SILICON CARBIDE ULTRAFILTRATION HIGH FLUX – HIGH PERFORMANCE

H2O LARGE DIAMETER MEMBRANES FOR LIQUID FILTRATION

H2O Silicon carbide (SiC) ceramic membrane filters resist extreme mechanical, thermal and chemical stresses, making it ideal for challenging industrial water and wastewater applications.

H2O SiC membranes are highly porous, highly pure, recrystallized silicon carbide filters for liquid filtration.

The SiC membranes are characterized by high chemical and thermal stability and excellent trade-off between retention efficiency and permeate flux.

| OIL & ORGANICS | H2O SiC r | nembranes ar | e designe | d to |
|--------------------|------------------------------------|-----------------|-------------|------|
| | remove | suspended | solids, | oil |
| | droplets & | & oil emulsions | s from flui | ds. |
| BACTERIA & ARSENIC | >99% removal of bacteria & arsenic | | | nic |

>99% removal of TSS, iron & other particulate metals & solids

High temperature stability and excellent thermal shock resistance



RECYCLE, REMEDIATE, RECOVER

DELIVERING NON-CHEMICAL, ENVIRONMENTALLY SUSTAINABLE SOLUTIONS FOR HARD TO TREAT WATER APPLICATIONS



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SUSPENDED SOLIDS

HIGH TEMPERATURE

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| H2O SiC Membrane Geometry & Material | |
|--------------------------------------|-------------------------|
| Configuration: | |
| Outside diameter | 51 mm |
| Length | 1200 mm |
| Channel hydraulic diameter | 3 mm |
| Number of channels | 121 |
| Filtration area | 1.34m2 |
| Membrane & carrier material | 100% SiC |
| Available pore sizes | 0.25 μm, 0.60μm, 1.0μm, |
| | 3.0µm |

| Performance Characteristics | | | |
|------------------------------------|--|---------------|--|
| Temperature tolerance | 300 C | 842 F | |
| pH tolerance | 0 - 14 | | |
| Membrane cleaning | Chlorine, acid, caustic, solvents, oxidizers | | |
| Maximum TMP | 2 bar | 29 psi | |
| Recommended cross-flow velocity | 1-4 m/sec | 3 - 13 ft/sec | |
| Flux (clean water, 20C/68F, 1 bar) | 12,000 LMH | 7,068 GFD | |
| | | | |



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