

Ceraflo®

Flat Sheet Ceramic Membrane

THE AFFORDABLE FILTRATION SOLUTION



SUBMERGED MODULE



PRESSURIZED MODULE

CERAFLO PTE LTD

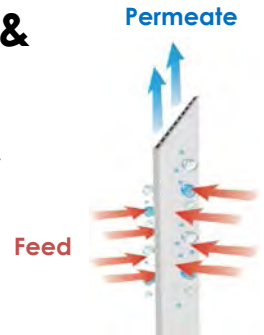
Advantages of Ceramic Membrane

Energy saving & Small footprint

- Flat sheet structure with optional air back-flush to facilitate more effective cleaning
- Ceramic Membrane Bioreactor requires low volume of scrubbing air thereby reducing energy consumption
- High hydrophilicity means low energy consumption
- Higher-flux results in less than half the footprint compared to that of flat-sheet polymeric membranes

High reliability & Long Life Span

- High mechanical strength, resilient to strong chemicals and high temperatures



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

Easy maintenance

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

CERAMIC MEMBRANE APPLICATIONS



Ceramic Membrane Modules

Conventional design that leverages on existing investments in tank housing

Specifications	Model	CS46	CS36
	No of Ceramic Membranes	46 sheets	36 sheets
	Filtration	Out-In filtration	
	Material	Ceramic – Alumina, Housing – ABS Plastic	
	Pore size (µm)	0.5	
	Membrane surface area (m²)	5	4
	Flux rate* (LMH)	City water : 200 - 400 River water : 100 - 200	Waste water : 50 - 100 MBR : 30 - 50
	Operating pressure (bar)	- 0.1 to - 0.5	
	Operating pH, Temperature (°C)	2 to 12, 80	
	Dimensions (mm)	560 x 360 x 143	560 x 360 x 143
Dry Weight (kg)	20	18	

*These values have been obtained from verification tests subject to the condition of Influent



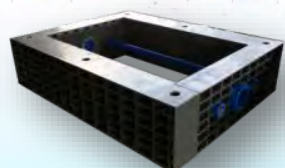
Revolutionary tank-less design

- Reduction of physical footprint from elimination of buffer space within water tank
- Full access to ceramic modules at all times
- Continual operations during cleaning, maintenance and replacement of modules except for affected column

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	Operating pressure (bar)	0.1 to 0.5	
	Operating pH, Temperature (°C)	2 to 12, 80	
	Dimensions (mm)	600 x 428 x 145	600 x 428 x 145
Dry Weight (kg)	23	21	

*These values have been obtained from verification tests subject to the condition of Influent

^Patent pending



Bottom housing module with aeration pipe and feed port



Top housing module with overflow port





Pilot Plant
Single Stacked
System



Pilot Plant
Dual Stacked
System



Pilot Plant
Bio-Membrane
Tricking filter System^
^Patent pending



About Us

Ceraflo Pte Ltd is a Singapore-based company that has joined the ranks of only a handful of ceramic membrane manufacturers worldwide.

We are the first Asian country outside Japan to manufacture multi-channel flat sheet ceramic membranes in commercial quantities.

We deliver affordable water and wastewater treatment solutions that offer highly flexible configurations and scalability:

- To increase customer's profitability and reduce operating costs.
- To develop new systems for use in harsh and challenging environments.
- To provide safe and low cost drinking water solutions to rural communities.



Ceraflo

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