



Integrated MBR Wastewater Treatment Process

This plant is geographically based near Xuanwu Lake, center of Nanjing City. Jiangsu Kaimi Membrane Technology Co.,Ltd undertook the responsibilities of design, construction, equipment integration, installation, commissioning, operation, etc. The construction of Xuanwu Lake Water Purification Plant was completed and put into operation within 3 months.

The classic garden architectural design of the plant perfectly blends in with Xuanwu Lake's natural scenery. Covering an area of about 1500m², the plant is designed to a purification capacity up to 30000m³/day.

The plant mainly applies the world advanced Koch Puron Submerged Hollow Fiber MBR System and facultative FBBR (fixed-bed bio-film) patented technology to constructing closed or semi-closed integrated equipment with different functions.

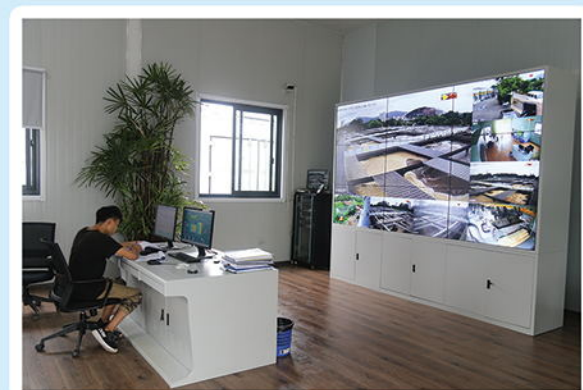
Project Details

- Project Location: **Jiangsu, China**
- Treatment Capacity: **Up to 30,000m³/d**
- Operation Started: **March, 2019**
- Main Technologies: **Koch Puron MBR PSH1800**
Facultative FBBR

Water Parameters

Item	Unit	Inlet water	Outlet water
COD	mg/L	100-150	<40
BOD5	mg/L	50-80	<10
SS	mg/L	180-700	0
NH3-N	mg/L	10-20	<1.5
TP	mg/L	<5	<0.4

Project Overview



Project Highlights >>>

■ Process Advantages

■ An Integrated MBR System with High Impact Resistance

1. High and stable quality of water output: the filtration accuracy of MBR membrane module is up to 30nm, and the rate of permeate suspension and turbidity are close to zero;
2. Membrane elements with high mechanical strength, great antifouling performance and long service life;
3. The concentration of microorganisms in the bioreactor is 2~3 times higher than conventional technology, up to 8000 mg/L;
4. The membrane module has a high packing density and small footprint, can save the construction land by 30-50% compared to conventional technology;
5. Less produced sludge, and the residual sludge discharge is 66.7% less than that of other technologies.

■ The Effective Combination of Biofilm reactor and MBR Technology

■ Applications

Low Concentration Sewage Water Purification

High Concentration Industrial Wastewater Treatment

Integrated Rural Sewage Treatment

Small Scale Municipal Sewage Treatment Plant



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