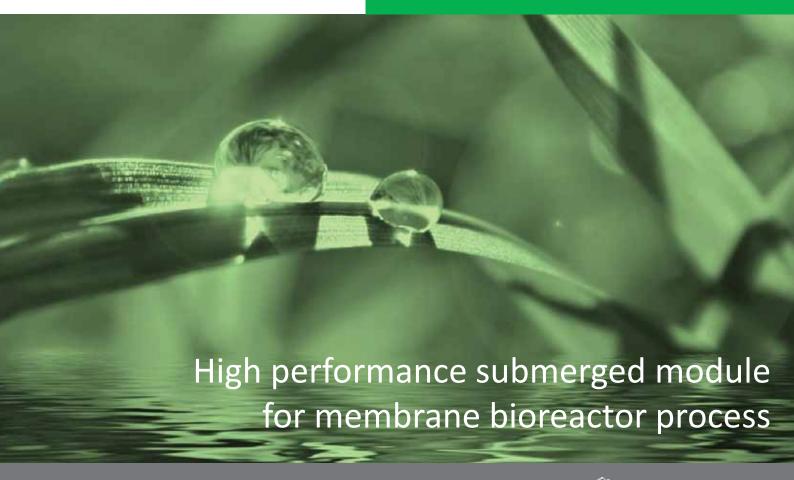
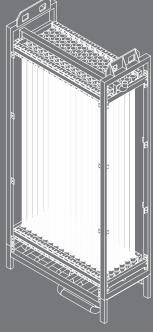
MBR wastewater treatment PVDF MF braid membrane technology

Megaflux-MBR

Submerged module for MBR process







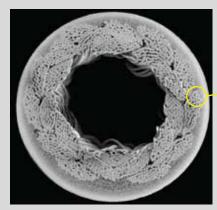
PVDF MF braid membrane & module

RCM MF

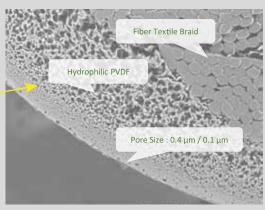
(Reinforced Capillary Membrane MF)

㈜필로스 RCM MF는 MBR공정에 최적화된 Membrane으로써, 장 기간 폭기상태에서 단사가 없는 탁월한 내구성을 자랑하며 안 정적인 여과수질을 보장합니다. 또한 Braid에 친수화 처리한 PVDF를 함침코팅하는 방식으로 제조한 RCM은 내압성 및 내구 성이 우수한 막 구조를 가짐으로써 운전시 성능복원력이 뛰어 난 Membrane 입니다

RCM MF of PHILOS is optimized for MBR process and displays high durability and stable filtered water quality even after long hours of impregnate coating hydrophilic PVDF on braid and by having high pressure resistance and durability, displays high performance



Membrane Cross Section



Membrane Cross Section Expansion



RCM MF Specification				
Membrane Material	Hydrophilic PVDF			
Support Material	Polyester			
Pore Size	0.4 / 0.1 μm			
Designed Flux	5~40 LMH			
Tensile Strength	40 ~ 50 kgf / fiber			

Membrane filtration, Water quality, CAPEX/OPEX



3가지 길이의 Element Elements of 3 length choices



처리용량에 맞는 Module 배열 Arrangement of module according to treatment capacity



Block 조합 단위 Module Block type module



Megaflux-MBR 침지식 프레임

Megaflux-MBR module

- MBR 현장 층고에 따라 3가지 길이의 Element 적용
- Element의 Block 조합으로 Module 제작
- 단위 Module을 배열하여 처리용량에 맞는 침지식 Frame 제작
- 현장 맞춤형 제작 가능(타사 침지막 교체 가능)
- Application of suitable element according to site conditions
- Module production by combining element blocks
- Submerged frame production by arranging block type modules according to
- Custom production (Can replace any conventional submerged membranes)

Megaflux-MBR features



- 현장 맞춤이 용이하며, 분해 조립이 간단한 블럭형 구조
- Convenient customization according to sites and simple assembly and disassembly with block structure
- 친수화 소재 불소수지의 PVDF braid 보강 membrane 적용
- Application of hydrophilic fluororesin PVDF braid reinforced membrane
- 최적 스폰지 구조의 membrane 적용
- Membrane with optimal sponge structure
- 효율적 aeration을 위한 산기관 장착
- Diffuser installation for effective aeration
- 슬러지 배출형 산기관 구조
- Sludge discharging diffuser structure

Expandability, Custom made, Diverse Application

Frame specification		Element Size (Ø x mm)	# of Element (ea)	Capacity (m³/d)	Module Dimension (WxLxH, mm)	
Module	Megaflux-50	46x1290	98	50	719x1068x1780	
	Megaflux-60	46x1290	126	60	719x1254x1780	
	Megaflux-100	46x1890	200	100	719x1378x2380	
	Megaflux-200	46x1890	400	200	1092x1950x2380	
	Megaflux-300	46x1890	600	300	1344x2190x2380	
Operating Condition	Max. TMP	< 400 mmHg				
	Normal Pressure	50 ∼ 200 mmHg(normal)				
	Max. Temp.	40 °C				
	pH Range	5 ~ 9 During Standard Operation / 2 ~ 12 During Cleaning				
	Filtration Cycle	5 $^{\sim}$ 7 min. on, 1 $^{\sim}$ 5 min. off (10 $^{\sim}$ 14min. On, 0.5 $^{\sim}$ 1min Backwash)				
	Chemical Cleaning	In-line Cleaning: NaOCl 300 ~ 500 ppm, twice a day Recovery Cleaning: NaOCl 3000 ppm, once 2 ~ 6 month				

Applications

- 오폐수 처리 MBR
- 신설 오폐수 처리장
- 기존 오폐수 처리장 개조
- 중수 처리 및 물 재이용
- 산업폐수 처리
- 고부가 유효물질 농축 (나노 입자, 효소 등)
- Wastewater treatment MBR
- Newly established wastewater treatment plant
- Modification of existing wastewater treatment plant
- Grey water treatment and water reuse
- Industrial wastewater treatment
- High value added material concentration
 (Nano particles, enzyme etc.)









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Benefits

- Braid MF membrane
 - • Chemically resistant PVDF
 - Optimal sponge like structure
- Outstanding expandability
 - Flexible element size selection
 - Convenient replacement
 - Block type structure

- Efficient cleaning
 - High performance recovery after cleaning
- Versatility
 - • For wastewater, greywater, sewage treatment

