

Ceraflo

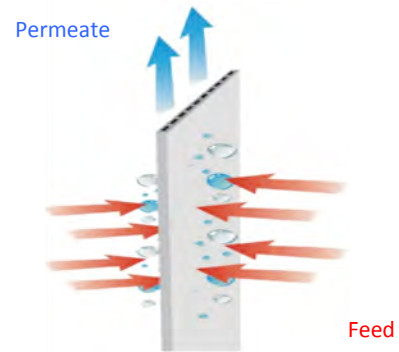
*Easy Filtration For Life*

## **Flat Sheet Ceramic Membrane**

THE AFFORDABLE FILTRATION SOLUTION



# CERAMIC



## 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
- Can be submerged into tanks as well

MODEL	CP42	CP46
No of membranes	42 sheets	46 sheets
Filtration	Out-In filtration	
Ceramic material	Alumina	
Housing	ABS plastic	
Pore size (micron)	0.5 $\mu$ m	
Membrane surface area	4.5 sqm	5.0 sqm
Capacity ** (lmh)	City water:	200 – 400
	River water:	100 - 200
	Wastewater:	50 – 100
	MBR:	30 – 50
Operating pressure	-0.2 bar to -0.5 bar	
Operating temperature	60 °C max	
pH Range	2 - 12	
Product Turbidity	$\leq$ 0.1 NTU	
Dimensions (mm)	600 x 466 x 145	
Weight (kg)	20kg	23kg

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

# MEMBRANE

## ***ENERGY SAVING & SMALL FOOTPRINT***

- Flat sheet structure with optional air back-flush to facilitate more effective cleaning
- Ceramic Membrane Bioreactor (CMBR) 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

## ***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 & LONG LIFE SPAN***

- High mechanical strength resilient to strong chemicals and high temperatures
- At least twice the lifespan of polymeric membranes

## ***EASY MAINTENANCE***

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



# SYSTEMS



CMBRP200

## CERAMIC MEMBRANE BIOREACTOR

MODEL	CMBRP200
Configuration	Pressurized
Ceramic modules	44 x CP42
Ceramic material	Alumina
Flow rate	200 m <sup>3</sup> /day



CP42-01



CP42-05



CP42-21



CP42-10

### System & Operating Specifications:

MODEL	CP42-01	CP42-05	CP42-11	CP42-21
Configuration	Ceramic Module CP42 (Out to In)			
Operation Process	Dead-end filtration ( Out to In ) Backflush (In to Out )			
Operating Temperature	< 60° C			
Product Turbidity*	< 5 NTU			
Flow Rate (per system)*				
City Water	6.0 m <sup>3</sup> /h	6.0 m <sup>3</sup> /h	6.0 m <sup>3</sup> /h	6.0 m <sup>3</sup> /h
River/ Borehole Water	3.0 m <sup>3</sup> /h	3.0 m <sup>3</sup> /h	3.0 m <sup>3</sup> /h	3.0 m <sup>3</sup> /h
Treated Wastewater	1.5 m <sup>3</sup> /h	1.5 m <sup>3</sup> /h	1.5 m <sup>3</sup> /h	1.5 m <sup>3</sup> /h
Electrical Power	230V; 50Hz; 4A; Single Phase			
Crated Dimensions (inch)	51" (L) 28" (W) 55" (H)	51" (L) 28" (W) 55" (H)	51" (L) 28" (W) 55" (H)	51" (L) 28" (W) 55" (H)
Crated Weight (kg)	240 kg	240 kg	240 kg	240 kg

Note: Ceraflo Pte Ltd reserves the right to make any changes to the information provided above without prior notice

**Ceraflo**

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