

www.philosmembrane.com

www.pnbr.com

www.wellspring.kr

PHILOS

COMPANY PROFILE

#B-1210, 60, Haan-ro, Gwangmyeong-si, Gyeonggi-do, Republic of Korea

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PHILOS

INDEX

01_COMPANY Introduction

- Total solution for membrane technology
- Organization
- PHILOS Introduction
- History

02_BUSINESS Model & Strengths

- Total solution for membrane & application
- R&D oriented company that produces various type of membranes & total solution
- Global partnership
- Government-aided research
- Intellectual property rights

03_FEATURES of Products

- Membrane applications
- Membrane & Modules
- Membrane system & membrane manufacturing system, evaluation system & raw material
- RCM(Reinforced capillary membrane) features.
- Megaflux-MBR Submerged MF Module for MBR Process
- Megaflux-CUF Pressure-driven UF Module for water Treatment Process
- SCAF Pressure-driven UF Module for water Treatment Process
- Master Pressure-driven UF Module for Food/Bio Process
- i-MBR in vitro(side-stream filtration) MBR Process

01_COMPANY

Vision & Introduction

Organization

Introduction of department

History

ACHIEVEMENTS

MBR Installation 1,000 Cases
Export Items 150 Cases
(Membrane manufacturing and evaluating systems)

CERTIFICATION

VENTURE
INNO - BIZ
ISO9001, 14001
Membrane R&D center
Frontier Corporation -
Certification

PATENT

Domestic Registration 55 Cases

AWARD

Korea Venture Expo Bronze Award (2004)
Gyeonggi-do Province Award(2014)

GOVERNMENT PROJECTS

- 2014 GMVP Business Center /
FOHC Business Center Government Funded Project Participation
- 2011 Ministry of Environment Global Top Sewage
Ministry of Knowledge Economy-Caustic soda
Gyeonggi-do Province-Algal bloom
removal :Korea Industrial Complex Corp.-Seawater Purification
- 2008 Ministry of Environment - International Co-development



01_COMPANY

Vision &
Introduction

Organization

Introduction
of department

History



INTRODUCTION OF DEPARTMENT

Head office, Research center and Production plant introduction

01_COMPANY

Vision &
Introduction

Organization

Introduction
of department

History

HEAD OFFICE **본사**



CENTER OF PHILOS MEMBRANE BUSINESS

- Membrane manufacturing know-how for 30 years
- Production of various type of membranes and materials
- Membrane Engineering, Technical Services and Consulting
- Domestic & overseas global network construction and business cooperation

ADDRESS

- #B-1210, 60, Haan-ro, Gwangmyeong-si, Gyeonggi-do, Republic of Korea

CORPORATE REGISTRATION NO.

- 135-81-71800

MAIN PRODUCTS

- Membranes and modules, membrane systems, research equipment, etc.

R&D CENTER **Membrane Technology Research center**



MEMBRANE RELATED MAIN TECHNOLOGY

- Membrane basis performance evaluation
- New product development

RESEARCH & DEVELOPMENT

- New technology research and development for FO/PRO/MD etc
- Government project

VARIOUS MEMBRANE PERFORMANCE & EVALUATION SYSTEMS

- Performance evaluation system for MBR, UF/MF, NF/RO
- Membrane application field process R&D and performance evaluation.
- Open Laboratory

FACTORY **Production plant**



MEMBRANE MANUFACTURING FACILITY

- Reinforced capillary ; 430,000m²/year
(200,000m³/day capacity of sewage treatment)

PRODUCTION OF VARIOUS MEMBRANE & MODULES

- Production of hollow fiber membrane and Specialty membrane
- UF/MF, MF/RO, GS, etc
- Pressure-driven, Submersible , in-vitro suction, etc
- Specialty(Dehumidify membrane, Degasifier, Bioreactor, etc)

MEMBRANE SYSTEM

- Water treatment equipment and package(Containerized) system

MEMBRANE MANUFACTURING SYSTEM

- Membrane system, Performance evaluation system, R&D system

01_COMPANY

Vision &
Introduction

Organization

Introduction
of department

History

Initial stage 2002

06 Foundation

2004

04 Selected as "Technology Innovation Company" by the government
07 Establishment of PHILOS Corporation

12 Adopted hollow fiber membrane spinning equipment, Braid reinforcement film coating equipment, Dry wet-type flat membrane manufacturing facility, Company certification "Frontier" by government, Awarded the bronze prize of the Korea Venture Company

2005

01 Registered as a government certified venture company
03 Established membrane R&D center
10 Commercialization of RCM, Reinforced Capillary Membrane

Take-off Stage 2006

01 Registered factory and extension of business at Si-wha industrial complex.

2007

03 Commercialization of Megaflux-MBR for Submersible module
08 Adopted hollow fiber membrane production facility
10 Development of i-MBR module that external circulation for water and water recycling

2010

06 Signed with Nitto-Denko company (Hydranautics U.S.A) as official agent

Growth Stage 2011

07 Relocated Gwangmyeong head office and R&D center

2012

01 Established 1st factory in An-san
06 Selected the best assessment company by Technical Assurance Fund (A Members)
07 Registration of public procurement service
10 Business agreement with KISTI as "Knowledge-mentoring"

2013

02 Certificated quality management (ISO:9001, ISO:14001)
05 Development and Commercialization of MF module Super-M of big hollow fiber Braid
07 Awarded the grand prize of Appropriate technology social enterprise festival by SK Happiness share foundation
10 Awarded the excellence award of development project by Gstep

2014

01 Established 2nd factory in An-san
08 Commercialization of Wellspring for portable water purifier

2015

01 Development and Commercialization UF module Megaflux-CUF for big storage water treatment

Globalization 2016

01 Development and Commercialization of wellspring

2017

07 Development of Dehumidify membrane and module
12 Relocation and extension of membrane factory at Dongtan



PHILOS
MEMBRANE/FILTER/SYSTEM

02_PHILOS STRENGTH

Membrane &
Application

Various membrane

Global partner

Government-aided
research

Intellectual
property right

01

Reinforced Membrane, Hollow Fiber Membrane, Flat Sheet Membrane Producing Technology

MF, UF, RO, GS membranes
10K, 30K, 60K, 0.05 μ m, 0.1 μ m, 0.4 μ m, 5 μ m

World-class membrane performance
Stable flux maintenance

30 years of membrane production know how
Membrane manufacturing core technology

02

High Quality / Efficiency Membrane System Design Production

Optimized water treatment system design
MBR, UF/MF, NF/RO, EDI system

Specialty membrane system production
Food / bio separation concentration

Lab system / performance evaluation system
Lab/Pilot scale evaluation system

03

Technical Service for Customer

Membrane technology development support
Highly efficient water treatment technology co development

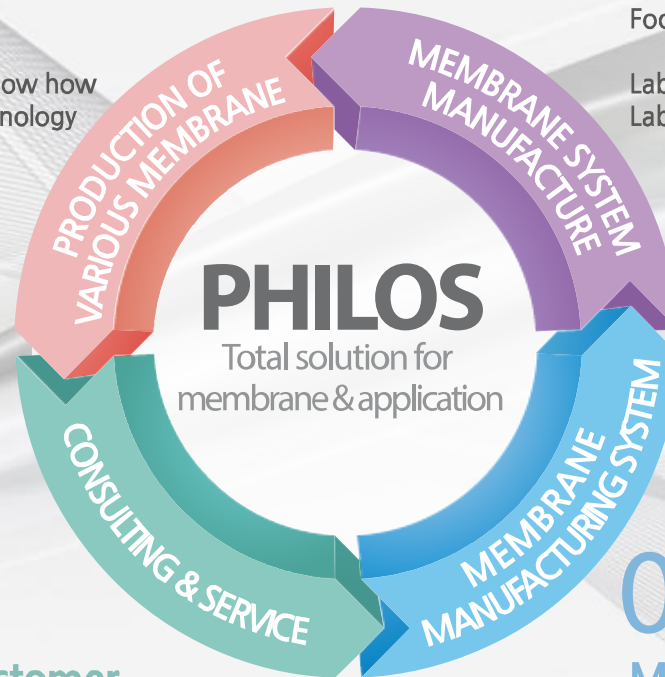
Membrane engineering technology support
Core technology training and technological marketing cooperation

04

Membrane Manufacturing System & Application Technology

Worldwide membrane researcher network
Over 20 companies from more than 10 countries

Membrane manufacturing technology R&D
Provision of raw materials for membrane production
Security maintenance through NDA
Provision of braid, non woven fabric, adhesive etc.,



02_PHILOS STRENGTH

Membrane &
Application

Various membrane

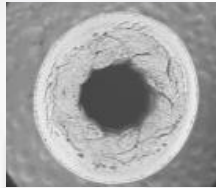
Global partner

Government-aided
research

Intellectual
property right

- Various membrane manufacturing technology & system design

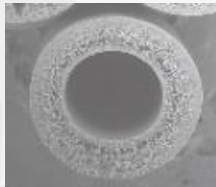
01



Highly Durable Braid Reinforced Membrane

MF(0.1 μm , 0.4 μm , 5 μm) / UF(0.05 μm)
Functional polymer pore filling membrane
Patent technology

02



Hollow fiber Membrane for water treatment & Concentration & Separation

UF(10K,30K,60K,150K)Sponge-like/Finger-like, Patent technology

03



Membrane System design

MBR, UF/MF, NF/RO, EDI system
Specialty separation system

04



Design technology of experiment and research equipment

Flat sheet, Hollow fiber membrane & module evaluation system

- Strengthen material business & domestic and overseas business cooperation

01



Various Membrane Company Alliance

OEM products, patents/ new technology
Cooperation with leading companies
Customized products according to customer needs

02



Membrane Raw Material Sales

Non woven fabric, chemicals etc.

03



Overseas Joint Venture

Establishment of overseas production plant

04



Membrane Manufacturing system / Technology Transfer

Co development with customer International network of experts

02_PHILOS STRENGTH

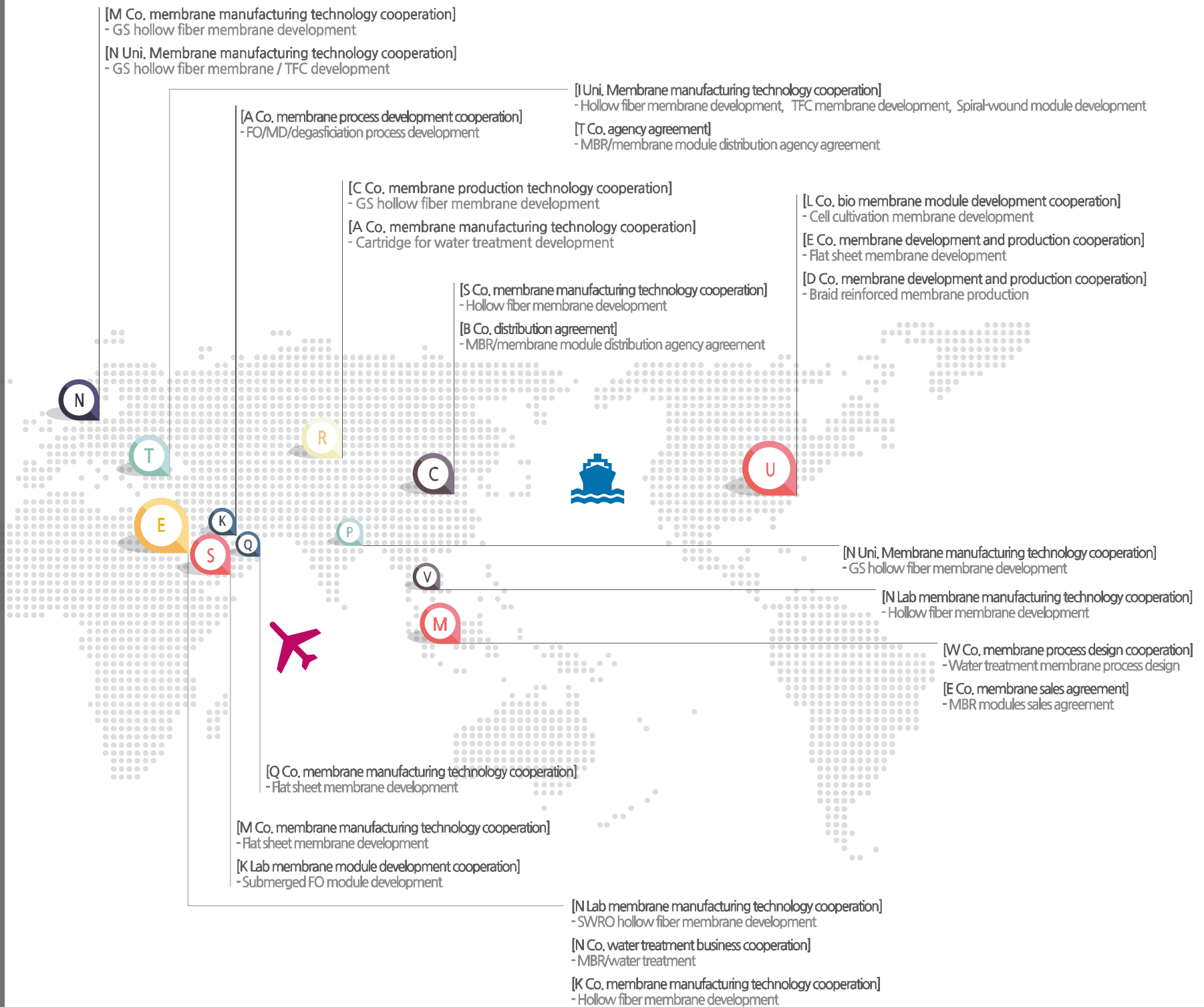
Membrane &
Application

Various membrane

Global partner

Government-aided
research

Intellectual
property right



02_PHILOS STRENGTH

Membrane &
Application

Various membrane

Global partner

Government-aided
research

Intellectual
property right

2004

Development of self clean supporter reinforced capillary filtration membrane module water treatment system technology and completing commercialization report

- Development of pressurized capillary filtration membrane module, submerged MBR module and system technology

2006

Development of degasification system with membrane

- Development of degasifier and degasification system for removing gas in water

2007

Development of various pore sizes of membrane with hydrophilic material

- Development of membrane by gaining excellent membrane materials of Hydrophilic PVDF

2011

Research on synthesis of membrane manufacturing solutions and technical development for improvement in dope formulating process

- Manufacture automatic systems, reduce the workload and improve the working environment by developing optimum material synthesis condition

2012

Development of packaged high efficiency water reuse processing facility

- Development of package water reuse processing system with use of an external cyclic membrane system which is easy to maintain and make better use of a space

2014

Development of suppression technology for lake eutrophication with use of electrolysis, elector-coagulation and fiber supported hollow fiber

- Development of low-energy/high-efficient eutrophication suppression technology by applying membrane which is gravity-filterable.

2015

Development of by-product application technology and production of herbaceous bio-ethanol by enzyme hydrolysate

- Development of SPUF membrane and process which makes possible to reuse sodium hydroxide waste solution after eliminating foreign body and recovering high value by-product

Development of reclaimed wastewater reuse process with membrane hybrid process

- 3,000ton/d wastewater reuse system buildup in Jeju Island by applying hydrophilic PVDF UF reinforced membrane and high capacity frame

Development of hybrid eco-fresh water generator unit system

- Improve efficiency of fresh water generator by perfectly eliminating mud and float substances in inflow into the seawater fresh water generator.

2016

Investigation and control biofouling and development of cleansing technology in forward osmosis-reverse osmosis process

- Deriving water quality control operation factors, predicting and controlling membrane fouling phenomena in FO-RO integrated process

2017

Development of PRO(Pressure Retarded Osmosis) module for Salinity gradient power

- Development of hollow fiber membrane and pressure-resistant module for PRO (Salinity gradient power with membrane)

02_PHILOS STRENGTH

Membrane & Application

Various membrane

Global partner

Government-aided research

Intellectual property right

PATENT

Membrane module

15 case

Membrane manufacturing

7 case

Membrane process

24 case

Total : 46

UTILITY MODEL

REGISTERED TRADEMARK

REGISTERED DESIGN

Water treatment system with hollow fiber membrane
Submerged type treatment system with hollow fiber membrane
Membrane manufacturing technology and water treatment filter module, equipment, and system
Hollow fiber membrane module
Membrane module and submergible type water treatment system
Disk type membrane module
Membrane module and manufacturing technology
Hollow fiber membrane manufacturing technology and water treatment system
Detachable membrane module and anti-contamination membrane module unit
Membrane module
Anti-contamination submergible membrane system
Air diffuser and water treatment device including it
Water purification patches, water cartridges, and portable water purifier using these
Air filters and air purifiers
Water treatment device

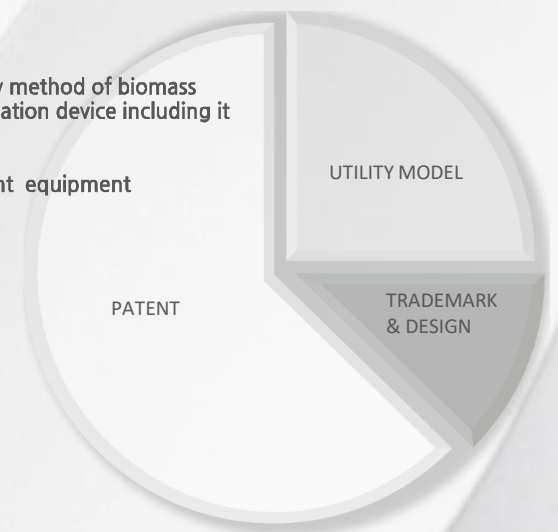
Braided coated membrane manufacturing technology
Capillary membrane support and coating technology
Functional braid membrane and manufacturing technology
Micro filter manufacturing technology and the system
Membrane and its manufacturing methods
Hollow fiber membrane for Dehumidification and Its Manufacturing Method
Hollow fiber membrane for dehumidification, using of dehumidification module and manufacturing method of dehumidification membrane module

Hollow fiber membrane and cultivation system
Algae and microorganism concentration system (marine-bio co-patent)
Gray water and rain water treatment system by side stream membrane (Samsung co-patent)
Operation process to increase membrane bio-reactor efficiency
Small scale automation water treatment system
MBR system and operating process for load variation
MBR system with gas collection unit
MBR waste water treatment for load variation
Submergible type membrane system and operating process
Waste water treatment process
Membrane cleaning process
Submergible membrane system
Membrane water treatment system
Water treatment system with submergible membrane
Water treatment system and process
Potassium iodide recovery technology and the system
Caustic soda solvent and by-product recovery device and recovery method of biomass
Hollow fiber membrane immobilization module and water purification device including it
Water treatment facility and water treatment method
Emergency portable water purifier
Membrane module for water purifier and using it Water treatment equipment
Membrane in high-efficiency cooling tower
Membrane in plume abatement cooling tower
Emergency portable membrane water purifier

Submersible type flat membrane filtration device
Flat sheet plate module
Potable water purifier

Trademark registration application of PHILOS CO.,LTD
Trademark application of wellspring

Design application of wellspring



03_MEMBRANE
& MODULE

Membrane -
Application

Membrane module

Membrane system

RCM

Megaflux-MBR

Megaflux-CUF

SCAF pressure

Master pressure

i-MBR

PHILOS MEMBRANE APPLICATIONS

Widely used in many industrial fields by various membrane material and pore size of PHILOS product



01

Wastewater treatment

Membrane bioreactor(MBR)
Water reclamation

02

Water treatment

Drinking water
Industrial or ultrapure water Desalination

03

Food/Bio Applications

Concentration / Separation
Fermentation / Cell culture

04

Chemical applications

Pervaporation
Solvent separation / Bio refinery

05

Specialty

Membrane dryer
Fuel cell membrane (Humidifier)

PHILOS MEMBRANE & MODULE

Membrane own manufacturing of various membrane material and pore size
Submersible module for MBR to use sewage/ waste water treatment ,
Pressure-driven module for watertreatment, Production of in-vitro module for concentration and separation

03_MEMBRANE
& MODULE

Membrane -
Application

Membrane module

Membrane system

RCM

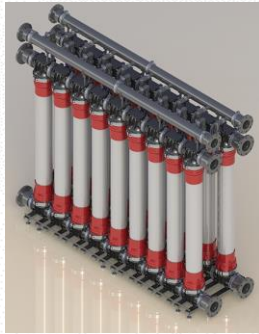
Megaflux-MBR

Megaflux-CUF

SCAF pressure

Master pressure

i-MBR



01

Water treatment

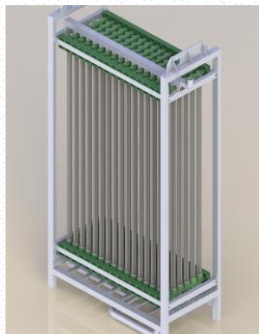
- Braid UF 0.05 μ m : Megaflux-CUF(Pressure-drive)
- Braid UF 0.1 μ m : SCAF(same as above)
- Hollow fiber UF 0.05 μ m : SCAF(same as above)
- Braid MF 5 μ m+Functional Polymer pore filling : SCAF(same as above)



02

RO

- * Biz. Alliance(Nitto Denko)
- Φ 4", Φ 8" NF/RO
- Final UF(MWCO 6K)



03

MBR

- Braid UF 0.1 μ m
- : Megaflux-superMBR(Submersible, Suction)
- Braid UF 0.4 μ m
- : Megaflux-MBR(Submersible, Suction)



04

Concentration/ Separation

- Hollow fiber UF 10K, 30K, 60K, 150K
- : Master(Pressure-drive, Internal pressure-driven)
- Braid UF 0.1/0.4 μ m
- : i-MBR(in-vitro, 감압흡입)



05

Home

- Hollow fiber MF 0.1 μ m, Braid UF 0.1 μ m
- : Wellspring(Gravity filtration, Suction)



06

Specialty

- All kinds of membrane
- : Labio(Φ 1", Φ 2" Module for test)

03_MEMBRANE
& MODULE

Membrane -
Application

Membrane module

Membrane system

RCM

Megaflux-MBR

Megaflux-CUF

SCAF pressure

Master pressure

i-MBR

Membrane System, Membrane Manufacturing System, Evaluation System & Raw Material

Provide total solution from membrane material to application technology,
Membrane system, Membrane manufacturing facilities and research equipments,
Provide from base material to subsidiary material inclusive.



01 Membrane system

Water treatment	UF/MF block(skid)+BWRO system
MBR process	UF/MF submerged / in vitro system
Water reuse	Pressure-driven / Submerged UF/MF(+ BWRO system)
Desalination	Pressure-driven / Submerged UF/MF+ SWRO system
DI water	UF/MF+RO+EDI+IX system
Specialty	Containerized package system(WT, MBR)



02 Membrane manufacturing facilities & research equipment

Hollow fiber membrane manufacturing	UF/MF/RO/GS membrane, Lab / Pilot / Commercial scale
Flat sheet membrane manufacturing	TFC membrane, Lab / Pilot / Commercial scale
Performance/Evaluation	UF/MF/RO/SDI/GS/FO/MD/PRO/PV



03 Chemicals & Materials

Raw materials Non-woven fabric, Braid, Adhesive, Polymer, Solvent, Additives

03_MEMBRANE
& MODULE

Membrane -
Application

Membrane module

Membrane system

RCM

Megaflux-MBR

Megaflux-CUF

SCAF pressure

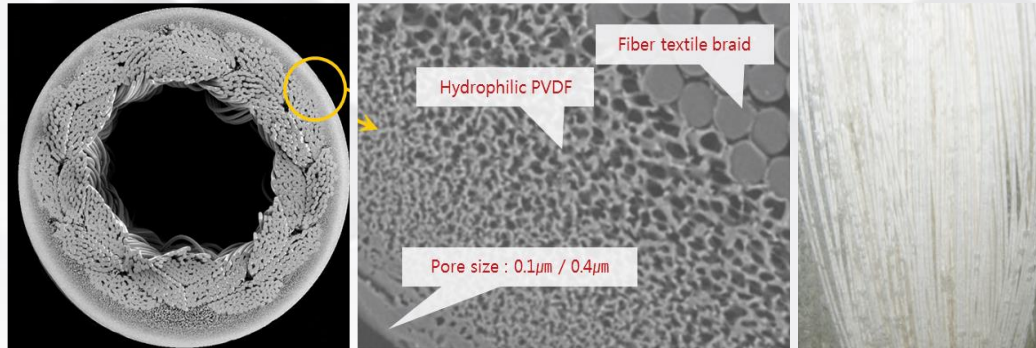
Master pressure

i-MBR

PHILOSEP RCM Features

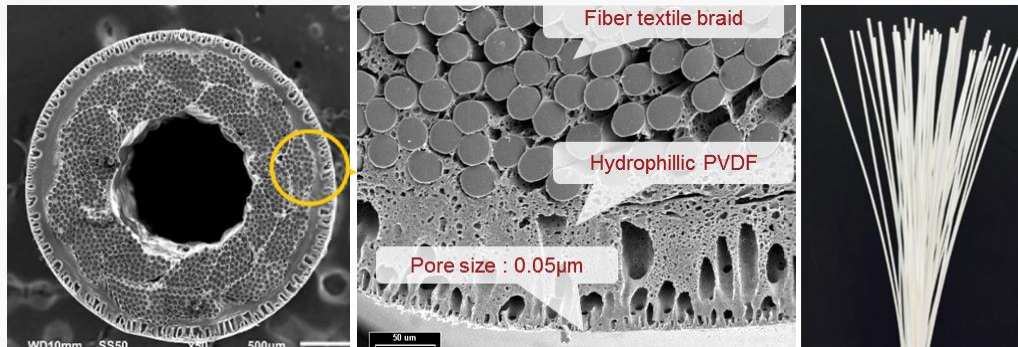
(Reinforced Capillary Membrane)

- | Used reinforced fiber braid membrane, non-breakage of membrane and highly durability.
- | No turbidity spilled due to coating system that impregnating Braid with hydrophilic PVDF with excellent chemical resistance.
- | Membrane performance does not deteriorate even with frequent chemical cleaning, and it is excellent performance over a long time period.
- | Applied to wastewater treatment MBR, water treatment and supply water, water recycling



01 RCM MF SPECIFICATION

Membrane Material	Hydrophilic PVDF
Support Material	Polyester
Inner / Outer Diameter	0.7 / 1.65mm
Pore Size	0.1 µm / 0.4 µm
Designed Flux(for MBR)	5~40 LMH(L/m ² ·hr)
Tensile Strength	40~50 kgf / fiber

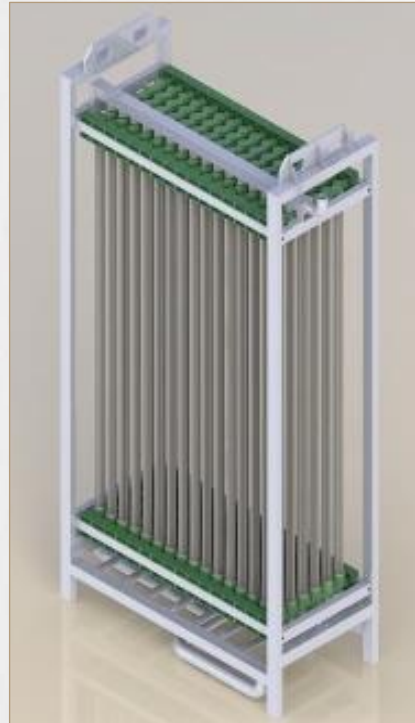


02 RCM UF SPECIFICATION

Membrane Material	Hydrophilic PVDF
Support Material	Polyester
Inner / Outer Diameter	0.7 / 1.65mm
Pore Size	0.5 µm
Designed Flux(for MBR)	40~100 LMH(L/m ² ·hr)
Tensile Strength	40~50 kgf / fiber

Megaflux-MBR Submerged MF Module for MBR Process

MBR Membrane module for wastewater treatment
After wastewater treatment or water recycling by MBR



Membrane

RCM 0.1 μm / 0.4 μm

Element

Air diffuser all-in-one type

Frame

Block assembly for easy to expand and assemble

01 Megaflux-MBR Special Features

Easy to set up in site, simply assembly and disassembly as block structure

: Possible to order-made when replacement no need to special work.

Application of hydrophilic PVDF braid reinforced memnbrane

: Excellent mechanical strength, perfectly treatment water and maintain without breakage of membrane when operating.

Appication for membrane of submersible matrial with optimal sponge structure

: Excellent restoration, keep a stably capacity of channel when long term use.

Diffuser installation for effective aeration

: Minimized membrane pollution when operating by element structure that individual air diffuser included.

Sludge discharging diffuser structure

: Solution for blockage by possible to sludge discharging open structure.

02 Megaflux-MBR Features



Selection / production at various heights accoding to site condition

R4 - Applicable to small size MBR site(Under 100 m^3/d)

R3 - Applicable to medium size MBR site (Under 500 m^3/d)

R2 - Applicable to large scale MBR site (Over500 m^3/d)



Various element composition as customer's need

Module production using height-specific elements

Possible to manufacture that customer's need and site condition



Expandability by capacity of treatment

Frame production by various size and combined module

Possible to customize without any special work

when existing submersible membrane replacement

Megaflux-CUF Pressure-driven UF Module for water Treatment Process

Large scale of water treatment / RO pre-treatment / Sewage & effluent recycling / Seawater desalination / Wastewater treatment / Manufacture ultrapure water/ Wastewater Reclamation / Supply water for boiler / Polished waste water recycling

01 Megaflux-CUF Features

COMPACT and All in one UF SKID

- UF module and skid pipes are formed of a single block.
- Skid production cost reduction and footprint more than 50% reduction.

SAFE TRANSPORTATION

- CUF modules and skid components are transported separately.
- Reduce transportation costs and minimize transportation damage.
- Reduced equipment costs on site installation.



HIGH EFFICIENT UF MODULE

- No breakage of fiber due to application of RCM UF. (Stable particle removal)
- Integrated aerator installation. (Effective aeration)

EXCELLENT EXPANDABILITY

- Series connection and parallel array arrangement.
- Reduction in installation costs.

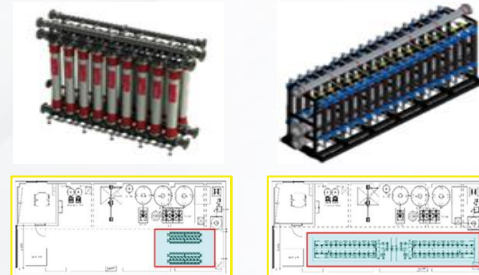
EASY MAINTENANCE

- CUF module and pipe connection using grooved joints.
- Easy assembly and disassembly when repairing and replacing modules.

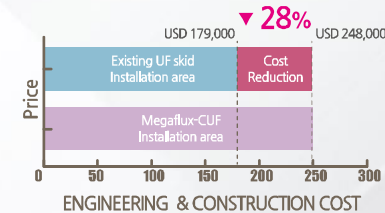
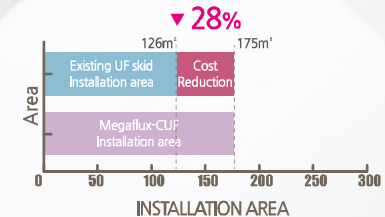
02 Comparison of conventional skid and Megaflux-CUF skid installed area(3,000m³/d Water Reuse for sewage treatment)

Items	Megaflux-CUF skid	Conventional skid
Type	Frame Type	Frame Type
Module Diameter	8 inch	6 inch
Footprint size(WxL)m	1.4x2.8(4.5m ²)	1.6xL5.5(9.0m ²)
Skid Volume	11.56m ³	25.41m ³
Amount of module	18modules(990m ²)	36modules(990m ²)

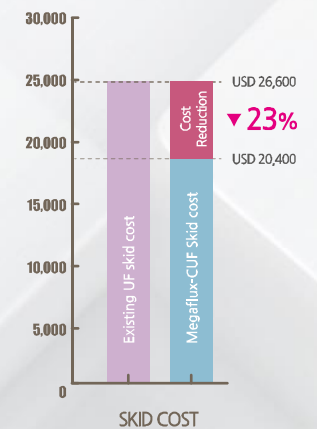
Picture & footprint area



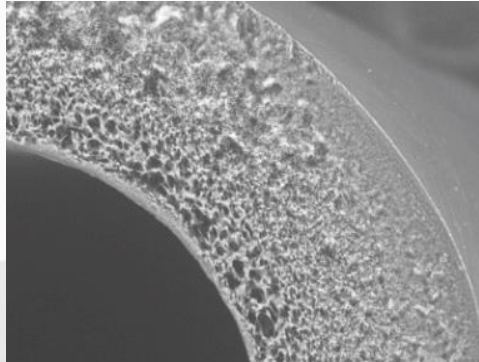
Engineering construction



Manufacturing expenses



SCAF Pressure-driven UF Module for water Treatment Process



01 SCAF Hollow fiber UF membrane module Features

UF Membrane Module

Specialization for water recycling and industrial water treatment

Filtration : External pressure-driven

Back washing : Back washing of water and chemical at the same time

Application : Water treatment, RO pretreatment, Recycling wastewater

02 SCAF6 Specification



Items		SCAF 6
Module dimension		Ø 6" x L70(inch)
Membrane area (outer surface)		30m ²
Designed flow rate per module		1.2 ~ 3 m3/hr
Major application		Water purification, Pretreatment of RO (Seawater, Surface water, Water Recycle)
Membrane dimension	Pore size OD/ID	MWCO 150,000 1.15 / 0.65
Material	Membrane Housing Sealing	Polyethersulfone PVC / ABS Polyurethane
Operating condition	Filtration type	Outside-in
	Max. TMP	< 3 kg/m ²
	Normal operating pressure	< 1 kg/m ²
	Max. temperature	40°C
	pH range	2 ~ 12

Master Pressure-driven UF Module for Separation/Concentration Process

03_MEMBRANE & MODULE

Membrane - Application

Membrane module

Membrane system

RCM

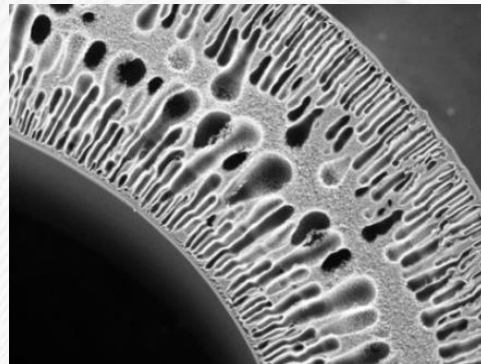
Megaflux-MBR

Megaflux-CUF

SCAF pressure

Master pressure

i-MBR



01 Master Hollow fiber UF membrane modules Features

UF Membrane Module

Specialization for water recycling and industrial water treatment

Filtration : External pressure-driven

Back washing : Back washing of water and chemical at the same time

Application : Food/ Bio separation/ Concentration/ Purification

02 MASTER6 Specification

Items		MASTER 6
Module dimension		Ø 6" x L50(inch)
Membrane area (outer surface)		10m ²
Major application		Food & Bio process, Water purification
Membrane dimension	Pore size	MWCO 10K, 30K, 100K, 150K
	OD/ID	1.3 / 0.7
Material	Membrane	Polyethersulfone
	Housing	PVC / ABS
	Sealing	Polyurethane
Operating condition	Filtration type	Inside-out
	Max. TMP	< 3 kg/m ²
	Normal operating pressure	< 1 kg/m ²
	Max. temperature	40°C
	pH range	2 ~ 12

i-MBR in vitro MBR Process

03_MEMBRANE & MODULE

Membrane - Application

Membrane module

Membrane system

RCM

Megaflux-MBR

Megaflux-CUF

SCAF pressure

Master pressure

i-MBR



01 i-MBR in vitro suction MBR module Features

MBR Membrane Module of in vitro circulatory system

Installation : Installation outside of plant MBR (※ Odor air emissions obstruction)

Chemical treatment : in-site (※ No need special treatment tank)

Applications : Water reuse treatment for a luxury building,

Processing of concentration, separation and refining for food / bio

02 i-MBR Module Specification

Items		MASTER 6
Module dimension (inch)		Ø 14" x L 80
MBR Treatment Capacity		5 ~ 15 m3/d
Major application		In vitro circulation suction type MBR Process Wastewater treatment
Membrane	Pore size	0.4 μm
	Material	Hydrophilic PVDF
Operating condition	Max. Pressure	< 400 mmHg
	Normal Pressure	100 ~ 200 mmHg
	Circulation Flow	24 ~ 30 Nm3 / Hr module
	Aeration	4m3/hr-module
	Max. temp. pH range	40 °C 2~13

Products & Technologies

행
 Happiness

Hollow Fiber Membrane Manufacturing System

Dope Formulation
Technology Transfer
Spinning
TIPS, NIPS
Potting & Cutting

Flat Sheet Membrane Manufacturing System

Spiral-wound
TFC
Coating & Casting

Membrane Manufacturing System

Systems for Feasibility Tests & Scale-up study

Membrane Performance Evaluation

Pilot Test

Membrane Permeation Cell

Laboratory and evaluation System

OEM

Materials

Non-woven Fabric Filters

Chemicals

Polymer
Solvents
Additives
Agents

Materials

Membranes and modules

SCAF
Master

Braided Reinforced Capillary Membrane

Megaflux
i-MBR

Flat Sheet Membrane

S-Disk
Platon

Domestic Purifier

Membranes and modules

UF/MF/RO/EDI

Submergible in vitro MBR

Ultra Pure Water

Seawater Desalination UF + RO

Containerized Package System

Membrane System

Total Solution