



荣建环保化工填料有限公司
Rongjian Environmental Protection Chemical Packing Co., Ltd

MBBR + Water Treatment Integrated Solution Provider

MBBR水处理产品目录册





企业文化

Company Culture

1. Corporate Mission

- Enable all employees to experience growth and peace of mind
- Ensure all customers feel satisfaction and confidence
- Allow all employees to share in the gains and wealth

2. Corporate Philosophy

- Rongjian Environmental Protection — Sincerely serving customers with high-quality products

3. Corporate Spirit

- Innovation, Confidence, Passion, Reward
 - Saving Energy Connect Us World And Future
 - Located in Pingxiang City
- was famous as the "Hometown of TowerPacking."
With over 15 years of industry experience in Manufacturing & Exporting.

FACTORY DISPLAY

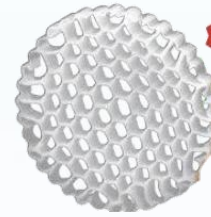
We have a professional production factory



Advantage

RONGJIAN MBBR Bio Filter Media

- Special design of surface, stronger bio-film growth capacity;
- Large specific surface area, high voidage, the more periphyton biomass;
- Unique design of structure and shape according to hydromechanics, strong three-dimensional flow dynamics in the water;
- Adding hydrophilic groups and other trace elements, the biofilm formation time only 3-15 days;
- Excellent impact strength, strong gas shear capacity;
- Without any holder, easy to cure, save energy and space.



NEW

NEW Product: PE85

Spec: Φ 36*4 mm

Surface Area: $>1200 \text{ m}^2/\text{m}^3$

Number of Hole: 85 hole

Life Span: > 15 year

Density: $0.94-0.97 \text{ g}/\text{cm}^3$

Material: HDPE



Model: PE01

Spec: Φ 12*9mm
Number of Hole: 4 holes
Density: $0.94-0.97 \text{ g}/\text{cm}^3$
Surface Area: $>800 \text{ m}^2/\text{m}^3$
Life Span: > 15 years
Material: HDPE



Model: PE02

Spec: Φ 11*7mm
Number of Hole: 4 holes
Density: $0.94-0.97 \text{ g}/\text{cm}^3$
Surface Area: $>900 \text{ m}^2/\text{m}^3$
Life Span: > 15 years
Material: HDPE



Model: PE03

Spec: Φ 10*7mm
Number of Hole: 5 holes
Density: $0.94-0.97 \text{ g}/\text{cm}^3$
Surface Area: $>1000 \text{ m}^2/\text{m}^3$
Life Span: > 15 years
Material: HDPE



Model: PE04

Spec: Φ 16*10mm
Number of Hole: 6 holes
Density: $0.94-0.97 \text{ g}/\text{cm}^3$
Surface Area: $>800 \text{ m}^2/\text{m}^3$
Life Span: > 15 years
Material: HDPE



Model: PE05

Spec: Φ 25*10mm
Number of Hole: 19 holes
Density: $0.94-0.97 \text{ g}/\text{cm}^3$
Surface Area: $>600 \text{ m}^2/\text{m}^3$
Life Span: > 15 years
Material: HDPE



Model: PE08

Spec: Φ 5*10mm
Number of hole: 8 holes
Density: $1.02-1.05 \text{ g}/\text{cm}^3$
Surface Area: $>3500 \text{ m}^2/\text{m}^3$
Life Span: > 15 years
Material: HIPS



Model: PE09

Spec: Φ 15*15mm
Number of Hole: 8 holes
Density: $0.94-0.97 \text{ g}/\text{cm}^3$
Surface Area: $>900 \text{ m}^2/\text{m}^3$
Life Span: > 15 years
Material: HDPE



Model: PE64

Spec: Φ 25*4mm
Number of Hole: 64 holes
Density: $0.94-0.97 \text{ g}/\text{cm}^3$
Surface Area: $>1200 \text{ m}^2/\text{m}^3$
Life Span: > 15 years
Material: HDPE



Model: PE37

Spec: Φ 25*10mm
Number of Hole: 37 holes
Density: $0.94-0.97 \text{ g}/\text{cm}^3$
Surface Area: $>800 \text{ m}^2/\text{m}^3$
Life Span: > 15 years
Material: HDPE



Model: PE38

Spec: Φ 25*10mm
Number of Hole: 38holes
Density: $0.94-0.97 \text{ g}/\text{cm}^3$
Surface Area: $>800 \text{ m}^2/\text{m}^3$
Life Span: > 15 years
Material: HDPE

RONGJIAN

BIOCHIP



Specific surface area up to

5500 m²/m³

BioChip Application



Food Industry



Municipal Sewage



Oil Refinery Industry



Textile Industry



Pharmaceuticals Industry



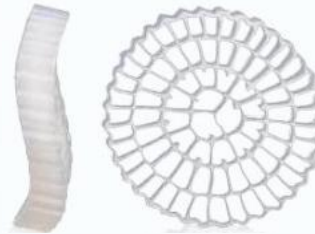
Pulp and Paper Industry



Product Data

Material	HDPE
Surface Area	5500m ² /m ³
Diameter	30mm
Thickness	1.1mm
Density	0.95±0.02 g/cm ³

Product Data



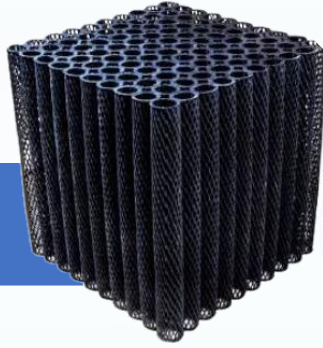
Model:PE75S

Material	HDPE
Surface Area	1600m ² /m ³
Spec	25*4mm
Number of Hole	75 holes
Density	0.94-0.97 g/cm ³

Model:PE79S

Material	HDPE
Surface Area	1700m ² /m ³
Spec	25*4mm
Number of Hole	79 holes
Density	0.94-0.97 g/cm ³





Bio-Block

- UV resistant
- Self supporting
- High porosity ensures: Sufficient aeration
- Increased efficiency reduced cost
- Biologically and chemically non-degradable
- Self cleaning does not clog
- Very resistant to deformation
- Easy to install and fit into any size or shape of bioreactor or tank
- Unique design and surface structure enhances development of biological film

Product Data

Type	Diameter	Surface Area	Density	Material
Bio Block 35	35mm	> 350m ² /m ³	0.96-0.98g/cm ³	HDPE
Bio Block 50	50mm	> 300m ² /m ³	0.96-0.98g/cm ³	HDPE
Bio Block 55	55mm	> 200m ² /m ³	0.96-0.98g/cm ³	HDPE
Bio Block 70	70mm	> 150m ² /m ³	0.96-0.98g/cm ³	HDPE
Bio Block 75	75mm	> 100m ² /m ³	0.96-0.98g/cm ³	HDPE



Tube Settler

Product Advantage

- ✦ Toughness Strong
- ✦ Corrosion Resistance
- ✦ Long Service Life
- ✦ Reduced Settling Distance
- ✦ Rapid Precipitation
- ✦ Grease Trap









Product Data

Material	PP			PVC		
Diameter	35mm	50mm	80mm	35mm	50mm	80mm
Sheet Quantity	40pcs/m ²	30pcs/m ²	20pcs/m ²	40pcs/m ²	30pcs/m ²	20pcs/m ²
Thickness	0.35-0.7mm	0.35-1mm	0.35-1.2mm	0.4-0.5mm	0.4-1mm	0.5-1mm
Proportion	0.92g/cm ³			1.35-1.46g/cm ³		
One Block Size	1000mm*1000mm*866mm			1000mm*1000mm*866mm		



Disc Diffuser

Product Advantage

-  Small Diameter, Uniform Bubbles
-  Corrosion Resistant
-  High Oxygen Utilization
-  Low Energy Consumption
-  High Efficiency
-  Long Service Life






Product Data

Item	φ215mm	φ270mm	φ330mm
Material	EPDM or Silicone Rubber		
Service Area	0.3-0.65m ² /h	0.4-0.8m ² /h	0.5-1m ² /h
Number of Holes	4000	6500	9500
Bubble Diameter	1-2mm	1-2mm	1-2mm
Service Life	>5year	>5year	>5year
Aeration Rate	1-3m ³ /h	2-4m ³ /h	4-8m ³ /h
Oxygen Transfer Capacity	≥0.27Kg/h	≥0.35Kg/h	≥0.52Kg/h
Oxygen Utilization Rate		≥35%	
Resistance Loss		≤3500Pa	
Hardnes sae)		43 Shore A	
Tensile Strength		14.6 Mpa	



Tube Diffuser

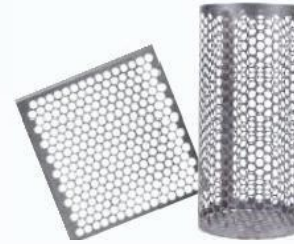
Product Advantage

-  Excellent Oxygen Transfer
-  Anti-Clogging
-  Corrosion Resistant
-  Wide Airflow Range Capacity
-  Easy Installation
-  Consistent Fine, Uniform Bubbles
-  Backflow Prevention
-  Intermittent Operation
-  EPDM/Silicone rubber membrane







Product Data

Type	φ65mm		
Spec	500mm/750mm/1000mm	Air Flow	5-10m ³ /h·m
Surface Area	0.8-1.2m ² /m	Pore Density	8000-12000Pcs/m
Bubble Diameter	1-2mm	Resistance Loss	≤3500Pa
Oxygen Utilization Rate	≥28%	Connection Mode	Tee(304/316, ABS material)
Oxygenation Capacity	≥0.38kg/h	Material	EPDM
Oxygenation Power Efficiency	≥7.1kg/KW·h		Silicone Rubber






Media Retention Screen

Product Advantage

-  Zero Loss of Media
-  Non-clogging Operation
-  Long Life Design
-  Strong Compatibility



Product Advantage

-  Intelligent Control
-  Energy-efficient
-  Low-noise Operation

Product Data

Operating Voltage (+1-15%V)	380V	380V	380V	380V	380V	380V	380V	380V	380V	380V	380V	380V	380V
Permanent Magnet Motor Power(KW)	5.5	7.5	11	15	22	30	37	45	55	75	90	110	
Quantity Of Flow(m³/min)													
Outlet Pressure Rise(kpa)	15kpa	16	24	36	/	/	/	/	/	/	/	/	/
	25kpa	9	15	22	25	30	/	/	/	/	/	/	/
	40kpa	6.5	10	14	20	25	32	38	46	70	95	120	150
	60kpa	4.5	8.5	9	14	18	25	28	34	52	69	82	104
	80kpa	3	5	7	11	15	18	22	28	40	49	70	86
	100kpa	/	/	/	/	/	15	17	22	34	45	53	65
Noise(db)	68	68	68	78	78	78	78	78	78	78	78	78	
Outlet Diameter	Configure the check valve	DN100	DN100	DN100	DN150	DN150	DN200	DN200	DN200	DN200	DN200	DN200	DN300
Control Form	Auto/Hand Control												
Cooling Method	Ventilation Cooling												
Length*Width* Height(mm)	L	850	850	850	1100	1100	1100	1100	1350	1350	1350	1350	1950
	W	600	600	600	750	750	750	750	900	900	900	900	1250
	H	890	890	890	1113	1113	1113	1113	1600	1600	1600	1600	1700
Weight(Kg)	120	120	130	260	280	350	400	550	600	650	700	850	

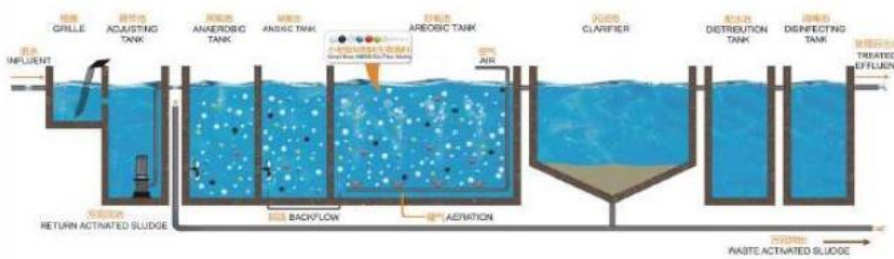
Note: The air volume of a centrifugal fan is inversely proportional to the pressure; the lower the pressure, the greater the air volume. Please select the specific model reasonably based on your application requirements. Our company can also customize according to customer needs.

Product Data

Model	Diameter(mm)	Length(mm)	Aperture Size(mm)	Connection Mode	Material
SB-150	DN-150	200-4000	5-12	Flange	SS304/316/316L
SB-200	DN-200	200-4000	5-12	Flange	SS304/316/316L
SB-250	DN-250	200-4000	5-12	Flange	SS304/316/316L
SB-300	DN-300	200-4000	5-12	Flange	SS304/316/316L
SB-350	DN-350	200-4000	5-12	Flange	SS304/316/316L
SB-400	DN-400	200-4000	5-12	Flange	SS304/316/316L
SB-450	DN-450	200-4000	5-12	Flange	SS304/316/316L
SB-500	DN-500	200-4000	5-12	Flange	SS304/316/316L
SB-550	DN-550	200-4000	5-12	Flange	SS304/316/316L
SB-600	DN-600	200-4000	5-12	Flange	SS304/316/316L

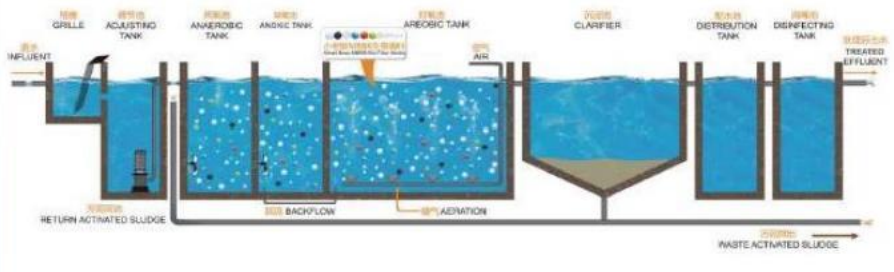
Process specification

AAO Anaerobic-Anoxic-Oxic process



1. Simple to upgrade and retrofit, small footprint.
2. Saves carbon source, short hydraulic retention time, high reaction efficiency.
3. Significantly improves effluent water quality, with substantial reductions in effluent COD, BOD5, and ammonia nitrogen content.
4. Able to withstand large hydraulic shock loads and maintain stable treatment performance.
5. In low-temperature environments, Xiaolaoban MBBR bio-media can also ensure very high ammonia nitrogen removal rates, with stable nitrogen compliance.

Integrated activated sludge and moving bed biofilm reactor process



1. Not limited by pool type, no need to modify the treatment pool, and fully utilize the original treatment pool volume.
2. Greatly accelerate the reaction rate, and the reaction efficiency is increased by 5-10 times compared with the activated sludge method.
3. Nitrification and denitrification processes are carried out simultaneously, which can achieve good ammonia removal and desulfurization.
4. Small head loss, not easy to be blocked, no need for backwashing.
5. Just directly add Xiaolaoban MBBR bio-media, no need to install brackets.
6. Rongjian MBBR bio-media tumbles and flows freely in the water and cuts air bubbles, which increases dissolved oxygen in the water, saves energy consumption and improves efficiency.

Application and Projects

Application one: Sewage Treatment - Activated Sludge Process

Inflow → Primary Clarifier → MBBR Tank → Secondary Clarifier → Effluent

Engineering Case: Sewage Treatment it in Diaobingshan

Water flow: 80,000 tons



Application three: Sewage Treatment -Oxidation Ditch Process

Inflow → Anaerobic MBBR Tank → Oxidation Ditch MBBR Tank → Clarifier → Effluent

Engineering Case: Technical Materials in Dalian

Water flow: 50,000 tons



Application two: Sewage Treatment - Anaerobic - Anoxic - Oxic

Inflow → Anaerobic MBBR Tank → Anoxic MBBR Tank → Oxic MBBR Tank → Effluent

Engineering Case: Water treatment plant in Tianjin

Water flow: 100,000 tons



Application four: Aquaculture Water Treatment Process

Inflow → MBBR Tank → Clarifier → UV disinfection Tank → Effluent

Engineering Case: Zehui Fishery (Iuster) Co.,LTD.



Environment and Honor



Production Workshop and Warehouse



120+ High Speed Production
Capacity of Production:
1,000+m³/Day



20,000m³
MBBR Stock

Standard Package

Loading Car



Big Bags: 1m³/bag Small Bags: 0.1m³/bag

Honors of Rongjian

HG/T 5924-2021 "Biofilm Carrier for Waste (Sewage) Water Treatment"

Industry Standard Formulation Unit

Ministry of Science and Technology National "Innovation Fund Award"

Jiangxi Province Commercial Secret Protection Demonstration Unit

Jiangxi Provincial Enterprise Research Institute

Circular Economy Second Prize

ISO9001 14001 45001 system certification

National high-tech enterprise

Customer Distribution






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