

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 organicmatter.

[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]

MLSS

Designed Flux

Filtration time

Unit downtime

Water temperature

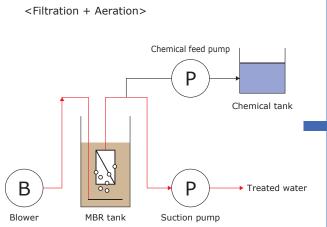
Aeration flow rate

Filtration amount

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



Standard operating conditions



Chemical feed pump P Chemical tank Chemical tank Blower MBR tank Suction pump

Example of water quality

<Aeration>

	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	< Silly/L

Standard chemical cleaning conditions

15ml/5min

Example of MBR operating conditions

0.3~0.8m/d

9min

1min

20~40°C

7,000~12,000mg/L

50~90L/min/1module

(Normally, no backwash is carried out.)

CIP				
	Chemical concentration	Chemical dosage	Cleaning duration	Cleaning guideline
Target:Organic foulant	100 - 500mg/L NaOH+300 - 3,000mg/L NaClO(mixture)	2L/m ² +All pipes	30 min - 2 hours	Every 1 - 2 weeks
Target:Inorganic foulant	300 - 3,000mg/L HCl, H2SO4, Citric acid, Oxalic acid	2L/III-+All pipes		
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 HOUIS	Lvery o months	

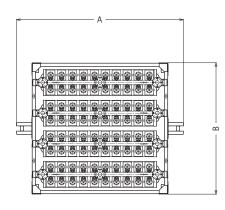
Standard Specifification List

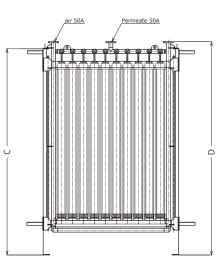
Model No.		SPMW					
		11B6	12B6	11B12	12B12		
Membrane	Nominal pore size	um	0.08	0.1	0.08	0.1	
	Inner diameter	mm	1.1	1.1	1.1	1.1	
	Outer diameter	mm	2.3	2.3	2.3	2.3	
	Membrane area	m ²	6	6	12	12	
	Material		PTFE				
	Hydrophilic treatment	t	Hydrophilic				
Material	Сар		ABS resin (Joint nut : SUS303)				
	Potting		Heat- & chemical-resistant epoxy resin				
	Supporting bar			SUS	SUS304		
Dimensions	Length	mm	1300 2410			10	
Dimensions	Bottom section	mm	154x164				
	Filtration method		Suction filtration				
Operating condition	Trans membrane	Filtration	>-60kPa				
	pressure	Backwash	<100kPa				
	Maximum temperatur	re limit	50				
	Operating pH range	9		0-14			
	Cleaning pH range		0-14				

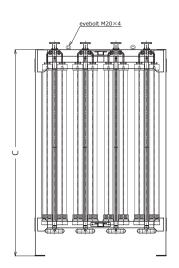
Туре		B320	B420	B320	B420
		11,12B6		11,12B12	
Quantity of membrane modules		60	80	60	80
Cassette membrane area	m²	360	480	720	960
Dimensions	А	2558	2558	2558	2558
	В	1554	2014	1554	2014
	С	2051	2051	3161	3161
	D	2160	2160	3270	3270
Standard frame material		SUS304		SUS304	
Flange	Permeate	3×50A	4×50A	3×50A	4×50A
	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.



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