

Submerge Type POREFLON™Module

Features

[Energy saving]

The proprietary aeration system helps efficiently scour the membranes and reduces aeration energy. In addition, the large membrane surface area per projection area greatly reduces the installation space.

[Durability]

Poreflon hollow fiver that has a high tensile strength is durable against shaking and flexing allows use for extended periods.

[Compatible with a wide range of wastewater]

Stable treatment capacity is achieved even for wastewater that contains oil and refractory organic matter.

[Chemical resistance]

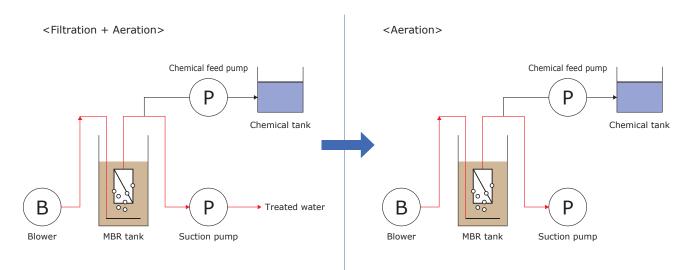
The module can be cleaned with chemicals from pH0 to 14, including high-concentration alkalis. It has a well flow rate recovery.

[Easy handling]

The PTFE hollow fibers are treated to be hydrophilic for ease of transport and installation while dry.



Standard operating conditions



Example of MBR operating conditions

MLSS	7,000~12,000mg/L
Designed Flux	0.3~0.8m/d
Filtration time	9min
Unit downtime	1min
Water temperature	20~40℃
Aeration flow rate	50~90L/min/1module (Normally, no backwash is carried out.)
Filtration amount	15ml/5min

Example of water quality

	Tolerance of row water quality	Treated water quality
CODcr	<10,000mg/L	<50mg/L
BOD	<5,000mg/L	<10mg/L
TSS	_	<1mg/L
Oil & Grease (Mineral oil)	<50mg/L	<5mg/L
Oil & Grease (Animal & vegetable oil)	<300mg/L	√3IIIg/L

Standard chemical cleaning conditions

CIP

011				
	Chemical concentration	Chemical dosage	Cleaning duration	Cleaning guideline
Target:Organic foulant	100 - 500mg/L NaOH+300 - 3,000mg/L NaClO(mixture)	21 /m²+All pinos	30 min - 2 hours	Every 1 - 2 weeks
Target:Inorganic foulant	300 - 3,000mg/L HCl, H ₂ SO ₄ , Citric acid, Oxalic acid	ZL/III-TAII pipes	30 IIIII - 2 IIOUIS	Lvery 1 - 2 weeks

H-CIP(or Offline cleaning)

	Chemical concentration	Immersion duration	Cleaning guideline
Target:Organic foulant	0.5 - 4wt% NaOH+300 - 3,000mg/L NaClO (mixture)	6 - 12 hours	Every 6 months
Target:Inorganic foulant	0.3 - 3 wt% HCl, H ₂ SO ₄ , Citric acid, Oxalic acid	0 - 12 Hours	Lvery o monuis

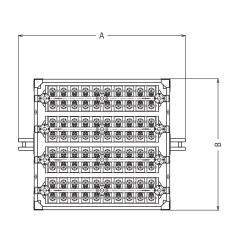
Standard Specifification List

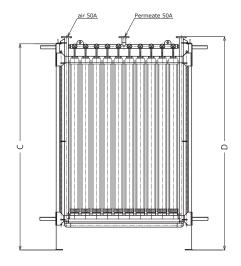
Model No.		SPMW					
		11B6	12B6	11B12	12B12		
Membrane	Nominal pore size	um	0.08	0.1	0.08	0.1	
	Inner diameter	mm	1.1	1.1	1.1	1.1	
	Outer diameter	mm	2.3	2.3	2.3	2.3	
	Membrane area	m ²	6	6	12	12	
	Material		PTFE				
	Hydrophilic treatment		Hydrophilic				
Material	Сар		ABS resin (Joint nut : SUS303)				
	Potting		Heat- & chemical-resistant epoxy resin				
	Supporting bar		SUS304				
Dimensions	Length	mm	13	00	2410		
Difficusions	Bottom section	mm	454.464				
	Filtration method		Suction filtration				
	Trans membrane Filtration		>-60kPa				
Operating	pressure	Backwash	<100kPa				
condition	Maximum temperature limit		50				
	Operating pH range		0-14				
	Cleaning pH range		0-14				

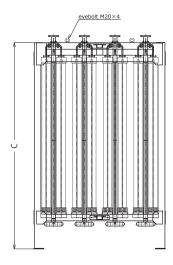
Туре		B320	B420	B320	B420
		11,12B6		11,12B12	
Quantity of membrane modules		60	80	60	80
Cassette membrane area	m ²	360	480	720	960
Dimensions	Α	2558	2558	2558	2558
	В	1554	2014	1554	2014
Differisions	С	2051	2051	3161	3161
	D	2160	2160	3270	3270
Standard frame material		SUS304		SUS304	
	Permeate	3×50A	4×50A	3×50A	4×50A
Flange	Air	3×50A	4×50A	3×50A	4×50A
	Air vent	3×50A	4×50A	3×50A	4×50A
Weight	Dry kg				
	Wet kg				

Outline Drawing

*These drawings are B420.







Specifications are subject to change without notice.

