

## PHILOSEP SCAF 6050 Membrane module Specification

Product	SCAF 6050
<b>Performance</b>	
Design Flux	30 ~ 120 L/m <sup>2</sup> ·hr, 25°C
Permeate SDI <sub>15</sub>	≤ 3
Permeate Turbidity	≤ 0.1 NTU
<b>Membrane</b>	
Type	Hollow fiber
Membrane Polymer	PVDF
Pore Size	0.03 μm
Nominal Membrane Area	15 m <sup>2</sup>
<b>Application Data</b>	
Maximum Applied Feed Pressure	3 kg/cm <sup>2</sup>
Recommended Transmembrane Pressure	0.3 ~ 1.0 kg/cm <sup>2</sup>
Maximum Transmembrane Pressure	2.0 kg/cm <sup>2</sup>
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
<b>Operation Parameters</b>	
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 <sup>2</sup>
Backwash Flux	80 ~ 120 L/m <sup>2</sup> ·hr
Washing time	20 ~ 60 seconds
<b>Air Washing</b>	
Air Scour Feed Time	20 ~ 60 seconds
Air Flowrate	3 ~ 8 Nm <sup>3</sup> /hr
Maximum Air Scour Pressure	2.5 kg/cm <sup>2</sup>
Used Air	Oil free compressed air

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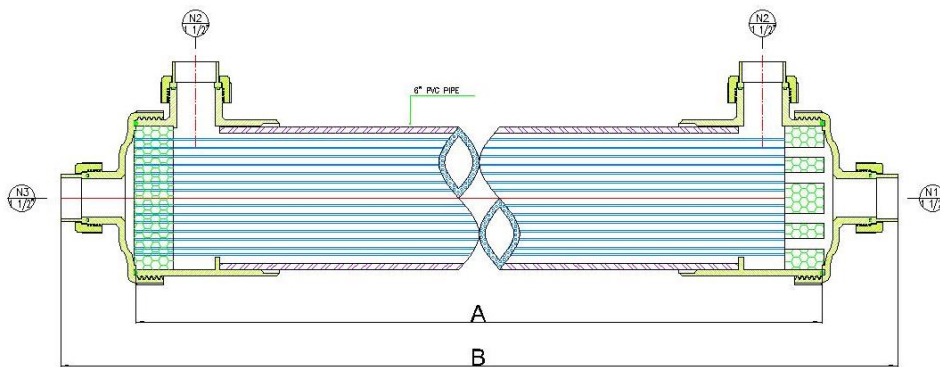
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### Chemical Enhanced Back Wash (CEB)

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 <sup>2</sup> ~1kg/cm <sup>2</sup> 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	0.6 ~ 1.2 m <sup>3</sup> /hr
Temperature	30 ~ 35 °C



A (mm)	B (mm)	Port Size	Weight(kg)
942	1,120	DN40	30(wet)

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