PERFORMANCE DISTRIBUTION



SUCCESSFUL SERVICE
2000+ PROJECTS

DAILY PROCESSING WATER VOLUME
1200+ TEN THOUSAND TONS

APPLICATION SCENARIOS


Town



Emergency Shelter


Hospital



Expressway Service Area



Tourist Attraction


Mine Water

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

EGYPT CONTACT

INFINITY TECH ENGINEERING

bd@infinitytech-eng.com

+20 100 615 0560

www.infinitytech-eng.com

Business Hive, 46 Abdelrazek Elsenhory,
Nasr City, Cairo, Egypt

Infinity Tech Engineering

OUKE®

AQUABIOMAX™ INTEGRATED WASTEWATER TREATMENT PACKAGE



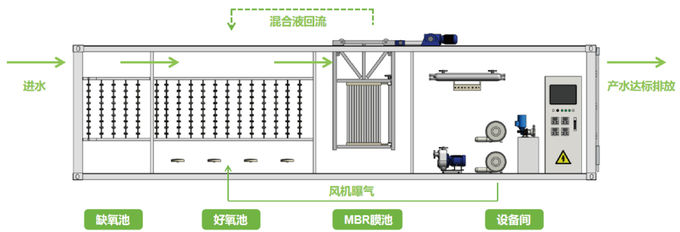
RECLAIM WASTEWATER · REGENERATE LIFE

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.

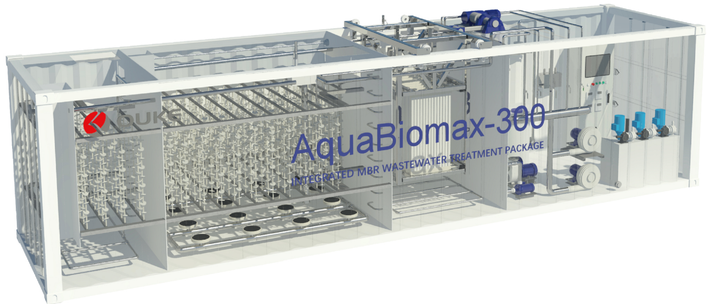


PRODUCT OVERVIEW



AquaBiomax™ integrated wastewater treatment equipment combines advanced simultaneous nitrification-denitrification technology with MBR membrane separation. By coupling high-efficiency hydrophilic nitrogen removal media with a non-aerated PTFE MBR, the system achieves high-quality effluent at low energy consumption. This solution offers low operating costs, a compact footprint, easy installation, and unattended operation. Equipped with an intelligent operation and maintenance system and cloud-based monitoring, it provides remote supervision and data analytics to ensure stable, energy-efficient performance. Its modular design makes it especially suitable for treatment scenarios in townships, schools, and emergency response situations. We deliver a one-stop, high-efficiency wastewater treatment solution to support environmental protection and sustainable development.

EQUIPMENT DISPLAY



KEY ADVANTAGES

Stable Compliance-level Effluent

Coupling of high-efficiency hydrophilic nitrogen removal fillers with non-aerated PTFE MBR

Extended Service Life

PTFE membranes last three times longer than PVDF, tank coating ensures ≥15 years of corrosion protection

Low Operating Costs

Energy consumption <0.3 kW·h/m³ vs. 0.5–0.8 kW·h/m³ for traditional processes

Convenient Maintenance

PTFE membranes can be stored dry and brought back online without rewetting

Excellent Risk Resistance

Robust performance for high-strength, oily, PVA-containing, and complex industrial wastewater

Highly Intelligent

Advanced smart O&M and cloud technology for remote monitoring and data analysis

MAIN PERFORMANCE

Models & Dimensions

MODEL	CAPACITY (M^3/D)	DIMENSIONS (L×W×H)	INSTALLED POWER (KW)	OPERATING POWER (KW)	EMPTY WEIGHT (T)	FULL WEIGHT (T)
AquaBiomax-100	100 m^3/d	9125×2438×2896 mm	4.61 kW	2.14 kW	6.5 t	32 t
		30×8×9'6" ft			6.4 lt	31.49 lt
AquaBiomax-300	300 m^3/d	12192×2438×2896 mm	7.77 kW	3.89 kW	10 t	60 t
		40×8×9'6" ft			9.84 lt	59.05 lt
AquaBiomax-500	500 m^3/d	13716×2438×2896 mm	9.27 kW	4.58 kW	12 t	85 t
		45×8×9'6" ft			11.81 lt	83.65 lt

Remarks:

AquaBiomax: Integrated Wastewater Treatment Package

Technical Specifications

PARAMETER	UNIT	INFLUENT QUALITY	EFFLUENT QUALITY
Minimum Water Temperature	℃	12	12
	℉	31	31
Maximum Water Temperature	℃	40	40
	℉	104	104
COD	mg/L	300	50
SS	mg/L	200	10
Ammonia Nitrogen	mg/L	35	5
Total Nitrogen	mg/L	40	15
Total Phosphorus	NTU	4	0.5

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