

SINAP Membrane Bioreactor (MBR)

“MBR combines advanced membrane filtration with biological treatment to deliver superior solids removal, eliminate secondary clarification and produce consistently high-quality effluent.”

- ✓ Lower energy use and reduced carbon footprint
- ✓ Increased treatment performance without expanding plant footprint
- ✓ Durable membrane technology designed for long-term performance
- ✓ High oxygen transfer efficiency, reducing energy consumption and operating costs
- ✓ Backed by proven membrane technology and global wastewater treatment experience
- ✓ Easy installation and integration into new and existing treatment plants
- ✓ Modules range in flow capacity from 300 L/day to 150,000 L/day
- ✓ Suitable for domestic sewage and municipal and industrial wastewater treatment applications

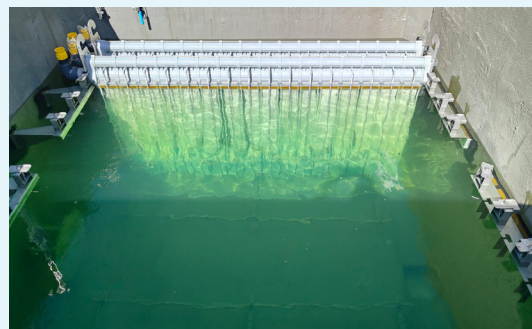


Features

- ✓ PTFE membrane technology
- ✓ Anti-fouling design
- ✓ High oxygen transfer
- ✓ Uniform bubble distribution
- ✓ Low pressure loss

MBR technology combines biological treatment with membrane filtration to produce high-quality effluent in a compact footprint. PVDF construction and asymmetric membrane structure offers excellent permeate flux and quality and improved fouling resistance.

It delivers superior solids and pathogen removal, increased treatment capacity and reliable performance, making it ideal for plant upgrades and water reuse applications.



Consistent Performance



Easy to Install



Long Service Life



Proven Technology

SINAP MBR Specifications

MEMBRANE SHEETS	SINAP 150	SINAP 80
Effective Membrane Area (m2)	1.50	0.80
Width & Height x Thickness (mm)	490 x 1750 x 7	490 x 1000 x 7
Weight (kg)	5.5	3.2
Pore Diameter (µm)	< 0.10	
Membrane Material	Polyvinylidene Fluoride (PVDF)	
*Flux [Litre/(Pc*Day)]	600-800	320-480
Aeration Volume [Litre/(Pc*Min)]	≥10	≥10
pH	3-12	
Effluent Turbidity (NTU)	<1.0	
Effluent (SS)	≤5	



“Optimised pore structure delivers reliable fine-bubble aeration with maximum oxygen transfer and reduced energy demand.”