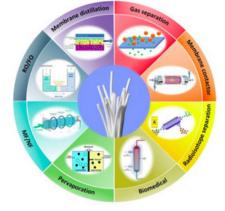


GES KO is an advanced technology company specializing in the development and application of membrane technology. Our core technology includes membrane separation technologies, such as membrane bio-reactors (MBR), ultrafiltration (UF), and microfiltration (MF). The company boasts a professional research and development team dedicated to continuously innovating and improving membrane materials and structures to meet the needs of customers in different fields.



GES KO Uniqueness:

GES KO Membranes proudly stands as the first and only Indian company dedicated to manufacturing Polyacrylonitrile (PAN) hollow fiber membranes. These cutting-edge membranes are specifically designed for wastewater treatment and oil/water separation. Notably, GES KO's PAN membranes exhibit remarkable resilience, withstanding up to 10 to 20 ppm of oil and grease in wastewater.







Hollow Fiber Membrane Production Line





MF/UF Technical Specifications

Parameters		MF					
Model No	GES KO-PES6	GES KO-PVDF4	GES KO-PVDF6	GES KO-PAN4	GES KO-PVDF5		
Surface Area (m2)	60	45	60	40	50		
MOC	PES	PVDF	PVDF	PAN	PVDF		
Fiber OD/ID (mm)	1.3/0.7 1.7/1.4				1.3/0.7		
Pore Size (micron)		0.1					
Mode	Out - to - in						
MWCO (Daltons)		0.1					
End caps & Pipe	uPVC						
End caps Port	Permeate 2'', Feed and Reject 1.5'' Victaulic coupling						
Module Dimensions (mm)	D 200 X H 2350	D 200 X H 1700	D 200 X H 2350	D 200 X H 2350	D 200 X H 2350		
Operation flux (LMH)	40 - 120	40 - 160 40 - 120		40 - 160			
Flow/Module (m3/hr)	2.4 - 3.6	2 - 2.7	2.4 - 3.6	2.4 - 3	3 - 3.5		
Operating pressure (bar)	0.5 - 2.5						
Back wash	1.5 Times higher then filtration						
Operating Temp(°C)	20 – 40 °C						
TMP (bar)	1.5						



UF – PVDF45 m2 UF – PAN 40 m2







UF – PES/PVDF 60 m2

Permeate Image: Descent of the second seco

MF – PVDF 50 m2

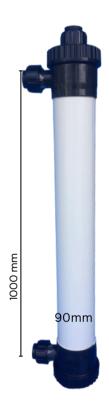




UF Technical Specifications- 4040

Model No	GES KO-PES/PVDF-4040		
Surface Area (m2)	5		
мос	PES/PVDF		
Fiber OD/ID (mm)	1.7/1.3		
Pore Size (micron)	0.03		
Mode	Out – to – in		
MWCO (Daltons)	100 kDa		
End caps & Pipe	uPVC		
End caps Port	Permeate 3/4.'', Feed,Permeate and Reject		
Module Dimensions (mm)	D 90 X H 1000		
Operation flux (LMH)	40 - 160		
Flow/Module (LPH)	500 - 1000		
Operating pressure (bar)	0.5 - 2		
Back wash	1.5 Times higher then filtration		
Operating Temp(°C)	20 - 40 °C		
TMP (bar)	1.5		

4 inch Module



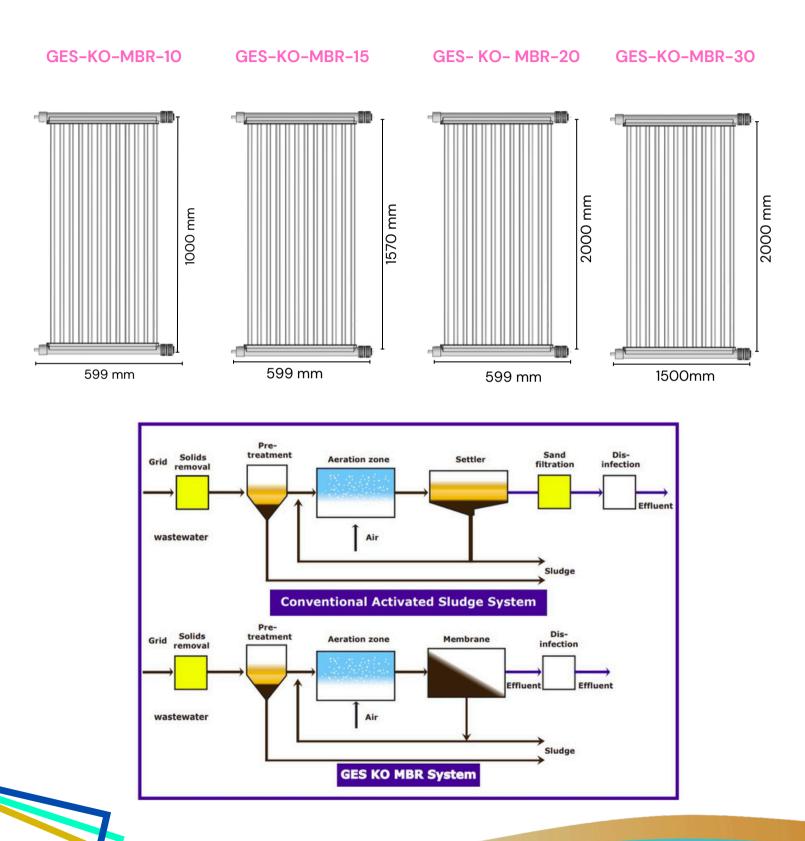
All ports 3/4" Feed, Reject and Permeate



MBR - Technical Specifications

Model		GES-KO-MBR- 10	GES-KO-MBR- 15	GES-KO-MBR- 20	GES-KO-MBR- 30		
Element size	W*H*T (mm)	599 *1000 * 40	599 *1570 * 40	599 *2000 * 40	1500*2000* 30		
	Connection	ф48	ф48	ф48	ф48		
Element Parameters	Pore Size Average Pore Size	0.03 to 0.1 μm 0.06 μm					
	Material	PVDF coating on PET Braid					
	Water flow mode	Both the end catchment					
	Filtration Mode	Negative Pressure					
Operating Conditions	Trans Membrane Pressure (TMP)	0.02~0.05 MPa					
	Max Backwash Pressure	0.01 MPa					
	Temperature	10~45 °C					
	pH Tolerance (Running)	5~9 2~10					
	pH Tolerance (Cleaning)						
	Aeration rate (Nm3)/projected area	15:1 ~20:1					
Performance	Product Water	Turbidity <0.3NTU SS~O SDI <4					
	Working life	≥ 5 Year Under normal Usage					







GES KO MEMBRANES PVT LTD Technologies in Pilot Scale Level

• Membrane distillation (MD) is a promising technology for treating saline water and wastewater with high rejection factors, which cannot be accomplished by conventional technologies. MD is a thermally driven separation process in which only the vapor molecules pass through a microporous hydrophobic membrane.



Hollow fiber nanofiltration (NF) membranes have gained significant attention in recent years due to their unique properties and applications.

Advantages of Hollow Fiber NF Membranes:

- Geometry: Hollow fiber membranes offer advantages over traditional spiral-wound configurations. Their geometry provides low fouling tendencies and effective hydraulic cleaning options.
- Chemical Stability: Alternatives to polyamide-based layers are more chemically stable, allowing operation and cleaning under extreme conditions.



• Graphene oxide (GO) hollow fiber ultrafiltration (UF) membranes have garnered significant interest due to their potential for higher flux in lower pressure with very high molecular separation.







Reach us

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