

SiCFM in MBR



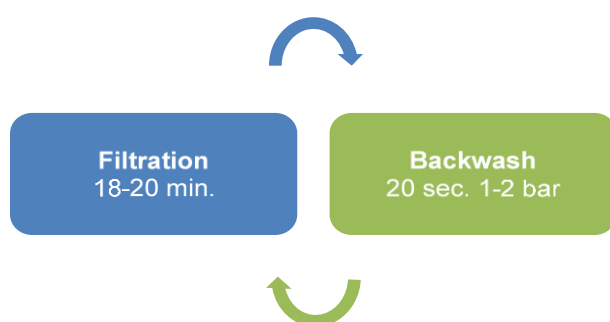
Features & benefits of SiCFM membrane

- Hydrophilic material → clean water permeability of 10.000 LMH/bar
- Anti-clogging → membrane repels negatively charged bio-sludge
- Chemically inert → no degradation of membrane from any chemical or solvent
- Durable and robust → membrane material is the hardest manufactured material

Operation features & benefits

- Highly compact designs
- Limited risk of clogging
- Long backwash frequencies (every 20 minutes)
- High tolerance towards MLSS upsets (<35.000 ppm)
- Lifetime exceeding 10 years
- Resistant to solvents, oil, grease, high temperature, etc.
- High pressure backwash

Parameter	Unit	SiCFM-M10 single tower
Dimensions		
Height	mm	1.820
Width	mm	700
Depth	mm	600
Membrane area	m ²	73
Packing density	m ² /m ²	204
Operation		
Membrane aircour rate	Nm ³ /hour	20-25
Clean water permeability	LMH/bar	10.000
Recommended TMP range	bar (suction)	0,1-0,5
Recommended flux rate	LMH	50
Backwash flux rate	LMH	500-600
Backwash pressure	bar	1-3
Backwash frequency	minutes	18-20
Operation requirements		
MLSS in membrane tank	ppm	<35.000
Temperature	°C	<80
Oil and grease	ppm	<1.000



Permeate quality	Unit	Result
TSS	ppm	<1
Turbidity	NTU	<0,2
Silt Density Index	SDI	<3