

Company Introduction

www.dfmem.com

deerfosmem@deerfos.com



DEERFOS
MEMBRANES

The "DEERFOS" name is synonymous with Trust.
Trust built on consistent quality, reliability, products,
technical advancements
and excellent customer services.

1. Company Introduction



1. Company Introduction

About DEERFOS MEMBRANES Co., Ltd.



- ▷ Name of company : DEERFOS MEMBRANES
- ▷ Foundation Date : July 1, 2011
- ▷ Add. : 6, Hangye-gil, Gadeok-myeon, Sangdang-gu, Cheongju-si, Chungbuk, Korea
- ▷ Main Product : Membrane & Module
- ▷ Website : <http://www.dfmem.com>



1. Company Introduction



History of DEERFOS MEBRANES

2009

Technology Cooperation Agreement with the
Korea Research Institute of Chemical

2010

Completely developed **PVDF Hollow-fiber** PILOT-step based
Manufacturing technology and pressurized module

2012

ISO 9001, ISO 14001 certification acquired

2013

Petition for patent

"Manufacturing-method separation-film having elevation of durability"

"Hollow fiber membrane module and preparing method theses of"

"Method of cleaning membrane module for purifying water with physical back
washing and purifying water system using the same"

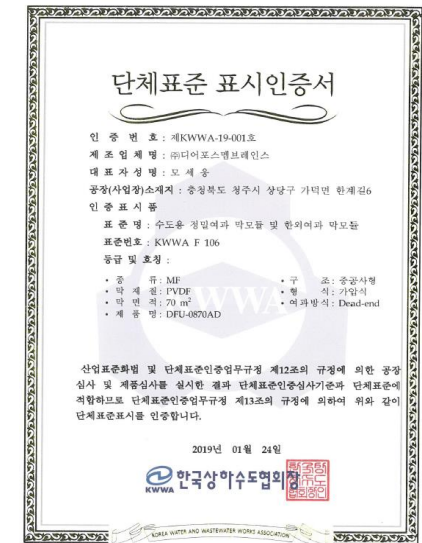
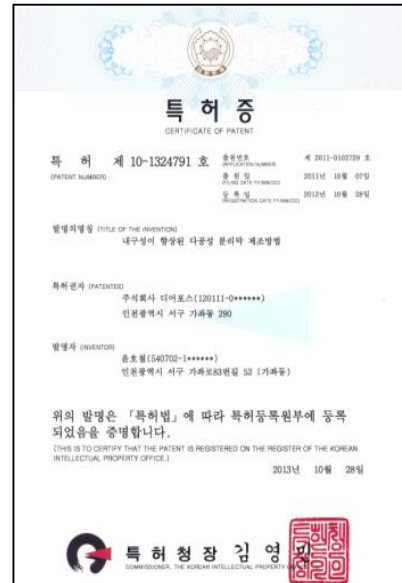
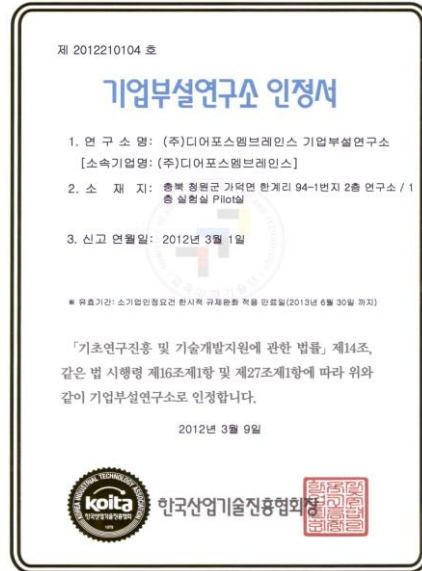
"High performance hollow fiber membrane using that and Preparing method
there of"

2014~

"**NSF(National Sanitation Foundation)" certification acquired**

"**KTP(KEPCO Trusted Partner)" acquired**

1. Company Introduction



1. Company Introduction

Field of business

Waste water

- ▷ Livestock wastewater
- ▷ Chemistry plant wastewater
- ▷ ETP recycling
- ▷ Rainwater reuse

Water Purification

- ▷ Drinking water
- ▷ Water supply facilities
- ▷ RO pretreatment
- ▷ Manufacturing Aseptic water

Separation Concentrate

- ▷ Separation, Collection of silica
- ▷ Bio, Plankton, Urea concentrate

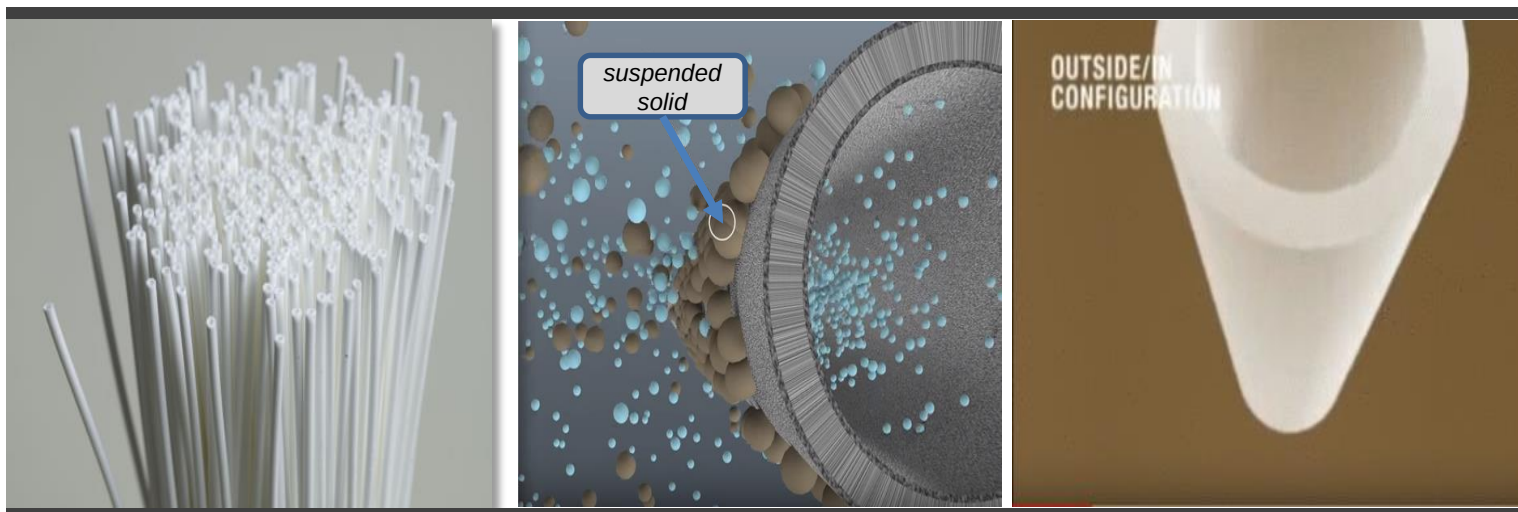
2. Technology



2. Membrane Technology

2-2. Type of DEERFOS membranes

Hollow Fiber



★ Hollow Fiber → having pores in the interior → selectively separate by internal pores.

※ Separating water from suspended solid

※ Wide surface area enables high flux.

3. Products



3.1 UF Module

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3.1 UF Module

Hollow-Fiber Membrane

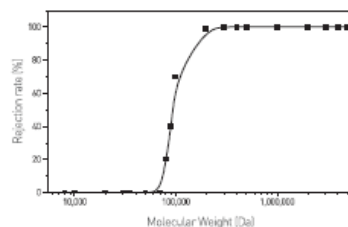


The membrane was developed by DEERFOS MEMBRANES on the basis of its own technology. It has high tensile strength and a uniform size, and completely performs the removal of micro granular particles, germs, and pathogenic microbes. Also, DEERFOS MEMBRANES introduced the system of thorough quality management including simplification of manufacturing and minimization of defect rate to produce high-quality membrane.

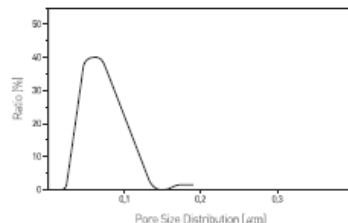
Specification of Membrane

Shape	Hollow-fiber
Material	PVDF
Nominal MWCO	150KDa or 0.07μm
OD / ID (mm)	1.3/0.7
Flow Direction	Outside-to-Inside

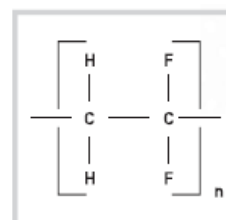
Molecular Weight Distribution



Pore Size Distribution



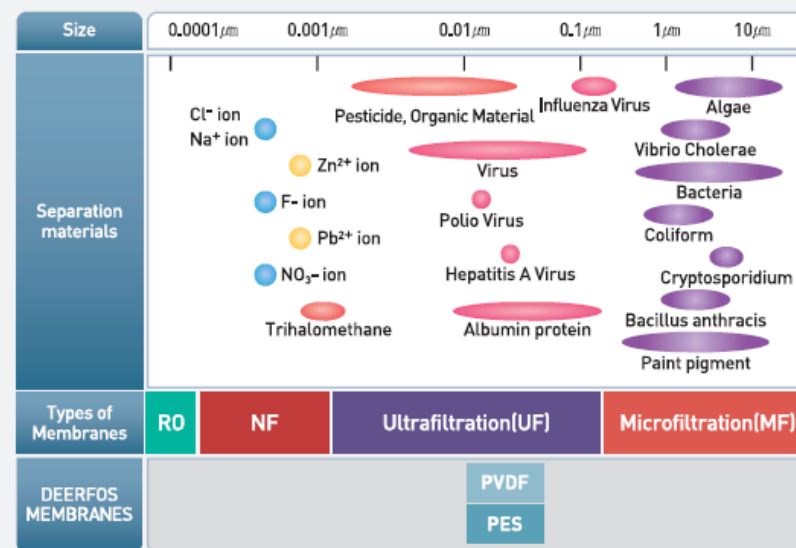
UF Membrane with sharp and uniform nominal pore size produce high quality water without adding coagulants.



Characteristics of PVDF UF Membrane

1. Stable high water quality by complete removal of virus and pathogenic microorganisms
2. High tensile strength and small in size but uniform distribution of micro-pores
3. High penetration flux enables driving at low pressure
4. Maintains physical properties even in chemical cleaning with outstanding chemical resistance

The Filtration Spectrum



Hybrid Membrane

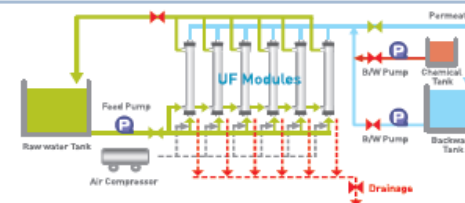
It is a membrane with high durability and high water quality.

3.1 UF Module

Hollow-Fiber Membrane Module



UF Membrane Filtration Process



Specification of UF Module

UF MODULE	DFU-0407D	DFU-0830D	DFU-0850D	DFU-0852P	DFU-0860S
Effective Surface Area (m²)	7	30	50	52	60
Designed Flux (m3/hr)	0.2 - 0.7	1.2 - 3.0	2.0 - 6.0	2.0 - 6.2	2.2 - 6.6
Dimensions (D×Hmm)	90 x 1,230	200 x 1,475	200 x 2,155	200 x 2,155	200 x 2,155
Hollow-Fiber Membrane Material	PVDF				PES
Pore size	0.07µm			150KDa	100KDa
Housing Material	UPVC				
Potting Material	Polyurethane + Epoxy				
Gasket Material	NBR				
Weight(water filled/empty) (kg)	15/ 8	50/ 25	70 / 40		80/ 50
OPERATING CONDITIONS					
Max. Inlet Pressure (kPa)	300				
Max. Operating TMP (kPa)	200				
Max. Temperature (°C)	40				
pH Range (Operating)	2 - 9				
Flow Direction	Outside-to-Inside (외향식)				
Filtration Method	Dead-end & Cross-flow				
Filtrate Turbidity (NTU)	< 0.1				



Designed flux varies depending on feed water quality, or system design. Please consult DEERFOS Membranes for details.

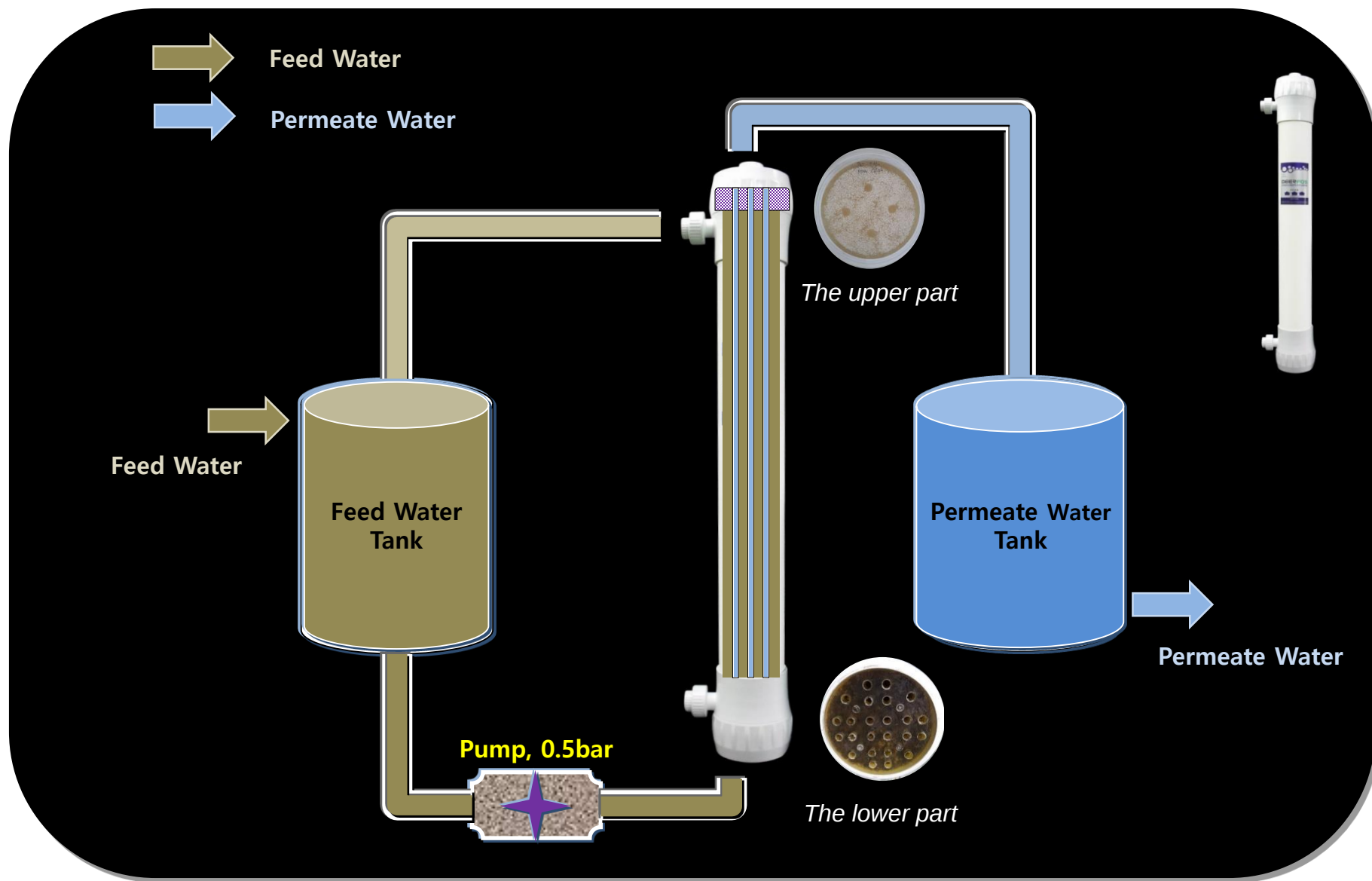
Specification of UF Module

DFU-0830AD	DFU-0850AD	DFU-0870AD	DFU-0870AP	DFU-0870AS
30	50	70	73	71
1.2 - 3.6	2.0 - 6.0	2.8 - 8.4	2.9 - 8.7	2.6 - 7.8
		216 x 2,275	216 x 2,275	
PVDF			PES	
0.07μm			150KDa	100KDa
UPVC				
Polyurethane + Epoxy				
NBR				
60 / 40	90 / 60	110 / 70	110 / 70	110 / 70
OPERATING CONDITIONS				
300				
300				
40				
2 - 9				
Outside-to-Inside (외향식)				
Dead-end or Cross-flow				
< 0.1				



Designed flux varies depending on feed water quality, or system design. Please consult DEERFOS Membranes for details.

3.1 UF Module



3.1 UF Module



DEERFOS MEMBRANES Module TEST Skid : FLUX, PDT, leakage TEST

3.2 Water Treatment Sys.(D-CUBE)



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Trust Built on Consistent Quality Reliability Products,
Technical Advancements And Excellent Customer Services.

Water Treatment System catalog

D-CUBE

**DEERFOS
MEMBRANES**

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3.2 Water Treatment Sys.(D-CUBE)

DEERFOS
MEMBRANES

CONTENTS

01 DFC-U Series
River, Lake, Underground water etc.
→ Drinkable water

02 DFC-R Series
River, Lake, Underground water etc.
→ Drinkable water, Pure water

03 DFC-M Series
Sewage, Effluent, Waste water
→ Discharge, Industrial reuse

04 DMS Series
River, Lake, Underground water etc.
→ Drinkable water

Benefits

Why **DEERFOS Water Treatment System?**
The system offers many advantages when compared to conventional treatment methods.



Flexible

In addition to standardized models in this catalog, we provide customized skids based on some conditions such as water qualities, purposes, capacities and requests from end-users.



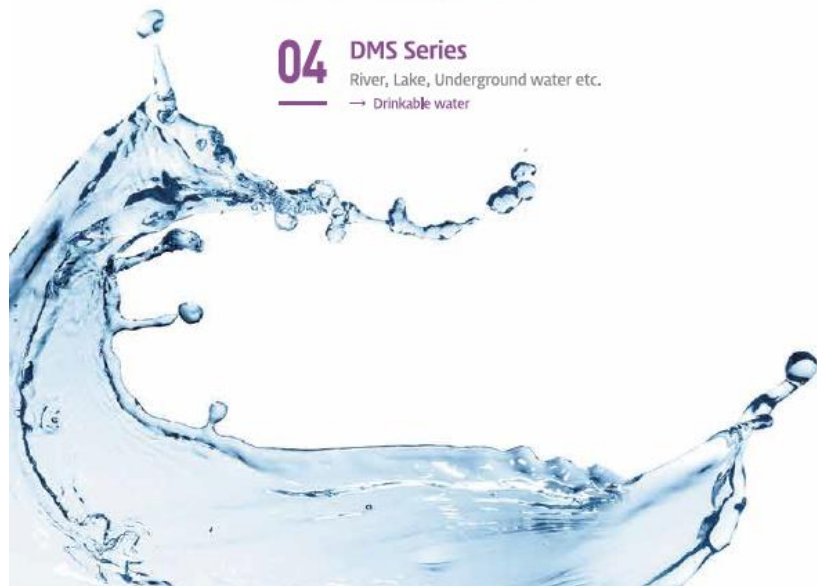
Cost-effective

DEERFOS MEMBRANES offers various models per each type. These options bring the benefits such as avoiding overspecialization. We promise to give customers adequate solutions with reasonable prices.



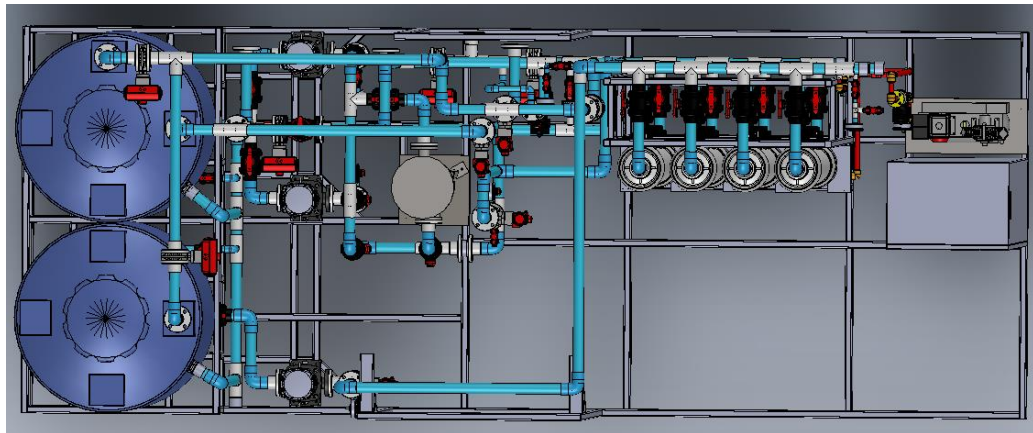
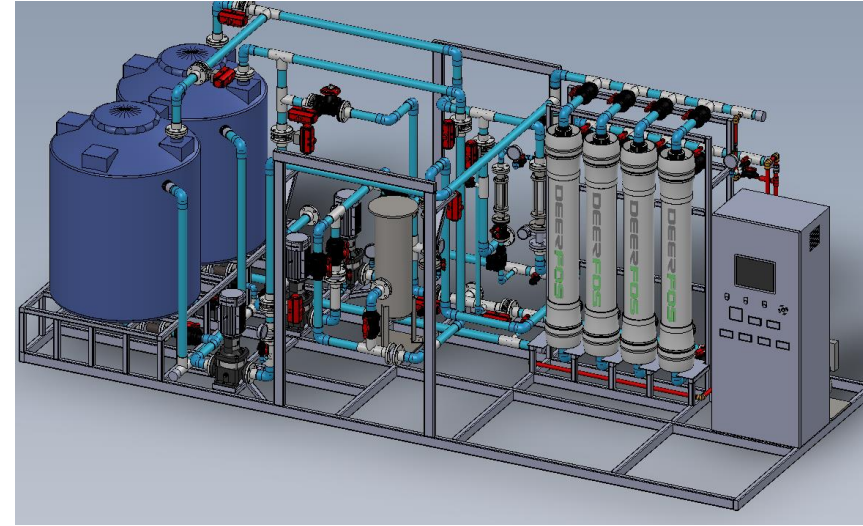
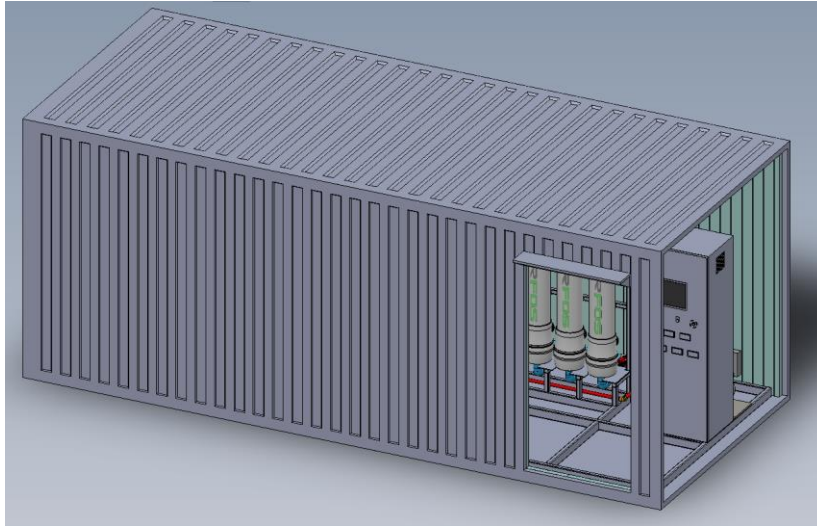
Packaged system

Through containerized and independent system with relatively small footprint, it is space-efficient. Also, the system can be remotely controlled and monitored by mobile phone network.



3.2 Water Treatment Sys.(D-CUBE)

3.2 Container Skid for drinking water

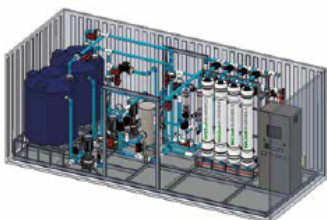


20ft Container Skid

- Size : 6m(L) X 2.45m(D) X 2.65m(H)
- Full Automatic Operation
- Remote Control with P.C or Smart Phone
- Applying UF 4ea modules, 200m³/day
- Providing to 1000 people per day

3.2 Water Treatment Sys.(D-CUBE)

DEERFOS MEMBRANES



Product Description

DFC-U series is a pressure-driven membrane separation process. It removes suspended or particulate matters such as colloids, dirt, dust, bacteria and micro-organism from feed water.

Key Application Areas

- Drinking water
- Rain water reuse
- R/O pretreatment

System version

※ At the request of customers, we can manufacture other models besides follow models.

Type	Model	Capacity	Characteristics
Economical (DFC-UE)	DFC-UE4	4m ³ /hr	1. Semi automatic operation 2. Economical price
	DFC-UE8	8m ³ /hr	
	DFC-UE12	12m ³ /hr	
	DFC-UE16	16m ³ /hr	
	DFC-UE20	20m ³ /hr	
Standard (DFC-US)	DFC-US4	4m ³ /hr	1. Automatic operation 2. Process data on touch screen 3. Adjustable process value
	DFC-US8	8m ³ /hr	
	DFC-US12	12m ³ /hr	
	DFC-US16	16m ³ /hr	
	DFC-US20	20m ³ /hr	
Premium (DFC-UP)	DFC-UP4	4m ³ /hr	1. Full automatic operation 2. Remote control with P.C / Smart Phone 3. Automatically record & analyze water quality
	DFC-UP8	8m ³ /hr	
	DFC-UP12	12m ³ /hr	
	DFC-UP16	16m ³ /hr	
	DFC-UP20	20m ³ /hr	

DFC-U Series



Inlet water quality	
Turbidity	< 100 NTU
SS	< 100 mg/L
Oil & Grease	< 1 mg/L

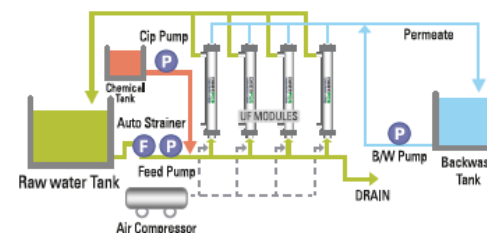
Source : River, Lake, Rain water,
Underground water

Permeate water quality	
Turbidity	< 0.1 NTU
SS	< 0.1 mg/L
Bacteria	Undetectable

Application : Drinking water, Tap water,
Reusing for industrial process

Operating conditions	
pH / Temperature	2 ~ 9 / 5 ~ 40℃
Recovery rate	> 90%
CIP chemicals	NaCl < 3,000 ppm, Citric acid 1%

UF system diagram



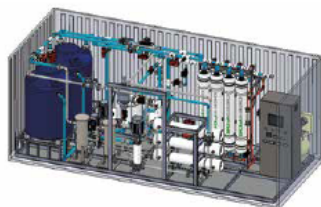
Option (based on water quality)



3.2 Water Treatment Sys.(D-CUBE)

DEERFOS MEMBRANES

DFC-R Series



Product Description

DFC-R series is suitable for the removal of ions and salts as well as suspended matter, bacteria, viruses, colloids, heavy metal and microorganism. This systems produce ultra pure water.

Key Application Areas

- Pharmaceutical, semiconductor, food and other industrial applications
- Brackish water, underground water
- Secondary effluent reuse plant

System version

※ At the request of customers, we can manufacture other models besides follow models.

Type	Model	Capacity	Characteristics
Economical (DFC-RE)	DFC-RE2	2m ³ /hr	1. Semi automatic operation 2. Economical price
	DFC-RE4	4m ³ /hr	
	DFC-RE6	6m ³ /hr	
	DFC-RE8	8m ³ /hr	
	DFC-RE10	10m ³ /hr	
Standard (DFC-RS)	DFC-RS2	2m ³ /hr	1. Automatic operation 2. Process data on touch screen 3. Adjustable process value
	DFC-RS4	4m ³ /hr	
	DFC-RS6	6m ³ /hr	
	DFC-RS8	8m ³ /hr	
	DFC-RS10	10m ³ /hr	
Premium (DFC-RP)	DFC-RP2	2m ³ /hr	1. Full automatic operation 2. Remote control with P.C / Smart Phone 3. Automatically record & analyze water quality
	DFC-RP4	4m ³ /hr	
	DFC-RP6	6m ³ /hr	
	DFC-RP8	8m ³ /hr	
	DFC-RP10	10m ³ /hr	



Inlet water quality	
TDS	< 2,000 mg/L
Turbidity	< 100 NTU
SS	< 100 mg/L

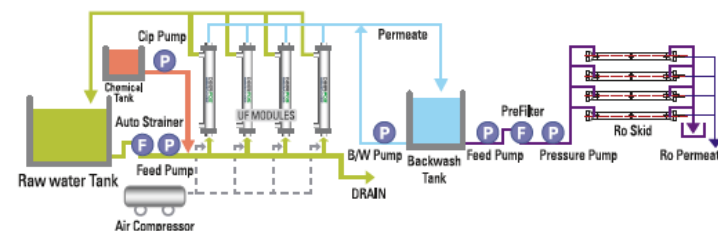
Source : Secondary effluent, brackish water, Surface water etc.

Permeate water quality	
TDS	< 100 mg/L
Turbidity	< 0.1 NTU
SS	< 0.1 mg/L

Application : Drinking water, Ultrapure water
Reusing for industrial process

Operating conditions	
pH	6 ~ 9
Temperature	5 ~ 40℃
Chemical options	1. Microbial inhibitor 2. Antiscalant 3. SBS

UF+R/O system diagram



Option (based on water quality)



AC filter
• Organic matter
• Color
• Odor, etc.



Birm filter
• Heavy metals
• Iron
• Manganese, etc.



Softener
• Hardness materials
• Calcium
• Magnesium, etc.

3.2 Water Treatment Sys.(D-CUBE)

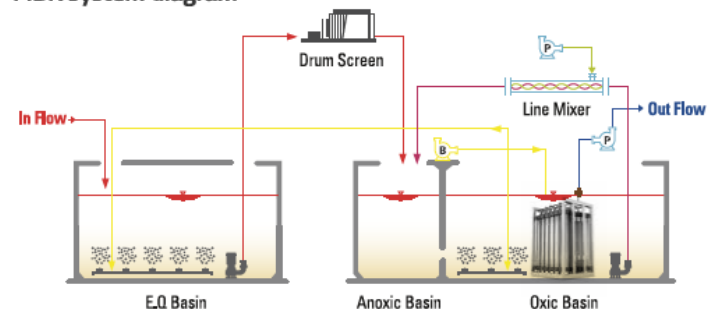
DEERFOS MEMBRANES

Product Description

DEERFOS MEMBRANE is the leading company of MBR technology. Membrane bioreactors combine activated sludge treatment with a membrane liquid-solid separation process. Therefore, it reduces both the cost and space requirements of conventional treatments



MBR system diagram



System version ※ At the request of customers, we can manufacture other models besides follow models.

Type	Model	Capacity	Characteristics
DFC-SM (20ft)	DFC-SM100	100m ³ /day	- Containerized system equipped with only membrane system [except bioreactor] - Improved permeate water quality through membrane - Easy to install and maintain
	DFC-SM200	200m ³ /day	
	DFC-SM300	300m ³ /day	
	DFC-SM400	400m ³ /day	
	DFC-SM500	500m ³ /day	
Type	Model	Capacity	Characteristics
DFC-FM (20ft)	DFC-FM10	10m ³ /day	- Containerized system equipped with MBR System [Bioreactor + Membrane system] - Simple water treatment system for difficult construction sites
	DFC-FM20	20m ³ /day	
DFC-FM (40ft)	DFC-FM50	50m ³ /day	
	DFC-FM100	100m ³ /day	

DFC-M Series



DFC-SM Series	Inlet water quality	Permeate water quality
SS	-	< 1 mg/L
BOD	< 20 mg/L	< 10 mg/L
COD	< 40 mg/L	< 20 mg/L
E-coli	-	99% removal

Source : Sewage, Industrial waste water
Application : Effluent quality for discharge or reuse

DFC-FM Series	Inlet water quality	Permeate water quality
SS	< 200 mg/L	< 1 mg/L
BOD	< 200 mg/L	< 10 mg/L
COD	< 250 mg/L	< 20 mg/L
T-N	< 40 mg/L	< 20 mg/L
T-P	< 4 mg/L	< 2 mg/L
E-coli	-	99% removal

Source : Sewage, Industrial waste water
Application : Effluent quality for discharge or reuse

Operating conditions	
pH / Temperature	6 ~ 9 / 0 ~ 40°C
TMP	< 0.4 bar
MLSS	< 10,000 mg/L
CIP chemicals	NaCl < 3,000 ppm, Citric acid 1%
Operation	12min operation, 3min stop

Benefit



Effective treatment

DEERFOS MBR system maximize treatment of BOD & SS. In addition, it is possible to remove T-N & T-P by putting coagulants to return sludge.



Optimized solutions

MBR system models are selectable depending on new & existing site.



Small footprint

Installation & start up costs are reduced by compact designing. And, it is easy to maintain.

3.2 Water Treatment Sys.(D-CUBE)



3.3 MBR Module

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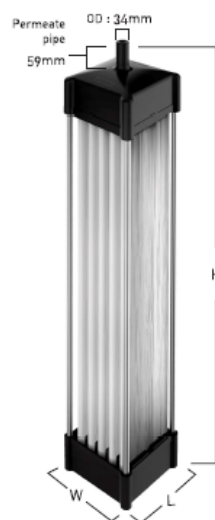
3.3 MBR Module

DEERFOS MEMBRANES Submerged module

The DEERFOS MEMBRANES' submerged product is developed as high strength uniform membranes entirely by our own technology which fully removes finer solid particles, germs, intestinal parasites. We are producing high-quality membranes through the specialized manufacturing process and the stringent control procedures.

DEERFOS Submerged Module Element

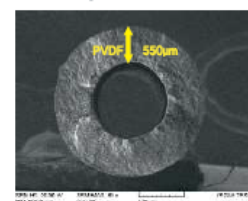
Items	DFX-813	DFX-820	DFX-830
Effective Area	13 m ²	20 m ²	30 m ²
Dimension W*L*H (mm)	222 * 222 * 940	222 * 222 * 1,400	222 * 222 * 1,900
Membrane Configuration	Hollow fiber		
Membrane Material	PVDF		
Membrane Nominal Pore size	0,1 μm		
Membrane Fiber OD / ID	2,2 mm / 0,9 mm		
Design Flux	0,3 ~ 1,2 m ³ /m ² ·day		
Module Housing Material	ABS		
Module Potting Material	Epoxy + Urethane		
Operation			
Operating TMP	0,05 ~ 0,4 bar		
MLSS	3,000 ~ 12,000		
pH	2 ~ 10		
Operating Temperature	5 ~ 40 °C		



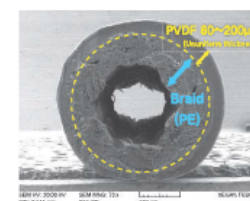
The Advantages of DFX hollow fiber

The Advantages of hollow fiber

1. Stable operation



DEERFOS single layered membrane



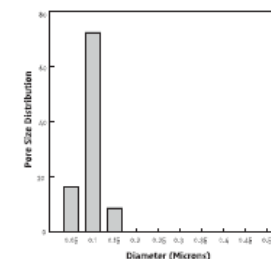
PVDF braid-reinforced membrane

Structure
Comparison

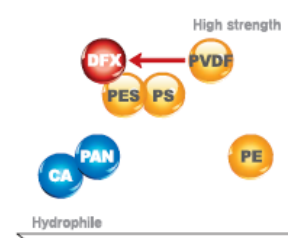
- A. DEERFOS single layered membrane is uniform in thickness (550µm) and thicker than braid-reinforced membrane. These characteristics not only increase efficiency for filtration, but also eliminates the problem of strong backwash.
- B. DEERFOS single layered membrane has a high PVDF content, which results in a significant increase in chemical resistance.

2. High selective permeability

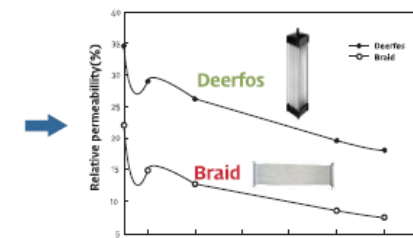
- A. Even in highly turbid sewage, High permeability FLUX retention
- B. 1.5 times higher flux than conventional composite membrane
- C. Clear water permeability FLUX : More than 600 LMH



3. Improved antifouling and water permeability through enhanced hydrophilic



DEERFOS single layered membrane



Higher flux than braid-reinforced membrane

Advantages of module

Square housing
→ Minimizing Dead-space

Detachable easily
→ Convenient maintenance

Effective Aeration
→ Reducing Aeration and maintenance free

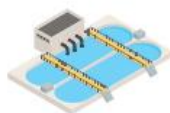
3.3 MBR Module

Submerged module Application



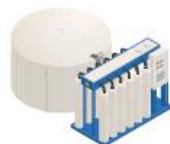
• Industrial wastewater treatment field

Organic wastewater treatment
Livestock, manure wastewater treatment
Electronic, leachate wastewater treatment



• Sewage treatment field

Municipal wastewater treatment
Individual Sewage Treatment
Septic tanks combined with membrane



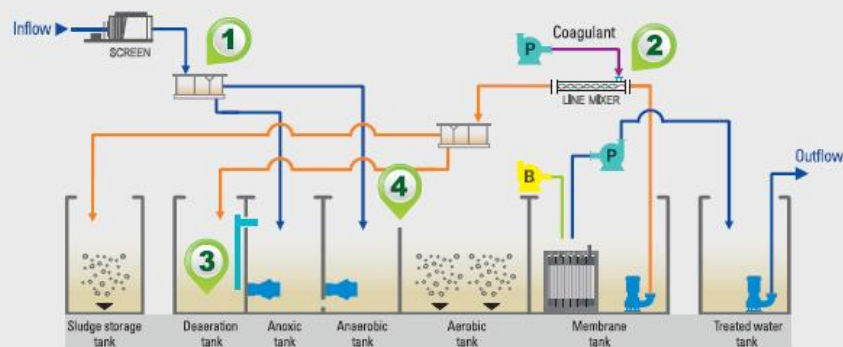
• Water reuse field

Rainwater reuse facilities
Wastewater reuse facilities
Waste Water reclamation and reusing system



Design flux can vary depending on feed water or system design basis.

Submerged MBR Process (DF-MBR)



Advantages of DF-MBR

1

Dividable influent flow

Influent flow is divided into anoxic tank and aerobic tank as different ratio according to quality of the raw water. So, This process will maximize the effect of the T-N and T-P removal.

2

Dosed coagulant into return line

This process will maximize the sludge thickening and the effect of the T-P removal.

3

Efficient DO control

Deaeration tank placed in front of the anoxic tank will improve DO reduction effect, reduce the stress of the micro-organism, and maximize the effect of the T-N removal.

4

Efficiently organized reactor

It flows from deaeration tank to aerobic tank through anoxic tank without pressure flow maximize the process not to be needing internal recycle. (Reduction of CAPEX and OPEX)

Efficiency

Description	Inflow	Permeate water		
	Average	Water criteria	Average	Efficiency (%)
BOD	200,0	< 10	< 5,0	98,5
COD	250,0	< 40	< 10,0	96,0
SS	200,0	< 10	< 1,0	98,5
T-N	40,0	< 20	< 18,0	55,0
T-P	6,0	< 2	< 1,5	75,0
E-coli	200,000	< 3,000	N.D	100,0

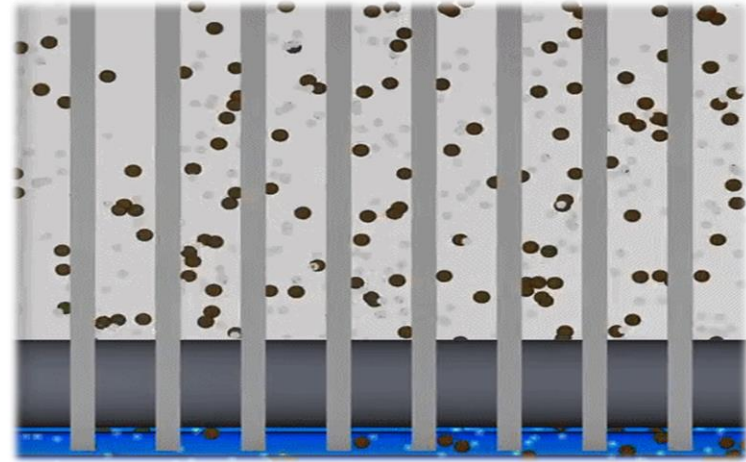


3.3 MBR Module

Submerged module



Filtration



※ DEERFOS MEMBRANES' submerged module system is based on MBR Processing

MBR (Membrane Bio Reactor) : Biological treatment + Membrane filtration (Submerged membrane)

1. Very effective to remove T-P (**Total Phosphorus**) & T-N (**Total Nitrogen**) as well as organic matter & suspended solids
2. Discomposing organic matter of feed water by **aerobic microbes**

4. Reference



4. Reference



- Pretreatment for Seawater Desalination (Test Skid)
- Power Plant (Philippines)
- Capacity : 240m3/day
- Purpose : Seawater desalination (R/O pre-treatment)



KEILCO
1200 MW Ilijan Combined Cycle Power Plant
Batangas City, The Philippines

Certification of Test

KEPCO ILIJAN CORPORATION

Brgy. Ilijan, Batangas City
TEL: +63-43-425-6500 FAX: +63-43-425-6527

KEPCO Ilijan Combined Cycle Power Plant Seawater Desalination System

1. Facility Name: DEERFOS MEMBRANES' UF Water Treatment Module
2. Classification : Pretreatment of desalination
3. Installation Location : KEPCO ILIJAN CC Power Plant, Batangas City, The Philippines

4. Specification for Test :

① System design capacity	12m ³ /hr					
② Operational capability	5m ³ /hr					
③ Installation date	05. 13. 2014 ~ 05. 15. 2014					
④ Operation Period	05. 15. 2014 ~ 11. 21. 2014 (6 months)					
⑤ Applied Product	DEERFOS MEMBRANES' UF Module (DFU-0850AD)					
⑥ Possession of technology	DEERFOS MEMBRANES Co., Ltd.					
⑦ Monthly DATA report for test operation period (average value in six months)						
Month	Raw water Temperature (°C)	Filtrate Flux (m ³ /hr)	Operating pressure (bar)	Water quality Turbidity (NTU)		
				Raw water	Pretreatment	UF Filtrate
05. 2014	23.2	5.6	0.3	< 5 ~ 14	0.2	0.02
06. 2014	22.7	5.3	0.3		0.3	0.03
07. 2014	21.8	5.5	0.3		0.5	0.03
08. 2014	22.1	4.9	0.2		0.4	0.04
09. 2014	21.5	4.9	0.2		0.6	0.04
10. 2014	21.5	4.8	0.3		0.5	0.04
11. 2014	21.0	4.5	0.3		0.3	0.04
Average	22.0	5.0	0.3		0.4	0.03

* Attachment : DEERFOS MEMBRANES' UF Module Operating DATA ----- 1ea

5. Applicant : DEERFOS MEMBRANES Co., Ltd.

would request to confirm it operated as above.

Date : 21-NOVEMBER-2014

CEO : SE-Woong Mo

6. Authorized by : KEPCO Ilijan Combined Cycle Power Plant

confirms the operation as stated above.

Date : 24-NOVEMBER-2014

Vice-President & Plant Manager : Hwa-Yeon Hwang

4. Reference



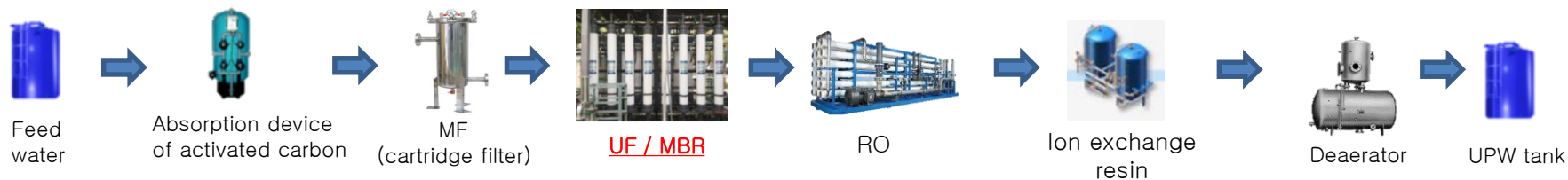
Chemical

Country: KOREA

Industry Type : Chemicals

Capacity : 3,000 m³ /day

Application : Pure water to use river



4. Reference

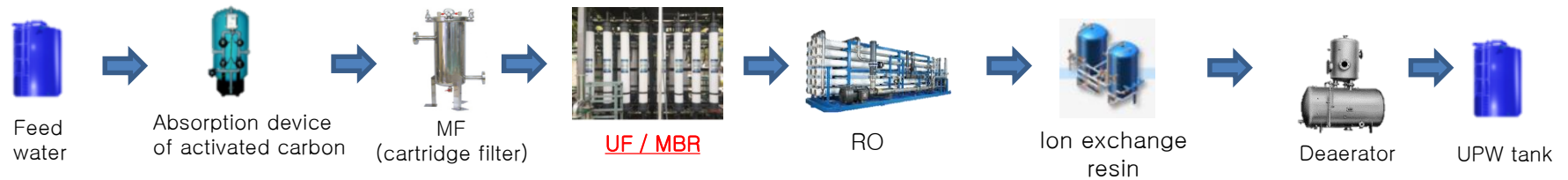


Display

Country: KOREA

Industry Type : Display

Capacity : 1000m³ /day



4. Reference



Semiconductor



Country: KOREA

Industry Type : Semiconductor

Capacity : 400 m³ /day

Application : Pure water for product line

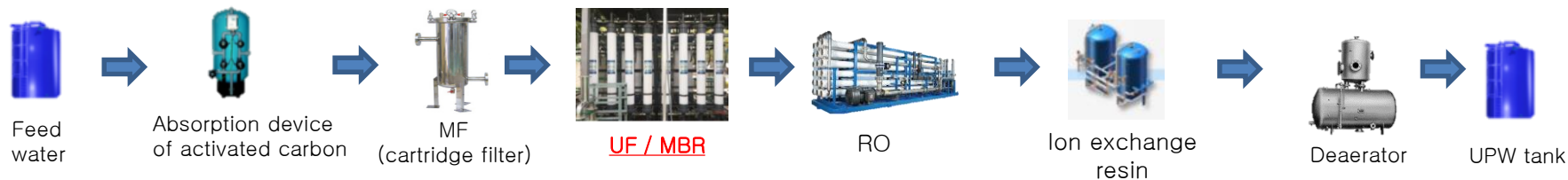


Country: KOREA

Industry Type : Semiconductor

Capacity : 360 m³ /day

Application : ETP(Effluent treatment plant) Recycling



4. Reference



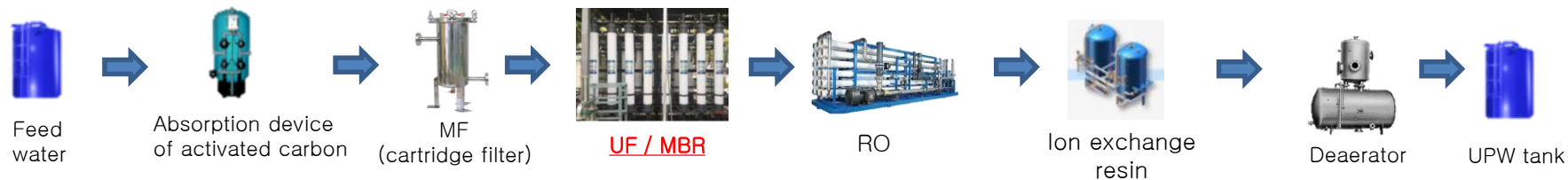
Steel

Country: CHINA

Industry Type : Steel

Capacity : 11,000 m³/day

Application : Pure water for Production line



4. Reference



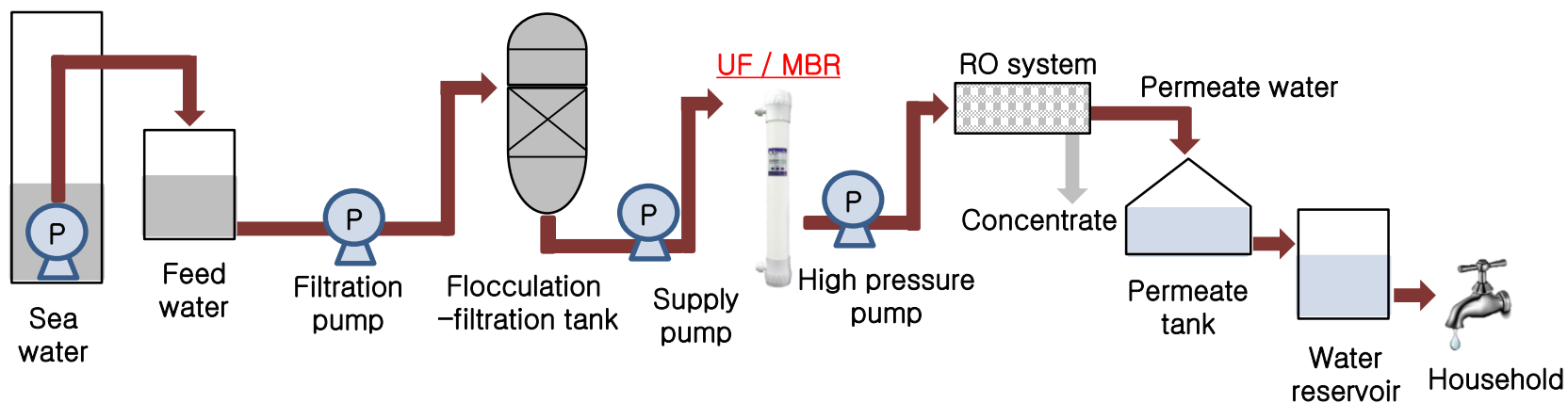
Power plant

Country: Philippines

Industry Type: Power Plant

Capacity : 2400m³ /day

Application : Seawater desalination (R/O pre-treatment)



4. Reference



Textile

Country: INDIA

Industry Type : Textile

Capacity : 1,000m³/day

Application : Textile Dye recycling



ETP



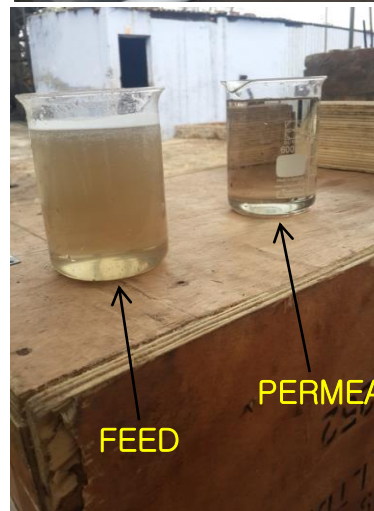
MGF



ACF



UF / MBR



4. Reference



- Water Purification Plant (Indonesia)
Capacity : 6300m³/day
Purpose : Water Purification for drink



4. Reference



Located in CHINA

Purpose : Pretreatment
of RO

Capacity : 3,000m³/day



4. Reference



- HD Paper (China)
Capacity : 1,920m³/day
Application : ETP Recycling
Industry Type : Paper



4. Reference



- Bio XXX (Korea)
Capacity : 1,200m³/day
Application : Ultra-pure water
Industry Type : Bio



4. Reference



– GUDING Chem. (China)

Capacity : 480 m³ /day

Application : Concentration &
Separation

Industry Type : Chemical

4. Reference

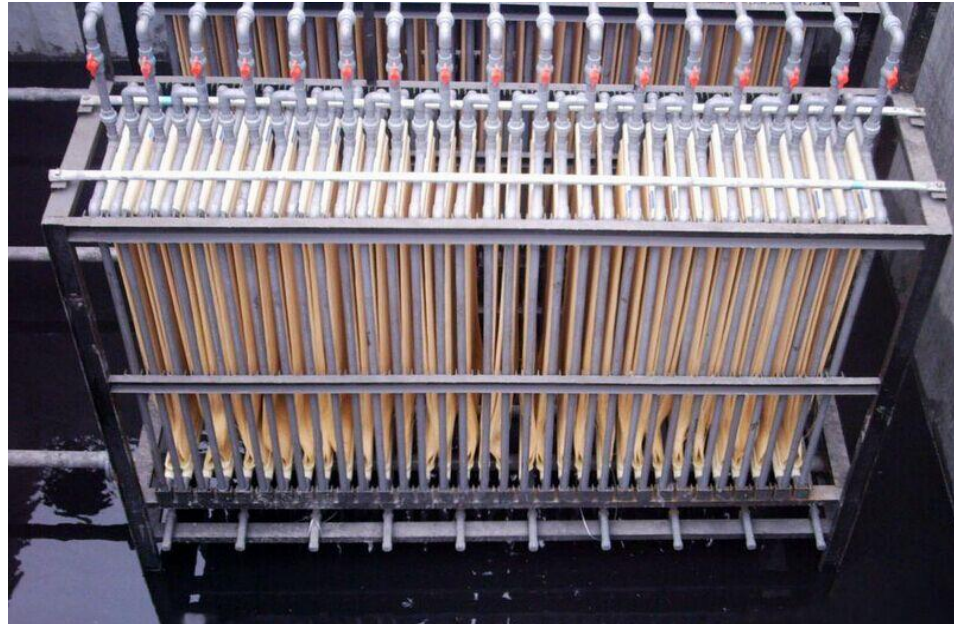


– MANDA Pharm. (China)

Capacity : 150m³/day

Application : ETP

Industry Type : Pharm.



4. Reference



Indonesia, Food Factory

Capacity : 300m³/day

Application : wastewater



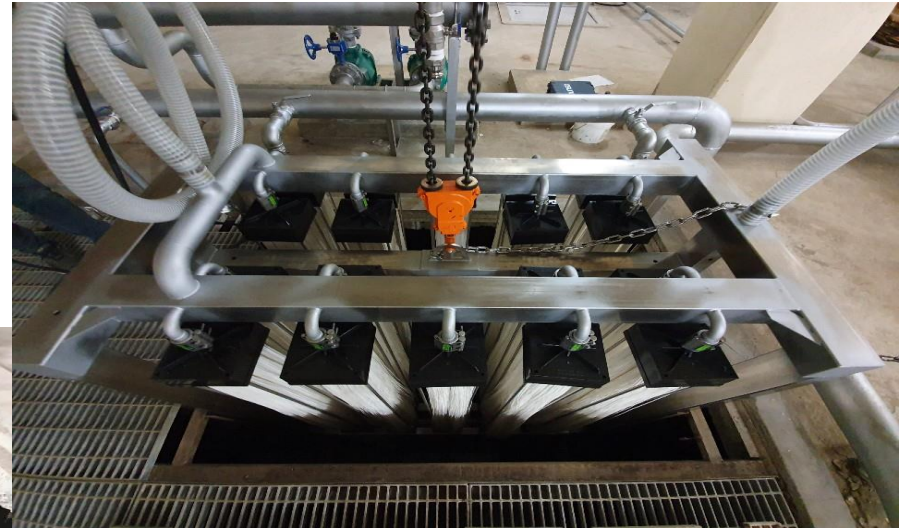
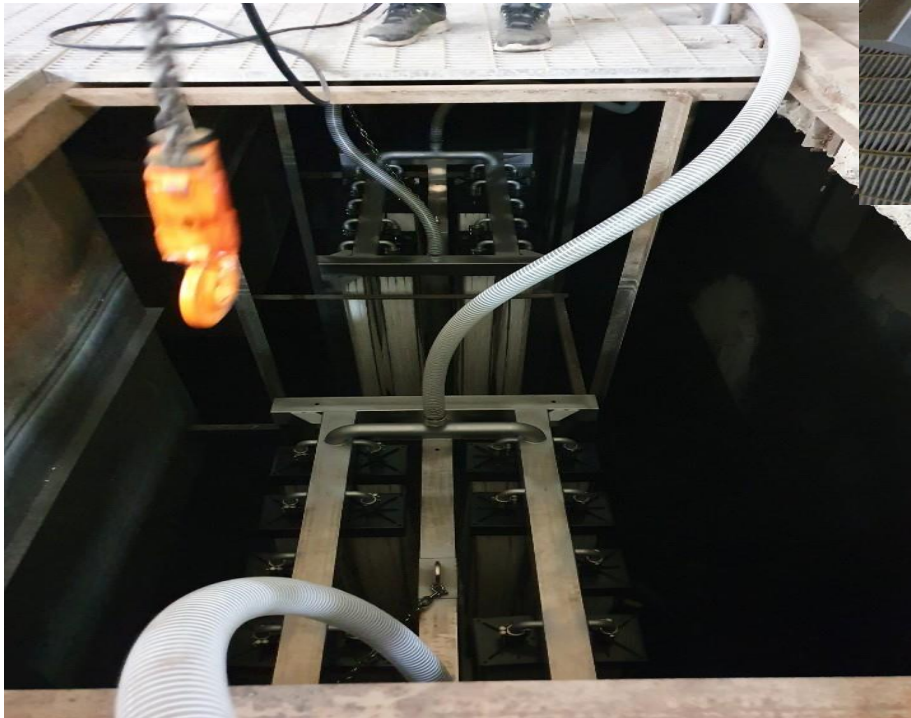
4. Reference



Hotel.

Capacity : 200m³/day

Application : sewage



4. Reference



Resort.

Capacity : 800m³/day

Application : sewage



4. Reference



D metal factory

Capacity : 85m³/day

Application : wastewater



< D metal factory >

4. Reference



D Hospital

Capacity : 120m³/day

Application : wastewater



4. Reference



E Hospital

Capacity : 120m³/day

Application : wastewater



4. Reference



I Hospital

Capacity : 100m³/day

Application : wastewater



4. Reference



Distribution Center

Capacity : 300m³/day

Application : sewage



4. Reference



Golf

Capacity : 160m³/day

Application : sewage



4. Reference



Resort

Capacity : 160m³/day

Application : sewage



4. Reference



IKEA

Capacity : 900m³/day

Application : sewage



4. Reference



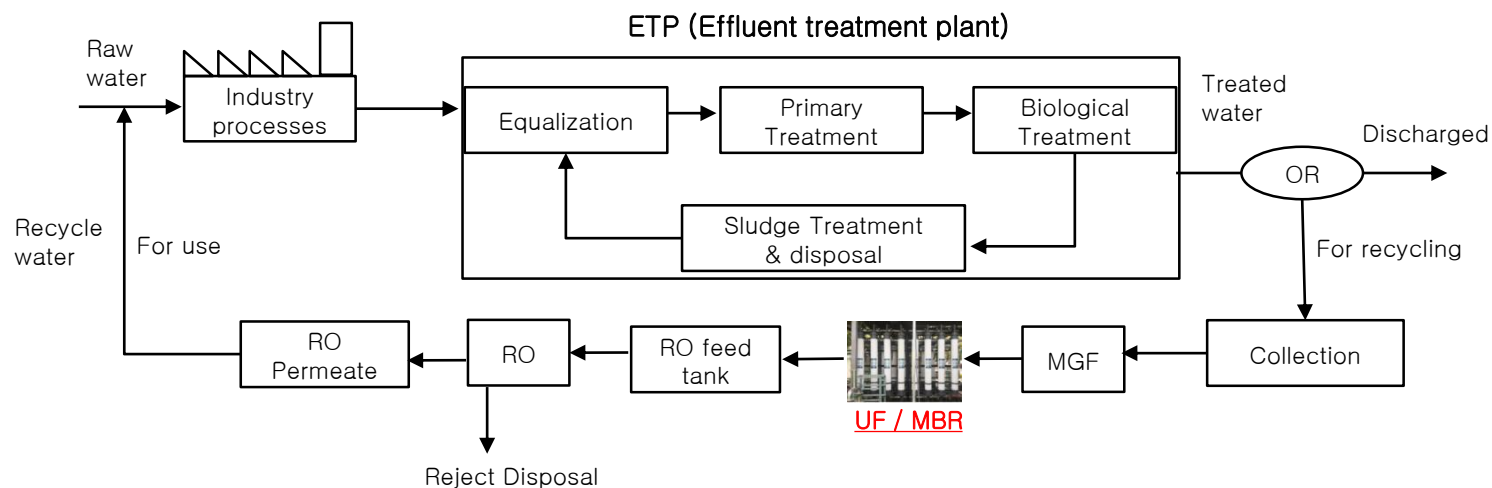
Auto

Country: INDIA

Industry Type : Auto

Capacity : 1000m³/day

Application : ETP(Effluent treatment plant) Recycling



4. Reference



Industry : Omaxe Eternity Residential Society

Capacity : 9 m³/hr .

Application: STP Recycling

Sector: Private

Treatment Scheme:

STP→ MGF→ACF→MF→UF

Application: Gardening & Flushing



4. Reference



Industry : Apollo Tyres, Chennai

Capacity : 20 m³/hr

Application: ETP Recycling

Sector: Private

Treatment Scheme:

ETP → MGF → ACF → UF

Application: Tyre Process



4. Reference



Industry : Apollo Tyres.

Capacity : 17 m³/hr

Application: STP Recycling

Sector: Private

Treatment Scheme:

STP(MBBR)→ MGF→ACF→UF

Application: Tyres Processing



4. Reference



Industry : Supreme Industries, Ludhiana

Capacity : 40 m³/hr

Application: Textile ETP Recycling

Sector: Private

Treatment Scheme:

ETP → MGF → ACF → UF

Application: Textile Processing



4. Reference



Industry : Ireo India,

Capacity : 30 m³/hr

Application: STP Recycling

Sector: Private

Treatment Scheme:

ETP → MGF → ACF → UF

Application: Housing Society



4. Reference



Industry : Parmeshwari

Industries Unit-2

Capacity : 8 m³/hr

Application: ETP Recycling

Sector: Private

Treatment Scheme:

ETP → MGF → ACF → UF

Application: Textile

Processing



4. Reference



Industry : Asian Electro(Bisleri Water).

Capacity : 8 m³/hr

Application: ETP Recycling

Sector: Private

Treatment Scheme:

ETP → MGF → ACF → UF

Application: Process



4. Reference



Industry : Gujrat Organics Pvt. Ltd.

Ankleshwer

Capacity : 09 m³/hr

Application: ETP Recycling

Sector: Private

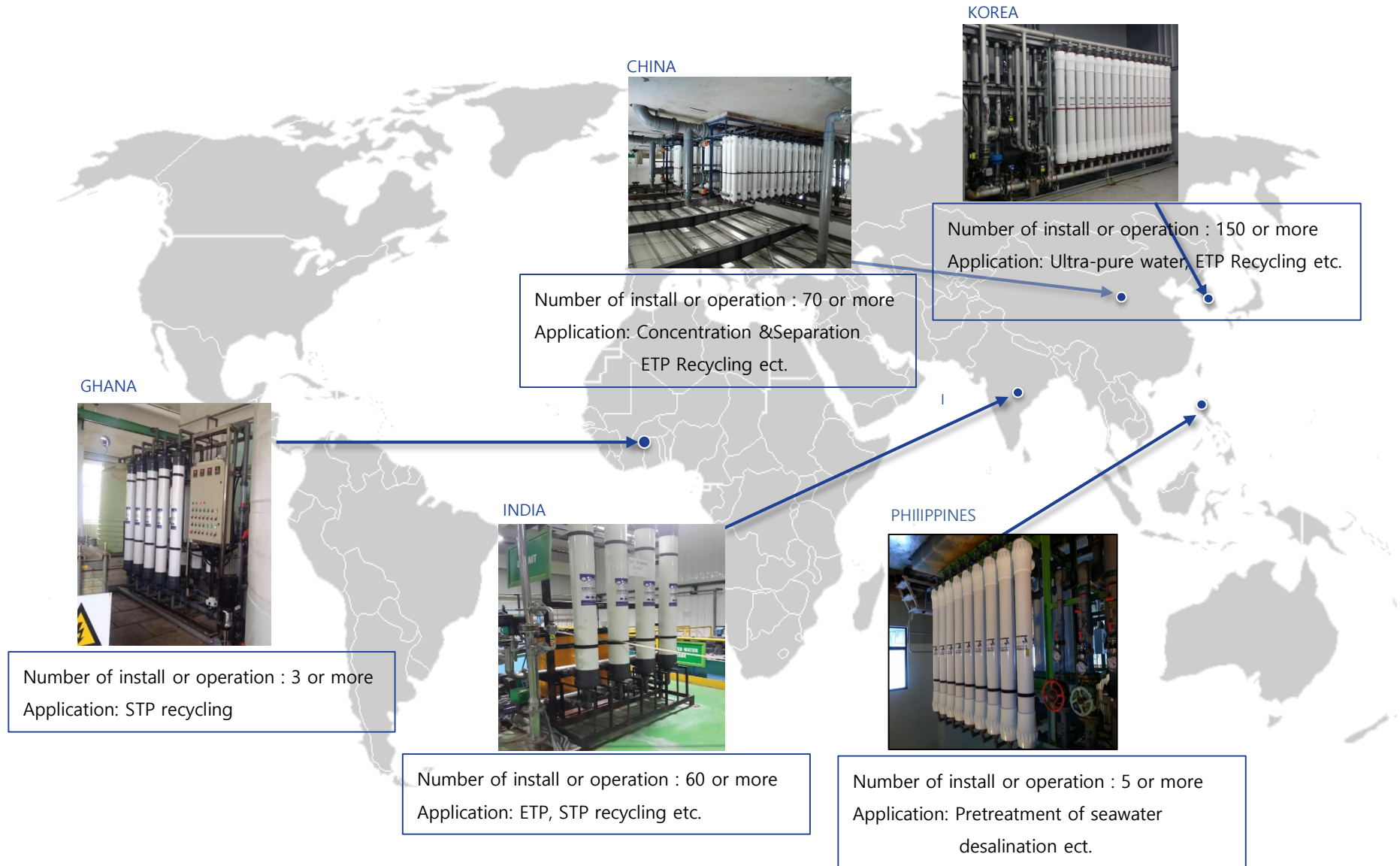
Treatment Scheme:

ETP → MGF → ACF → UF

Application: Process



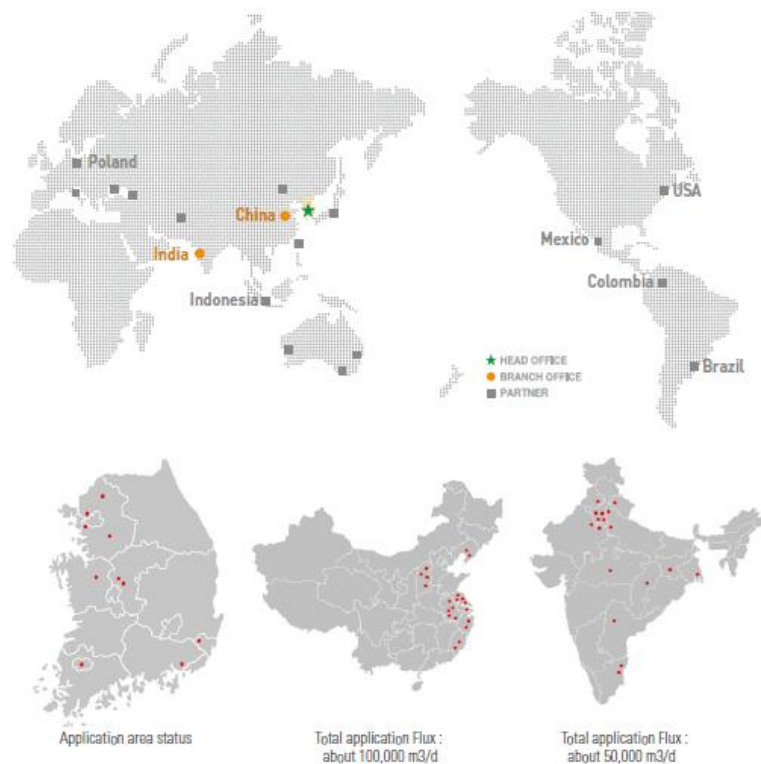
4. Reference



5. Branch & Certification

Application of Domestic and Oversea branch

DEERFOS MEMBRANES, located in Cheong-Ju, South Korea, is working together with two membrane manufacturers and many partners all over the world.



DEERFOS MEMBRANES
Cheong-ju



DEERFOS MEMBRANES
HANGZHOU



KAICO DEER
INDIA

Certification



Thank you



www.dfmem.com

deerfosmem@deerfos.com