

POREFLON™ Module Submerged Cassette Type

Features

* PTFE: Polytetrafluoroethylene

Stable Flux

Highly durable membrane hydrophilic property, and asymmetric (2 layers) structure of PTFE membrane enable less fouling during operation.

Can treat water containing a variety of substance

This module can be operated steadily with water containing oil and grease, as well as organic substances.

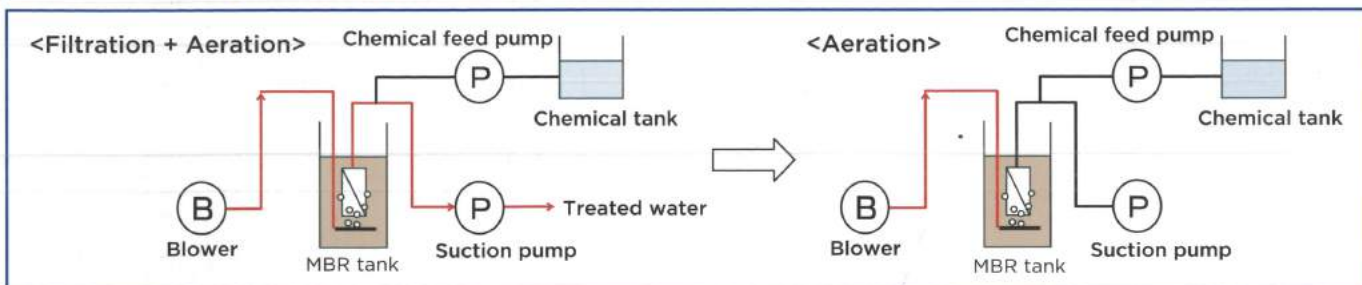
Saves energy (low operational cost)

Saves space

The large membrane area per projected area helps achieve significant savings in aeration energy and foot print.



Standard operating conditions



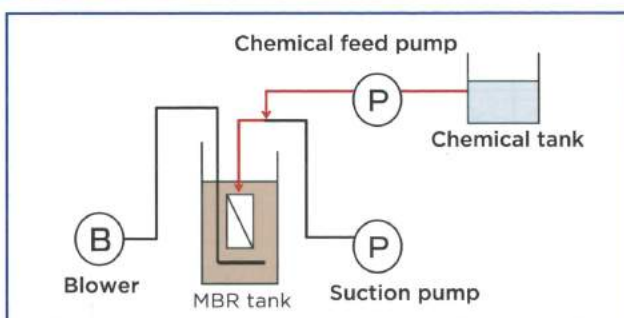
Example of filtration operating conditions

Assumed water quality: **MLSS** : 7,000 – 10,000 mg/L
BOD 200 – 300 mg/L **Designed Flux** : 0.3 – 0.8 m/d
COD_{Mn} 100 mg/L **Filtration time** : Filtration + Aeration : 9min → Aeration : 1min
Aeration flow rate : 160 L/min/1module
 (Normally, no backwash is carried out.)

Standard chemical cleaning conditions

Inline cleaning

(Low concentration cleaning)



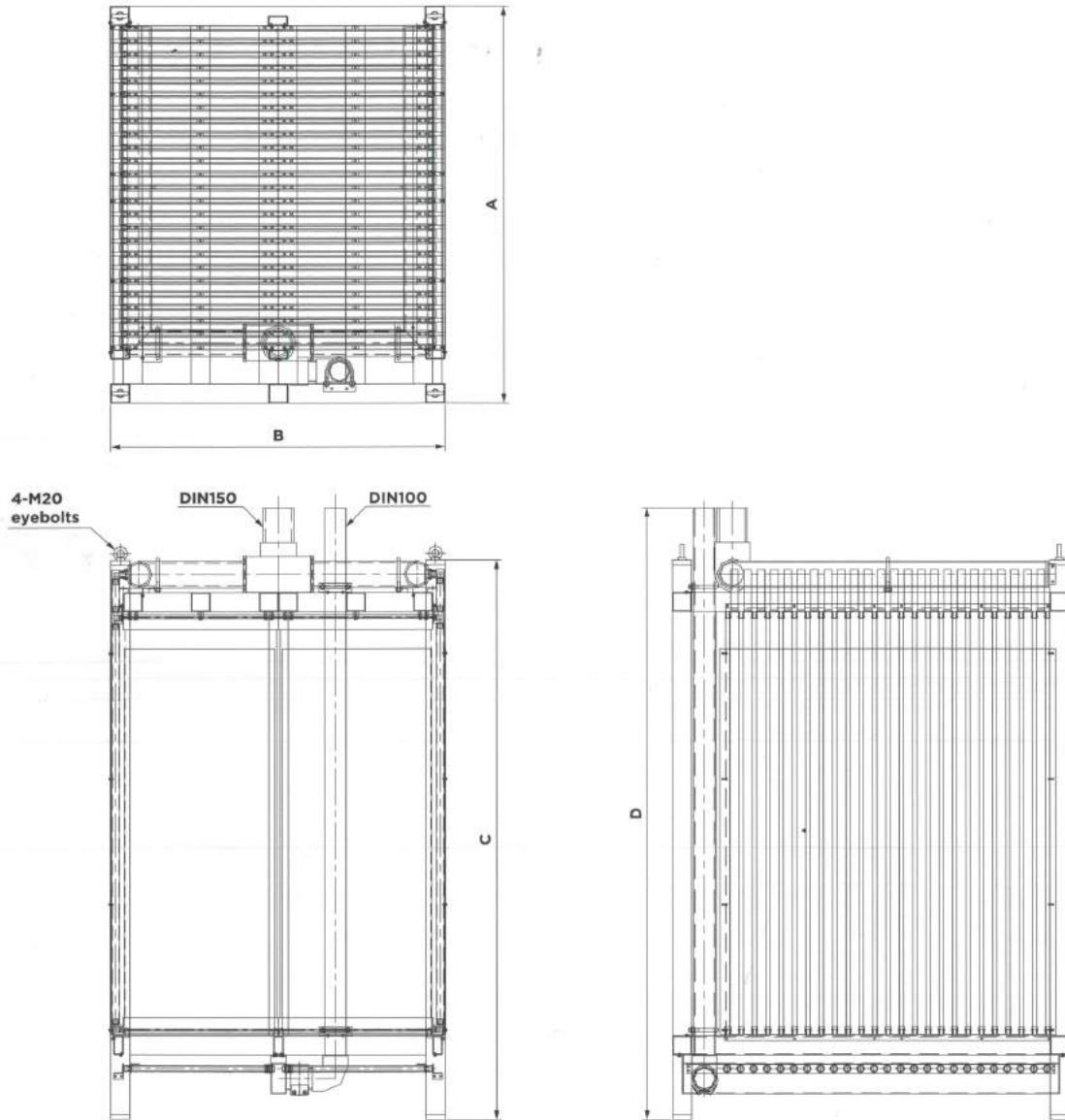
	Chemical concentration	Chemical dosage	Cleaning duration	Cleaning guideline
Target: Organic foulant	100–500mg/L NaOH + 300–3,000 mg/L NaClO (mixture)	2L/m ² + All pipes	30 min–2 hours	Every 1–2 weeks
Target: Inorganic foulant	300–3,000 mg/L HCl, H ₂ SO ₄ , Citric acid, Oxalic acid			

Out-of-tank cleaning (High concentration cleaning)

	Chemical concentration	Cleaning duration	Cleaning guideline
Target: Organic foulant	0.5–4wt% NaOH + 300–3,000 mg/L NaClO (mixture)	6–12 hours	Every 3–6 months
Target: Inorganic foulant	0.3–3 wt% HCl, H ₂ SO ₄ , Citric acid, Oxalic acid		

* Cleaning conditions vary depending on the quality of the waste water to be treated and operating conditions.

Outline Drawing



Type		Membrane area of membrane module (m ²)	Quantity of membrane modules	Cassette membrane area (m ²)	Dimensions (mm)			
					A	B	C	D
SPMW - 11B38 SPMW - 12B38	-00	38	48	1824	2084	1750	2940	3215
	-01		36	1368	1667	1750	2940	3215
	-02		24	912	1247	1750	2940	3215
	-03		12	456	667	1750	2940	3215
SPMW - 11B57 SPMW - 12B57	-00	57	48	2736	2084	1750	3960	4235
	-01		36	2052	1667	1750	3960	4235
	-02		24	1368	1247	1750	3960	4235
	-03		12	684	667	1750	3960	4235

Please contact Sumitomo Electric if you need an evaluation module.

* The POREFLON™ module and related technical information may be subject to control under the Export Trade Control Order or other regulations. In case where this module is included in your export products subject to such legal control, please note that you are responsible for following the prescribed procedure including making an application for export permission.

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