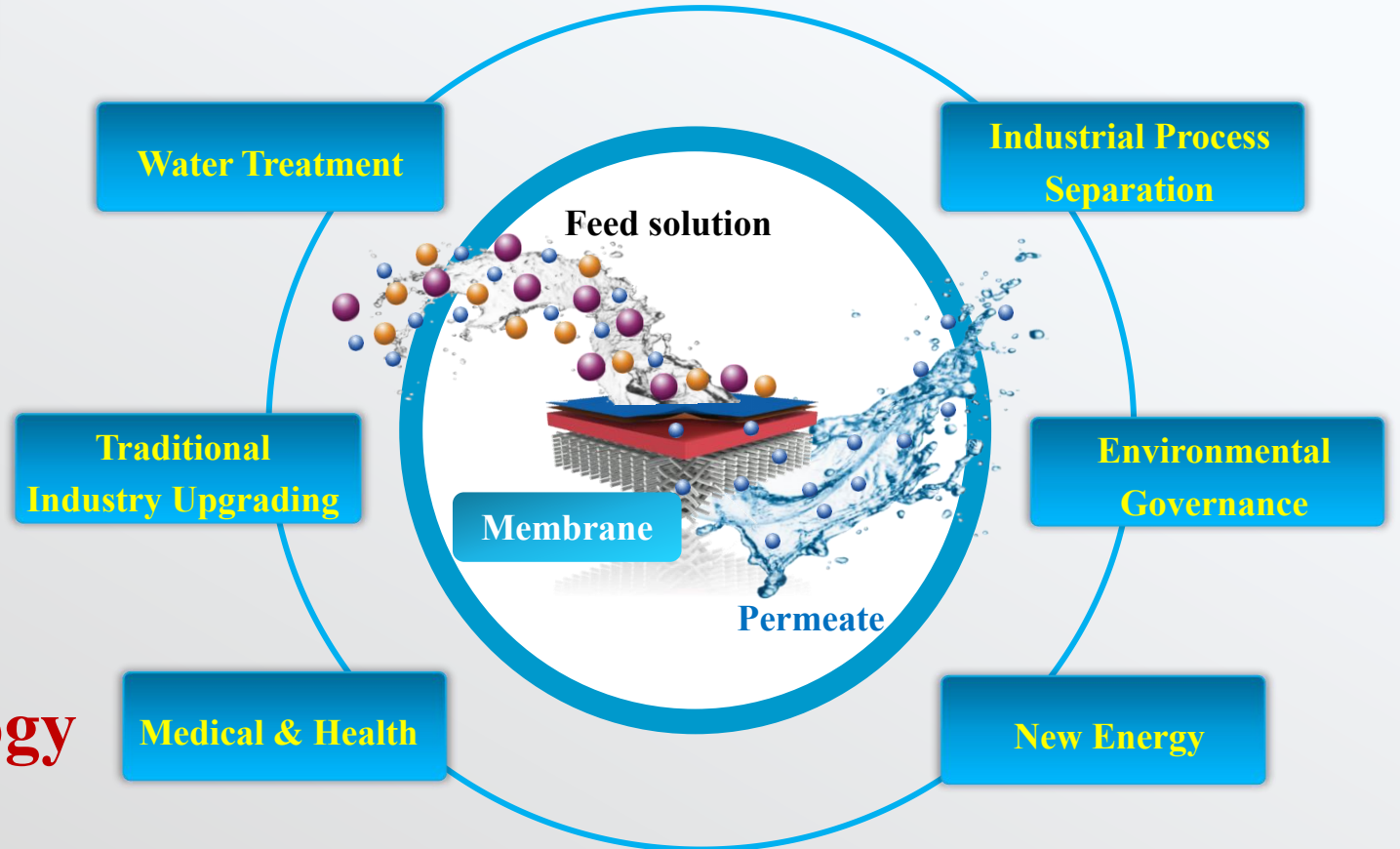


# Anhui Cooperate Environment Technology Products Introduction



**Focus on Membrane Technology**

# Integrated MBR Sewage Treatment System

No.	Model	Capacity (m <sup>3</sup> /d)	Size (m)	Installed Power (kw)	Discharge standard	Treatment Process
1	KBR-SA50	50	7.0×2.4×2.8	9.0	KBR-SA50	A2O+MBR



# Integrated MBR System

## Product Overview

The containerized integrated sewage treatment equipment, also known as corrugated board integrated sewage treatment equipment, features an exterior made entirely of corrugated steel plates. This design offers an attractive appearance and high strength.

The containerized integrated sewage treatment equipment has evolved to its third generation after years of development. The four corner columns of the box have also been redesigned from the traditional container construction method, adopting an integrated molding approach. The internal structure of the equipment has been fully integrated with the corrugated board structure based on years of production experience. This includes components such as the internal sludge hopper, distribution system, and weir structures.

## Technical Features

1. The appearance relies on corrugated plates, offering both aesthetic appeal and high strength.
2. Dimensions are not limited to standard container sizes; customization is available with flexible options.
3. Treatment units can be designed as single or multiple sets, tailored to site conditions.
4. Unrestricted by process constraints, various technologies such as A/O, AA/O, AO+MBR, MBBR, etc., can be used.
5. Can be installed either underground or above ground.
6. Options are available for including equipment rooms or adjustment tanks

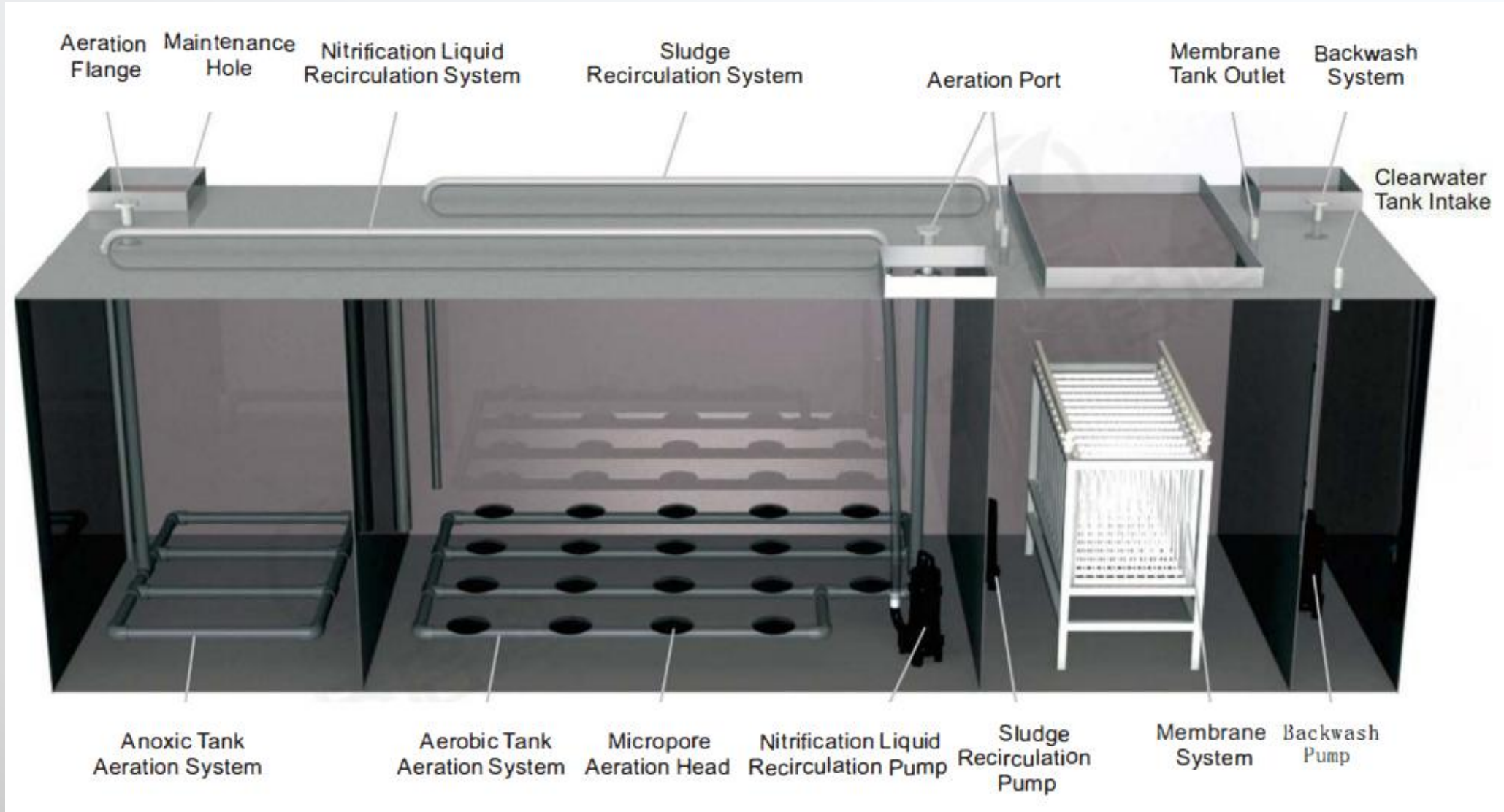
# Integrated MBR System

## Performance Parameters

The core component of the equipment is the Membrane Bioreactor (MBR). The influent and effluent water quality parameters are as follows:

No.	Specification	Influent Indicators	Effluent Indicators
1	pH	6.0-9.0	6.0-9.0
2	COD(mg/L)	<500	<50
3	BOD(mg/L)	<350	<10
4	Ammonia Nitrogen(mg/L)	<45	<5(8)
5	TP(mg/L)	<5	<0.5

# Integrated MBR System



# Integrated MBR Sewage Treatment System (50m<sup>3</sup>/day)

Name / Item	Capacity	MBR Membrane Type	Permeate Standard	Installed Power (kw)	L*W*H (m)	Type
KBR-SA50	50m <sup>3</sup> /day	PVDF Hollow Fiber	Grade 1 Level A Standard	9.0	7.0×2.4×2.8	Ground type
Process Description	Domestic sewage---A2O+MBR—Direct discharge to natural environment					
Power Supply	Voltage: 220V/380V/440V, 50~60Hz, three-phase; Protection level: IP54					
System Features	<ul style="list-style-type: none"> <li>➢ Siemens Global Screen 10" color display, touch screen control</li> <li>➢ Siemens smart200 PLC, RS232/NET communication</li> <li>➢ High pressure pump configuration inverter</li> <li>➢ Automatic water rinse when shutting down</li> </ul>			<ul style="list-style-type: none"> <li>➢ CIP cleaning system</li> <li>➢ Automatic dosing system</li> <li>➢ Modular equipment, plug and play</li> <li>➢ Remote monitoring system</li> </ul>		
Key Parameters	Influent Indicators			Effluent Indicators		
	<ul style="list-style-type: none"> <li>➢ PH 6.0-9.0</li> <li>➢ COD(mg/L) &lt;500</li> <li>➢ BOD(mg/L) &lt;350</li> <li>➢ Ammonia Nitrogen(mg/L) &lt;45</li> <li>➢ TP(mg/L) &lt;5</li> </ul>	<ul style="list-style-type: none"> <li>➢ PH 6.0-9.0</li> <li>➢ COD(mg/L) &lt;50</li> <li>➢ BOD(mg/L) &lt;10</li> <li>➢ Ammonia Nitrogen(mg/L) &lt;5(8)</li> <li>➢ TP(mg/L) &lt;0.5</li> </ul>				
Documents	<ul style="list-style-type: none"> <li>➢ Operation and Maintenance Manual</li> <li>➢ Certificate of Conformity</li> <li>➢ Process Flow Diagram,</li> </ul>			<ul style="list-style-type: none"> <li>➢ Electrical Diagram</li> <li>➢ Assembly Drawing</li> </ul>		
Material	<ul style="list-style-type: none"> <li>➢ Tank Outside..... CS+Anti-corrosion</li> <li>➢ Pipeline.....UPVC or PP</li> <li>➢ MBR Membrane Frame.....SS304</li> </ul>			<ul style="list-style-type: none"> <li>➢ Tank Inside..... FRP Anti-corrosion</li> <li>➢ Electric Control Cabinet.....IP54 CS+Anti-corrosion</li> </ul>		

## Case 1-Integrated MBR System Cases

The integrated MBR+NaClO disinfection process integrates membrane separation and high-efficiency disinfection, featuring small footprint and high automation. It deeply removes suspended solids and pathogens, ensuring stable and excellent effluent quality for easy discharge. Easy to install, simple to operate and maintain, it effectively resolves pain points of limited land and non-compliant effluent.



Client	Anhui	
Item	Feed Water	Effluent Water
Capacity (m3/d)	60	60
COD (mg/L)	<350	<40
NH <sub>3</sub> -N(mg/L)	40~50	<10
TP (mg/L)	2.5-3.0	<0.3
Colibacillus (MPN/L)	10 <sup>6</sup> ~ 10 <sup>8</sup>	<10

**Application: Domestic Wastewater or Hospital Wastewater**