

CoMem[®] Conduit - 80mm diameter

The high flux 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 elements have permeate conduits which facilitate permeate removal. This means that the element may be operated in cross flow mode and in dead-ended mode with fast forward flush.

The CoMem[®] elements are designed for cross flow operation.

Products and Guidelines

| CoMem [®] Model | Channel dimension | Membrane Area | Element Dimensions | | Feed flow at 3 m/s |
|-----------------------------|----------------------|------------------|-----------------------|---------|-----------------------|
| | | | A (mm) | B (mm) | |
| xx is pore size | mmxmm | m ² | A (mm) | B (mm) | m ³ /h |
| COM-80-600-(2*2)-xx | 2x2 | 2.0 | 80 ± 1 | 600 ± 1 | 17 |

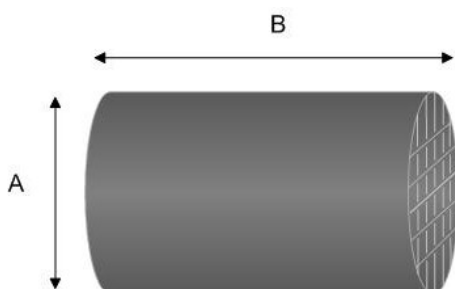
| Nominal Pore size | | Nominal MWCO | Typical water flux at 25°C On non-fouling water @ 1bar |
|-------------------|---------|--------------|---|
| 40 nm | 0.04 µm | 100 kD | 3 m ³ /(m ² h) |
| 100 nm | 0.1 µm | 200 kD | 4 m ³ /(m ² h) |
| 1000 nm | 1 µm | N.A | 10 m ³ /(m ² h) |
| 3000 nm | 3 µm | N.A | >10 m ³ /(m ² h) |

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 |



Notice: Elements are delivered dry. Handle with care since the material is brittle. CoMeTas believes the information and data contained herein to be accurate and useful. The information and data are offered in good faith, but without guarantee, as conditions and methods of use of our products are beyond our control. CoMeTas assumes no liability for results obtained or damages incurred through the application of the presented information and data. It is the user's responsibility to determine the appropriateness of CoMeTas' products for the user's specific end uses. Specifications are subject to change without notice. N 01/25/10