MBR

MEMBRANE BIOREACTOR

Chengdu Rosun Disinfection Pharmaceutical Co., Ltd.

Makes the rivers and earth cleaner. Helps billions of people be healthier.





Domestic Sewage



Hospital Sewage



Laundry wastewater



Landfill leachate



unting & Dyeing wastewater

Company Profile

Chenguli Rosun Disinfection Pharmaceutcal Co., Ltd. was established in 2002, and has been committed to high-end environmental disinfection products and water treatment chemicals, and dosing euglement R&D, production and sales, while providing environmental protection engineering design, construction, chemicals supply, equipment supply, professional mainterance. Products related to drinking water disinfection of residents, domestic swaper treatment, hospital sewage treatment, industrial circulating water treatment, swimming pool and high-end disinfection care six product areas.

ROSUN has an independent R&D center and high-quality scientific research personnel. In the past 16 years, ROSUN gets totality 159 intelligentual property, and has obtained the wards of National High-tech Technology Enterprise, Outstanding smooth Award, in Scientific and Technological Achievements of Enterprises and Eleventh Five-Year Plan Promotion Project of National West Service, Construction.

The company has sales network all over the country. The products are exported to Russia, Thailand, Malaysia, Indonesia, Philippines, Pakistan, Morocco and other countries. It has become the first cross-sector enterprise in China that involves



Marketing Network

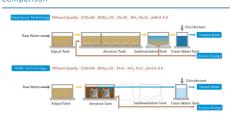


Membrane Bioreactor MBR Technology

MBR (Membrane Bioreactor) is a membrane separation technology combining with conventional activated subjects. Subjects (State State State

MBR is the most advantaged technology of the Reclaimed Water Reuse, Energy Conservation and Emission Reduction, Upgrading and Scale Expansion.

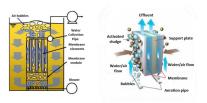
Comparison



Work Principle

The pollutant in waste water will firstly biodegradation in bioreactor, at the same time, because of the function of the pressure difference, the water and some small molecule solute which smaller than the aperture of the membrane in the mixed liquid will past the membrane, and then become the treated water.

Microorganisms and macro solute will be intercepted by the membrane, so it replaced the sedimentation tank by complete its water treatment and separate function.



PVDF Flat Sheet Membrane

Use the PVDF as main material. Rosun flat sheet membrane with good chemical stability, fouling resistance and mechanical strength, it has different types according to its efficacy area.



Membrane Element Structure

Advantages of Flat Sheet Membrane

Advanced material:

The main material of the membrane is PVDF, which has Excellent chemical stability, permeate flux, permeate quality, and fouling resistance.

Better outlet water quality:

Pore size of Rosun flat sheet membrane is around 0.1 micron, and with advanced membrane technology increased the effective orifice area of the membrane surface then lead to excellent permeate flux and permeate quality. The output water can be reused directly.

Higher activated sludge adaption: Compared with the hollow fiber curtain membrane whose

activated sludge adaption is only 4000-6000mg/L, Rosun flat sheet membrane can adapt 8000-15000mg/L activated sludge. Longer service life:

Compared with hollow fiber curtain membrane, Rosun flat sheet have a longer service life 3-6 years compared with 1-3 vears service life of hollow fiber curtain membrane's.

Less land snace:

The MBR reactor tank can replace the function of secondary sedimentation tank with aerobic tank, it can save 30% of

Easy to operate and maintenance:

The flat sheet membrane can be just replaced each single damaged piece without change the holder when damage and replacement, replace just need 15 minutes.





Rosun Flat Sheet Membrane Hollow Fiber Membrane Anti-fouling performance after 3 months





MBR Integrated System







Semi-buried type

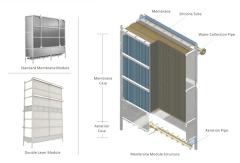
Basic Components

1.Pre-Treatment Tank 2. Inner Ladder 3. Sludge Pump 7. Lift Pump

4. Reaction Tank 5. MBR Membrane Module 6. Recycled Tank 10. Disinfection Device 11. Control Room

MBR Membrane Module

Rosun MBR membrane mouther is combined with membrane element box and the aeration box. The membrane outlet is combined by water collection tube in membrane element box, and each membrane lement bor, and each membrane with individually installed and unloaded for easy maintenance. For the upgrade of the traditional technology, just install the membrane module in earation tank is oak.



Flat Sheet Membrane Type

| Туре | | RF-025 | RF-080 | RF-100 | RF-150 | |
|------------------------------|-------------|-------------|--------------|--------------|--------------|--|
| Effective area(m') | | 0.25 | 0.8 | 1.0 | 1.5 | |
| Size: H*W*T(mm) | | 495*365*7.5 | 1030*490*7.5 | 1190*518*7.5 | 1780*490*7.5 | |
| Production rate(L/pcs. day) | | 100~230 | 320~480 | 400~600 | 600~900 | |
| Material of components | Membrane | PVDF+PET | | | | |
| | Outer frame | ABS | | | | |
| Pore diameter (µm) | | 0.1 | | | | |
| Aeration rate (L/min. pcs) | | 8 | 8 | 10 | 12 | |
| Weight(kg) | | 0.8 | 3.2 | 3.6 | 5.8 | |
| Effluent turbidity(NTU) | | £ 1 | | | | |
| Effluent SS (mg/L) | | ≤3 | | | | |

Membrane Module Type

| Туре | RF-080-100 | RF-100-100 | RF-150-100 | RF-150-II-100 | |
|----------------------------|----------------------------|-------------|-------------|---------------|--|
| Effective area(m²) | 80 | 100 | 150 | 300 | |
| Size: L*W*H(m) | 1.7*0.7*1.6 | 1.7*0.7*1.8 | 1.7*0.7*2.4 | 1.7*0.7*4.4 | |
| Numbers of membrane (pcs) | 100 | 100 | 100 | 200 | |
| Production rate(m²/day) | 32~48 | 40~60 | 60~90 | 165-210 | |
| Weight(kg) | 420 | 480 | 710 | 1300 | |
| Material of stand | 304 stainless steel | | | | |
| Material of aerator pipe | ABS or 304 stainless steel | | | | |
| Material of collector pipe | UPVC or ABS | | | | |

Application Cases









Domestic

Hospital

ital Landfill Leachate

Laundry









Printing & Dyeing

Steel Circulating Water

lobacco

CONTACT US

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Alibaba Shop