

# **SiCFM for Drinking water**



## **Applications**

Ground water → removal of Fe, Mn, As, Ra and other Suspendes Solids (SS)

Surface water → removal of Algae, Pathogens, Silt, and other SS

### Features & benefits of SiCFM membrane

Hydrophilic material → clean water permeability of 10.000 LMH/bar

Anti-clogging → membrane repels negatively charged particles

Chemically inert → no degration of membrane from any chemical or solvent

Durable and robust → membrane material is the hardest manufactured material

## **Operation features & benefits**

Highly compact designs

High recovery - close to 100% mass balance

Minimal maintenance & simple operation

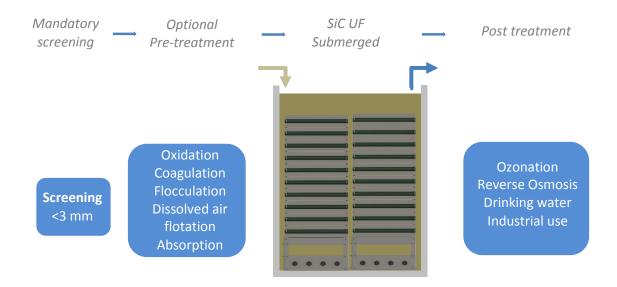
Lifetime exceeding 10 years

Resistant to solvents, oil, grease, high temperature & high pressure

Low energy consumption







#### **Proces**

The SiCFM can be used in a wide variety of drinking water applications. The only basic requirement is a 3 mm screen prior to the SiCFM. However, to increase SiCFM performance, it is advisable to either flocculate, precipitate, etc, as per above chart. The SiCFM will subsequently remove turbidity, oil, SS and harmful pathogens providing excellent RO operation or drinking water quality.

Parameter	Unit	<b>Ground water</b>	Surface water	
Typical operational parameters				
Membrane airscour rate	Nm³/hour	No air-s	No air-scouring required	
Clean water permeability	LMH/bar		>10.000	
Recommended TMP range	bar (suction)		0,1-0,6	
Recommended flux rate	LMH	1.000	200-600*	
Backwash flux rate	LMH	1500	1.000	
Backwash pressure	bar	0,5-1	1-3	
Recovery rate	%	99,5	99	
Backwash frequency	hours	24-48	0,5-4	
Typical permeate quality				
Fe, Mn	ppm		<0,02	
TSS	ppm		<1	
Turbidity	NTU		<0,2	
SDI	SDI		<3	
Bacteria removal	count		Log4	

\*depending on organic content

