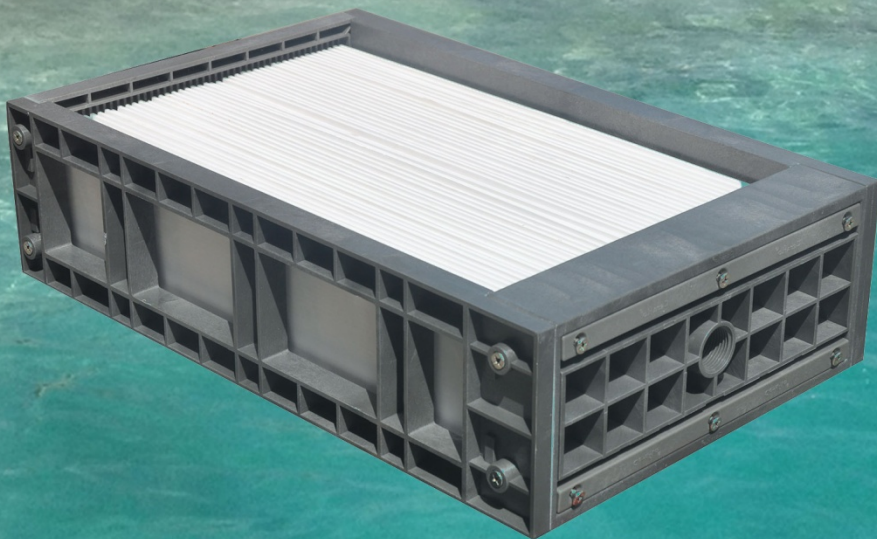


Ceraflo

The Affordable

Ceramic Membrane Module

Easy filtration for Life



CERAMIC

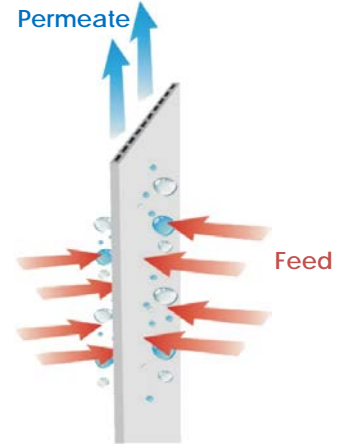
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CERAMIC MEMBRANE MODULE

the flat-sheet type ceramic filters can be utilized in various applications

Typical applications

- Water treatment
- Industrial wastewater treatment
- Sewage treatment
- Pretreatment for desalination and RO
- Suspended solids removal / bacteria removal
- Water Recycling
- Clarifying
- Membrane Bioreactor (MBR)



Advantages

Superb physical properties

- Robust against all kinds of industrial wastewater containing solvent, oil and/or other chemicals
- High dirt tolerance
- Suitable for separation of hard solids from water
- Pre-treatment system for preventing damage to membrane generally not needed

High reliability and Long Life Span

- No breakage of membranes, high resistance to chemical damage and thermal degradation

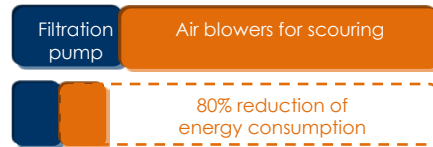
Easy maintenance

- Simple back wash and on-line cleaning removes the need for daily maintenance
- Membrane surface can easily be cleaned by air or water jet
- Both pressurized and open tank systems available
- Simple system design

Energy saving

- Sheet-form arrangement with air-dispersal method facilitate more effective cleaning
- Ceramic membrane Bioreactor requires low amount of scrubbing air thereby reducing energy consumption
- High hydrophilicity means low energy consumption

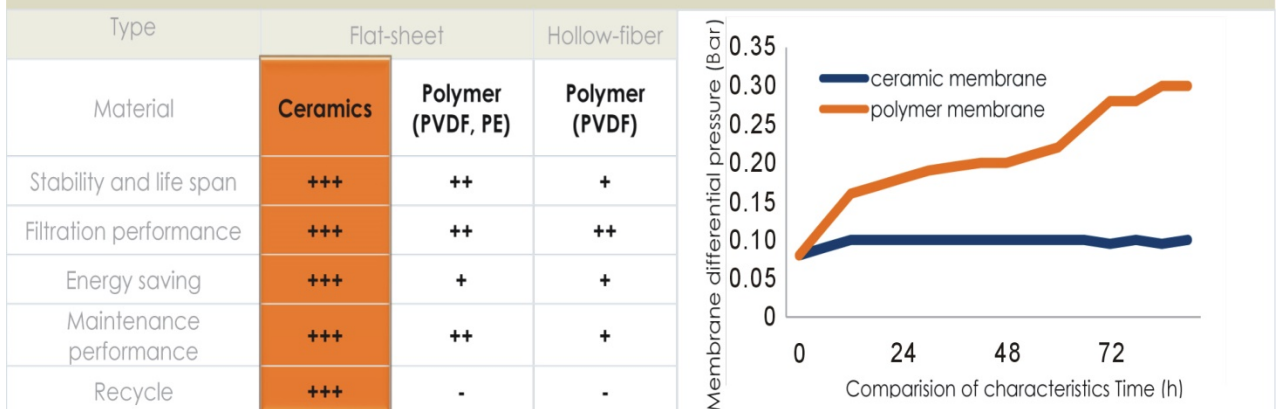
Energy consumption



Small footprint

- Higher-flux results in less than half the footprint compared to that of flat-sheet type of polymer

Comparison with polymer membranes



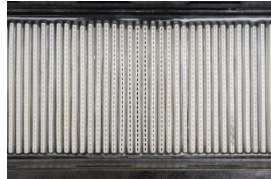
Ceramic Membrane Module

Specifications of ceramic membrane module

Model	CM4605	CM3604
Number of ceramic membrane treatment	46 pieces	36 pieces
Membrane surface area	5 m ²	4 m ²
Capacity** LMH	City water : 200-400 River water : 100-200	Waste water : 50-100 MBR : 30-50
Dimensions	560 x 360 x 143	560 x 360 x 143
Weight (dry)	20 kg	18 kg

*the module specifications can be customized

**these values have been obtained from verification tests
Subject to the condition of Influent



Ceramic standard Membrane System

Specifications of standard modular Ceramic Membrane System

Membrane type	Flat-sheet
No of Membrane Modules	30 to 50
Filtration	Out-In filtration
Material	Ceramic part : Alumina Water collector : PVC
Pore size	0.5µm
Tank Dimensions*	W1000xH2000xL2000
Weight approx (dry)	1000 to 1400 kg
Membrane area*	120 to 250m ²
River water permeability	24m ³ /hr to 50m ³ /hr at negative 0.2 Bar suction pressure
Operating pH	2 -12
Max operating temperature	80°C



*Systems can be customized



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