Infinity Tech Engineering

OUKE

Becoming a globally leading provider of water treatment solutions

-Suzhou Ouke Environmental Protection Co., Ltd.-

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Typical cases

01 About us

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1.1 About OUKE

Suzhou Ouke Environmental Protection Co., Ltd.

With more than 20 years of experience in the field of water resource recycling, it is committed to achieving sewage reuse and zero liquid discharge(ZLD). The business covers many industries such as desalination, printing and dyeing, steel, coal chemical industry, electronic electroplating, municipal, leachate, etc., and continues to provide high-quality services to 2000+ customers around the world. The company continues to promote the upgrading of industry standards to help customers achieve a win-win situation of environmental and economic benefits. In the future, we will continue to empower the new life of every drop of water with the spirit of science.

Company Culture

Mission Committed to achieving wastewater reuse and ZLD through technological innovation, aimed at contributing to the sustainable utilization of global water resources.

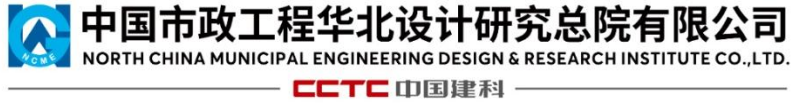
Vision Becoming a globally leading provider of water treatment solutions.

Values Honesty, Integrity, Innovation, Cooperation.



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1.2 Main partners





































More than **3,000** institutional clients

including design institutes, central and state-owned enterprises, industry associations, engineering contractors.

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1.3 Relevant Certifications

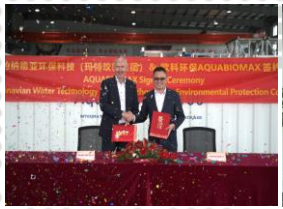


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1.4 Performance Distribution



















Norway Office

Kazakhstan

Uzbekistan

Morocco

Egypt Office

Suzhou HQ
Suzhou Production Base
Hunan Company
Hong Kong Company

Taiwan

Ethiopia

Cambodia

Singapore Company

Malaysia

Kenya

Indonesia

Brasil

The business covers 10 major industries:

Sea desalination, printing and dyeing, iron and steel, coal chemical mine water, municipal, pharmaceutical, electronic plating, chemical industry, rural sewage, leachate

Served 2,000+ projects

Treated water 12 million+ tons/day

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02 Product technology

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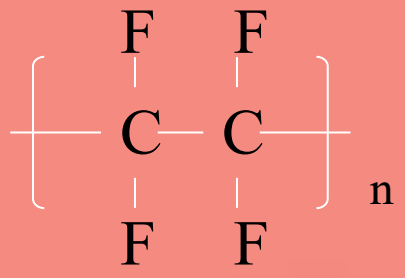
AquaUltra
Integrated Ultrafiltration Package



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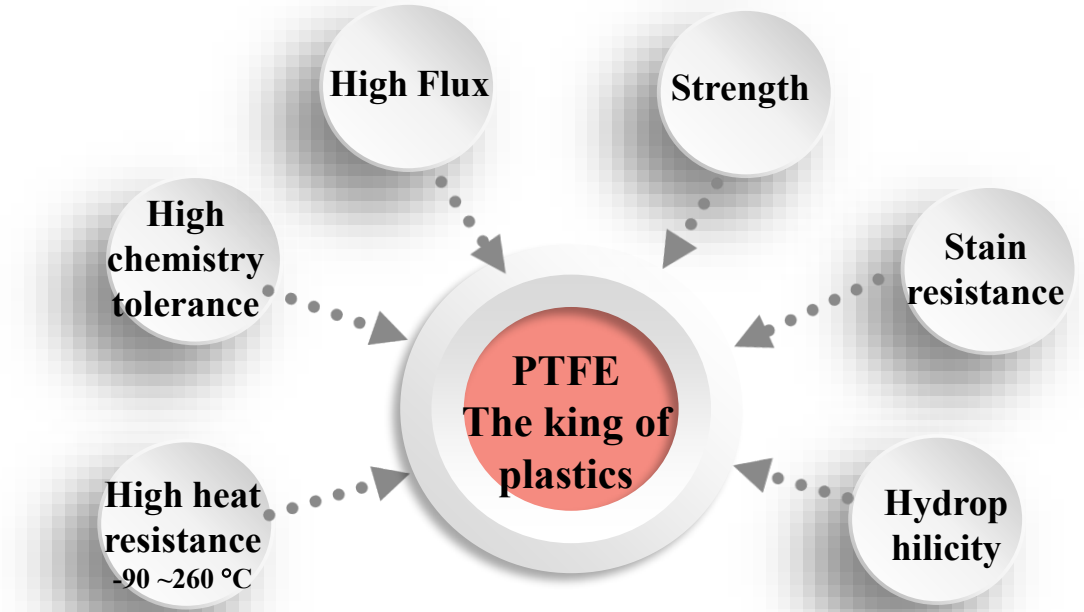
2.1.1 PTFE-Hollow fiber membrane

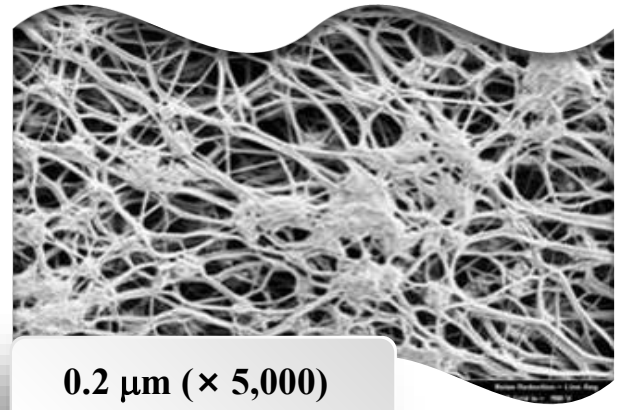
PTFE = Polytetrafluoroethylene



PVDF: $-\left(CF_2-CH_2\right)_n-$

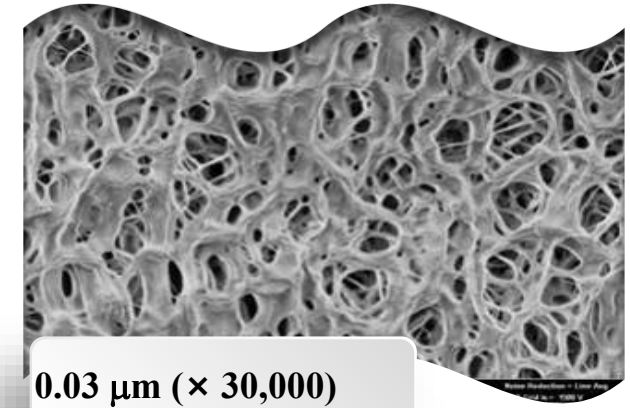
PE: $-\left(CH_2-CH_2\right)_n-$





0.2 μm (× 5,000)

3D structure presented under the ×5000 and ×30000 EM



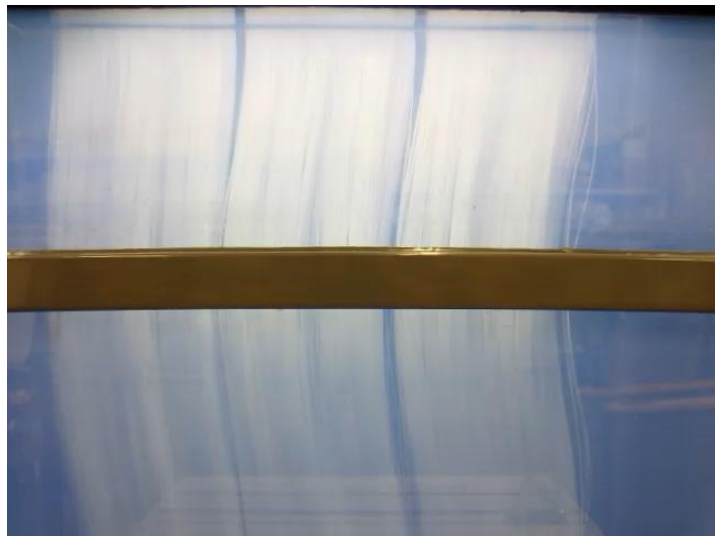
0.03 μm (× 30,000)

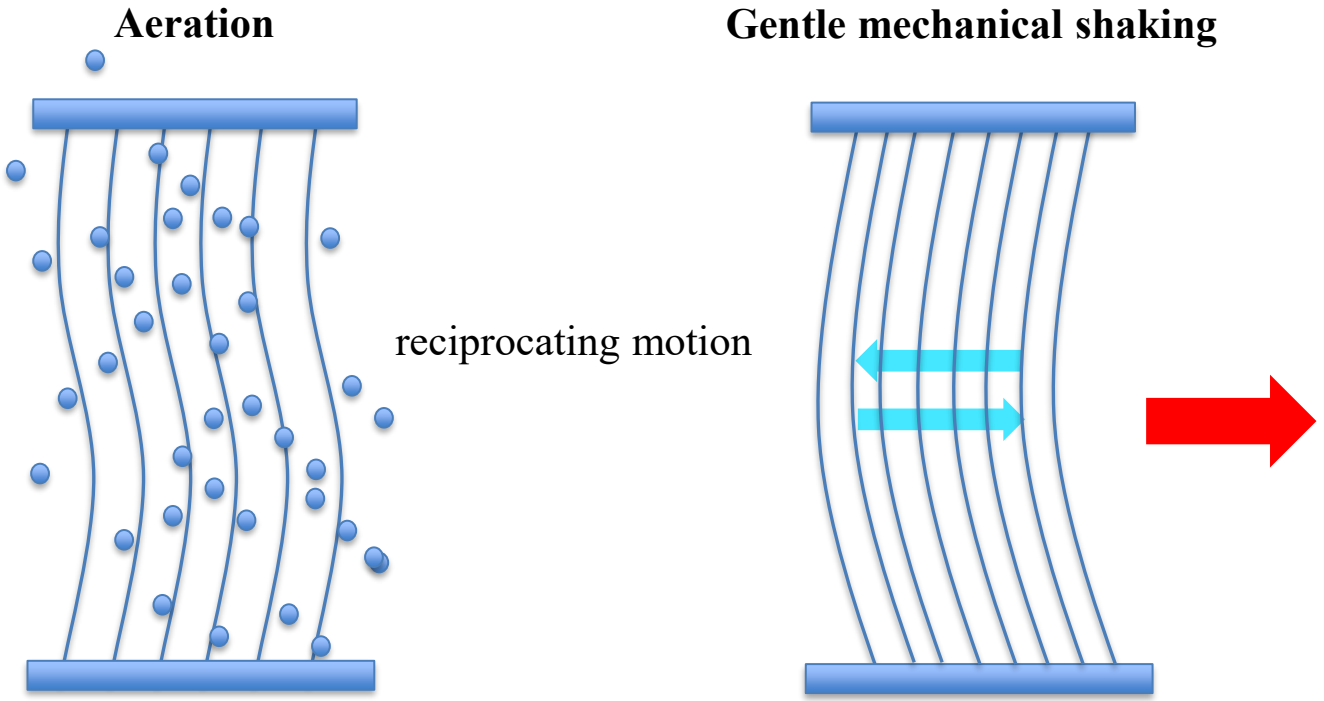
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2.1.2 No-aeration PTFE-UF system： Principle

- Using mechanical reciprocating motion to create relative motion between the membrane fibers and the mixed liquid；
- Replace the air wiping function of aeration with a gentle mechanical shaking device ；
- Preventing membrane blockage through reciprocating membrane wire shaking。







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2.1.3 Technology advantages

01

Low energy consumption

Mechanical transmission replaces fans, saving up to 80% energy compared to aeration;

02

Easily operate and maintain

Less prone to mud accumulation, fibers, and hair, reducing maintenance.

03

Excellent water output

Placed directly in biochemical tanks, effectively reducing the dissolved oxygen carried by the reflux fluid, increasing TN removal efficiency by 30%;

04

Long service life

PTFE is 3 times longer than PVDF in service life ;

The cantainer is treated with special anti-corrosion coating, with a service life of ≥ 15 years;

05

Strong anti-pollution capability

Influent MLSS can reach 30~40g/L, 2~3 times that of traditional methods;

High chemical resistance, adaptable to pH 0~14;

06

Environment friendly

No noise pollution , and saving aeration and fans equipment;

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2.1.4 Application scenarios



Steel



Papermaking



D&P



Municipal



Pharmaceutical



Kitchen

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AquaReclaim

Integrated reclaim water Package

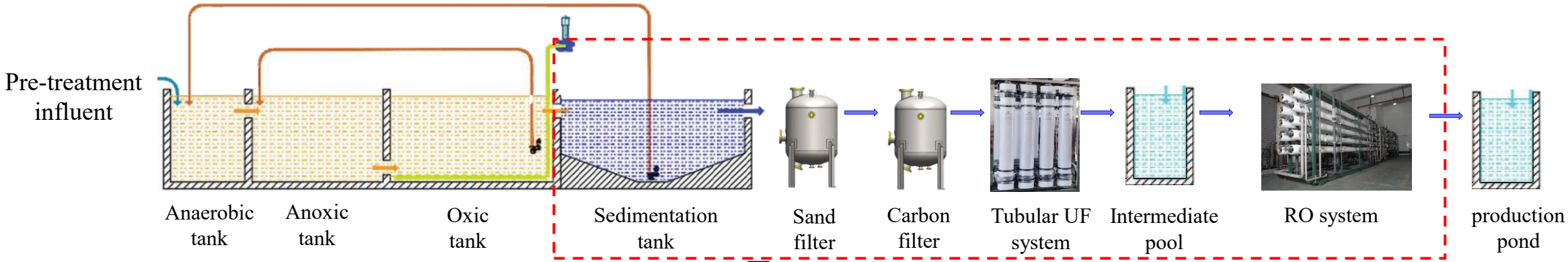


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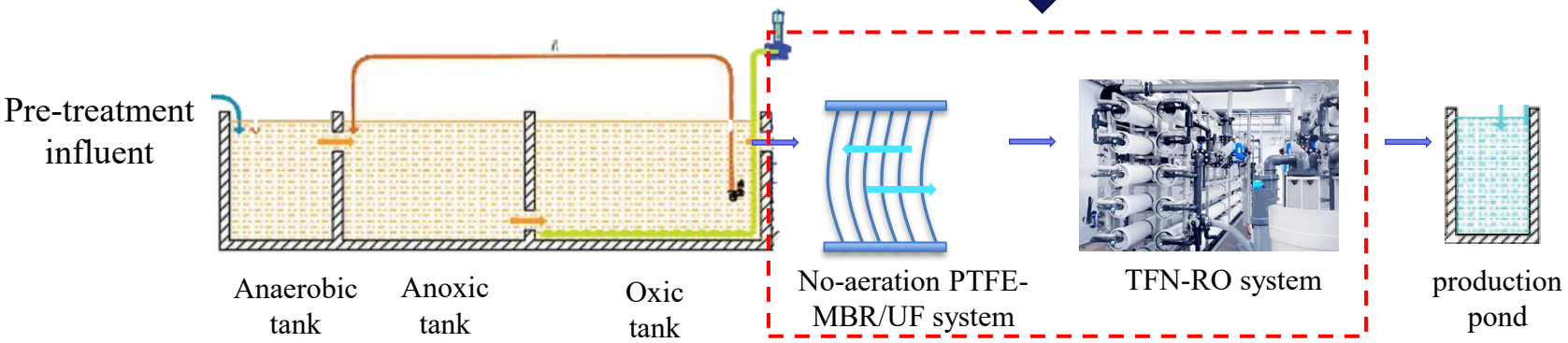
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2.2.1 Principle

Traditional process

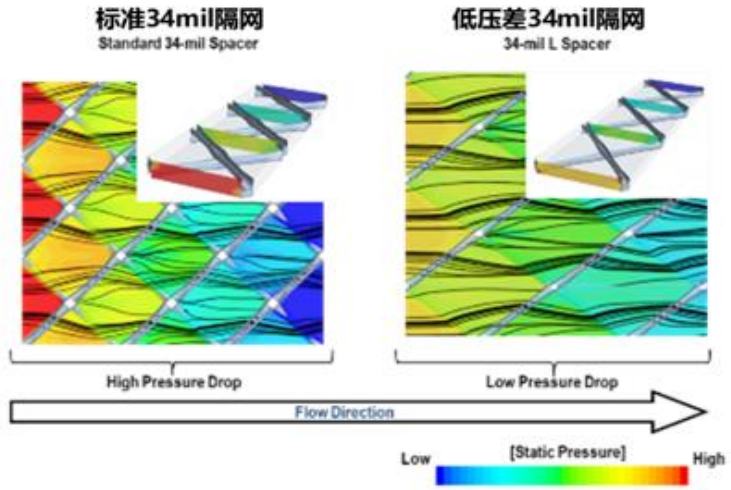


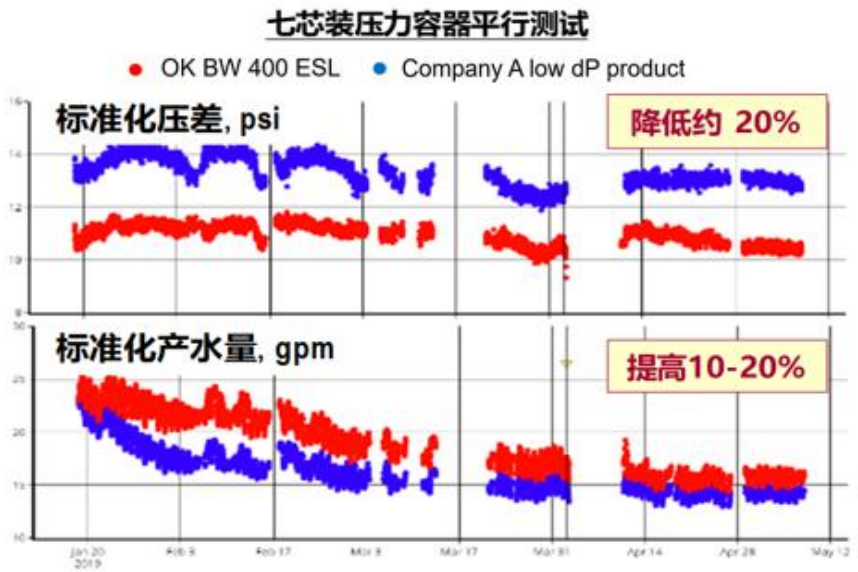
Ouke process



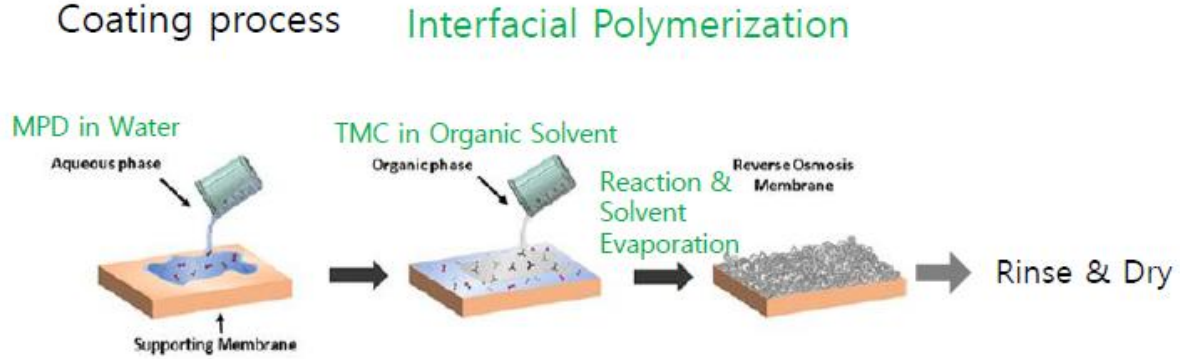
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2.2.2 TFN RO





RO active desalination layer embedded within the nanomaterial



Appropriate desalination

- nanomaterial;
- Customized desalination rates according to usage scenarios;

Low consumption

- The 34mil ultra-low pressure differential water inlet screen .

High stain resistance

- Good pollution resistance;
- Long cleaning period.

Long service life

- Low cleaning frequency;
- 100% performance testing of products。

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2.2.3 Technology advantages



Good water quality

The world's top double-membrane technology, and the comprehensive water yield can reach 75%;



Low operating costs

No-aerated PTFE technology, TFN RO technology, energy consumption is reduced by 50%;



Strong anti-risk ability

It can cope with industrial wastewater with high pollution concentration, oil, PVA, and complex composition;



Long service life

The service life of PTFE is 3 times that of traditional PVDF; The box is treated with special coating anti-corrosion, and the service life is ≥ 15 years;



Small footprint

Direct filtration technology can greatly shorten the process flow and reduce the floor space;



High degree of intelligence

Intelligent operation and maintenance system and intelligent cloud technology can provide remote monitoring and data analysis.

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2.2.4 Application scenarios



Steel



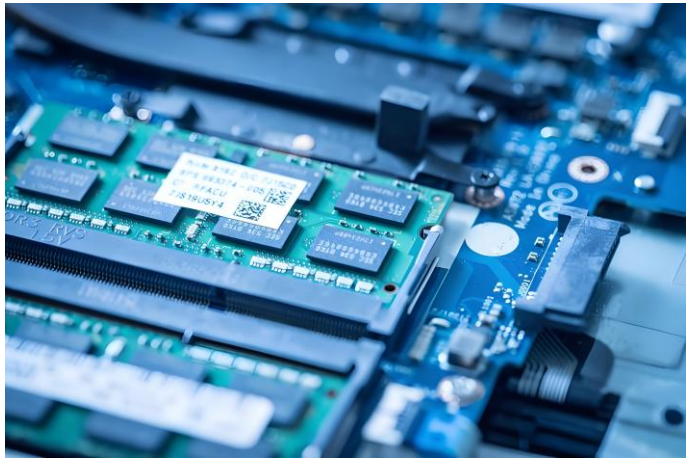
D&P



Chemical industry



Recycled water



Electron



Mine water

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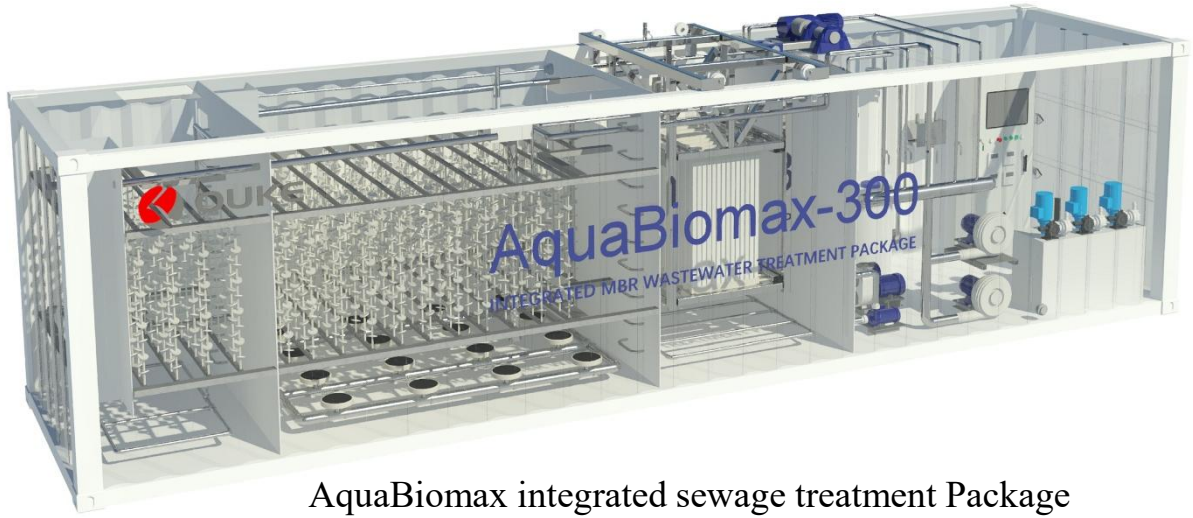
AquaBiomax/MABR
Integrated sewage treatment Package



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2.3.1 Principle



AquaBiomax integrated sewage treatment Package



High-efficiency hydrophilic denitrification filler



AquaMABR integrated sewage treatment Package



MABR filler

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2.3.2 Technology advantages



The water is up to standard

High-efficiency hydrophilic denitrification packing is coupled with no-aeration PTFE-MBR process.



Low operating costs

The energy consumption per ton water < 0.3kw·h， Traditional process is 0.5-0.8kw·h；



Strong anti-risk ability

It can cope with industrial wastewater with high pollution concentration, oil, PVA, and complex composition;



Long service life

The service life of PTFE is 3 times that of traditional PVDF; The box is treated with special coating anti-corrosion, and the service life is ≥ 15 years;



Convenient to stop and overhaul

PTFE membrane can be stored dry ,while PVDF membrane, afraid of dehydration



High degree of intelligence

Intelligent operation and maintenance system and intelligent cloud technology can provide remote monitoring and data analysis.

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2.3.3 Application scenarios



Township



Emergency place



Hospital



High-speed service area



Tourist attractions



Industrial Park

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AquaSea/River
Integrated desalination Package



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2.4.1 Principle



Multi-media filter+RO

500 m³/d
Daily water production capacity of a single unit

40 HQ
Dimensions of a single unit



UF+RO

1000 m³/d
Daily water production capacity of a single unit

40 HQ
Dimensions of a single unit

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2.4.2 Technology advantages



The water is up to standard

Nano-coating technology to achieve 99.89% desalination efficiency;



Low operating costs

The energy consumption per ton water < 2.4 kW·h, which is 20% lower than that of traditional energy consumption.



Small footprint

Modular design, integrated integration;



Long service life

High-quality desalination membrane;

The box is treated with special coating anti-corrosion, and the service life is ≥ 15 years;



Wide range of applications

It is suitable for multiple scenarios such as ships, islands, and coastal cities .



High degree of intelligence

Intelligent operation and maintenance system and intelligent cloud technology can provide remote monitoring and data analysis.

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2.4.3 Application scenarios



Construction sites



Oil rigs



Ocean-going vessels



Island residents



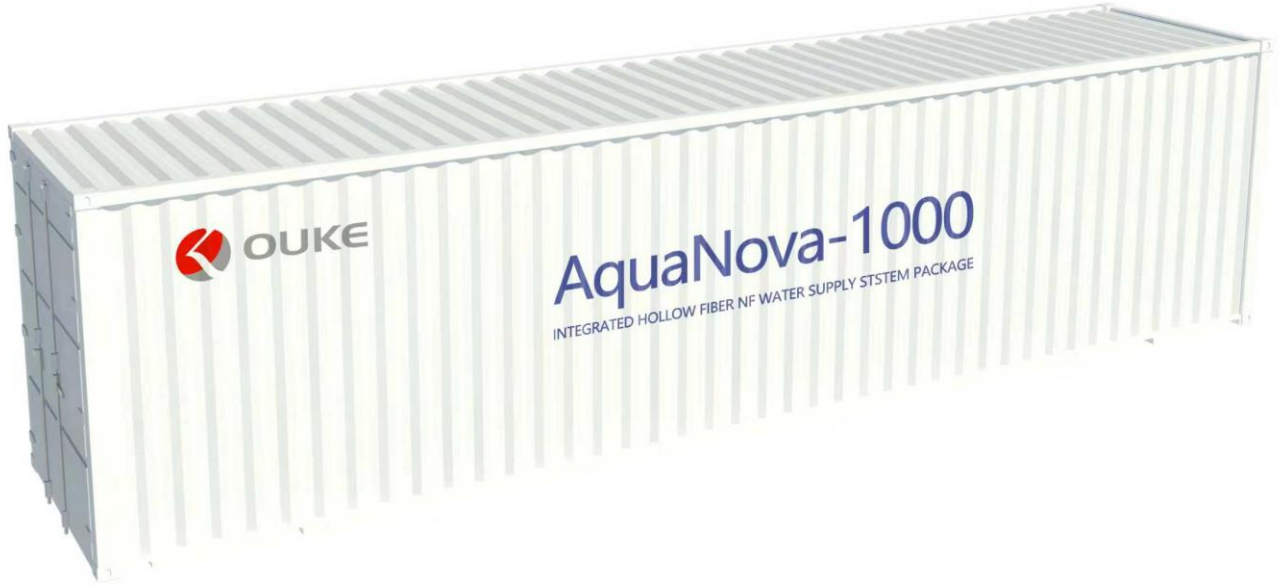
Emergency water supply for the factory



Hotel resorts

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AquaNova
Integrated high-quality water supply Package



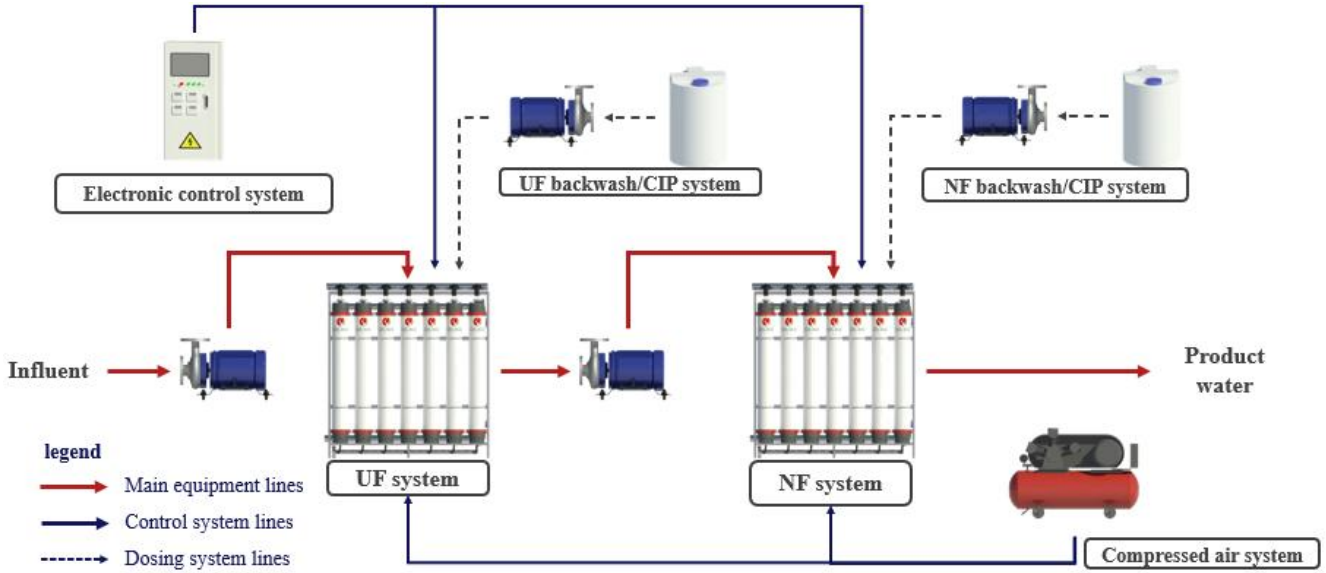
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2.5.1 Principle： UF+NF



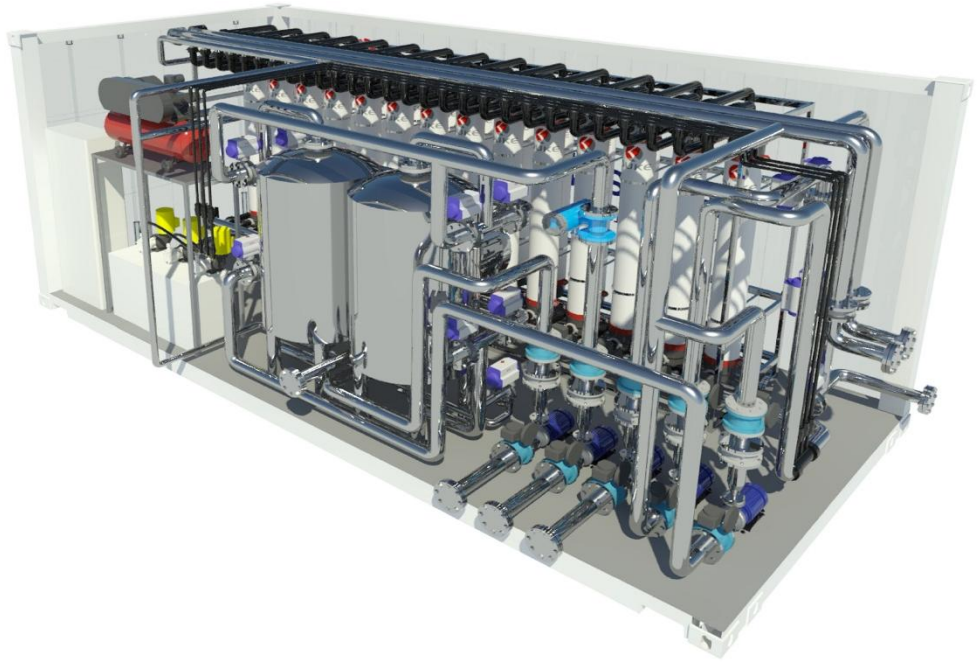
Integrated rendering



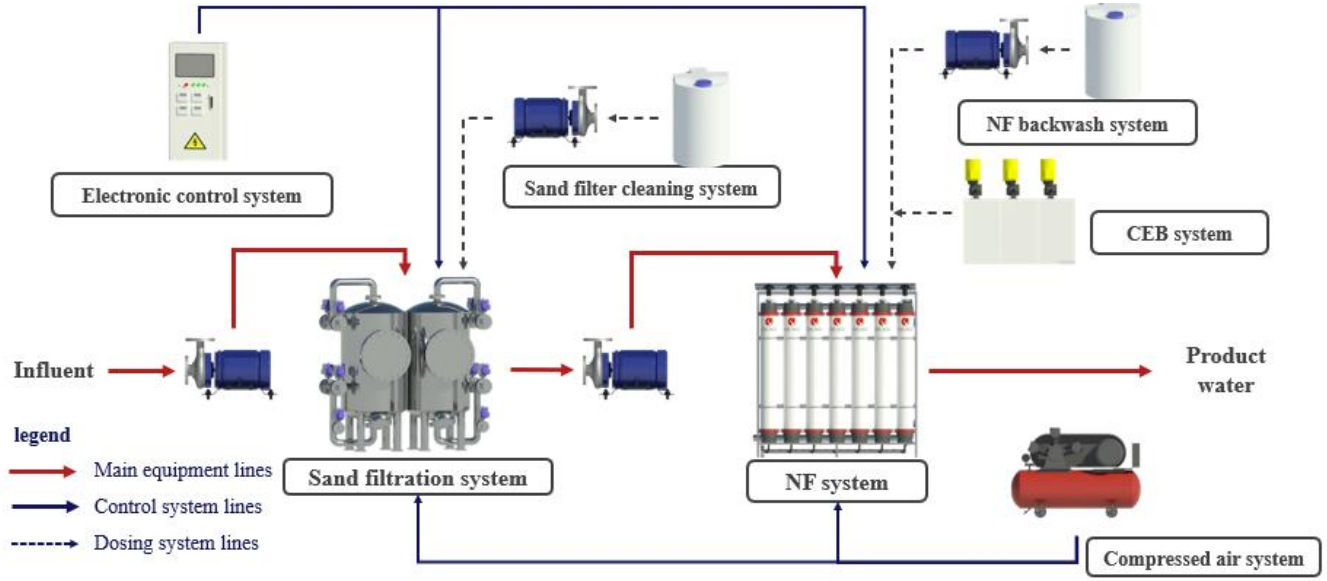
UF+NF flow chart

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2.5.1 Principle：SF+NF



Integrated rendering



SF+NF flow chart

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2.5.2 Technology advantages



Efficient and stable

It can remove organic matter, colloids, suspended solids, COD, hardness, etc. in water at the same time



Low operating costs

It can remove divalent salts without adding hardening agents.



Small footprint

Modular design, integrated integration;



Large yielding water flux

The unique "hollow" structure can filter both the inner and outer surfaces, the water yield flux is about 1.5 times that of the tubular membrane.



Wide range of applications

It is suitable for river and lake water, industrial recycled water, coastal cities and other high-hardness and SS reclaimed water supply.



High degree of intelligence

Intelligent operation and maintenance system and intelligent cloud technology can provide remote monitoring and data analysis.

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2.5.3 Application scenarios



Drinking water treatment



Municipal water plant renovation



Ocean water supply



Bitter brackish water purification



Emergency water supply for the factory



Decentralized water supply

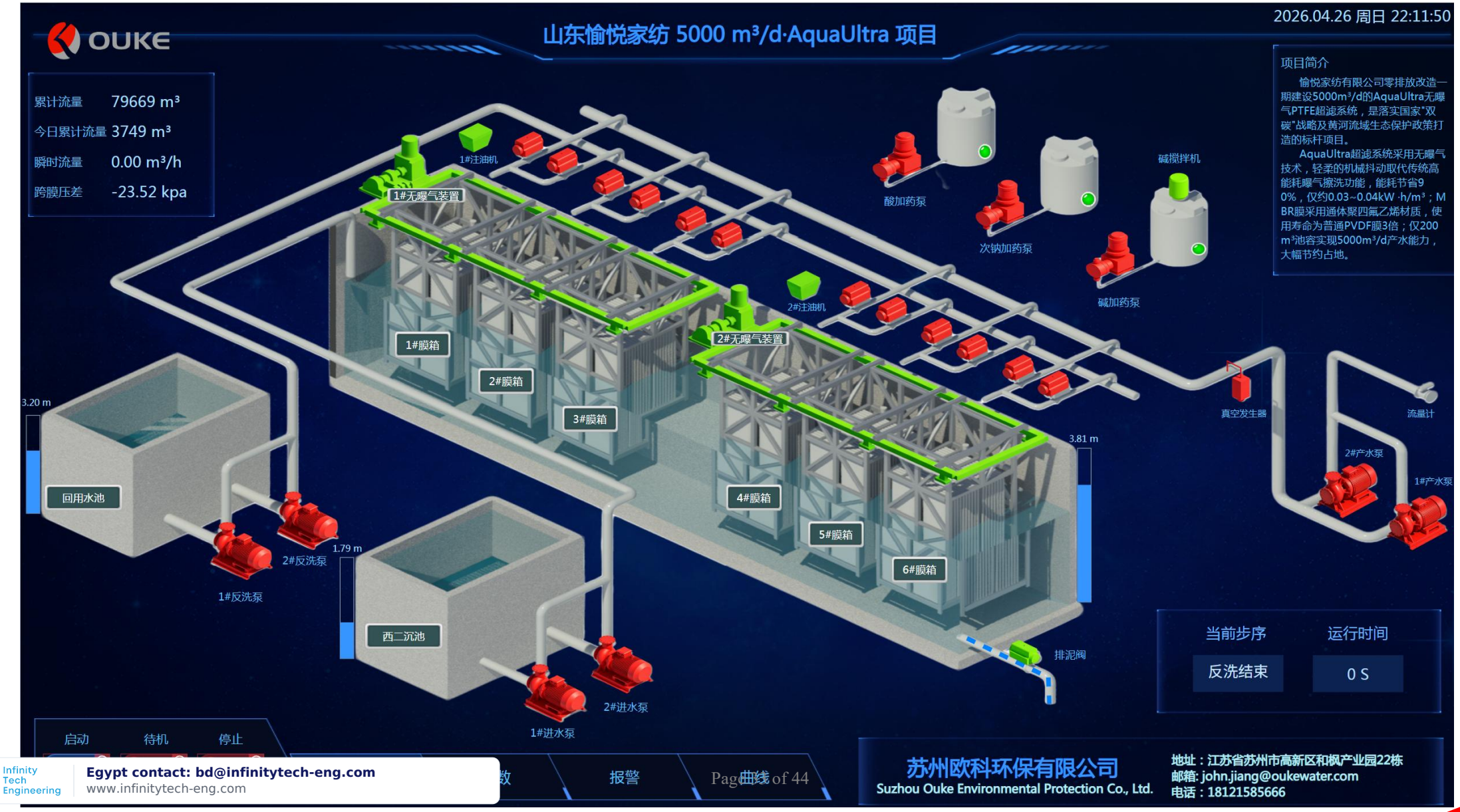
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AquaGlobal
Globally Connected



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2.6 AquaGlobal Globally Connected



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2.6 AquaGlobal Globally Connected

01

Equipment operation monitoring system

- Real-time sensing and precise warnings
- AI empowerment
- Proactive operations and maintenance,

02

Warning and decision-making systems

- Real-time water quality monitoring
- Multiple data analyses to evolve data models
- Scientific decision-making support and provision of emergency plans

03

User service platform

- Targeting user needs and providing precise services
- One-touch remote control, convenient and efficient
- Upgrade backend feedback for scientific guidance

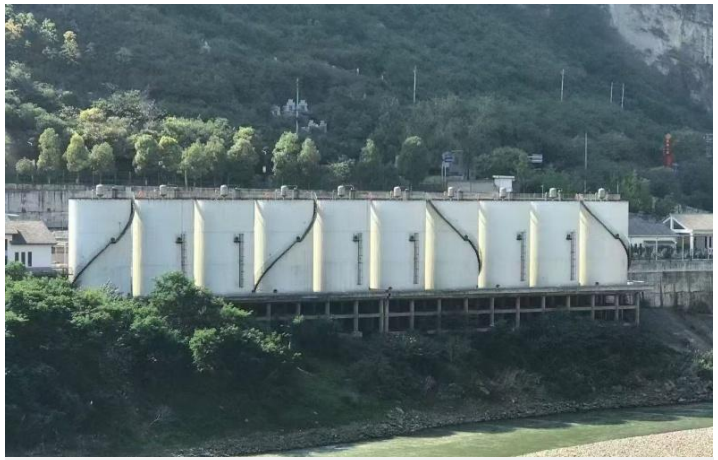
配备OUKE全球互联技术支持

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03 Typical cases

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3 Typical Cases



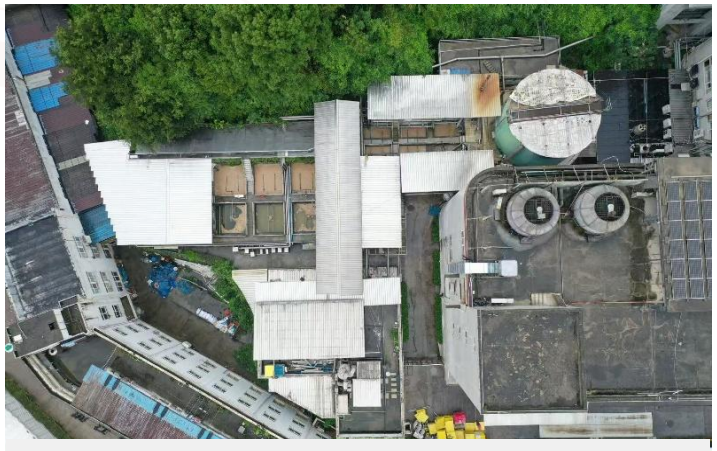
5,000 m³/d Baijiu Wastewater Treatment Project in Sichuan



800 m³/d Food Wastewater Treatment Project in Guangxi



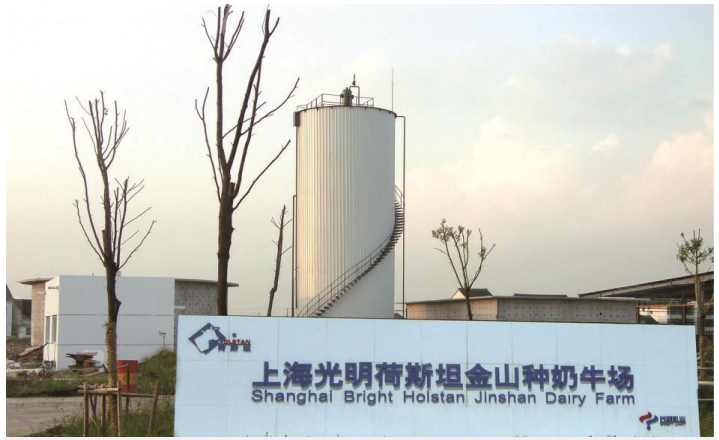
7000 m³/d Soybean Wastewater Treatment Project in Zhejiang



1,200 m³/d Diary Wastewater Treatment Project in Zhejiang



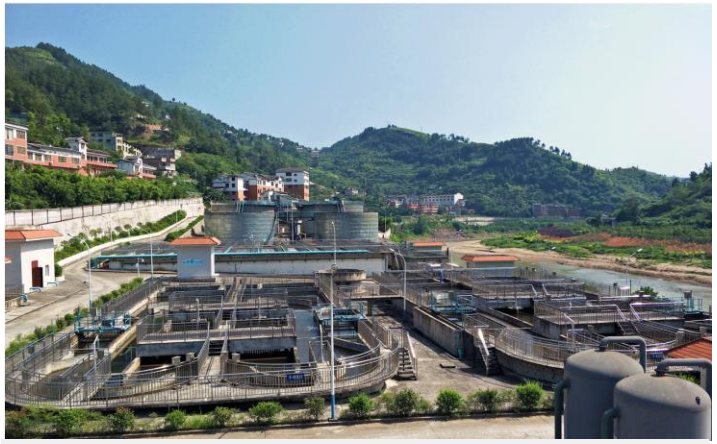
3,000 m³/d Soybean Wastewater Treatment Project in Zhejiang



5,000 m³/d Diary Wastewater Treatment Project in Shanghai

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3 Typical Cases



5,000 m³/d Baijiu Wastewater Treatment Project in Guizhou



1,000 m³/d Diary Wastewater Treatment Project in Jiangsu



350 m³/d Food Wastewater Treatment Project in Anhui



1,000 m³/d Food Wastewater Treatment Project in Anhui



2,000 m³/d Food Wastewater Treatment Project in Anhui



4,000 m³/d Beer Wastewater Treatment Project in Shandong

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3 Typical Cases



12,000 m³/d Printing & Dyeing Wastewater Zero Discharge Project in Morocco



1,200 m³/d Electroplating Wastewater Reuse Project in Anhui



10,000 m³/d Printing & Dyeing Wastewater Treatment and Reuse Project in Fujian



20,000 m³/d Printing & Dyeing Wastewater Treatment and Reuse Project in Wuxi



9,000 m³/d Printing & Dyeing Wastewater Treatment Project in Fujian



6,000 m³/d Printing & Dyeing Wastewater Reuse Project in Vietnam

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3 Typical Cases



500 m³/d Printing & Dyeing Wastewater Reuse Project in Cambodia



1,000 m³/d Printing & Dyeing Wastewater Reuse Project in Nantong



1,500 m³/d Printing & Dyeing Wastewater Reuse Project in Nantong



5,000 m³/d Printing & Dyeing Wastewater Reuse Project in Shandong



10,000 m³/d Printing & Dyeing Wastewater Treatment & Reuse Project in Fujian



1,200 m³/d Printing & Dyeing Wastewater Treatment & Reuse Project in Changshu

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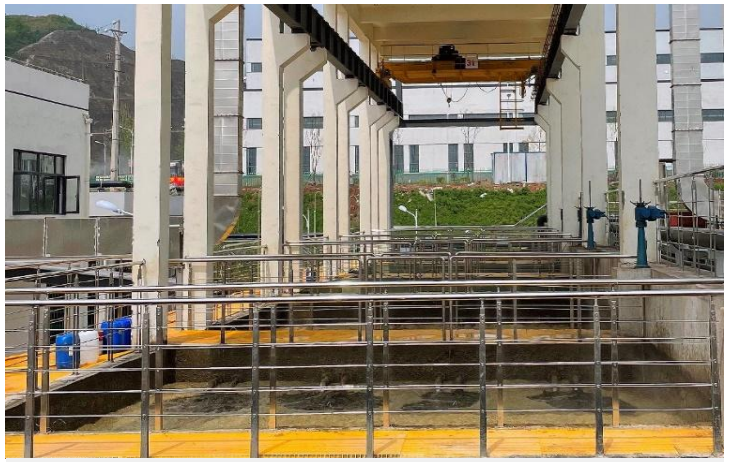
3 Typical Cases



150 m³/d Incinerator leachate Treatment Project in Hubei



2,100 m³/d Landfill Leachate Treatment Project in Shenzhen



1,000 m³/d Kitchen Biogas Slurry Treatment Project in Chongqing



200 m³/d Kitchen Wastewater Treatment Project in Hubei



2,500 m³/d Pharmaceutical Wastewater Treatment Project in Lianyungang



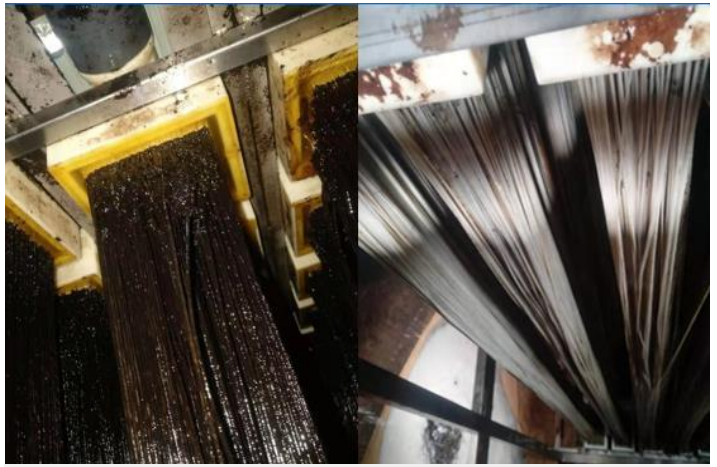
2,000 m³/d Steel Wastewater Reuse Project in Jiangsu

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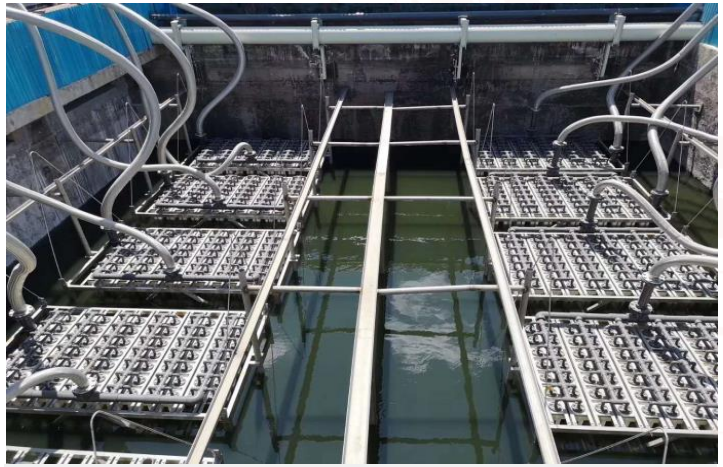
3 Typical Cases



29,000 m³/d Coal Chemical Wastewater Treatment & Reuse Project in Inner Mongolia



1,000 m³/d Semi-coke Wastewater Treatment Project in Shaanxi



4,800 m³/d Coal-to-methanol Wastewater Treatment Project in Yunnan



2,000 m³/d Steel Wastewater Treatment Project in Guangzhou



28,800 m³/d Steel Wastewater Reuse Project in Jiangxi



3,000 m³/d Steel Wastewater Treatment Project in Hubei

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3 Typical Cases



150 m³/d Electronics Wastewater Reuse Project in Sichuan



7,000 m³/d Industrial Park Wastewater Treatment Project in Kendari



500 m³/d D&P Wastewater Reuse Project in Zhejiang



20,000 m³/d Seawater Desalination Project in Morocco



2,800 m³/d Seawater Desalination Project in Dalian



2,500 m³/d Seawater Desalination Project in Mauritania

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3 Typical Cases



15,000 m³/d Municipal Water Supply Project in Bengbu



8,000 m³/d Municipal Sewage Reuse Project in Guangxi



20,000 m³/d Municipal Water Supply Project in North China



1,000 m³/d Municipal Sewage Project in Norway



1,000 m³/d D&P Wastewater Reuse Project in Vietnam



250 m³/d Leachate Treatment Project in Zhejiang

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3 Typical Cases



100,000 m³/d Papermaking Wastewater Treatment and Reuse Project in Anhui



4,000 m³/d Kitchen Wastewater Treatment Project in Chongqing



25,000 m³/d Industrial Wastewater Treatment and Reuse Project in Zhejiang



35,000 m³/d Industrial Wastewater Treatment and Reuse Project in Gansu



4,500 m³/d Electroplating Wastewater Treatment and Reuse Project in Shenzhen



12,500 m³/d P&D Wastewater Treatment and Reuse Project in Huzhou

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OUKE Water Treatment Solutions

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