



LIST
HEBEI LIST TECHNOLOGY LIMITED



Tina

tina@listsic.com

[+86-17633119233](tel:+86-17633119233)

www.listceramicmembrane.com

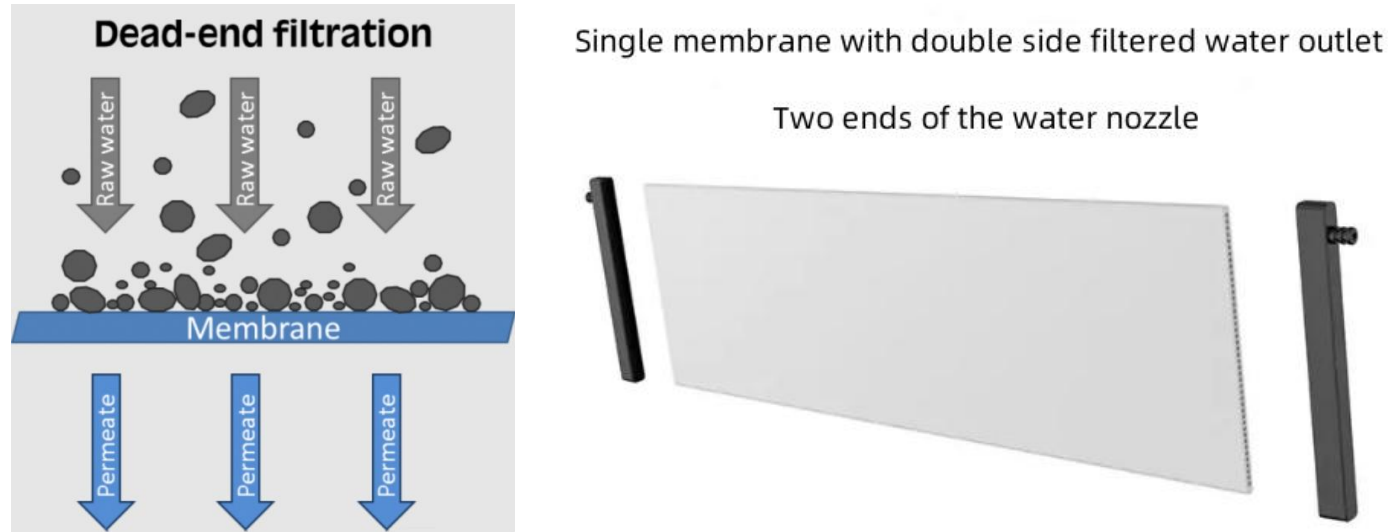


Address: No.69, Shangcheng Road, Shijiazhuang city, Hebei province, China.

INTRODUCTION OF SiC FLAT SHEET MEMBRANE AND MODULE

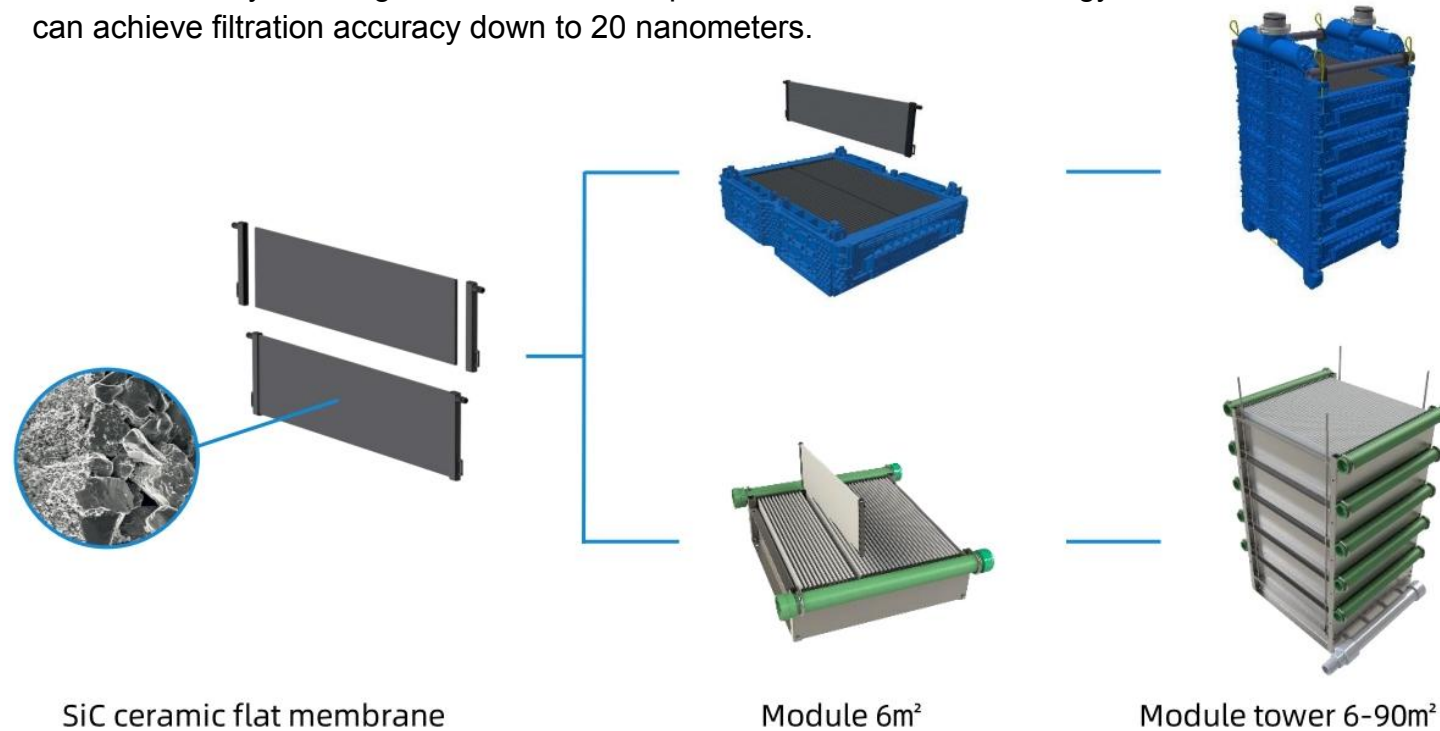
SiC flat sheet membrane is a flat sheet structure with external coating, the filtration accuracy is 0.1~0.4 μ m, with the characteristics of high strength and high hydrophilicity, especially its unique advantages in MBR and municipal tap water process, makes it become the focus of development and application.

A flat membrane filtration system is a fluid separation process called "Dead-end filtration".



SiC membrane flat module is a cutting-edge membrane separation solution for microfiltration and ultrafiltration stages. It is fabricated using high-purity silicon carbide fine powder and advanced recrystallization and sintering techniques.

The membrane boasts several desirable characteristics, such as high flux, exceptional corrosion resistance, easy cleaning, and extended lifespan. This advanced technology can achieve filtration accuracy down to 20 nanometers.



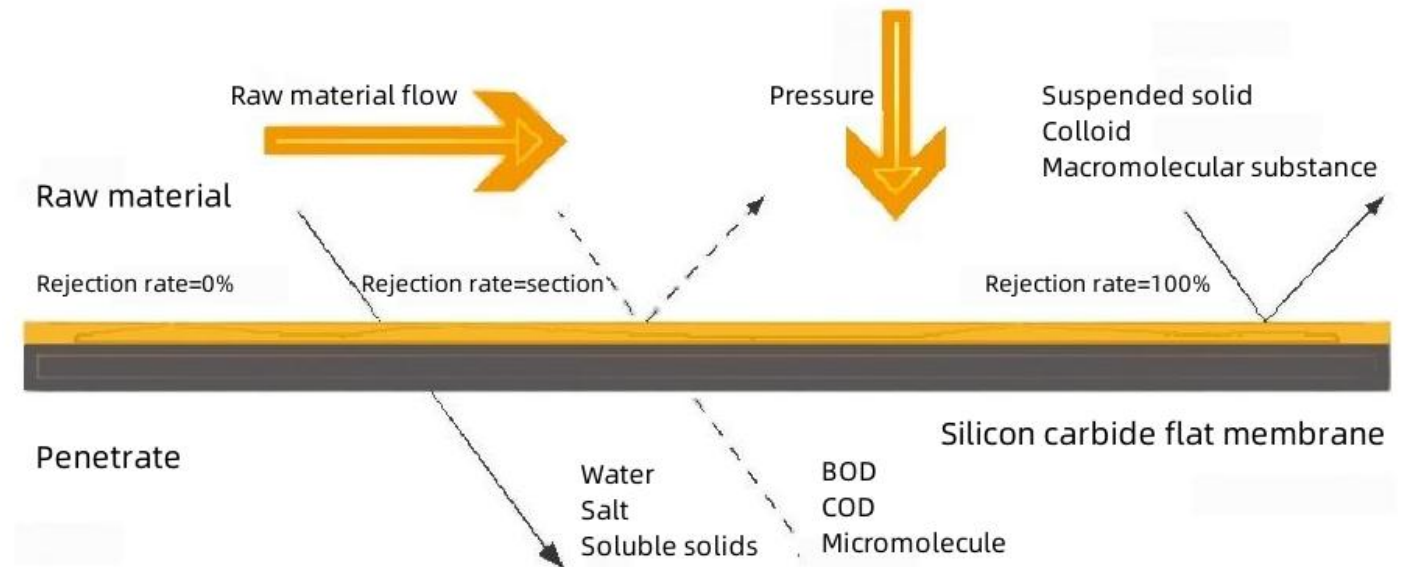
Membrane modular assembly with adjustable spacing.

FILTERING PRINCIPLE

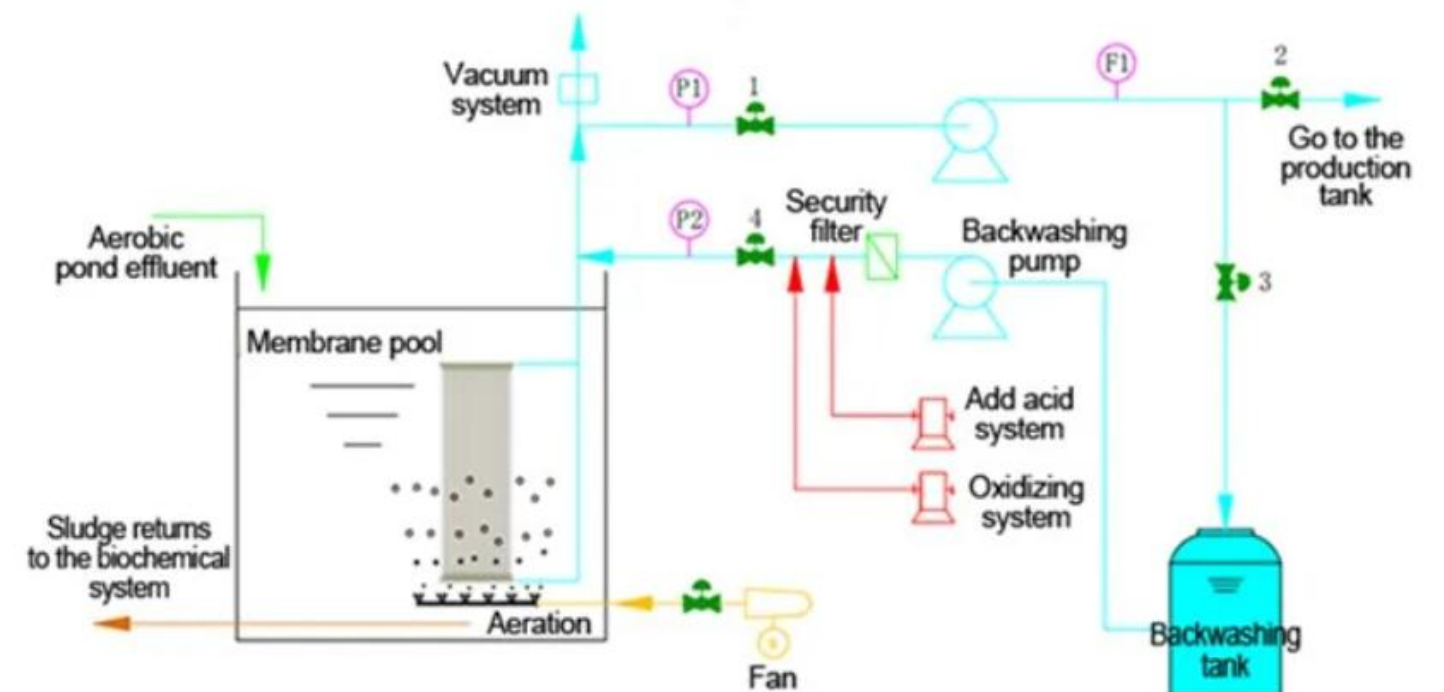
Flat sheet membrane is used in submerged filtration system for material filtration separation or membrane bioreactor.

The membrane is operated by immersion, with negative pressure suction, driving water flow through the membrane layer from the outside to the inside, and the tiny particles are blocked by the membrane layer to achieve the purpose of material separation.

And after being blocked, the biochemical substance is attached to the surface of the membrane layer to form a biological filter cake layer, which realizes the function of the membrane bioreactor.



HOW TUBULAR MEMBRANES WORK



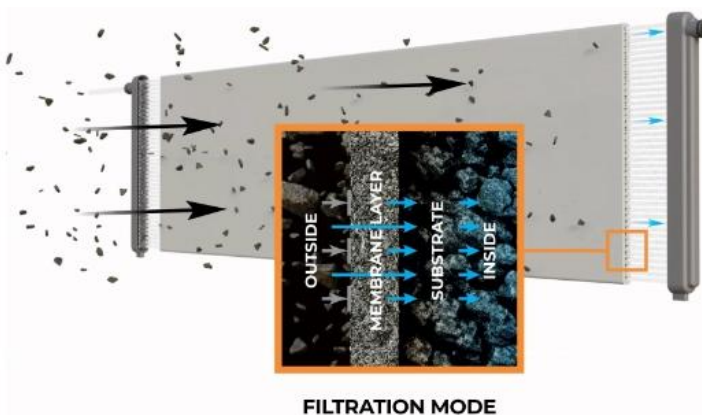
PRODUCT PARAMETER TABLE

Type	Length (mm)	Width (mm)	Height (mm)	No.of single ceramic plates	Membrane area (m ²)
LIST-130	810	650	175	50	6.5
LIST-145	705	576	160	34	6
LIST-160	910	750	210	50	8
LIST-200	910	750	250	50	10
LIST-250	1800	1300	300	100	50

EASY TO CLEAN AND EXTEND SERVICE LIFE

Operating under low vacuum, a vacuum of 0.1-0.2 bar is usually applied to the membrane to allow water to pass through. Solid and other pollutants are blocked by membrane pores and retained on the surface. Regularly perform backwashing to remove solids that accumulate on the surface.

In some applications, air flushing is used to further clean the membrane. Various types of spray washing can be used to quickly and effectively remove the solids on the membrane surface.



SiC ceramic membrane expert

Microfiltration, ultrafiltration, nanofiltration

Various ceramic membrane and module

Samples are availability

Contact Tina to get more

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APPLICATION CASE

DYE WASTEWATER FROM A CHEMICAL COMPANY



Waste Water	Dye Waste Water
Capacity	600 tons /day
Process	Raw material recovery and ww treatment
Characteristics	Oily waste water with pH >12
Avantages	Suitable for strong alkaline wastewater treatment



OILY WASTEWATER FROM A PETROCHEMICAL



Waste Water	Oilfield produced water
Capacity	1500tons /day
Process	Produced water treatment reuse
Characteristics	Oil in water
Avantages	Oiy wastewater treatment

ALKALINE WASHING WASTEWATER FROM A PHARMACEUTICAL



Waste Water	Alkaline washing wastewater
Capacity	500 tons /day
Process	Alkaline washing water treatment
Characteristics	High water alkalinity pH >1
Avantages	Suitable for strong alkaline wastewater treatment