KaiTron Mata-Flow®

ULTRAFILTRATION MODULE

Product Brochure

2026 Edition

COMPANY PROFILE

Ningbo KaiTron Membrane Materials Co., Ltd. is a membrane technology service enterprise focused on membrane material R&D, module manufacturing, application development, and solution provision. As one of the very few domestic specialized suppliers deeply engaged in ultrafiltration membrane technology, we have a professional team with over 20 years of industry experience, and nearly 10 years of technical breakthroughs and product validation, having successfully overcome the core process barriers of UF membrane technology:

Performance benchmarked against international brands N and I:

the product matches first-tier international brands in filtration precision (20 nm), fouling resistance, flux stability, TMP, and service life, and can fully replace them with even better performance.

Proprietary process innovation:

The original dry-wet combined spinning technology and drying post-treatment process significantly enhance filament mechanical strength and chemical resistance, while giving the filament permanent hydrophilic properties, adapting to complex delivery and water-quality environments;

Significant cost advantage:

localized supply chain and stable filament production process reduce product price by 10-20% compared with imported brands and shorten delivery lead time by 50%.

Case empowerment:

Dozens of industry engineering validations with nationwide service coverage. The company's products have been successfully applied in printing/dyeing wastewater reuse, livestock water purification, chemical reclaimed-water reuse, power generation, and mariculture, among other industries.

Typical Cases:

Fujian Shishi 14,400 t/day printing/dyeing wastewater reuse project: stable operation for over 4 years, effluent turbidity < 0.1 NTU, TMP growth rate below 5%/year;

Hunan Chaling 8,000 t/day livestock water-purification project: achieved 99.999% rejection of bacteria and viruses, with bacteria/virus levels remaining compliant for 4 years and 5 months of continuous operation.

Fujian Zhangzhou 2×4,000 t/day mariculture project: a case of 3 years of operation with no Vibrio exceedance

Shandong Binzhou Chemical 6,500 t/day reclaimed-water reuse project: replaced original Membrana modules

Mission-Driven: Steadfast and far-reaching-a trusted supplier of highly reliable ultrafiltration membranes

Mata-Flow®

Features of series membrane modules

- Permanently hydrophilic PH-PES membrane filament
- Spinning technology with independent intellectual property rights
- Adopts a combined thermal-wet spinning process
- Six-Zone 3D Potting Technology
- Quality assurance system on par with German-made products
- Over 10 years of R&D and project testing

Mata-Flow®

Fields of application

Large-Scale Water Treatment Applications

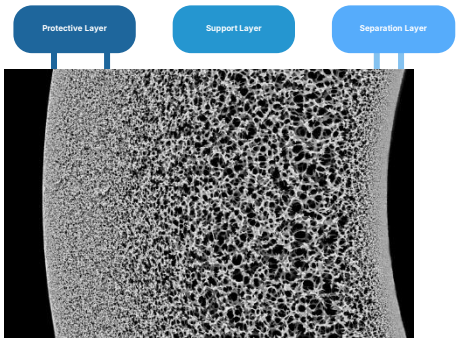
- Reverse Osmosis Pretreatment
- Seawater Desalination
- Reclaimed Water Reuse
- Industrial and Food & Pharmaceutical Wastewater Reduction & Reuse
- Drinking Water Treatment
- Agricultural & Livestock Farming Water

Special Separation Industry Applications

- Fermentation Broth Clarification
- Fruit Juice Filtration & Clarification
- Tea Beverage Filtration & Clarification
- Enzyme Preparation Filtration & Concentration

PH-PES

Characteristics of hollow fiber membrane filament



Electron microscope image of membrane filament cross-section

- PH-PES hollow-fiber membrane filament is the core material of Mata-Flow membrane modules
- It is a unique three-layer structure made from PES raw material

The inner side of the hollow fiber is the separation layer. The support layer provides a highly porous backing for the separation layer, which forms high mechanical strength through thicker polymer bonding. The outermost protective layer reduces the membrane pore size and maintains the structural integrity of the membrane.

The hydrophilicity of PH-PES provides higher fouling resistance. At the same time, it can withstand highly corrosive chemical cleaning (pH 1 to 13) and intensive oxidant cleaning, greatly enhancing the effectiveness of chemical cleaning and effectively restoring module performance.

KaiTron's PES membrane features a precise pore size (molecular weight cutoff 80,000-100,000) with a uniform pore-size distribution. Its asymmetric structure ensures an excellent balance between high permeate output and rejection efficiency. This enables PH-PES to deliver high flux at low transmembrane pressure, reducing energy consumption and thus minimizing operating costs-especially suitable for large-scale projects.

Membrane Filament Features

- Robust sponge-like asymmetric three-layer structure
- Dry-state storage of membrane filaments without affecting filament performance
- More concentrated pore-size distribution
- Superior Membrane Flux
- Better fouling resistance
- High temperature and chemical resistance, pH 1-13

Mata Flow D56

Ultrafiltration module for self-assembled racks

Product Features

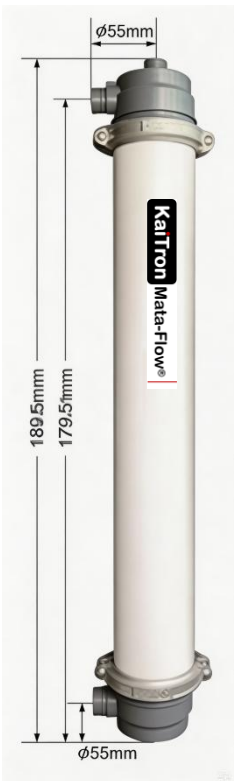
- Advanced PES multi-layer membrane fibers:
- Permanently hydrophilic PES membrane fibers
- Produced by a dry-wet mixed spinning process.
- Excellent physical strength and chemical resistance.
- Ultra-high log removal of colloids, bacteria and viruses.
- Micro-flocculation can be applied to enhance removal of algae and organics.

Optimized membrane module design:

- Multi-zone 3D potting technology.
- No dead zones; uniform flow distribution during filtration and backwash.
- EPOX potting material for robustness and long service life.
- Can be stored dry without affecting performance.

Main Application Areas

- Municipal water purification and wastewater reuse.
- Water purification and reclaimed-water reuse in power, steel, petrochemical and other industries.
- Seawater desalination.
- Rural drinking water, livestock water purification and marine aquaculture.
- An ideal filtration solution for medium and large projects.



Membrane Module Specifications

Filtration Mode:	Dead-end or Cross-flow
Membrane Type:	Inside-out (Internal Pressure)
Membrane Material:	PESm Modified Polyethersulfone
Nominal Pore Size:	0.02 μm (80000-10000D)
Housing Material:	PVC-U, White

Dimensions		
Effective Membrane Area	56m²	602.8ft²
Membrane Module Length	1900 mm	76.0 inch
Membrane Module Diameter (D)	219mm	9.76 inch
Weight and Volume		
Shipping Weight (Module Only)	28 kg	61.7 lbs.
Flooded Weight (Module and Piping)	83 kg	182.9 lbs.
Flooded Volume (In-line Cleaning = CIP)	78 L	3.55 gal

Recommended Operating Conditions

Typical Operating Parameters		
Filtration Flux	50-120 L/(m²h)	29.4- 70.67 gfd
Backwash Flux	180-250 L/(m²h)	106-147 gfd
Typical Transmembrane Pressure (TMP)	0.1 - 0.6 bar	1.5 - 8.7 psi
Typical Backwash Pressure (TMP)	0.3 – 1.5 bar	4.4 – 22.5 psi
Operating pH	3 - 11	—
Cleaning pH	1 - 13	—
Operating Temperature Range	1 - 40 °C	34 - 104 °F
Operating Limits (Maximum)		
Temperature Change Rate	5 °C/min	9 °F/min
Inlet Pressure	5 bar	73 psi
Pressure Change Rate	0.5 bar/sec	7.3 psi/sec
Filtration Transmembrane Pressure (TMP)	1.5 bar	22 psi
Backwash Transmembrane Pressure (TMP)	2.5 bar	37.5psi
Filtration Flux	180 L/(m²h)	106 gfd
Filtration Flow Rate	6.7 m³/h	29.49 gpm
Backwash Flux	300 L/(m²h)	176 gfd
Particle Size	300 µm	—
NaOCl Exposure Tolerance	≤ 250,000 ppm×h (at pH ≥ 9.5)	—
NaOCl Concentration	250 ppm	—

General Information

- During start-up, operation, shutdown, cleaning or any other process, avoid sudden pressure changes to prevent possible membrane damage. Maximum allowed pressure change rate is 0.5 bar/s.
- For installation, please contact us for the installation manual.
- Any warranty will be void if the operating limits and guidelines specified in this notice are not strictly followed.
- During prolonged system shutdown, the system must be cleaned and stored or preserved with a protective solution to inhibit microbial growth.

Mata Flow D60S

Ultrafiltration module for self-assembled racks

Product Features

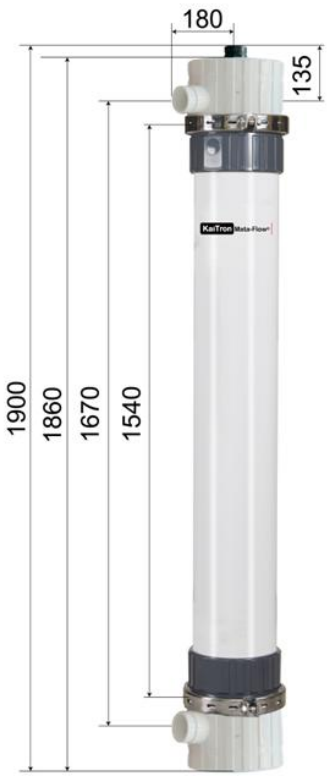
- Advanced PES multi-layer membrane fibers:
- Permanently hydrophilic PES membrane fibers
- Produced by a dry-wet mixed spinning process.
- Excellent physical strength and chemical resistance.
- Ultra-high log removal of colloids, bacteria and viruses.
- Micro-flocculation can be applied to enhance removal of algae and organics.

Optimized membrane module design:

- Multi-zone 3D potting technology.
- No dead zones; uniform flow distribution during filtration and backwash.
- EPOX potting material for robustness and long service life.
- Can be stored dry without affecting performance.

Main Application Areas

- Municipal water purification and wastewater reuse.
- Water purification and reclaimed-water reuse in power, steel, petrochemical and other industries.
- Seawater desalination.
- Rural drinking water, livestock water purification and marine aquaculture.
- An ideal filtration solution for medium and large projects.



Membrane Module Specifications

Filtration Mode:	Dead-end or Cross-flow
Membrane Type:	Inside-out (Internal Pressure)
Membrane Material:	PESm Modified Polyethersulfone
Nominal Pore Size:	0.02 μm (80000-10000D)
Housing Material:	PVC-U, White

Dimensions		
Effective Membrane Area	60 m²	645.8ft²
Membrane Module Length	1900 mm	76.0 inch
Membrane Module Diameter (D)	225 mm	9.0 inch
Weight and Volume		
Shipping Weight (Module Only)	49 kg	108 lbs.
Flooded Weight (Module and Piping)	137 kg	302 lbs.
Flooded Volume (In-line Cleaning = CIP)	182 L	8.29 gal

Recommended Operating Conditions

Typical Operating Parameters		
Filtration Flux	50-120 L/(m²h)	29.4- 70.67 gfd
Backwash Flux	180-250 L/(m²h)	106-147 gfd
Typical Transmembrane Pressure (TMP)	0.1 - 0.6 bar	1.5 - 8.7 psi
Typical Backwash Pressure (TMP)	0.3 – 1.5 bar	4.4 – 22.5 psi
Operating pH	3 - 11	—
Cleaning pH	1 - 13	—
Operating Temperature Range	1 - 40 °C	34 - 104 °F
Operating Limits (Maximum)		
Temperature Change Rate	5 °C/min	9 °F/min
Inlet Pressure	5 bar	73 psi
Pressure Change Rate	0.5 bar/sec	7.3 psi/sec
Filtration Transmembrane Pressure (TMP)	1.5 bar	22 psi
Backwash Transmembrane Pressure (TMP)	2.5 bar	37.5psi
Filtration Flux	180 L/(m²h)	106 gfd
Filtration Flow Rate	7.2 m³/h	31.7 gpm
Backwash Flux	300 L/(m²h)	176 gfd
Particle Size	300 µm	—
NaOCl Exposure Tolerance	≤ 250,000 ppm×h (at pH ≥ 9.5)	—
NaOCl Concentration	250 ppm	—

General Information

- During start-up, operation, shutdown, cleaning or any other process, avoid sudden pressure changes to prevent possible membrane damage. Maximum allowed pressure change rate is 0.5 bar/s.
- For installation, please contact us for the installation manual.
- Any warranty will be void if the operating limits and guidelines specified in this notice are not strictly followed.
- During prolonged system shutdown, the system must be cleaned and stored or preserved with a protective solution to inhibit microbial growth.

Mata Flow D60T

Ultrafiltration module for assembled racks

Product Features

- Advanced PES multi-layer membrane fibers:
- Permanently hydrophilic PES membrane fibers
- Produced by a dry-wet mixed spinning process.
- Excellent physical strength and chemical resistance.
- Ultra-high log removal of colloids, bacteria and viruses.
- Micro-flocculation can be applied to enhance removal of algae and organics.

Optimized membrane module design:

- Multi-zone 3D potting technology.
- No dead zones; uniform flow distribution during filtration and backwash.
- EPOX potting material for robustness and long service life.
- Can be stored dry without affecting performance.

Main Application Areas

- Municipal water purification and wastewater reuse.
- Water purification and reclaimed-water reuse in power, steel, petrochemical and other industries.
- Seawater desalination.
- Rural drinking water, livestock water purification and marine aquaculture.
- An ideal filtration solution for medium and large projects.

Membrane Module Specifications

Filtration Mode:	Dead-end or Cross-flow
Membrane Type:	Inside-out (Internal Pressure)
Membrane Material:	PESm Modified Polyethersulfone
Nominal Pore Size:	0.02 μm (80000-10000D)
Housing Material:	PVC-U, White
Complete System Design:	2X7 (Maximum)

Dimensions		
Effective Membrane Area	60 m^2	645.8ft^2
Membrane Module Length	1900 mm	76.0 inch
Membrane Module Diameter (D)	225 mm	9.0 inch
Weight and Volume		
Shipping Weight (Module Only)	49 kg	108 lbs.
Flooded Weight (Module and Piping)	137 kg	302 lbs.
Flooded Volume (In-line Cleaning = CIP)	182 L	8.29 gal

Recommended Operating Conditions

Typical Operating Parameters		
Filtration Flux	50-120 L/(m^2h)	29.4- 70.67 gfd
Backwash Flux	180-250 L/(m^2h)	106-147 gfd
Typical Transmembrane Pressure (TMP)	0.1 - 0.6 bar	1.5 - 8.7 psi
Typical Backwash Pressure (TMP)	0.3 – 1.5 bar	4.4 – 22.5 psi
Operating pH	3 - 11	—
Cleaning pH	1 - 13	—
Operating Temperature Range	1 - 40 °C	34 - 104 °F
Operating Limits (Maximum)		
Temperature Change Rate	5 °C/min	9 °F/min
Inlet Pressure	5 bar	73 psi
Pressure Change Rate	0.5 bar/sec	7.3 psi/sec
Filtration Transmembrane Pressure (TMP)	1.5 bar	22 psi
Backwash Transmembrane Pressure (TMP)	2.5 bar	37.5psi
Filtration Flux	180 L/(m^2h)	106 gfd
Filtration Flow Rate	7.2 m^3/h	31.7 gpm
Backwash Flux	300 L/(m^2h)	176 gfd
Particle Size	300 µm	—
NaOCl Exposure Tolerance	≤ 250,000 ppm×h (at pH ≥ 9.5)	—
NaOCl Concentration	250 ppm	—

General Information

- During start-up, operation, shutdown, cleaning or any other process, avoid sudden pressure changes to prevent possible membrane damage. Maximum allowed pressure change rate is 0.5 bar/s.
- For installation, please contact us for the installation manual.
- Any warranty will be void if the operating limits and guidelines specified in this notice are not strictly followed.
- During prolonged system shutdown, the system must be cleaned and stored or preserved with a protective solution to inhibit microbial growth.

Mata Flow D60W

Ultrafiltration module for horizontally installed racks

Product Features

- Advanced PES multi-layer membrane fibers:
- Permanently hydrophilic PES membrane fibers
- Produced by a dry-wet mixed spinning process.
- Excellent physical strength and chemical resistance.
- Ultra-high log removal of colloids, bacteria and viruses.
- Micro-flocculation can be applied to enhance removal of algae and organics.

Optimized membrane module design:

- Multi-zone 3D potting technology.
- No dead zones; uniform flow distribution during filtration and backwash.
- EPOX potting material for robustness and long service life.
- Can be stored dry without affecting performance.

Main Application Areas

- Municipal water purification and wastewater reuse.
- Water purification and reclaimed-water reuse in power, steel, petrochemical and other industries.
- Seawater desalination.
- Rural drinking water, livestock water purification and marine aquaculture.
- An ideal filtration solution for medium and large projects.

Membrane Module Specifications

Filtration Mode:	Dead-end or Cross-flow
Membrane Type:	Inside-out (Internal Pressure)
Membrane Material:	PESm Modified Polyethersulfone
Nominal Pore Size:	0.02 μm (80000-10000D)
Housing Material:	PVC-U, White

Dimensions		
Effective Membrane Area	60 m^2	645.8ft^2
Membrane Module Length	1527 mm	61.08 inch
Membrane Module Diameter (D)	225 mm	9.0 inch
Weight and Volume		
Shipping Weight (Module Only)	23 kg	50.7 lbs.
Flooded Weight (Module and Piping)	76 kg	167.5 lbs.
Flooded Volume (In-line Cleaning = CIP)	110 L	5.01 gal

Recommended Operating Conditions

Typical Operating Parameters		
Filtration Flux	50-120 L/(m^2h)	29.4- 70.67 gfd
Backwash Flux	180-250 L/(m^2h)	106-147 gfd
Typical Transmembrane Pressure (TMP)	0.1 - 0.6 bar	1.5 - 8.7 psi
Typical Backwash Pressure (TMP)	0.3 – 1.5 bar	4.4 – 22.5 psi
Operating pH	3 - 11	—
Cleaning pH	1 - 13	—
Operating Temperature Range	1 - 40 °C	34 - 104 °F
Operating Limits (Maximum)		
Temperature Change Rate	5 °C/min	9 °F/min
Inlet Pressure	5 bar	73 psi
Pressure Change Rate	0.5 bar/sec	7.3 psi/sec
Filtration Transmembrane Pressure (TMP)	1.5 bar	22 psi
Backwash Transmembrane Pressure (TMP)	2.5 bar	37.5psi
Filtration Flux	180 L/(m^2h)	106 gfd
Filtration Flow Rate	7.2 m^3/h	31.7 gpm
Backwash Flux	300 L/(m^2h)	176 gfd
Particle Size	300 µm	—
NaOCl Exposure Tolerance	≤ 250,000 ppm×h (at pH ≥ 9.5)	—
NaOCl Concentration	250 ppm	—

Note: The equipment photos are from project sites; do not copy or reuse them. Horizontal UF housings and complete systems are available as options.

General Information

- During start-up, operation, shutdown, cleaning or any other process, avoid sudden pressure changes to prevent possible membrane damage. Maximum allowed pressure change rate is 0.5 bar/s.
- For installation, please contact us for the installation manual.
- Any warranty will be void if the operating limits and guidelines specified in this notice are not strictly followed.
- During prolonged system shutdown, the system must be cleaned and stored or preserved with a protective solution to inhibit microbial growth.

Mata Flow D40W

Ultrafiltration module for horizontally installed racks

Product Features

- Advanced PES multi-layer membrane fibers:
- Permanently hydrophilic PES membrane fibers
- Produced by a dry-wet mixed spinning process.
- Excellent physical strength and chemical resistance.
- Ultra-high log removal of colloids, bacteria and viruses.
- Micro-flocculation can be applied to enhance removal of algae and organics.

Optimized membrane module design:

- Multi-zone 3D potting technology.
- No dead area; uniform flow distribution during filtration and backwash.
- EPOX potting material for robustness and long service life.
- Can be stored dry without affecting performance.

Main Application Areas

- Municipal water purification and wastewater reuse.
- Water purification and reclaimed-water reuse in power, steel, petrochemical and other industries.
- Seawater desalination.
- Rural drinking water, livestock water purification and marine aquaculture.
- An ideal filtration solution for medium and large projects.

Membrane Module Specifications

Filtration Mode:	Dead-end or Cross-flow
Membrane Type:	Inside-out (Internal Pressure)
Membrane Material:	PESm Modified Polyethersulfone
Nominal Pore Size:	0.02 μm (80000-10000D)
Housing Material:	PVC-U, White

Dimensions		
Effective Membrane Area	40 m²	430.55ft²
Membrane Module Length	1527 mm	61.08 inch
Membrane Module Diameter (D)	192 mm	7.68inch
Weight and Volume		
Shipping Weight (Module Only)	21 kg	46.3 lbs.
Flooded Weight (Module and Piping)	72 kg	158.7 lbs.
Flooded Volume (In-line Cleaning = CIP)	100 L	4.56gal

Recommended Operating Conditions

Typical Operating Parameters		
Filtration Flux	50-120 L/(m²h)	29.4- 70.67 gfd
Backwash Flux	180-250 L/(m²h)	106-147 gfd
Typical Transmembrane Pressure (TMP)	0.1 - 0.6 bar	1.5 - 8.7 psi
Typical Backwash Pressure (TMP)	0.3 – 1.5 bar	4.4 – 22.5 psi
Operating pH	3 - 11	—
Cleaning pH	1 - 13	—
Operating Temperature Range	1 - 40 °C	34 - 104 °F
Operating Limits (Maximum)		
Temperature Change Rate	5 °C/min	9 °F/min
Inlet Pressure	5 bar	73 psi
Pressure Change Rate	0.5 bar/sec	7.3 psi/sec
Filtration Transmembrane Pressure (TMP)	1.5 bar	22 psi
Backwash Transmembrane Pressure (TMP)	2.5 bar	37.5psi
Filtration Flux	180 L/(m²h)	106 gfd
Filtration Flow Rate	4.8 m³/h	31.7 gpm
Backwash Flux	300 L/(m²h)	176 gfd
Particle Size	300 µm	—
NaOCl Exposure Tolerance	≤ 250,000 ppm×h (at pH ≥ 9.5)	—
NaOCl Concentration	250 ppm	—

Note: The equipment photos are from project sites; do not copy or reuse them. Horizontal UF housings and complete systems are available as options.

General Information

- During start-up, operation, shutdown, cleaning or any other process, avoid sudden pressure changes to prevent possible membrane damage. Maximum allowed pressure change rate is 0.5 bar/s.
- For installation, please contact us for the installation manual.
- Any warranty will be void if the operating limits and guidelines specified in this notice are not strictly followed.
- During prolonged system shutdown, the system must be cleaned and stored or preserved with a protective solution to inhibit microbial growth.

Mata Flow R80T

Ultrafiltration module for self-assembled racks

Product Features

- Advanced PES multi-layer membrane fibers:
- Permanently hydrophilic PES membrane fibers
- Produced by a dry-wet mixed spinning process.
- Excellent physical strength and chemical resistance.
- Ultra-high log removal of colloids, bacteria and viruses.
- Micro-flocculation can be applied to enhance removal of algae and organics.

Optimized membrane module design:

- Multi-zone 3D potting technology.
- No dead zones; uniform flow distribution durir filtration and backwash.
- EPOX potting material for robustness and long service life.
- Can be stored dry without affecting performance.

Main Application Areas

- Municipal water purification and wastewater reuse.
- Water purification and reclaimed-water reuse in power, steel, petrochemical and other industries.
- Seawater desalination.
- Rural drinking water, livestock water purification and marine aquaculture.
- An ideal filtration solution for medium and large projects.

Membrane Module Specifications

Filtration Mode:	Dead-end or Cross-flow
Membrane Type:	Inside-out (Internal Pressure)
Membrane Material:	PESm Modified Polyethersulfone
Nominal Pore Size:	0.02 μm (80000-10000D)
Housing Material:	PVC-U, White
Complete System Design:	4x20 (Maximum)

Dimensions		
Effective Membrane Area	80 m²	861.1ft²
Membrane Module Length	2100 mm	82.7 inch
Membrane Module Diameter (D)	250 mm	10 inch
Weight and Volume		
Shipping Weight (Module Only)	58kg	127.8 lbs.
Flooded Weight (Module and Piping)	138 kg	3.4.6lbs.
Flooded Volume (In-line Cleaning = CIP)	182 L	8.29 gal

Recommended Operating Conditions

Typical Operating Parameters		
Filtration Flux	50-120 L/(m²h)	29.4- 70.67 gfd
Backwash Flux	180-250 L/(m²h)	106-147 gfd
Typical Transmembrane Pressure (TMP)	0.1 - 0.6 bar	1.5 - 8.7 psi
Typical Backwash Pressure (TMP)	0.3 – 1.5 bar	4.4 – 22.5 psi
Operating pH	3 - 11	—
Cleaning pH	1 - 13	—
Operating Temperature Range	1 - 40 °C	34 - 104 °F
Operating Limits (Maximum)		
Temperature Change Rate	5 °C/min	9 °F/min
Inlet Pressure	5 bar	73 psi
Pressure Change Rate	0.5 bar/sec	7.3 psi/sec
Filtration Transmembrane Pressure (TMP)	1.5 bar	22 psi
Backwash Transmembrane Pressure (TMP)	2.5 bar	37.5psi
Filtration Flux	180 L/(m²h)	106 gfd
Filtration Flow Rate	9.6 m³/h	31.7 gpm
Backwash Flux	300 L/(m²h)	176 gfd
Particle Size	300 µm	—
NaOCl Exposure Tolerance	≤ 250,000 ppm×h (at pH ≥ 9.5)	—
NaOCl Concentration	250 ppm	—

General Information

- During start-up, operation, shutdown, cleaning or any other process, avoid sudden pressure changes to prevent possible membrane damage. Maximum allowed pressure change rate is 0.5 bar/s.
- For installation, please contact us for the installation manual.
- Any warranty will be void if the operating limits and guidelines specified in this notice are not strictly followed.
- During prolonged system shutdown, the system must be cleaned and stored or preserved with a protective solution to inhibit microbial growth.

The Clean Water Product Series is a membrane filtration system based on our proprietary high-performance UF membrane modules and over 15 years of application development experience, designed for raw water sources such as lakes, reservoirs, rivers, spring water, and tap water.

For small-to-medium customers or distributed water-supply systems with daily water demand from 100 m^3 to 10,000 m^3.

The system we designed requires no chemical dosing into the raw water; long-term stable operation is maintained through simple chemical cleaning alone, greatly saving customers' chemical costs.

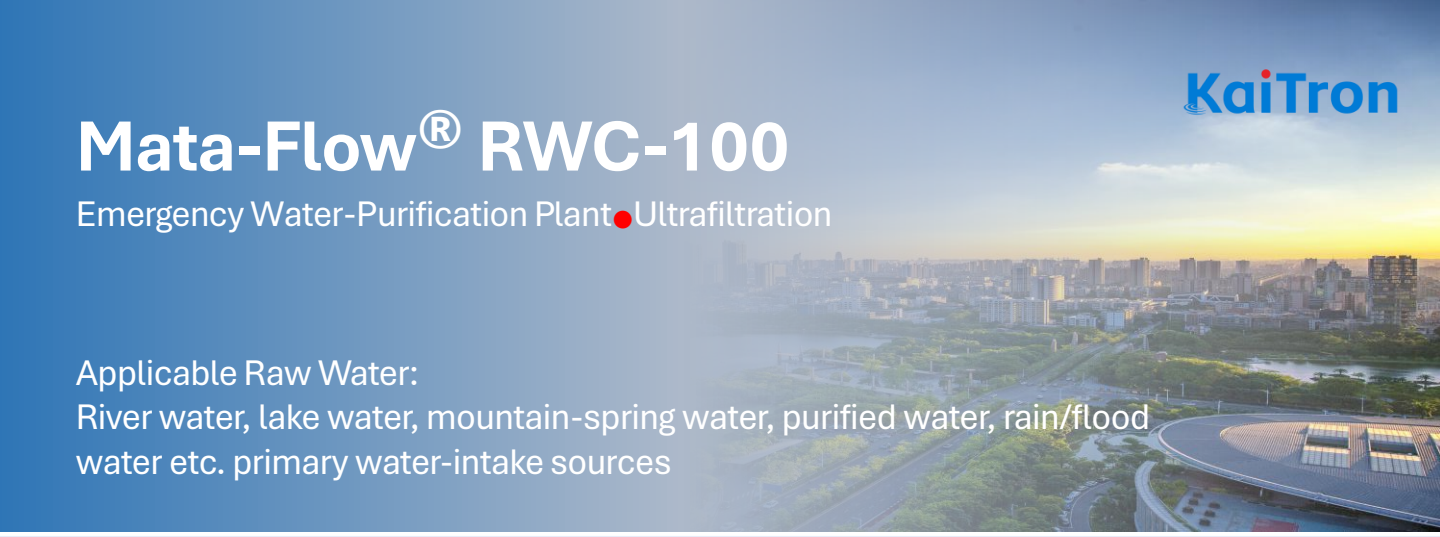
Our system efficiently and with low energy consumption produces clean drinking water. The minimum production cost can be as low as RMB 0.28/ton.

Our design is highly user-friendly-the system can be operated and maintained as easily as using a smartphone, and even grassroots operators with no knowledge of water-treatment equipment can run it proficiently.

KaiTron

Mata-Flow® RWC-100

Emergency Water-Purification Plant●Ultrafiltration



Applicable Raw Water:
River water, lake water, mountain-spring water, purified water, rain/flood water etc. primary water-intake sources

Equipment Specification

Item	Specifications
Production capacity:	5-10m^3/day
Service population:	100 persons
Dimensions:	650mmX450mmX350mm
Total weight:	≤50kg
Frame material:	Stainless steel/Aluminum alloy
Protection rating:	IP65
Rated power:	350W
Operating voltage:	AV220V/380V, DC24V/36/ and others available

Item	Specifications
Filtration technology:	Internal-pressure ultrafiltration
Filtration precision:	10-20nm
Effluent turbidity:	<1NTU
Total bacterial count:	<10CFU/mL
Filtration process:	Cross-flow
Pretreatment:	Screen+ cartridge Filter
Post-treatment:	Activated carbon/RO Water purifier(optional)
Extended functions:	RO Membrane element

Key Features

KaiTron

01 High-Yield Water Capacity

Maximum water production capacity exceeds 10m^3/day, equivalent to supplying 15000 bottles of water per day

Adaptability 02

Suitable for various water sources, complex environments and multiple power supplies

Safety 03

04 Mobility

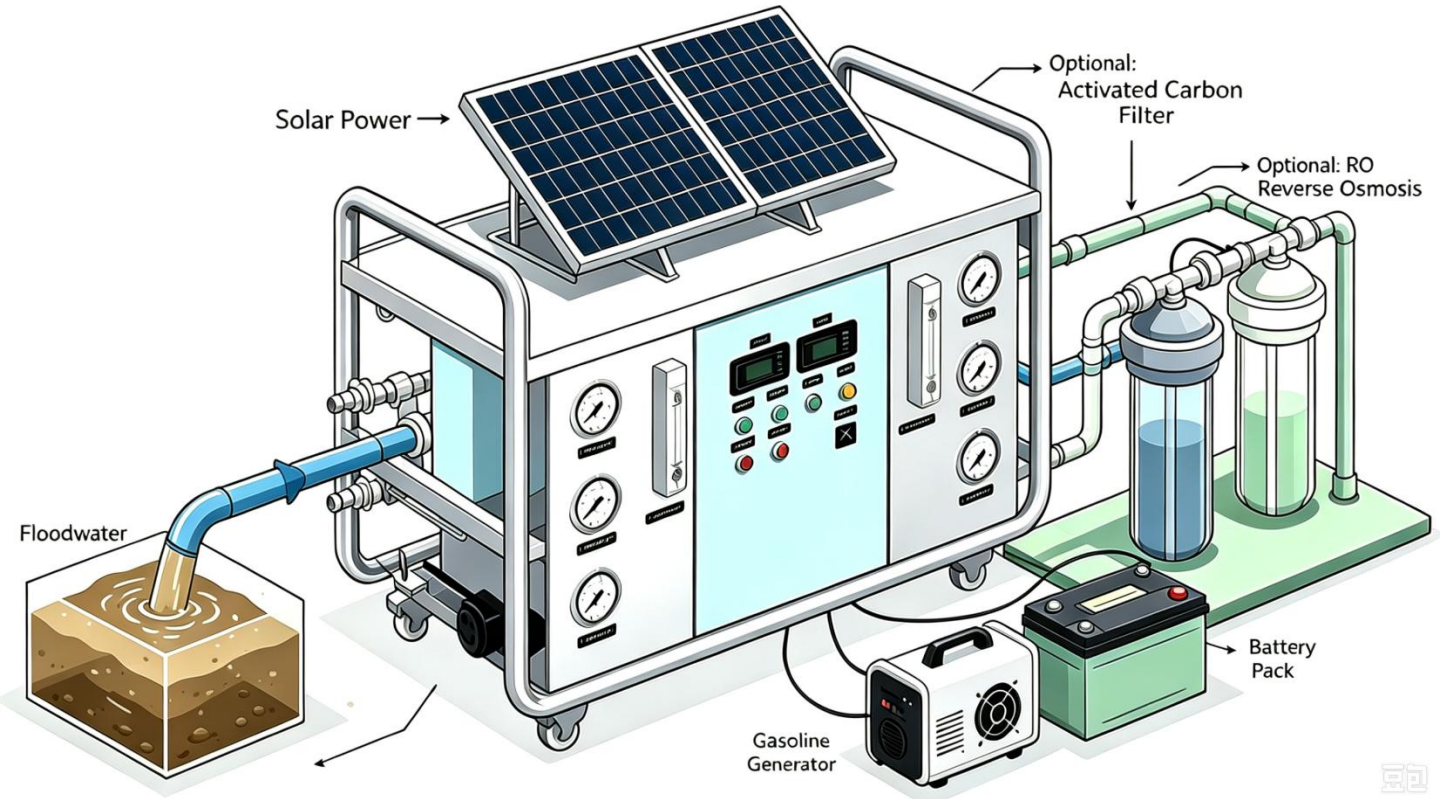
Simple Operation 05

06 Low Cost

Emergency Application Scenarios

KaiTron

Multifunctional Operation Diagram



Site with daily output of 8,000 m³ of purified water:

Site with daily output of 1,200 m³ of purified water:

Site of mobile emergency water-supply unit

Equipment with 3,000 m³/day output:

Equipment with 600 m³/day output

400 m³/day equipment

200 m³/day equipment

100 m³/day equipment


INGEER CERTIFICATION ASSESSMENT SERVICES
英格尔认证
职业健康安全管理体系认证证书
认证编号：117 26 S 0456 R0 02
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