

# Hebei Sinta Trading company

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## Water treatment

1 Tube settler filter media

2 MBBR media

3 Aeration diffuser

4 Polyhedral hollow ball

5 Pall ring

6 Cascade ring

# Tube settler filter media

Tube settler also named lamella clarifier, mainly used in all different clarifiers and removing sand. it was regard as a universal water treatment equipment in Water supply and drainage engineering.

it has widely application, high handling efficiency , small area etc.. it is suitable in removing sand in inlet, water precipitation in industry and drinking water. separation in oil & water.

## Main features:

1 Large wet area, Small hydraulic radius.

2 Excellent laminar flow, particle sedimentation is not affected by the turbulence.

3 When the tube settler's length is 1 meters, the effective load can be designed at 3-5 tons / square meters. When VO control in 2.5-3.0 mm / s range, the best water quality treated is obviously.

4 using tube settler in sedimentation tank, its handling/process capacity is 3-5 times of horizontal flow sedimentation pool, and 2-3 times of accelerated clarifier and pulse clarifier.

<b>Material</b>	PVC, PP, FRP
<b>Diameter</b>	25mm, 35mm, 50mm, 80mm
<b>Thickness</b>	0.4mm to 1mm
<b>One sheet size</b>	1000×1000mm, customized available
<b>One block size</b>	1000×1000mm×886mm or customized
<b>Color</b>	White, blue or customized



# Tube settler/lamella clarifier



Production



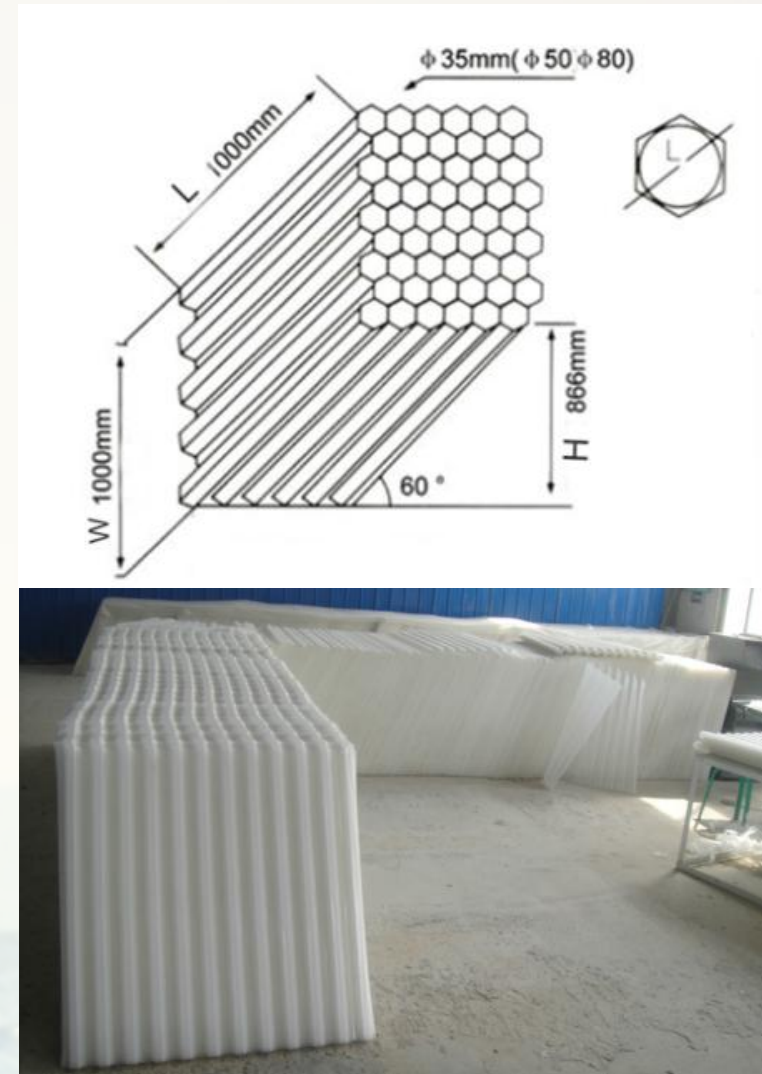
Shipping



Application










Install





# MBBR Media

Model	Picture	Size(mm)	Density (g/cm <sup>3</sup> )	Surface area (m <sup>2</sup> /m <sup>3</sup> )	Nitrification efficiency (gNH <sub>4</sub> -N/m <sup>3</sup> .d)	Packing number	membrane-forming time	Dosing ratio%
PE01		Φ12 x 9	0.96-0.98	>800	400-1200	>630000	3-15 days	15-67
PE02		Φ11 x 7	0.96-0.98	>900	400-1200	>830000	3-15 days	15-68
PE03		Φ10 x 7	0.96-0.98	>1000	400-1200	>650000	3-15 days	15-70
PE04		Φ14.5 x 10	0.96-0.98	>800	400-1200	>260000	3-15 days	15-67
PE05		Φ25 x 12	0.96-0.98	>500	400-1200	>97000	3-15 days	15-65
PE08		Φ5 x 10	1.02-1.05	>3500	500-1400	>2000000	3-15 days	15-70
PE10		Φ25 x 5	0.96-0.98	>1200	500-1400	>210000	3-15 days	15-65

## MBBR bio filter media

is a new suspension bioactive carrier, it according to the different nature of sewage in polymer materials (HDPE and CPE) to add a variety of beneficial microorganisms quickly attach and grow the trace elements, and through special process for the production of biologically active carrier.

## Advantage

1. Acid proof
2. Alkali-resisting
3. Anticorrosion for the organic solvent
4. Good performance of inflaming retarding
5. Increasing cross-sectional area
6. Add water retention time

# Mbbr media



Machine



Production



Shipping



Packing



## Application

Municipal, Power, Pharmaceutical, Chemical, Electroplating, Metallurgy, Machinery, Papermaking, Printing and Dyeing, Medicine, Food processing, Aquaculture, with the continuous improvement and the deepening use of our products, Small Boss MBBR filter media will be used more and more widely.

1. Project title, the amount of upgrading sewage treatment plant
2. New sewage treatment project of MBBR and BAF process
3. Biochemical treatment of reclaimed water
4. River nitrogen, phosphorus removal
5. Aquaculture in removal of ammonia nitrogen, water purification
6. Biological filler biological eodorization tower

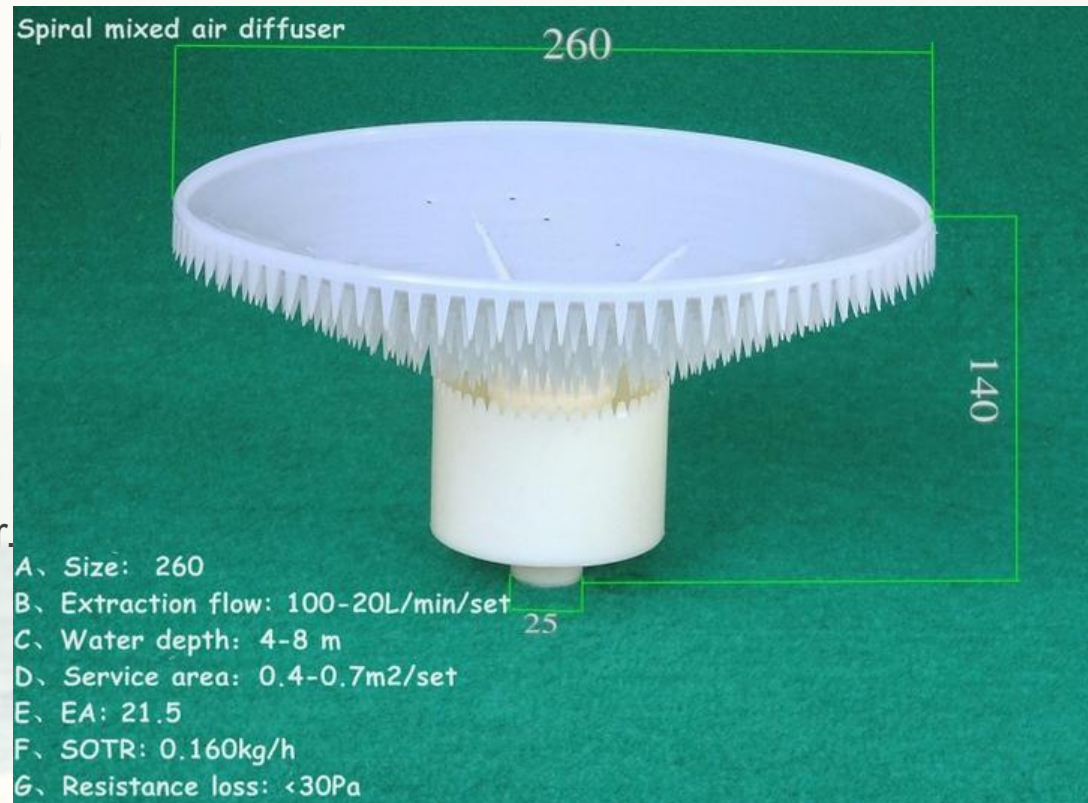


# Spiral diffuser

**Spiral diffuser** is a new aeration devices ,in the spiral aeration ,casual flow-flow ,SH-Aerator on the basis of a new type of improved aeration devices ,the product is resistant to corrosion ,Oxygen utilization of high and difficult to plug and easy installation ,and other major features.

## Application:

- A. aeration tank in industrial and urban wastewater treatment plant, which uses blower as air source.
- B. activated sludge method and contact oxidation method.
- C. the technology renewal and reconstruction of existing old aerator.





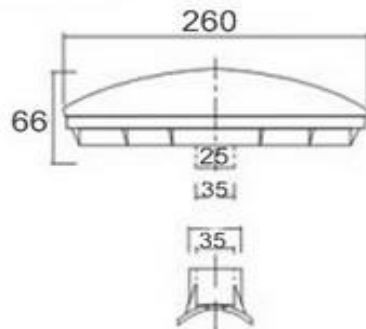
# Disc diffuser

Disc diffuserer is a new type of oxygenation aerator and the core equipment of A/O process (activated sludge biochemistry technology). It can be applied to every position of the sewage pool. It is featured by easy and convenient installation and maintenance, even oxygenation and low energy consumption.

Flexible, easy and convenient installation. It can be installed during normal operation, not necessary to drain water. Simple maintenance.



## Drawing



## Data

Item: ST260  
Size:  $\Phi 260\text{mm}$   
Shape: flying saucer  
Material: EPDM Membrane+ABS  
Weight: 589g

## Basic data

Working oxygen volume (Nm<sup>3</sup>/h): 0~5  
Recommended oxygen volume (Nm<sup>3</sup>/h):  $2\pm 1.5$   
Bubble size (mm): 0.8~2.1  
Service area (m<sup>2</sup>/piece): 0.35~0.85  
Oxygenation dynamic efficiency (kgO<sub>2</sub>/kwh): 7.5  
Oxygen transfer efficiency (kgO<sub>2</sub>/h): 0.35~0.65



# Tube diffuser

Tube diffuser for effluent treatment can be connected on one side or in pairs to different rectangular and round tubes (ABS material) with the appropriate adapter. The membranes are manufactured with premium quality EPDM material and are available with fine or coarse-bubble perforation. The support tubes (ABS or PVC material) can be reused when membranes are replaced.



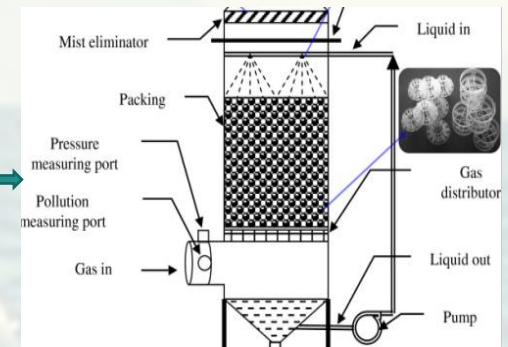
Size(mm): 63mm/65mm×500mm/750mm/1000mm  
Working air flow (m<sup>3</sup>/h): 1~14  
Designed air flow(m<sup>3</sup>/h): 7  
Oxygen transform efficiency (%): >35  
Service area (m<sup>2</sup>/piece): 0.8~1.6  
Bubble size(mm): 0.7~1.9  
Pressure loss (kpa): 2.2~4.8  
Oxygenate capability (kgO<sub>2</sub>/h): 0.9  
Theoretic dynamic efficiency(kgO<sub>2</sub>/kw.h): >8.6  
Membrane service life: >5

# Polyhedral Hollow Ball

The hollow ball has features such as high free volume, low pressure drop, low mass-transfer unit height, high flooding point, uniform gas-liquid contact, small specific gravity, high mass transfer efficiency and so on, and the application temperature in media ranges from 60 Degree C to 150 Degree C. For these reasons it is widely use in the packing towers in petroleum industry, chemical industry, alkali-Chloride industry, coal gas industry and environmental protection, etc..



Specification (mm)	Surface area (m <sup>2</sup> /m <sup>3</sup> )	Free volume (%)	Bulk density (kg/m <sup>3</sup> )	Number per m <sup>3</sup>
Φ 25	460	84	145	64000
Φ 38	325	87	125	25000
Φ 50	236	90	105	11500
Φ 76	150	92	90	3000



# Pall Ring

## PP plastic pall ring

Pall ring is made from heat resistant and chemical corrosion resistant plastic , for instance polypropylene (PP). An advance on the Raschig Ring, the Pall Ring has similar cylindrical dimensions but has two rows of punched out holes, with fingers or webs turned into the centre of the cylinder, which significantly increases the performance of the packing, in terms of throughput, efficiency and pressure drop.

1. Higher capacity and lower pressure drop than ceramic packing.
2. Multiple sizes provide ability to optimize capacity and efficiency based on application requirements.
3. Relatively high liquid hold-up allows good absorption efficiency with slow chemical reaction.
4. Lower sensitivity to liquid and vapor distribution quality allows use with conventional liquid distributors.
5. Ring and spoke construction provides high mechanical strength, which allows use in deep beds.



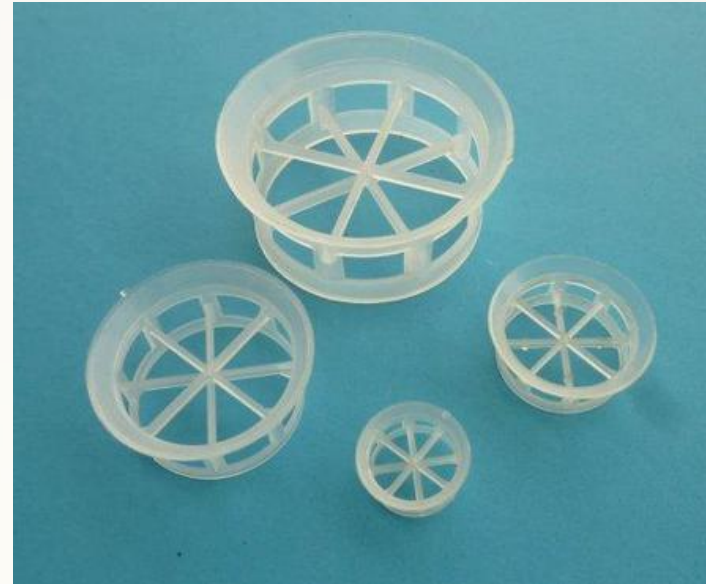
Size mm	Diameter x Height x Thickness	Surface area	Void space	Bulk density	No.per m3	Packing factor
25	25x25x1.2	213	91	85	48300	285
38	38x38x1.4	151	91	82	15800	200
50	50x50x1.5	100	92	60	6300	130
76	76x76x2.6	72	92	62	1930	92



# Cascade Ring

**Cascade ring** as mass transfer media, used in absorption, desorption, scrubber tower, cooling tower, wastewater treatment etc

Cascade Ring are made from polyethylene(PE), polypropylene(PP), reinforced polypropylene(RPP), polyvinyl chloride (PVC), chlorinated polyvinyl chloride(CPVC) and polyvinylidene fluoride(PVDF)



Name	Diameter	Diameter*Height*Thickness mm	Surface area m <sup>2</sup> /m <sup>3</sup>	Void space%	Bulk density kg/m <sup>3</sup>	Numbers per/m <sup>3</sup>	Packing factor m <sup>-1</sup>
Cascade ring	Φ25	25x13x1.2	228	90	98	81500	313
	Φ38	38x19x1.4	133	93	58	27200	176
	Φ50	50x25x1.5	114	94	55	10740	143
	Φ76	76x37x3.0	90	93	68	3420	112