PERFORMANCE DISTRIBUTION



SUCCESSFUL SERVICE
2000+ PROJECTS

DAILY PROCESSING WATER VOLUME
1200+ TEN THOUSAND TONS

APPLICATION SCENARIOS



POTABLE WATER & MUNICIPAL USE
Safe, reliable water treatment for cities, towns, and communities.



INDUSTRIAL PARK
Chemical, printing and dyeing, leather, electroplating, food processing and more



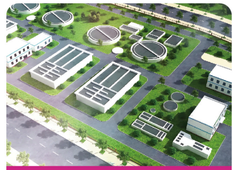
DECENTRALIZED & REMOTE APPLICATIONS
Resorts, highway service areas, mining camps, military bases, and small communities.



LANDFILL LEACHATE
Effective treatment of heavily polluted, complex leachate streams.



HIGH-STRENGTH ORGANIC WASTEWATER
Food processing, biopharmaceutical , distilleries, and similar industries



MUNICIPAL SEWAGE

MISSION | Committed to achieving wastewater reuse and zero liquid discharge through technological innovation

VISION | Becoming a globally leading provider of water treatment solutions

VALUES | Honesty Integrity Innovation Cooperation

Infinity Tech Engineering

Local business contact for the Egyptian market

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OUKE®

AUQAULTRA™ NON-AERATED PTFE ULTRAFILTRATION PACKAGE



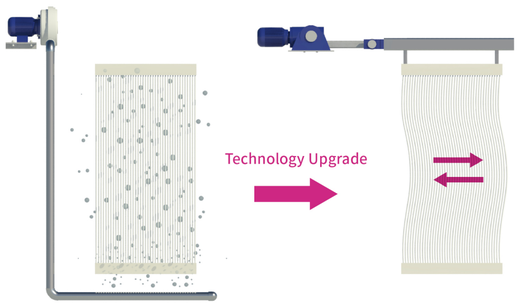
RECLAIM WASTEWATER · REGENERATE LIFE

■ COMPANY PROFILE

Suzhou OUKE Environmental Protection Co., Ltd.(OUKE WATER TECHNOLOGIES PTE. LTD.) has been dedicated to water resource regeneration for over twenty years. Leveraging top international technology and innovative teams, we are committed to achieving wastewater reuse and zero discharge. Our services span desalination, textile dyeing, steel, coal chemical, electroplating, municipal, and leachate treatment, serving over 2,000 clients worldwide. We continuously drive industry standard upgrades, helping clients realize both environmental and economic benefits. Looking ahead, we will continue to empower every drop of water with scientific innovation.



■ PRODUCT OVERVIEW



Conventional MBR Systems rely on blower aeration to generate upward air flow, causing membrane fibers to vibrate and preventing sludge accumulation.

The AuqaUltra™ Next-Generation System introduces a revolutionary alternative:

Mechanical Reciprocating Motion: Creates relative movement between the membrane fibers and the mixed liquor.

Non-Aerated Design: Gentle mechanical vibration replaces air scouring, eliminating the need for continuous blower operation.

Anti-Fouling Effect: The inertial force from the reciprocating motion keeps membranes clean and minimizes fouling.

■ EQUIPMENT DISPLAY



■ KEY ADVANTAGES

Ultra-Low Energy Consumption

Mechanical motion replaces air scouring. No blowers needed, saving up to 90% energy compared with conventional PVDF-MBR systems.

Ultra-Low Chemical Demand

Thanks to the fouling-resistant PTFE membranes, chemical cleaning is needed far less often—cutting chemical usage and OPEX significantly.

Ultra-Long Membrane Lifespan

PTFE membranes last up to 3× longer than PVDF. The reinforced tank with anti-corrosion coating ensures a system service life of 15+ years.

Ultra-Stable Water Quality

High-flux hydrophilic PTFE membranes deliver consistent, compliant effluent even under variable loads and challenging wastewater conditions.

Ultra-Simple Operation & Maintenance

Dry in-situ cleaning is possible without the dehydration risk of PVDF. The system can be stopped and restarted anytime, ensuring maximum flexibility.

Ultra-Flexible Applications

Modular design adapts easily to biological treatment units, chemical precipitation units, and a wide range of industrial or municipal scenarios.

■ MAIN PERFORMANCE

Models & Dimensions

MODEL	DESIGN FLUX	CAPACITY (M^3/D)	DIMENSIONS (L×W×H)	INSTALLED POWER (KW)	EMPTY WEIGHT (T)	FULL WEIGHT (T)
AquaUltra-1000	10-30 LMH	300-1000 m^3/d	6058×2438×2896 mm	6-15 kW	7 t	25 t
			20×8×9'6" ft		6.89 lt	25.63 lt
AquaUltra-3000	10-30 LMH	1000-3000 m^3/d	12192×2438×2896 mm	15-32 kW	12 t	61 t
			40×8×9'6" ft		11.82 lt	60.09 lt

Remarks:

AquaUltra: Non-Aerated PTFE Ultrafiltration Package

Technical Specifications

PARAMETER	UNIT	INFLUENT QUALITY	EFFLUENT QUALITY
Water Temperature	℃	12~35	12~35
COD	mg/L	< 500	< 500
SS	mg/L	< 15000	-
Hardness	mg/L	< 500	< 500
SDI	-	-	< 5

Power requirements

VERSION	ISO (CHINA)	ISO (SPAIN)	ASME (AMERICA)	ASME (CANADA)
Voltage	380 V	380 V	460 V	460 V
Frequency	50HZ	50HZ	60HZ	60HZ
Phase	3	3	3	3