

PHILOSEP SCAF 8080 Membrane module Specification

Product	SCAF 8080
Performance	
Design Flux	30 ~ 120 L/m ² ·hr, 25°C
Permeate SDI ₁₅	≤ 3
Permeate Turbidity	≤ 0.1 NTU
Membrane	
Type	Hollow fiber
Membrane Polymer	PVDF
Pore Size	0.03μm
Nominal Membrane Area	77 m ²
Application Data	
Maximum Applied Feed Pressure	3 kg/cm ²
Recommended Transmembrane Pressure	0.3 ~ 1.0 kg/cm ²
Maximum Transmembrane Pressure	2.0 kg/cm ²
Maximum Feed Turbidity	100 NTU
Maximum Operating Temperature	104 °F (40 °C)
pH	2 ~ 10
Pre-treatment	100 ~ 300 μm
Oil Concentration	≤ 2 mg/L
Operation Parameters	
Backwash Frequency	Once every 20 to 60 minutes (according to water quality or pilot scale)
Backwash duration	20 ~ 60 seconds
Backwash Pressure	<2 kg/cm ²
Backwash Flux	80 ~ 120 L/m ² ·hr
Washing time	20 ~ 60 seconds
Air Washing	
Air Scour Feed Time	20 ~ 60 seconds
Air Flowrate	4 ~ 10 Nm ³ /hr
Maximum Air Scour Pressure	2.5 kg/cm ²
Used Air	Oil free compressed air

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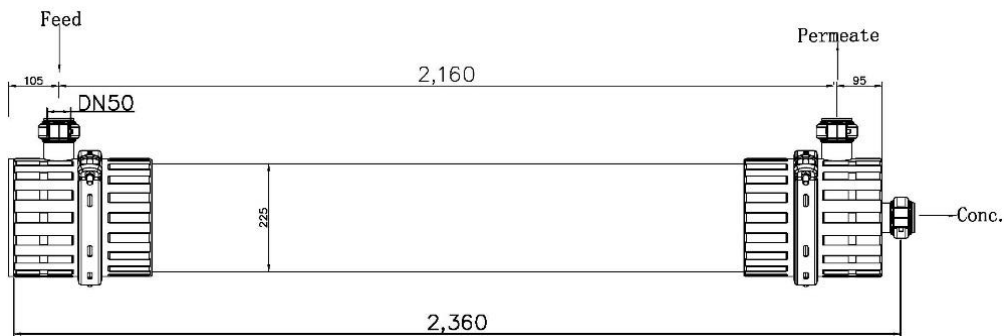
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Chemical Enhanced Back Wash (CEB)

Backwash Cycle	12 to 24 hours each time (depends on raw water quality or pilot quality)
Back wash chemical	0.1% HCL (Increase/ Decrease depends on raw water quality or pilot quality) 0.05% NaOH + 0.1% NaClO (Increase/ Decrease depends on raw water quality or pilot quality)

Chemical Cleaning

Conditions	When the transmembrane pressure is 0.8 kg/cm ² ~1kg/cm ² greater than the initial operating pressure, and cannot be recovered by backwash, air scour and chemical enhanced backwashing then chemical cleaning should be done.
Time	60-90 minutes
Chemical	Inorganic : 1-2% Oxalic acid or 1~2% Citric acid Organic : 0.1% NaOH + 0.2% NaClO
Flow	1.0 ~ 2.0 m ³ /hr
Temperature	30 ~ 35 °C



Φ(mm)	L(mm)	Port Size	Weight(kg)
225	2,360	DN50	92(wet)

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