Advancedmembrane technologyfortrulyclean waterandclearerair

Onesip.Onebreath. Smallmomentsshaping thefutureofcitiesandlife

Lowerenergy,higherefficiency Settinganewstandard forsustainablefiltration

MembraneSolutions

Environmental Separation Membrane Solutions

TechnologyThatDrivesChange

WhatIsMembraneFiltration?

InvisibleProtection ReliablePerformance

Withinmicroscopicporestructures, Paramembranemembranespreciselyseparate fineparticles,bacteria,viruses,ions, andorganiccontaminants.

Fromwaterpurificationandairfiltration toindustrialprocesses— ourtechnologysafeguardsenvironmentalreliability whereitmattersmost.

AtthecenterofitallisParamembrane.

The 1ST Grade PARA MEMBRANES

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Welcome Message

Water, air, and a safe environment are fundamental rights. Yet we still live with invisible pollution and growing environmental risks. What we need is not a temporary response, but a practical technology that can control and separate contaminants at the microscopic level and membrane technology stands at the center of that solution.

Over the years, Para membrane has advanced membrane solutions across water purification, air filtration, utility treatment, bioprocesses, and industrial separation. Our technology protects people and the environment beyond what the eye can see, helping cities and industrial systems operate safer and more efficiently.

What we deliver is not just a filter it is a core technology that safeguards life, infrastructure, and sustainability.

Built on R&D-driven innovation, systematic quality control, and real-world validation, Para membrane continues to strengthen its global competitiveness with values of technology, trust, and responsibility.

We will keep innovating to meet evolving environmental challenges and industrial demands toward a cleaner planet, safer cities, and a more sustainable future.

Thank you.

(주)파라 멤브레인

WHY NOW

WE ARE STANDING AT A TURNING POINT FOR THE ENVIRONMENT.

Invisible contamination is threatening cities and industries. Water and air are no longer unlimited resources.
Climate change, industrial growth, and urban concentration have pushed conventional purification methods to their limits.
Today, the world demands environmental solutions that are more precise, more efficient, and more sustainable.
Micro-contaminants, pathogenic microorganisms, industrial particles, and chemical pollutants are increasingly difficult to remove with traditional systems.
This is not just a technical challenge—it is a global issue directly connected to human safety and long-term industrial resilience.
At the center of this transition, advanced membrane separation is essential.

출처1.WHO(세계보건기구),"MicroplasticsinDrinkingWater",2019
출처2.WHO,"WaterborneDiseaseBurdenReport",2022
출처3.OECD(경제협력개발기구),"AirQualityandHealthReport",2022
출처4.USEPADrinkingWaterData,SingaporePUBAnnualWaterReports...

1. MICROPLASTICS CRISIS

Microplastics have been detected in drinking water worldwide.
As contamination shifts to microscopic particles, conventional purification alone cannot longer guarantee complete removal.

2. WHO WARNING: RISE OF WATERBORNE PATHOGENS

WHO reports that contaminated water causes millions of illnesses every year.
With antimicrobial resistance (AMR) increasing, advanced purification processes are becoming critical.

3. INCREASE OF ULTRAFINE PARTICLES (PM0.1)

PM0.1 particles are far smaller than PM2.5 and can penetrate deep into the lungs. These particles are difficult to capture with conventional filtration.
OECD forecasts ultrafine particles as a major urban and industrial risk in the coming decade.

4. GROWING WATER QUALITY INCIDENTS IN MAJOR CITIES

Since 2020, water system incidents have increased even in developed countries, driven by aging infrastructure and emerging micro-pollution risks.
This highlights the need for stronger and more reliable purification technologies.

WHY US

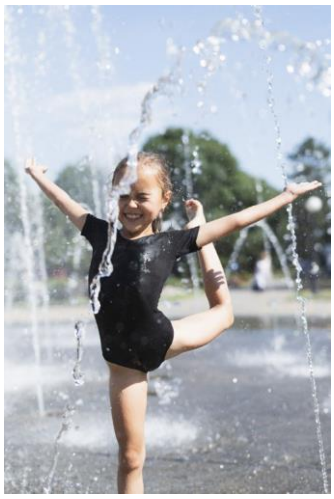
ENVIRONMENTAL TECHNOLOGY IS NOT OPTIONAL—IT IS ESSENTIAL.

TO BUILD SUSTAINABLE CITIES, SAFE INDUSTRIES, AND HEALTHIER ECOSYSTEMS, WE MUST BEGIN THE TRANSITION NOW.

Paramembrane develops advanced membrane solutions for this transformation. Our vision goes beyond products—we aim to create a new global standard in environmental purification.

OUR FOCUS

Clean: Restore water and air to their purest state
Efficient: Reduce energy use and operating costs
Sustainable: Enable resource recovery and eco-friendly processes
Scalable: Expand from homes to cities and industrial systems



WHY PARA MEMBRANES?

- Over 30 years of membrane manufacturing & potting expertise
- 100% inspection for MF/UF products
- Verified microbial removal performance aligned with WHO & USEPA standards
- Modular scalability for industrial and city-scale systems
- Integrated separation technology across water, air, and environmental processes

PARA'S DIFFERENTIATORS

- Proprietary hollow-fiber membrane structure
- Manufacturing based on materials approved by FDA / NSF
- Extensive global OEM/ODM production experience
- High-precision QC/QA process control
- Broad applications across Water · Air · Bio · Utility

What we build is the foundation for a better future.
A cleaner, safer, and more sustainable world—
that is the direction Paramembrane is committed to.

Company Overview&History

ParamembraneCo.,Ltd.wasfoundedonJanuary13,1999asaspecializedmanufacturerofmembranetechnologies(MF,UF,NF).
Built oncore separation expertise for water, air, andenvironmental applications,wedevelopandproducehigh-performancehollowfibermembranesandmodulesusedinwaterpurification,wastewater treatment,bioprocesses,andindustrialfiltration.

Paramembrane'smembranetechnologypreciselyremovescontaminantsthatareinvisibletothenakedeye—supportingstableoperationacrossurban,industrial,andenvironmentalsystems.
We deliver not just filters, but practical solutionsforcleanerwater, purerair,andasaferenvironment.

CorporateInformation

Company: ParamembraneCo.,Ltd.
CEO: MiriKwon
Established: January13,1999
Headquarters:38,MadoGongdan-ro 1-gil,Hwaseong-si,Gyeonggi-do,Korea
BusinessType: LiquidFiltration EquipmentManufacturing
Website: www.paraone.com

Factory1|Module,Cartridge &OEM/ODMProductManufacturing

KeyFunction:Productionofpurificationmodules,filter cartridges,andOEM/ODMproducts
Scope:Household,commercial,andindustrialpurificationmodules

·Productionplatformoptimizedforglobal OEM/ODM partnerships
·Automatedassemblyandstandardizedqualitycontrolsystem
·Capableofbothmassproductionandcustomized designrequirements

Factory2| Core Membrane Technology &HollowFiberProduction

KeyFunction:SpinningandproductionofMF·UF·NF hollowfibermembranes
Scope:Hollowfibermanufacturing,post-treatment, andperformanceverification

·In-houseexpertisecoveringthefullprocess—from spinningtofinalinspection
·100%qualityverificationbasedonFlow/Bubble/ BeadTests
·Acoretechnologybaseensuringbothseparation performanceandlong-termdurability

BuildingtheFoundation

1999.01IncorporatedasPARACo.,Ltd.
(Capital:KRW500million)

2001.12ISO9001Certified
(QualityManagement System)

2002.04TechnologyInnovation
DevelopmentProgramAgreement
CorporateR&DCenterEstablished

2003.06CertifiedVentureCompany

2004.06INNO-BIZCertified
(TechnologyInnovationSME)

2005.05SelectedasaPromising
SMEinGyeonggi-do

2006.11ISO14001Certified
(Environmental Management System)

2007.03Minister'sCommendation
(Parts&MaterialsSpecializedCompany)
HeadquartersRelocatedtoHwaseong,Korea

2007.12FactoryRegistrationCompleted

2008.11MiriKwonAppointedasCEO

2009.05DesignatedasaPromisingExport
CompanytoJapa

2010.12DesignatedasaPromisingExportSME

GlobalCertifications&Expansion

2011.07NSFInternationalCertification

2013.06Paid-inCapitalIncreased
(KRW3.05669billion)

2014.01FDA–FFRMRegistration
(FoodFacilityRegistrationModule)

2014.12"ExportTower"Award–
USD5MillionExports(52ndTradeDay)

2015.09GlobalCo-GrowthR&BDProgram
(3years/KRW0.9billion)

2015.12"ExportTower"Award–
USD10MillionExports(53rdTradeDay)

2016.05CertifiedWomen-OwnedEnterprise
(KoreaWomenEntrepreneursAssociation)

2018.12ISO45001Certified(OccupationalHealth
&SafetyManagement System)

SustainableGrowth&EcoCertifications

2019.09SedexSMETAAuditCertified
(Ethical&ResponsibleBusiness)

2020.02CertifiedasaMaterials&Components
SpecializedCompany

2020.11TechnologyInnovationDevelopment
ProgramAgreement(CommercializationPhase)

2021.02ISCCPLUSInternational
SustainabilityCertification

2021.04SelectedasaGlobalHidden
ChampionCompany

2021.07ISO50001Certified
(EnergyManagement System)

2021.10TechnologyInnovationDevelopment
ProgramAgreement(Purchase-Conditioned)

2021.12MinisterialCommendation
(Exporters'Day)

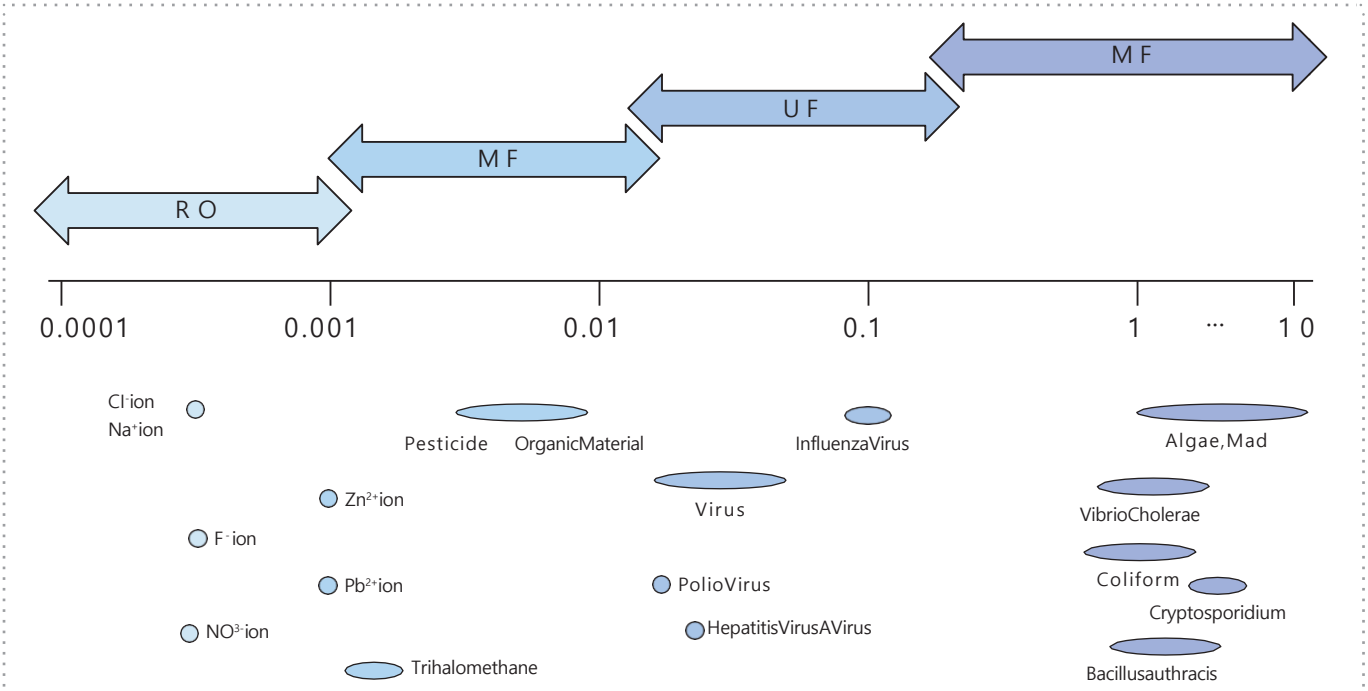
Membrane Technology Overview

Amembraneisacoreenvironmentaltechnologythatselectivelyseparatesparticles,microorganisms,ions,and organiccontaminantsfromwater,air,andvariousfluids.
Membranesaregenerallyclassifiedinto MF, UF, NF, and RO, dependingonthetargetsizeandseparationre-quirements—eachoptimizedfordifferentindustriesandperformanceneeds.

AtParamembrane,wefocusonMF·UF·NFhollowfibermembranetechnology,deliveringseparationsolutions forwaterpurification,industrialprocessing,bioapplications,andenvironmentalsystems.

MembraneClassification

Membranesaretypicallycategorizedbyporesizeandthetypeofcontaminantsremoved.



Type	RO (ReverseOsmosis)	NF (NanoFiltration)	UF (UltraFiltration)	MF (MicroFiltration)
PoreSize	approx.0.0001μm	approx.0.001–0.02μm	approx.0.01–0.05μm	approx.0.1–0.2μm
Removes	saltsandmonovalentions	heavymetals,organics,divalent	bacteria,viruses,fineparticles	bacteria,suspended
KeyFeature	high-precisionseparationfor molecular-levelcontaminants, stablehigh-pressureoperation	cost-efficientseparationwith strongcontaminantreduction, optimizedforhouseholdpurifica-tion능	highfluxandpermeability,strongstablequalityforbacterial-level chemicalresistanceanddurability,separation,strongcleaningper-excellentforlong-termfiltration performance	formance,optimizedforcartridge-typeapplications
Applications	seawaterdesalination,ultrapure-waterforsemiconductor&chemi-calprocesses,high-salinitywater-treatment	next-generationhomefilterde-velopment,EUhouseholdpurifier market,compactwatersystems	home&buildingpurification, wastewaterreusesystems,odor/tasteimprovement,scalablemod-uledesign	compactpurifierfilters,global home-brandfilteradoption,MF solutionsforbuildings,childcare &food-servicesystems

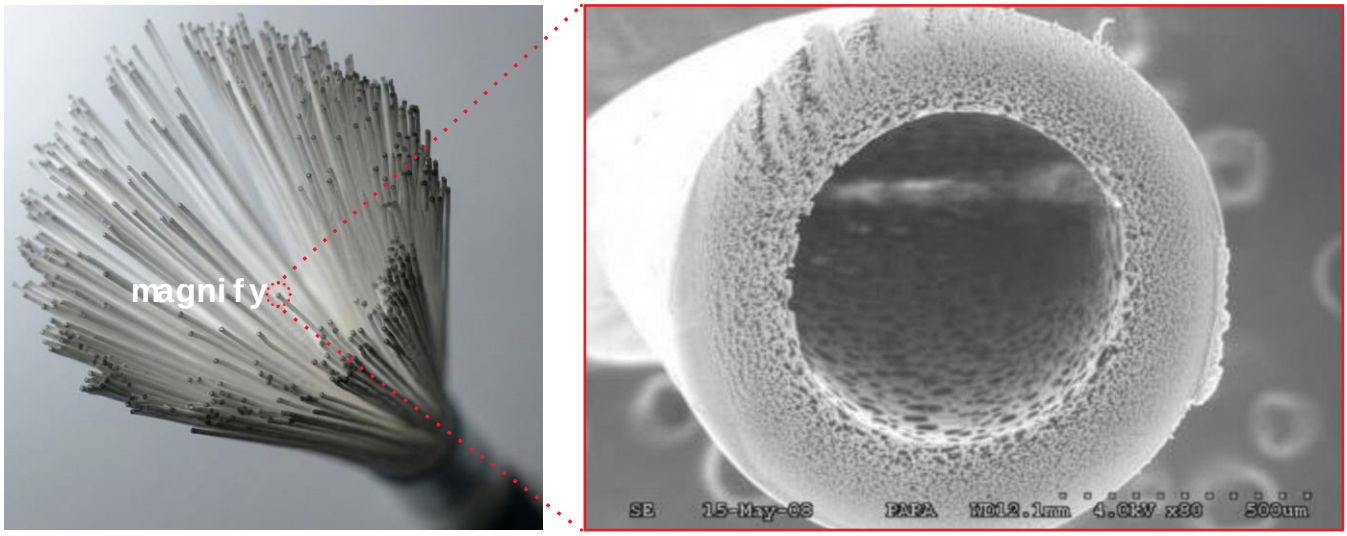
Hollow Fiber Membrane Structure

Para membrane's MF·UF·NF membranes are based on a hollow fiber structure.
This design forms microscopic channels inside fibers thinner than a human hair—maximizing filtration efficiency by utilizing both the surface and internal flow path.

·Multi-layer structure enabling inside-out/outside-in filtration
·water, wastewater, air purification, and bioprocesses
·Consistent and uniform pore formation
·High Flux/High Strength performance

Hollow Fiber Membrane (SEM Image)

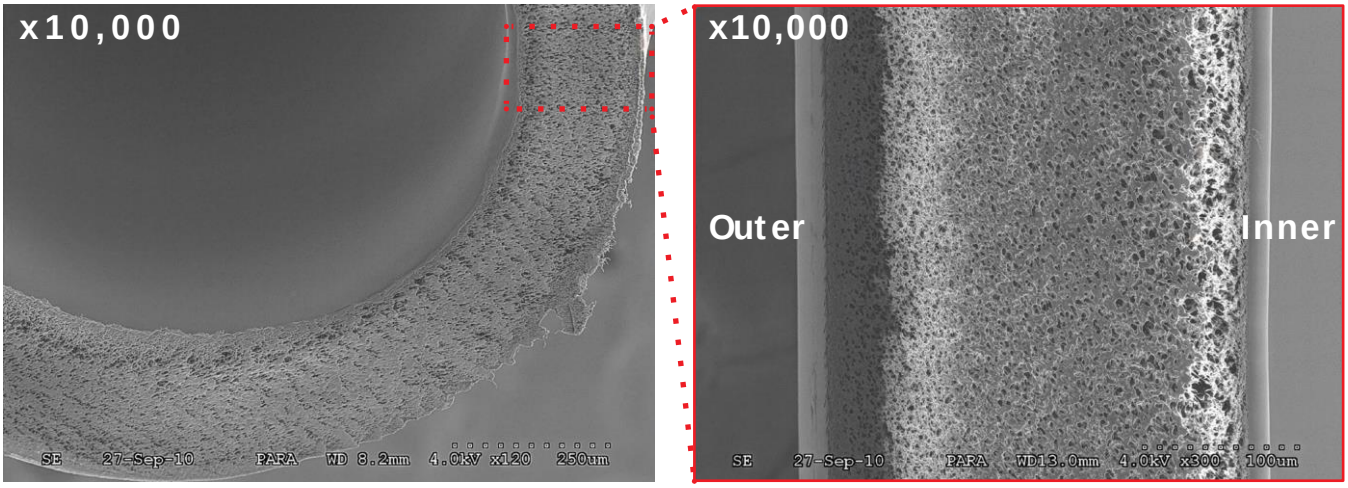
Water passes through the fiber, while microorganisms and fine particles are selectively blocked depending on pore size.



Inner Surface of the Membrane (SEM Image)

·A dense and uniform skin layer is formed on both inner and outer surfaces.
With no macrovoids observed, the structure provides strong resistance to mechanical damage.

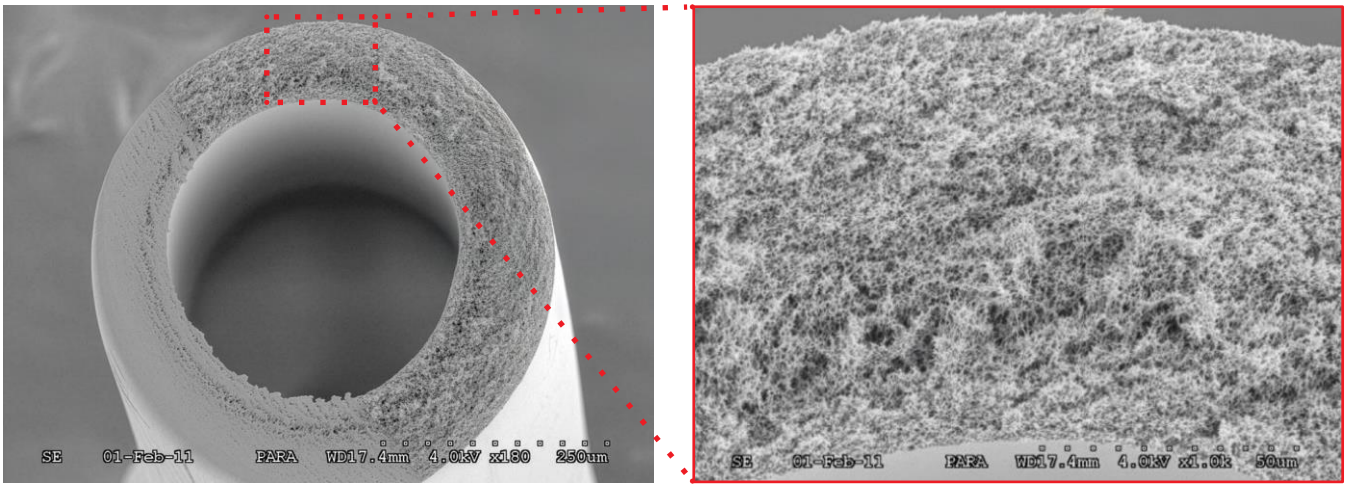
·The membrane interior is built with a well-developed asymmetric sponge structure,
ensuring a uniform pore network and delivering high flux performance.



MF (Micro Filtration) Structure

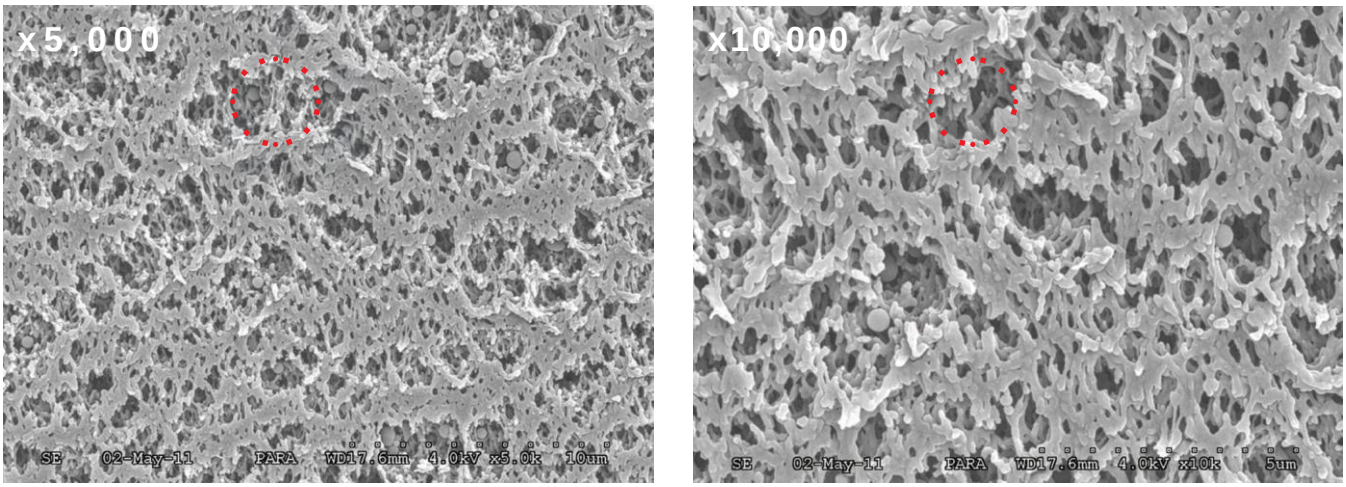
1. MF Membrane Cross-Section (SEM Image)

A fully developed sponge-like structure provides excellent pressure resistance and high rejection performance.



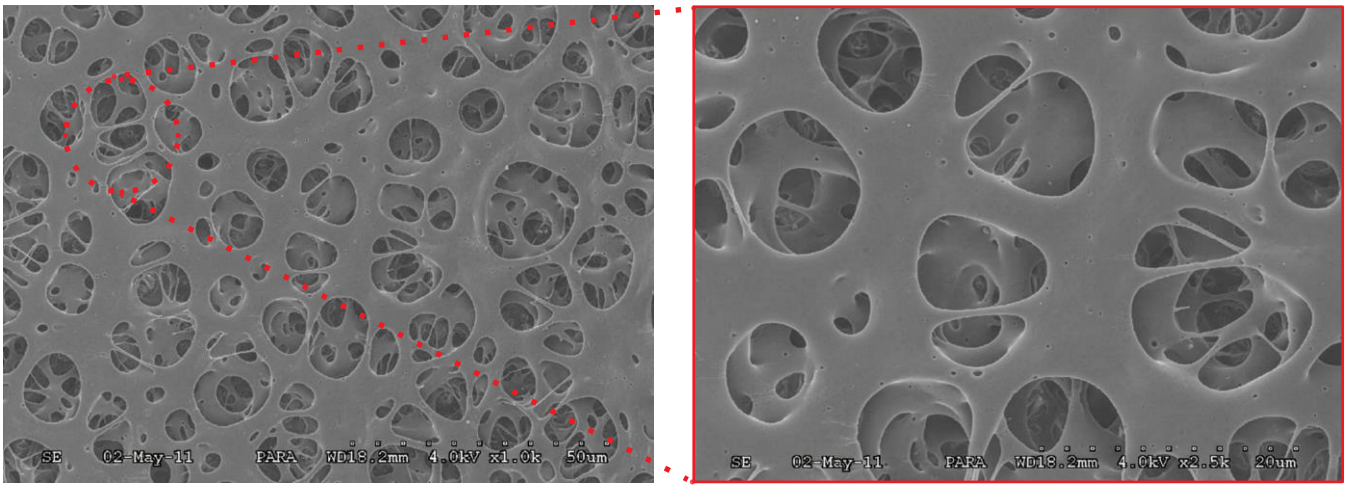
2. MF Outer Surface (SEM Image)

The outer surface features densely distributed pores, enabling the removal of microorganisms and particles ≥ 0.2 μm with over 99.9% efficiency.



3. MF Inner Surface (SEM Image)

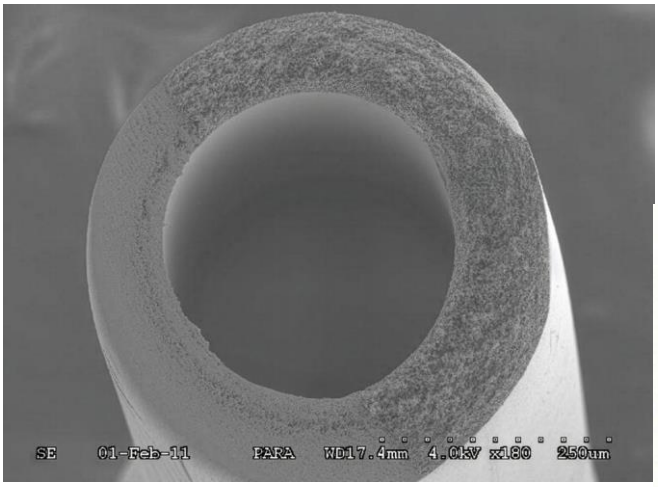
Highly developed inner-surface pores support stable high flow rate (high flux) during filtration.



UF (Ultra Filtration) Structure

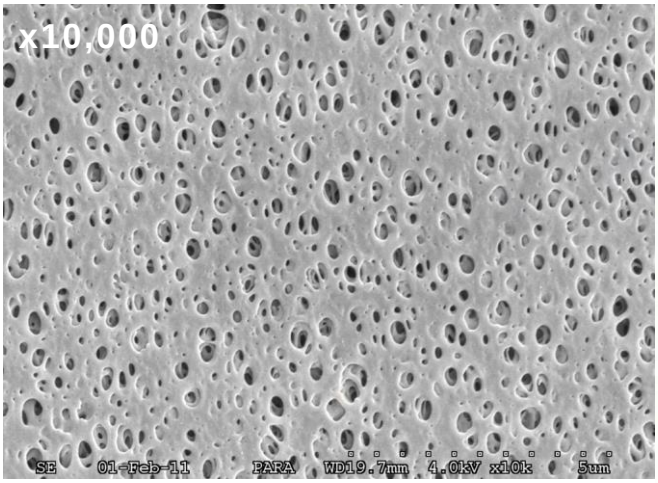
1. UF Membrane Cross-Section (SEM Image)

Asponge-structured,pressure-drivendesigndeliversexcellent mechanicalstrengthandhighpressuredurability.



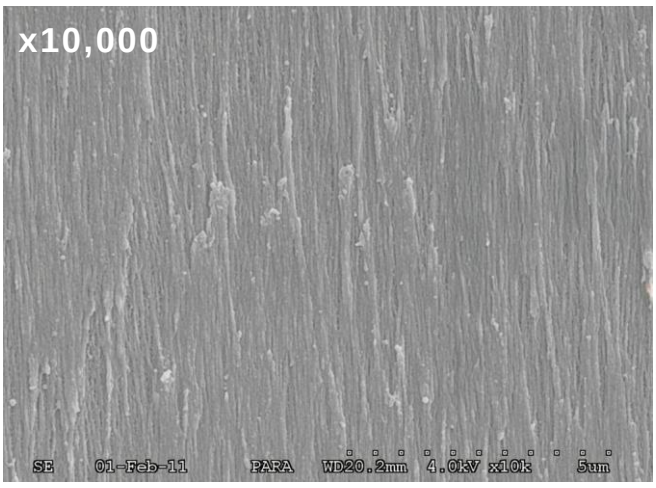
2. UF Outer Surface (SEM Image)

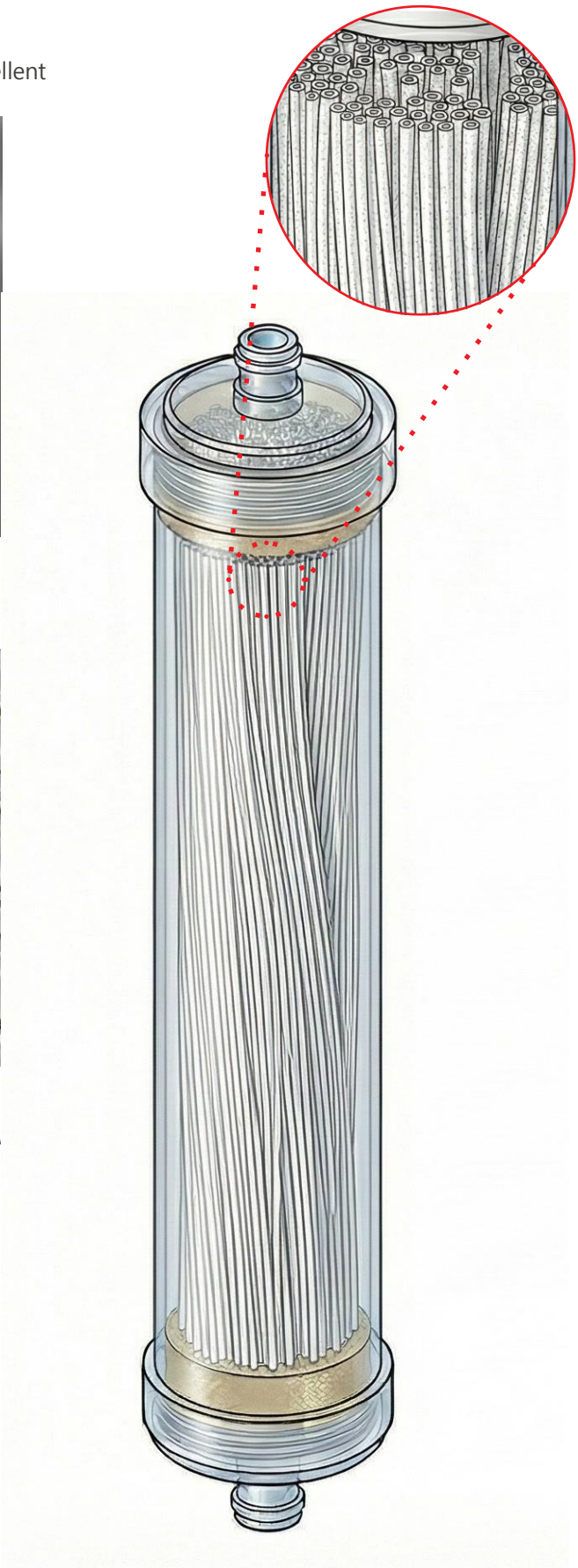
Well-developedsurfaceporescontributeto highfluxperformance.



3. UF Inner Surface (SEM Image)

Capable of removing viruses as small as ~0.025μm, achievingover99%removalefficiency.





Product Line-up

Paramembrane offers a full product portfolio—from cartridges and modules to complete systems and OEM solutions—built on our core MF·UF membrane technology.

All products are designed and manufactured within-house membranes and a verified quality-control system, ensuring stable performance across household and industrial applications.
Explore Paramembrane's membrane technology proven in global markets.

01. Sediment Filter Series
(Nonwoven / Spunbond / ACF Sediment Filters)

A first-stage prefilter designed to remove sand, rust, dust, and suspended solids from raw water.
It protects downstream membranes and carbon filters, helping extend system lifetime.

Key Features

·100% PP spunbond nonwoven media
·ACF (Activated Carbon Fiber) and antibacterial PP options
·Biodegradable biopolymer available
·Long-fiber structure with minimal lint release
·Adhesive-free manufacturing process
·Graded-density structure for depth filtration
·Excellent chemical and thermal resistance
·Reduced fine dust and contamination compared to PET

Specifications

·Micron Rating: 0.2–25 µm
·Structure: Coreless nonwoven rolling type
·Inner Diameter: 15/20/22/25/30/36/38/48/78mm
·Outer Diameter (OD): 18.5–105mm
·Length: 5–1,000mm
·Operating Temperature: -30 to 100°C
·Max. Pressure: 4.0 bar (58PSI)

Product Range

·Standard sediment filter
·Multi-density sediment filter
·ACF-applied sediment filter
·Carbon-composite sediment filter
·Mini sediment filter (15×18.5mm)
·Eco-friendly sediment filter based on corn fiber

02. MF / UF Water Purification Module Series (Gravity/Pressure-Driven Purification Modules)

A core module line-up powered by Paramembrane's MF·UF hollow-fiber membranes.
Compatible with various system architectures—from gravity-fed purifiers to pressure-driven filtration systems.

PARA-MF-001

·MF purification module
·Filtration Mode: Gravity filtration
·Pore Size: 0.1 μm
·Dimensions: L156 × D44mm
·Membrane Area: 0.15m²
·Flow Rate: 200ml/min
·Service Life: approx. 2,500L

Features
Standard MF gravity module for suspended solids and bacteria removal

PARA-MF-001

·UF purification module
·Filtration Mode: Gravity filtration
·Pore Size: 0.02 μm
·Dimensions: L156 × D44mm
·Membrane Area: 0.15m²
·Flow Rate: 20ml/min
·Service Life: approx. 1,500L

Features
Enhanced bacteria removal with finer pores than MF

PARA-MF-001-S U

·MF purifier housing
·Filtration Mode: Gravity filtration
·Pore Size: 0.1 μm
·Dimensions: L151 × D44mm
·Membrane Area: 0.15m²
·Flow Rate: 200ml/min
·Service Life: approx. 2,500L

Features
Replaceable MF module housing structure

PARA-UF-001-S U

·UF purification module
·Filtration Mode: Gravity filtration
·Pore Size: 0.02 μm
·Dimensions: L91.2 × D36mm
·Membrane Area: 0.15m²
·Flow Rate: 20ml/min
·Service Life: approx. 1,500L

Features
Compact UF gravity module, ideal for portable purifiers

PARA-MF-PA01M-In

·MF purifier housing
·Filtration Mode: Gravity filtration
·Pore Size: 0.1 μm
·Dimensions: L65 × D38mm
·Membrane Area: 0.14m²
·Flow Rate: 200ml/min·Service Life: approx. 2,500L

Features
Compact gravity MF housing suitable for fine particles and bacterial reduction

PARA-UF-PA01M-In

·UF purification module
·Filtration Mode: Gravity filtration
·Pore Size: 0.02 μm
·Dimensions: L65 × D38mm
·Membrane Area: 0.14m²
·Flow Rate: 20ml/min
·Service Life: approx. 1,500L

Features
Higher filtration precision than MF, ideal for portable and emergency purification systems requiring enhanced bacteria protection

03. Pressurized Water Purifier Filter Modules (Block Carbon+MF/UF Hybrid Structure)

A high-performance pressurized filtration module combining carbon adsorption and membrane separation in one integrated structure. Designed to improve taste and odor while enhancing microbiological removal performance.

PARA-WP-001

·MF Water Purifier Module
·Filtration: Pressurized filtration
·Pore Size: 0.1 μm
·Size: L183 × D47mm
·Membrane Area: 0.35m²
·Flow Rate: ≥ 2L/min
·Lifetime: approx. 6,000L

Features
Standard MF module optimized for household pressurized purifiers

PARA-WP-002

·UF Water Purifier Module
·Filtration: Pressurized filtration
·Pore Size: 0.02 μm
·Size: L183 × D47mm
·Membrane Area: 0.32m²
·Flow Rate: 500mL/min
·Lifetime: approx. 3,000L

Features
Pressurized UF module with enhanced bacteria removal performance

PARA-WP-001(11inch)

·MF Water Purifier Module
·Filtration: Pressurized filtration
·Pore Size: 0.1 μm
·Size: L223 × D47mm
·Membrane Area: 0.35m²
·Flow Rate: ≥ 2L/min
·Lifetime: approx. 6,000L

Features
11-inch size, compatible with built-in & under-sink systems

PARA-WP-001(13inch)

·UF Water Purifier Module
·Filtration: Pressurized filtration
·Pore Size: 0.1 μm
·Size: L258 × D47mm
·Membrane Area: 0.35m²
·Flow Rate: ≥ 2L/min
·Lifetime: approx. 6,000L

Features
Designed for high-capacity pressurized filtration systems

PARA-WP-003

·MF Water Purifier Module
·Filtration: Pressurized filtration
·Pore Size: 0.1 μm
·Size: L247 × D69mm
·Membrane Area: 1.27m²
·Flow Rate: ≥ 5L/min
·Lifetime: approx. 8,000L

Features
High-flow MF module with a large membrane area structure

PARA-WP-004

·UF Water Purifier Module
·Filtration: Pressurized filtration
·Pore Size: 0.02 μm
·Size: L247 × D69mm
·Membrane Area: 1.4m²
·Flow Rate: 500mL/min
·Lifetime: approx. 4,000L

Features
Large-area UF module for pressurized UF filtration systems

PARA-WP-0 0 5

·MFWaterPurifierModule
·Filtration:Pressurizedfiltration
·PoreSize:0.1μm
·Size:L247×D69mm
·Structure:
Stage1:BlockCarbon
Stage2:MFMembrane

Features
Removeschlorineandodorwhilefil-teringfineparticlesinonemodule

PARA-WP-0 0 6

·MFWaterPurifierModule
·Filtration:Pressurizedfiltration
·PoreSize:0.1μm
·Size:L250×D74mm
·Structure:
Stage1:BlockCarbon
Stage2:MFMembrane
·HousingMaterial:ABS

Features
Durablecarbonhybridmodulede-signedforpressurizedsystems

04.CarbonFilterSeries

Ahigh-efficiencyhybridfilterlineupcombiningactivatedcarbonandmembranetechnology.
Designedinmultipleconfigurationsdependingonwaterconditionsandapplicationneeds.

PARA-CF-0 0 1

·MFWaterPurifierModule
·Filtration:Pressurizedfiltration
·PoreSize:0.1μm
·Size:L245×D65mm
·Structure:
Stage1:BlockCarbon
Stage2:IntegratedMFMembrane

Features
Hybriddesigncombiningcarbonfiltra-tionwithanMFmembranelayer

PARA-CF-0 0 2

·MFWaterPurifierModule
·Filtration:Pressurizedfiltration
·PoreSize:0.1μm
·Size:
FilterPart:L85×D65mm
CarbonPart:L166×D65mm
·Structure:
Stage1:BlockCarbon
Stage2:MFMembrane

Features
Separablecarbonandfiltersections forflexiblesystemdesign

PARA-CF-0 0 3

·MFWaterPurifierModule
·Filtration:Pressurizedfiltration
·PoreSize:0.1μm
·Size:
Total:L242×D49mm
FilterPart:L135×D49mm
CarbonPart:L117×D47mm
·Structure:
Stage1:BlockCarbon
Stage2:MFMembrane

Features
Adjustablecarbonfillingvolumefor optimizedperformance

PARA-CF-004

·MFWaterPurifierModule
·Filtration:Pressurizedfiltration
·PoreSize:0.1μm
·Size:L143×D63mm
·Structure:
Stage1:BlockCarbon
Stage2:Deep-integratedMF

Features
Compactcarbonhybridfiltermodule forsmallpressurizedwaterpurifiers

05. Inter-Lock Water Purification System (Modular Replacement System)

Amodularpurificationsystemdesignedforfastandeasyfilterreplacement.
Safe,simplemaintenancewithoutprofessionalinstallation.

KeyFeatures

·Tool-freefilterreplacement
·Easyself-installation
·Low-maintenancedesign
·Configurable:2-stage/4-stage

GeneralSpecifications

·Filtration:MF/UF
·OperatingPressure:1–5bar
·OperatingTemperature:4–45°C
·FlowRate:approx.1.5L/min
·ServiceLife:12monthsor4,500L

ExampleConfigurations

·Sediment+Pre-carbon+MF+Post-carbon(4-stage)
·Sediment+CompositeFilter+UF(2-stage)
·Flexiblecombinationsbasedonapplicationneeds

06. Rust Removal Filter (Modular Replacement System)

Adedicatedfilterforremovingrustandmetallicparticlesgeneratedfromagingpipelines.
Designedtoimproveeverydaywaterhygieneatthepointofuse.

KeyFeatures

·Removesrust,suspendedsolids,andodor
·Supportsbacteriareduction
·Collectedrustcanbevisuallycheckedinsidethefilr

GeneralSpecifications

·Filtration:HollowFiberMembrane
·OperatingPressure:1–5bar
·OperatingTemperature:4–45°C
·FlowRate:approx.3.0L/min
·Lifetime:6,000–8,000L

RecommendedApplications

·Kitchensink
·Bathroomfaucet/bidet
·Shower
·Washingmachine

07.Under-the-Sink Water Purifier Set

Acompacthouseholdpurificationsysteminstalledunderthekitchensink.
Designedtomaximizebothspaceefficiencyandfiltrationperformance.

FilterConfiguration

·SedimentFilter(PP)
·Pre-CarbonFilter(GWH-20×40)
·UFMembrane(PS)
·Post-CarbonFilter(GWH-20×40)

OperatingConditions

·Pressure:0.5–4kgf/cm²
·Temperature:below45°C

Applications

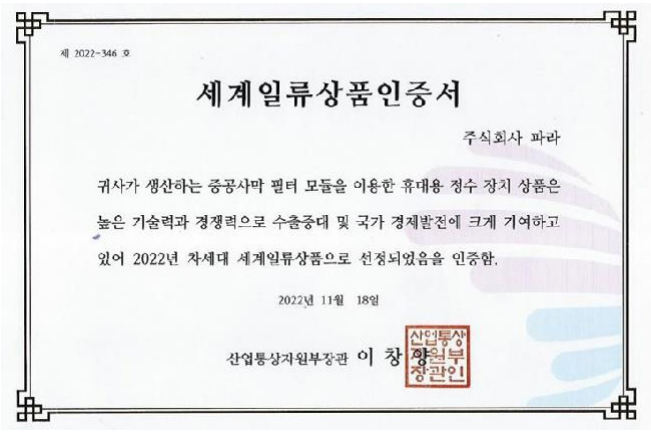
·Householdwaterpurifiers
·Under-sinkfiltrationsystems
·Hot/Coldwaterdispensers
·Bathroom/showersystems
·Washingmachines
·OEM/ODMpurifiermodules

International Standards & Certifications

We aim beyond global benchmarks.

Membranetechnologydirectlyimpactsenvironmentalsafety,waterquality,andindustrialreliability. Meetinginternationalstandardsisaclearproofofperformance,safety,andtrust.

Paramembranedevelopsandverifiesproductsbasedonglobal frameworks including ISO, EPA·WHOguidelines, andNSFstandards—ensuringconsistentqualitythroughoutdesign,manufacturing,andvalidation.


제 2022-346 호

세계일류상품인증서

주식회사 파라

귀사가 생산하는 중공사막 필터 모듈을 이용한 휴대용 정수 장치 상품은 높은 기술력과 경쟁력으로 수출증대 및 국가 경제발전에 크게 기여하고 있어 2022년 차세대 세계일류상품으로 선정되었음을 인증함.

2022년 11월 18일

산업통상자원부장관 이 창 양 산업통상자원부장관인

World-ClassProductCertification

Anational-level recognitionawardedtoproducts verifiedfortechnology, quality, andmarketcompetitiveness.


CONTROLUNION

ISCC PLUS Certificate

Certificate Number: ISCC-PLUS-Cert-DE108-87654804

Control Union Certifications Germany GmbH

certifies that

PARA MEMBRANES CO., LTD.

complies with the requirements of the certification system

ISCC PLUS

(International Sustainability and Carbon Certification)

Place of the audit

This certificate is valid from 12.07.2025 to 10.07.2026.

The site of the system user is certified as:

Trader with Storage

Final Product Refinement

Mass Balance

Berlin, 12.07.2025

Place and date of issue

Name, Signature of issuing party

ISCCPLUS

InternationalSustainabilityCertification


NSF International

Para Membranes

Facility: Gyeonggi-Do, Korea

NSF

NSF42Certification

(USHygiene&SafetyStandard)

BasedonWHOhouseholdwatertreatmentguidance, designed to meet highly protective performancerequirementsforhouseholdandportable purificationsystems.

SEDEXSMETAAudit

(Ethical&ResponsibleBusiness)

Aglobalauditstandardthatevaluateslabor,safety, environmental, and ethics compliance across supplychains.


CERTIFICATE
Quality Management System
PARA MEMBRANES Co., Ltd.
Korea Productivity Center Quality Assurance certifies that the Quality Management System of the above organization has been assessed and found to be in accordance with the requirements of the standards and scope of certification detailed below.
Standards
KS Q ISO 9001:2015 / ISO 9001:2015
Scope of Certification
Design, development and manufacturing of hollow fiber membrane and module for industry and purification
KOREA PRODUCTIVITY CENTER QUALITY ASSURANCE

ISO9001

QualityManagementSystem


CERTIFICATE
Environment Management System
PARA MEMBRANES Co., Ltd.
Korea Productivity Center Quality Assurance certifies that the Environmental Management System of the above organization has been assessed and found to be in accordance with the requirements of the standards and scope of certification detailed below.
Standards
KS I ISO 14001 : 2015 / ISO 14001 : 2015
Scope of Certification
Design, development and manufacturing of hollow fiber membrane and module for industry and purification
KOREA PRODUCTIVITY CENTER QUALITY ASSURANCE

ISO14001

EnvironmentalManagementSystem


CERTIFICATE
Occupational Health and Safety Management System
PARA MEMBRANES Co., Ltd.
Korea Productivity Center Quality Assurance certifies that the Occupational Health and Safety Management System of the above organization has been assessed and found to be in accordance with the requirements of the standards and scope of certification detailed below.
Standards
KS Q ISO 45001:2018 / ISO 45001:2018
Scope of Certification
Design, development and manufacturing of hollow fiber membrane and module for industry and purification
KOREA PRODUCTIVITY CENTER QUALITY ASSURANCE

ISO45001

OccupationalHealth&Safety


CERTIFICATE
Energy Management Systems
PARA MEMBRANES Co., Ltd.
Korea Productivity Center Quality Assurance certifies that the Energy Management System of the above organization has been assessed and found to be in accordance with the requirements of the standards and scope of certification detailed below
Standards
ISO 50001:2018
Scope of Certification
Design, development and manufacturing of hollow fiber membrane and module for industry and purification
KOREA PRODUCTIVITY CENTER QUALITY ASSURANCE

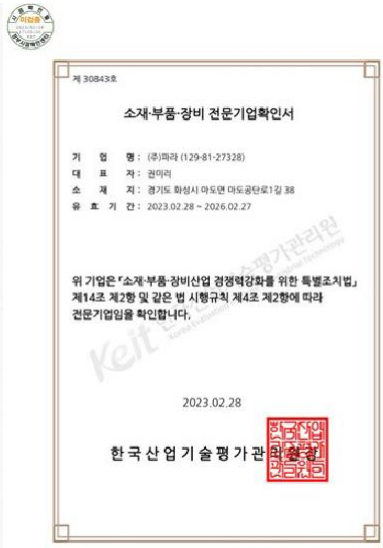
ISO50001

EnergyManagementSystem


CERTIFICATE
Energy Management Systems
PARA MEMBRANES Co., Ltd.
Korea Productivity Center Quality Assurance certifies that the Energy Management System of the above organization has been assessed and found to be in accordance with the requirements of the standards and scope of certification detailed below
Standards
ISO 50001:2018
Scope of Certification
Design, development and manufacturing of hollow fiber membrane and module for industry and purification
KOREA PRODUCTIVITY CENTER QUALITY ASSURANCE

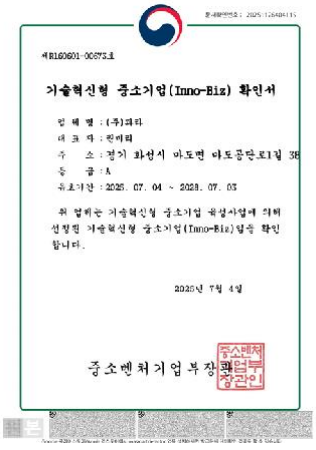
ISO13485

MedicalDeviceQMS


제 30843호
소재·부품·장비 전문기업확인서
기 업 명 : (주)파라 (129-81-27328)
대 표 자 : 권미리
소 재 지 : 경기도 화성시 마도면 마도공단로1길 38
유 효 기 간 : 2023.02.28 ~ 2026.02.27
위 기업은「소재·부품·장비산업 경쟁력강화를 위한 특별조치법」 제14조 제2항 및 같은 법 시행규칙 제4조 제2항에 따라 전문기업임을 확인합니다.
2023.02.28
한국산업기술평가관리원장

Materials&Components

MaterialsComponentsCertification


제2016-00573호
기술혁신형 중소기업(Inno-Biz) 확인서
기 업 명 : (주)파라
대 표 자 : 권미리
주 소 : 경기 화성시 마도면 마도공단로1길 38
등 급 : A
유효기간 : 2020. 07. 04 ~ 2023. 07. 03
위 업체는 기술혁신형 중소기업 육성사업에 의해 선정된 기술혁신형 중소기업(Inno-Biz)임을 확인합니다.
2020년 7월 4일
중소벤처기업부 장관

INNO-BIZ

INNO-BIZCertification


제2024-043호
「글로벌 강소기업 1,000+」 기업 지정서
업 체 명 : (주)파라
지정분야 : 강소+기업
지정기간 : 2024. 4. 29 ~ 2025. 12. 31
귀사를 혁신성과 성장잠재력을 갖춘 「글로벌 강소기업 1,000+」 기업으로 지정합니다.
2024년 4월 29일
중소벤처기업부 장관 오영주

GlobalStrongSME

GlobalStrongSMECertification


수출입안전관리우수업체 증서
Authorized Economic Operator(AEO) Certificate
관 세 청

AEOCertification

AuthorizedEconomicOperator(AEO)

Applications & Industries
HOW IT'S USED

Paramembrane'smembranesmaybeinvisibleindailylife, buttheyserveascritical infrastructureacrosshomes, industries, healthcare,anddemandingenvironments. Designedtomeeteachapplication'srequirements,oursolutionsdeliverstableperformanceandlong-termreliability.

Home&Living

Paramembranemembranessupportpurificationsystemsforhomesandoffices. Fromcompactunder-the-sinkunitstosmall commercial setups, theyensurebothsafe drinkingwateranduserconvenience.

Stableflow, verifiedmicrobial reduction, andeasymaintenancemeettheessential standardsofeverydayuse.

Industrial &Process Water

Inindustrial operations, waterstabilitydirectlyaffectsproductivity. Paramembranemembranes areusedfor processwater treatment, equipment protection pretreatment, wastewater reuse, andoperationalstabilization.

Engineeredforcontinuousoperation, they improve reliability across industrial systems.

Mobility&Outdoor

Eveninoff-gridenvironments, Paramembranetechnologyperformsconsistently. Itisappliedtoportablepurifiers, camping andtrekkinggear,anddisasterreliefapplications—helpingsecuresafedrinkingwater anywhere.

PerformancealignedwithWHOandUSEPA standardsprovidesconfidenceinextreme conditions.

Environmental&Infrastructure

Paramembranesupportsmunicipal andregionalwaterinfrastructure. Applications includedecentralizedpurificationsystems, local treatment facilities, anddrinkingwaterprojectsindeveloping regions.

Lower maintenancecosts andsimplified systemdesigncreatelong-termvaluefor infrastructureoperation.

Medical&BioProcess

Inmedical andbio-processfieldswhere precisioniscritical, Paramembranembranesplayakeyrole. Theydeliver uniformporestructuresand reliablebarrier performancefor labs, bio processes, andhygiene-controlledfacilities.

Thislevelofconsistencyisessentialwhere strictqualitymanagementisrequired.

Fromdrinkingwater toindustrial processwater, Paramembrane delivers invisible trust—builtfor every condition the environment demands.

Future Strategy & Scalability
Toward the Future

Paramembraneconnectstheenvironment,industry,andthefuture throughtechnologiesthatworkwheretheymattermost—outofsight.

Wewillcontinuetoexpandthepotentialofmembranescience toenablecleanerenergy,safersystems,andamoresustainableworld.

HydrogenMembranesforthe EnergyTransition

Theshifttowardahydrogeneconomydemands next-generation separation technologies.
Paramembraneisdevelopinghigh-performancemembranesfor hydrogenproduction,purification,andstorage—builtonexpertiseingasseparationandprecisioncontrol.

Thisisnotsimplyanewproductline.
Itisthenatural evolutionofenvironmental technologyintoenergyinfrastructure.
Withdurable, highlyselectivemembranes, weaimtosupportthefutureofcleanenergysystems.

ExpandingintoBio&MedicalApplications

Membranetechnologies proveninwater andenvironmentalfields alsoplayacritical roleinbioandmedical industries.

Paramembraneisextendingitscapabilities intoapplicationsthatrequire strict hygienecontrol, structural stability, andreliablemicrobialreduction.

Thisismorethanenteringanewmarket.
Itisraisingourtechnologytomeethigher standards—andgrowingintoacompanythatsupports lifeandhealthbeyonddailyenvironments.

GlobalOEM-CenteredGrowth

Paramembrane'sstrategyisbuiltonlong-termgrowthwithglobalOEMpartners—notone-timeproductsales.

Ourfullyintegratedmanufacturingsystem covers spinning, potting, assembly, and testing.
Thisenablescustomizeddesignandstable massproductionatthesametime—akeyreasonglobalbrandschooseParamembraneasalastingtechnologypartner.

Wecontinuetobuildscalableplatformsfor manufacturingandinnovation withpartnersacrossregionsandindustries.

SustainableGrowth

Paramembrane'sscalabilitybeginsnotwith marketsize, butwiththedepthandprecisionofwhere ourtechnologycanbeapplied.

Proven in home andindustrial environments,ourmembranesexpandstepbystep intoenergy,bio,andadvancedprocesses—evolvingfromproductsupply to system and solution-based business models.

Thisroadmapisdesignedfor long-term trustandsustainablecompetitiveness—notshort-termgrowth.

Thank You!

Paramembraneprotectspeople,cities,andtheplanet
throughadvancedmembranetechnologiesthatpurifywaterandair.

Settingnewstandardsforenvironmentalsolutions—
evenwhereitcan’tbeseen.
AtthecenterisParamembrane.

CONTACT US

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Hwaseong-si, Gyeonggi-do, Korea

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W. www.paramembranes.com