>2</sup> *h)
100 nm	0.1 micron	200 kD	3000 L/(m <sup>2</sup> *h)
1000 nm	1 micron	N.A	8 m <sup>3</sup> /(m <sup>2</sup> *h)
10000 nm <sup>1</sup>	3 micron	N.A	>10 m <sup>3</sup> /(m <sup>2</sup> *h)
30000 nm <sup>1</sup>	30 micron	N.A.	>>10 m <sup>3</sup> /(m <sup>2</sup> *h)

<sup>1</sup> Substrate only. Symmetric filter. No membrane layer.

### Element

Configuration:	Cylindrical with square channels
Membrane material:	Silicon carbide (SiC)
Substrate material:	Silicon carbide (SiC)
Temperature tolerance:	Up to 800°C
Maximum pressure:	Unknown, over 100 bar

### Application Data

Operating pressure:	Max 10 bar; normally less than 5 bar
Maximum operating temperature:	Determined by system components
Maximum chlorine concentration:	Unlimited
pH tolerance:	0 – 14
Cleaning:	Chlorine, acid, caustic, solvents
Maximum negative TMP:	3 bar



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