



**骏泰塑业**  
**JUNTAI PLASTIC**

*Secondary Waste Water Treatment Solution*

**JUNTAI SMART DIFFUSER SYSTEM**

# Standard Oxygen Transfer Efficiency

**(SOTE)**

**Disc Diffuser**

**Tube Diffuser**

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✓ *JUNTAI Plastic - The Water Treatment Expert*



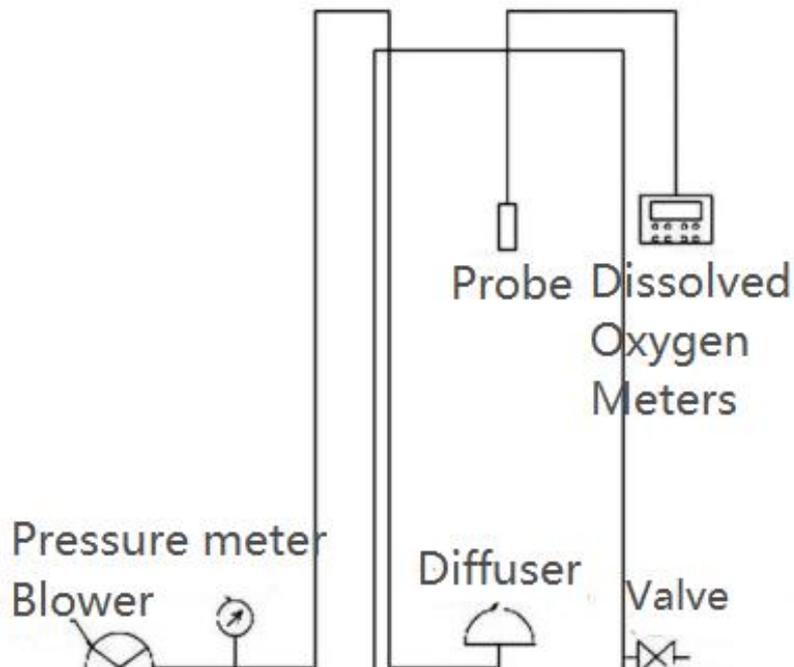
# DIFFUSERS PERFORMANCE



	Disc Diffuser			Tube Diffuser	
	DD215	DD270	DD350	TD65	TD93
<b>Diameter</b>	7"	9"	12"	65	93
<b>Flow range</b>	1.5-4	1.5-7	2.0-12.0	2-14	5-20
<b>Bubble size</b>	0.8-2.0	0.8-2.0	0.8-2.0	0.8-2.0	0.8-2.0
<b>Service Area</b>	0.2-0.5	0.2-0.7	0.3-1.2	0.75-2.5	1-3
<b>Slit Quantity</b>	25-30 slit/cm <sup>2</sup>			32000 slit/m	
<b>Standard Oxygen Transfer Efficiency(6m submerged)</b>	34 ~ 39.5%	34 ~ 39.5%	34 ~ 39.5%	34 ~ 39.5%	34 ~ 39.5%
<b>Use of Temperature(°C)</b>	0-80	0-80	0-80	0-80	0-80
<b>Connector</b>	3/4" NPT M	3/4" NPT M	3/4" NPT M	3/4" NPT M	3/4" NPT M



# Disc & Tube Diffuser Standard Oxygen Transfer Test Method



**Aeration and oxygenation test device**

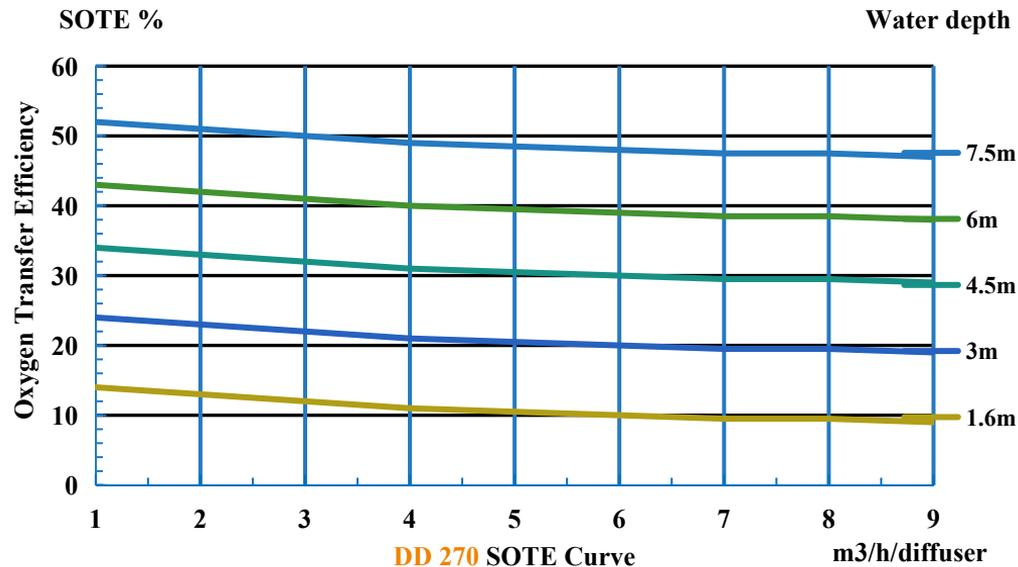
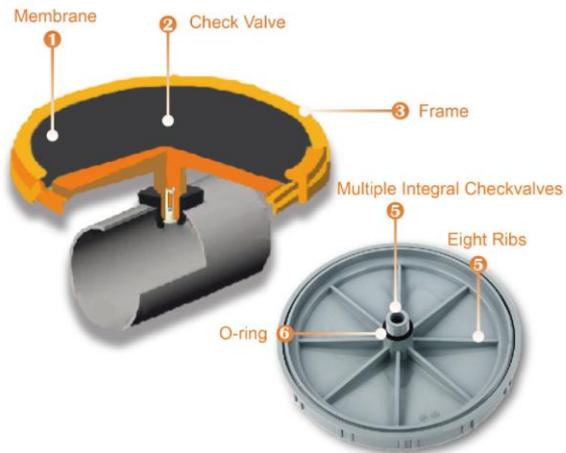
There are many factors affecting the performance of microporous aeration oxygenation, the most important are the aeration volume, aperture and installation of the water depth

Microporous aerator, EPDM membrane material, sension378 desktop dissolved oxygen meter, gas rotor flow meter, range 0~3 m<sup>3</sup>/h, accuracy  $\pm 0.2\%$ . HC-S blower. Catalyst: CoCl<sub>2</sub>·6H<sub>2</sub>O, analytically pure. Deoxidizer: Na<sub>2</sub>SO<sub>3</sub>, analytical.

The test was conducted by static non-stationary method, i.e., Na<sub>2</sub>SO<sub>3</sub> and CoCl<sub>2</sub>·6H<sub>2</sub>O were added first for deoxygenation during the test, and aeration was started when the dissolved oxygen in the water was reduced to 0. Changes in dissolved oxygen concentration in the water over time were recorded, and the KLa value was calculated. Separately, different aeration volumes (1.5, 2, 3, 4..... .24 m<sup>3</sup>/h), as well as different water depth (1.6, 2, 3, 4, 4.5, 5, 6, 7.5m) under the condition of oxygenation performance testing, while referring to CJ/T 3015.2-1993 "AERATOR OXYGENATION PERFORMANCE DETERMINATION OF LEAR WATER" and the United States Clear Water Oxygenation Test Standards ✓ *JUNTAI Plastic - The Water Treatment Expert*

# Disc Diffuser DD270 Standard Oxygen Transfer Test

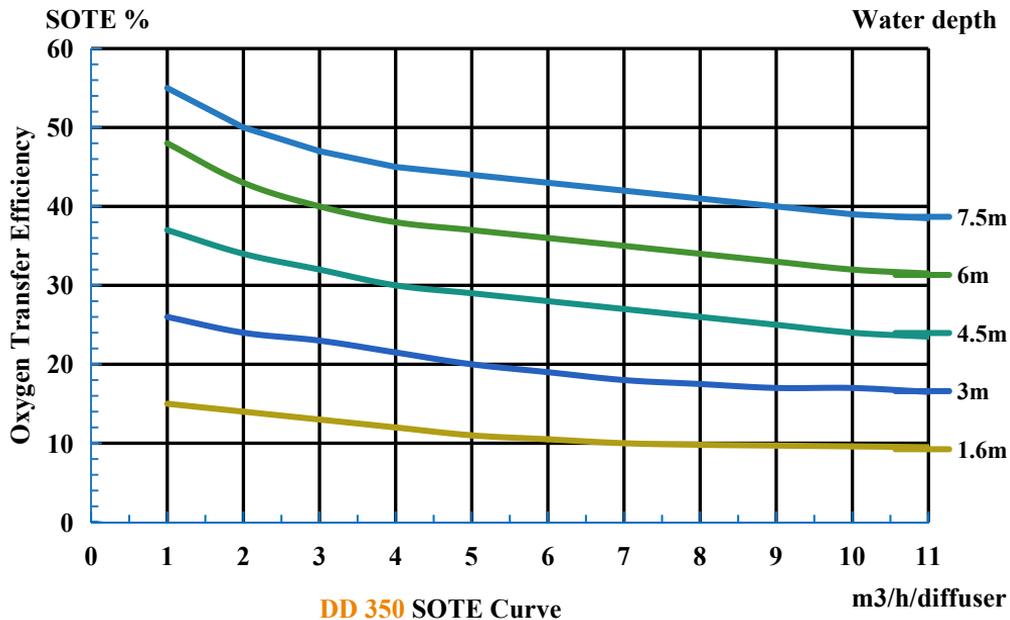
Performance		
Model	Active service area per diffuser	Slit quantity (0.7mm)
DD270	0.0397m <sup>2</sup>	+/-9150



# Disc Diffuser DD350 Standard Oxygen Transfer Test

## Performance

Model	Active service area per diffuser	Slit quantity (0.7mm)
DD350	0.0683m <sup>2</sup>	+/-15940

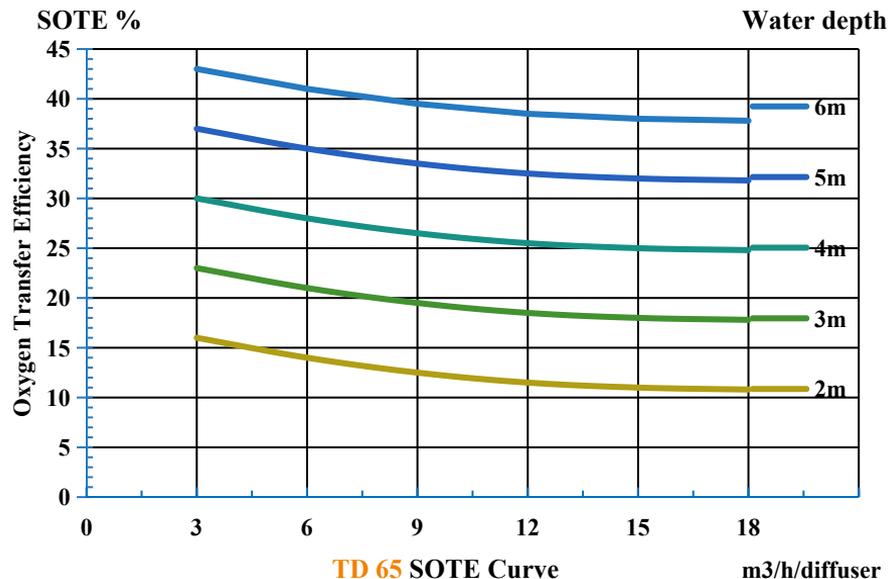


# Tube Diffuser TD65 Standard Oxygen Transfer Test

Performance		
Model	Active service area per diffuser	Slit quantity (0.7mm)
TD65	0.205m <sup>2</sup>	+/-32000

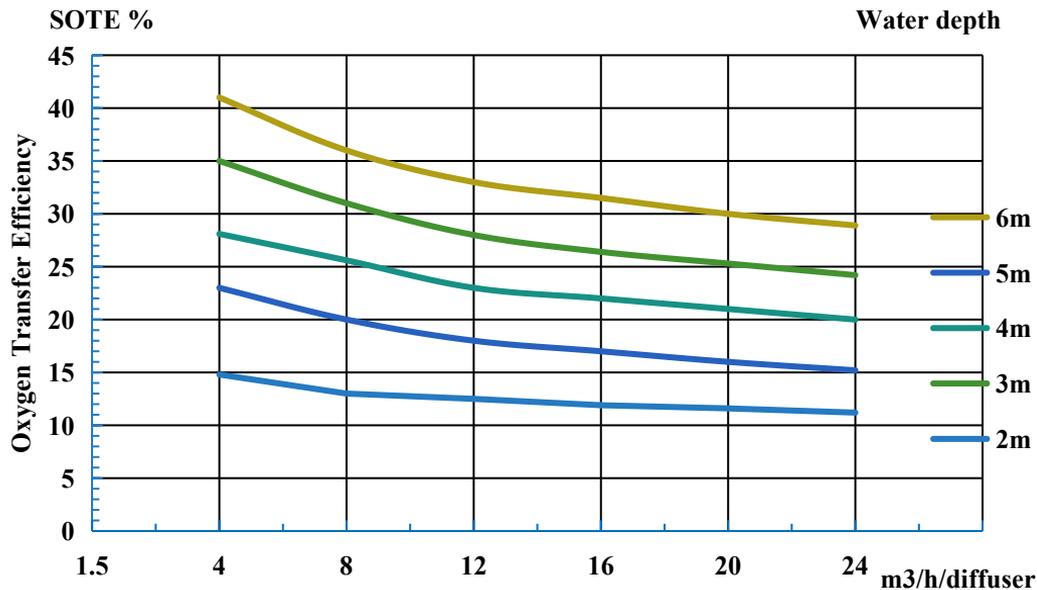


32000holes/m- 15 more than others

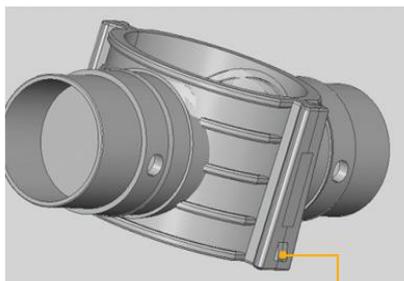


# Tube Diffuser TD93 Standard Oxygen Transfer Test

Performance		
Model	Active service area per diffuser	Slit quantity (0.7mm)
TD93	0.280m <sup>2</sup>	+/-46000



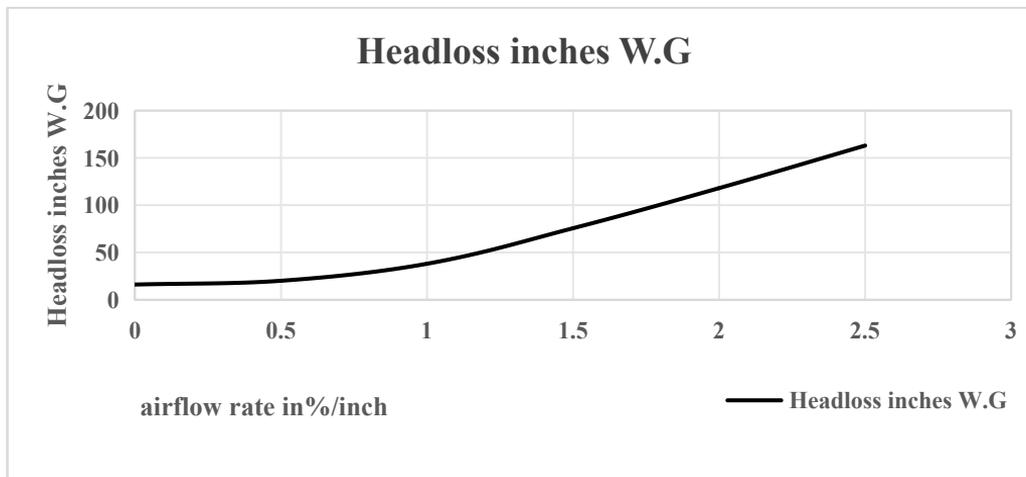
Raised structure design- the membrane never fall off



Raised structure design- The connection never fall off



# WET PRESSURE LOSS Disc Diffuser DD215

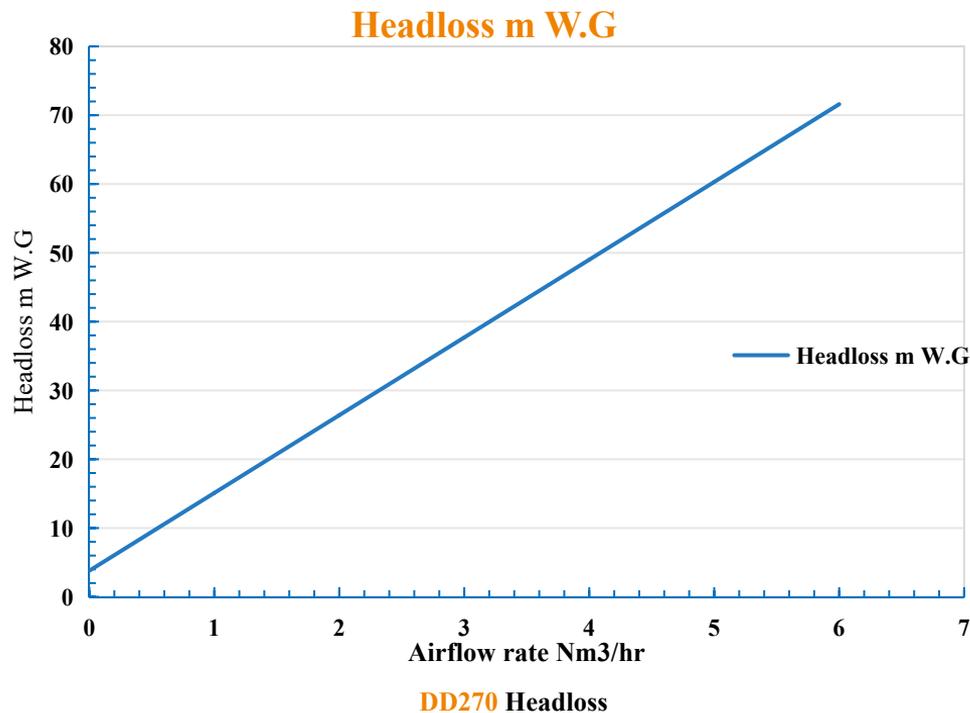
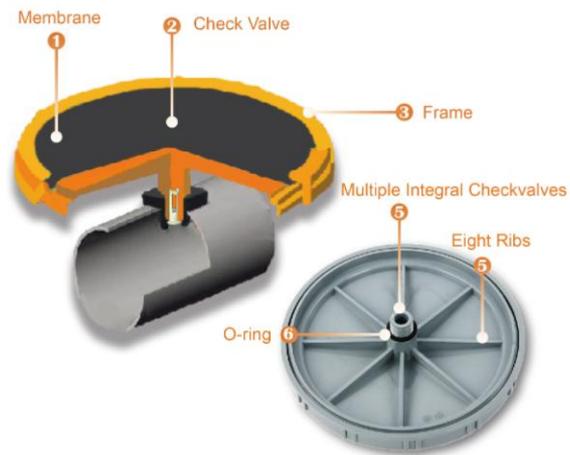


**DD 215 Headloss Curve**

- JUNTAI Aeration products are warranted to be free from defects in manufacture or workmanship for a period of 12 months from the date of installation to 18 months from the date of shipment. If defective material is found, it may be replaced free of charge.
- JUNTAI's liability is limited to the cost of the defective part. Damage to JUNTAI's aeration products caused by chemicals, abrasion due to seating, sticky or oily materials, improper maintenance, installation or operation does not constitute a defect.
- JUNTAI is able to stand behind our quality assurance because we continually test all of our equipment to ensure better quality control.

# WET PRESSURE LOSS Disc Diffuser DD270

Performance		
Model	Active service area per diffuser	Slit quantity (0.7mm)
DD270	0.0397m <sup>2</sup>	+/-9150

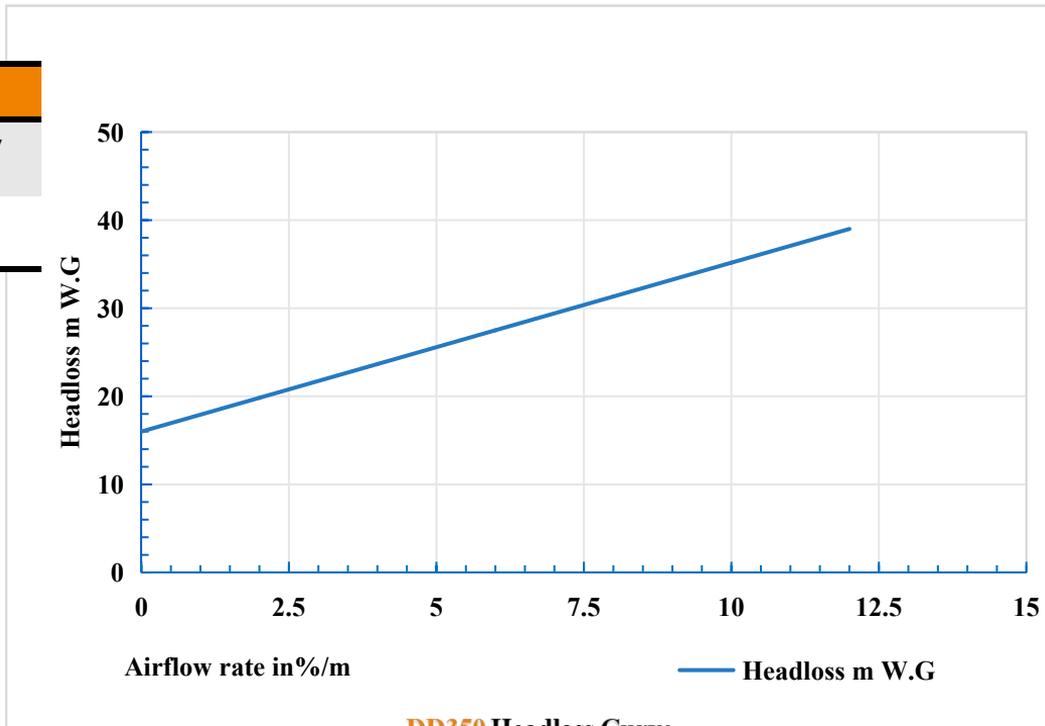




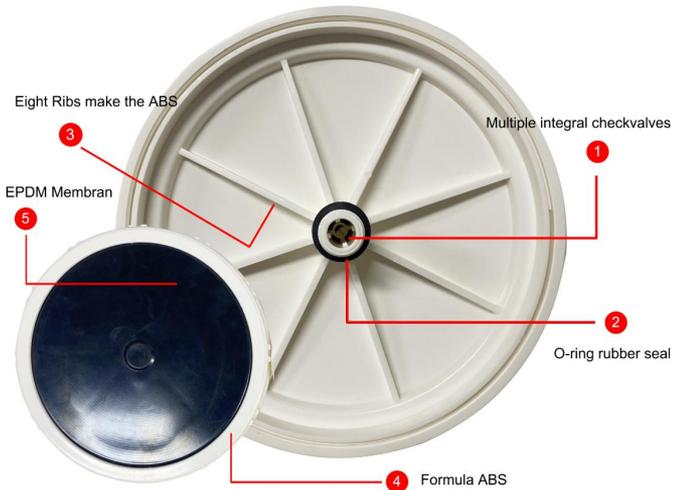
# WET PRESSURE LOSS Disc Diffuser DD350

## Performance

Model	Active service area per diffuser	Slit quantity (0.7mm)
DD350	0.0683m <sup>2</sup>	+/-15940



**DD350 Headloss Curve**





# SOTE for Diffuerent Diffuser Density

Clean water, standard conditions (+ 20°C, 101.3 kPa).

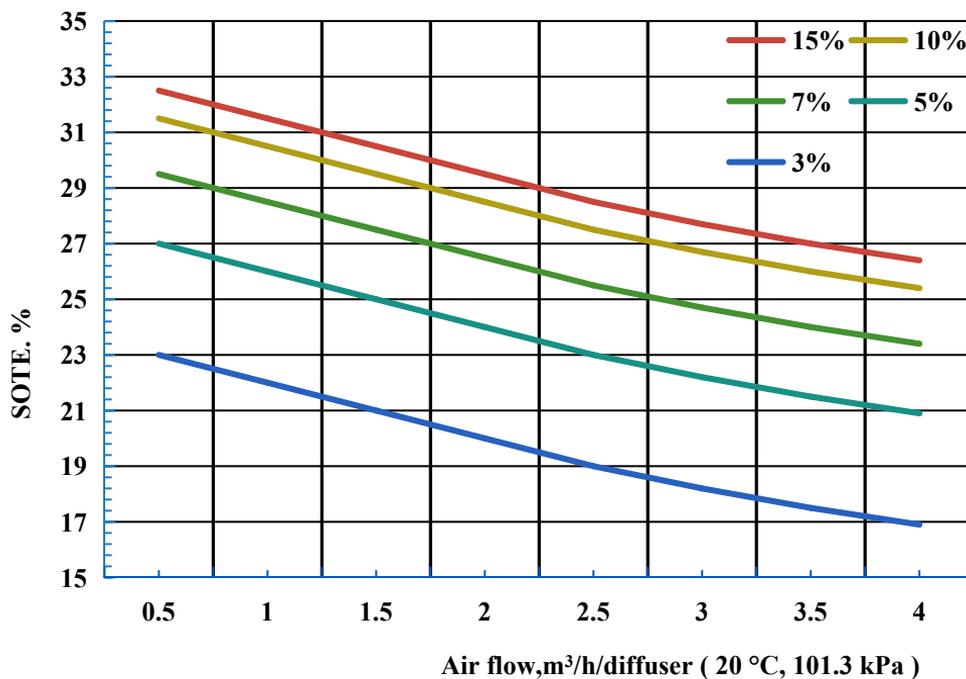
Submersion depth 4 m.

Diffuser density, DD =  $\frac{\text{total diffuser area}}{\text{total bottom area}}$

Surface area of one diffuser is 0.025m<sup>2</sup> of DD270

Here is Diffisuer Desity for 3%, 5% ,7%,10%,15% test Chart

Note:The values are valid for full bottom covering with uniform diffuser distribution and can be affected by the mixing and water flow conditions in the aeration basins. The graphs may be changed without further notice, so always consult JUNTAI for capacity guarantees.



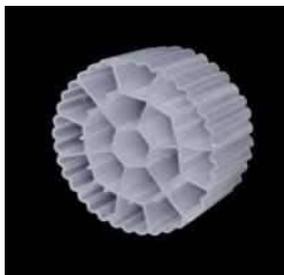


# JUNTAI MBBR BIO MEDIA



MBBR37

Patent NO.:ZL2020  
30141332.8



MBBR19

Patent NO.:ZL2020  
30141332.8



MBBR61



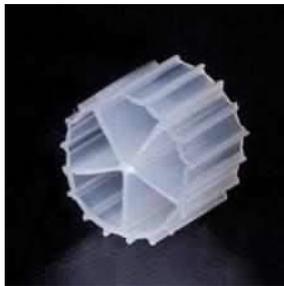
MBBR64



MBBR08



MBBR05



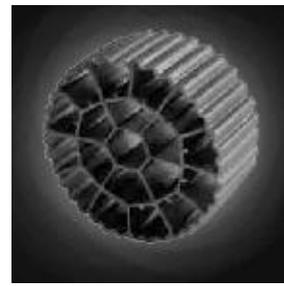
MBBR06



MBBR04



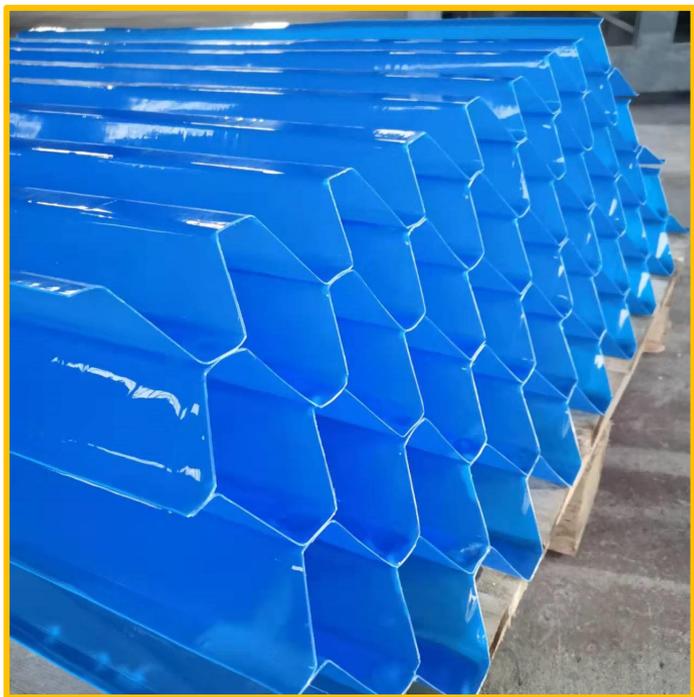
MBBR40



MBBR19-2

JUNTAI try to be the first and biggest supplier of MBBR media in China in two years with high speed production

## JUNTAI UV Tube Settlers



- ① High quality **UV protector**
- ② **100% virgin PP material**
- ③ Can arrived **FDA** and **NSF** standard
- ④ Serive for **5 to 10 years**
- ⑤ Installed by **welded ,no glue**
- ⑥ Simple install on site, save **transporting cost**
- ⑦ Health Material can for **Drink water**

# JUNTAI Main Water Treatment Plastic Parts

1. MBBR Media
2. Disc Diffuser
3. Tube Diffuser
4. Bio Block
5. Tube Settler
6. Air Blower
7. Aeration Tube
8. Dosing System
9. Sludge Dewatering Machine



MBBR



Disc Diffuser



Tube Diffuser



Bio Block



Tube Settler



Air Blower



Aeration Tube



Dosing System



Sludge Dewatering Machine



# JUNTAI Sludge Dewatering Machine



- ① Steel Cover and PMMA Windows make safer
- ② Steel Sprinker System got longer life
- ③ Detailing Guarantee Quality
- ④ Cobalt Alloy Wear Layer Make Screws Harder
- ⑤ Germany Schneider Electric Control Cabinet
- ⑥ Pressure Water Gun With Fiberglass Hose  
make clean Easier
- ⑦ Stainless Steel End Plate
- ⑧ Precise Leveler



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## **JUNTAI** Wastewater Treatment Solution

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