

Organo phobic Ceramic membrane

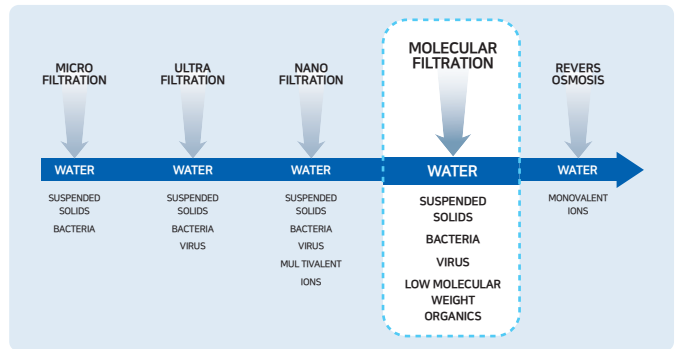
MoF-B

극성 & 비극성 물질 분리에
특화된 세라믹 막

Molecular Filtration

기능성 작용기를 코팅하여 비극성 물질을
분자량 단위까지 분리 가능한 세라믹 Membrane

- ✓ 세라믹 물질과 반응하여 Organo-metal bond를 형성
- ✓ Organophobic한 특성
 - : Hydrocarbons 같은 non-polar organic compounds를 분리
 - : Organic compounds(Oil, Lipids)를 분리
- ✓ Hydrophilic한 특성
 - : Hydrophilic organic acid molecules를
 - 다공성 세라믹 전체에 결합



Membrane 종류

Pore size	Application
1.2, 0.8, 0.5, 0.2, 0.1(μm)	- Solid-Liquid Separation - Remove Cell, Bacteria
50, 30(nm)	- Remove Cell & Protein - Remove Oil - Nano material Concentration

Channel size	Application
Small Channel 3.0, 4.0(mm)	Low Solid & Viscosity - Oily water Extraction - Fermentation Broth
Big Channel 6.0(mm)	High Solid & Viscosity - High VCF : Nano Particle - Fermentation Broth(High SS)

Application

Biotech & Pharmaceutical

Antibiotic : Erythromycin, Cephalothin, Guanosine...
Amino acid : Lysine, Glutamine, Threonin, Aspartame...
Acid : Lactic, Citric...
Enzyme, Interferon Vaccine
Vitamin : VC, VB12, VB2...

Chemical Industry

Catalyst : Recovery & Concentration
Solvent : Cleaning and Recycling
Oil : Recovery & Recycling
Polymer : Concentration
Desalination of Products : Washing Process
Oily Wastewater : Oil Rejection

Food & Beverage

Dairy : Foremilk, Buffer-Milk, Whey, Protein Standard
Alcohol : Wine, Beer, Fruit wine...
Natural Extraction : Soybean peptide...

Basic Material Industry

Nano material : Concentration & Purification
Rare metal : Concentration & Purification



MoF-B SYSTEM



주요 특징

History 기능

USB data 저장 및 과거 데이터 이력 확인

Membrane

다양한 종류의 Membrane으로 교체 가능

Semi Auto 기능

설정에 따른 자동운전, 정지

Module 호환 사용

FMX Module 구비 시 FMX 호환 사용 가능

Specification

Model	MOF-B System	Materials	
Membrane Surface Area	0.005m ²	Membrane Housing	STS304
Available Membrane	MF, UF	Piping	STS304
Maximum Pressure	5kg/cm ²		Urethane hose
Maximum Temperature	150°C	Connection	chromium plating
Variable Temperature	2°C/min	O-ring	EPDM
Holding Volume	200 mL		
Dimension (L x W x H)	0.8 x 0.8 x 0.8(m)		
Weight (Total System)	74 kg		
Utility Requirement	220V, 2P, 0.75kW		
Feed Tank	10L		
Pump Type	Diaphragm / Centrifugal		
Semi Auto Logic	Auto Stop according to Recovery & Concentration		