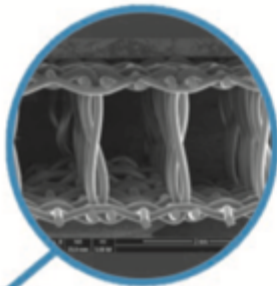


## INTEGRATED PERMEATE CHANNEL (IPC®) MEMBRANES

**the world's first high pressure  
back washable flat sheet membrane**

Installed in existing as well as in new membrane bioreactors, IPC membranes can double the output capacity per square meter and lower the aeration cost by up to 50% of your existing or future MBR.



Improved fouling control



Flux rate increase up to 100%



Higher packing density up to 50%



Robust design



Lower aeration demand up to 50%



Competitive cost

### Contact

Patrick Vanschoubroek  
Tel: +32 492 58 55 79  
[info@bluefootmembranes.com](mailto:info@bluefootmembranes.com)  
[pvs@bluefootmembranes.com](mailto:pvs@bluefootmembranes.com)

Blue Foot Membranes NV  
Gerard Mercatorstraat 31  
3920 Lommel - Belgium

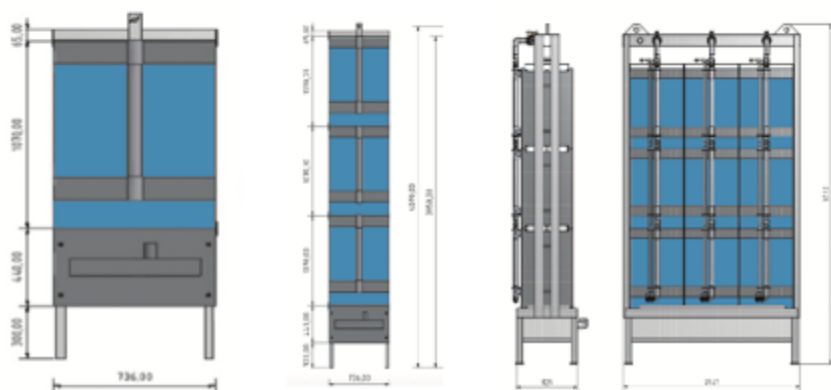


## MEMBRANE SPECIFICATIONS

Material	PVDF
Pore-size	< 0.08 µm
Permeability	> 1500 l/m <sup>2</sup> .h.bar
Back wash pressure	Up to 2 bar

## MODULE SPECIFICATIONS

	Triple Deck		Multi Mode	
	IPC® 25	IPC® 80	IPC® 80	IPC® 80
Membrane surface	25 m <sup>2</sup>	80 m <sup>2</sup>	240 m <sup>2</sup>	720 m <sup>2</sup>
<b>Dimensions</b>				
Width	385 mm	736 mm	736 mm	2421 mm
Height	1058 mm	1070 mm	4070 mm	4540 mm
Depth without filtration pipe	466 mm	716 mm	716 mm	829 mm
Filtrate pipe	DN 25	DN 50	DN 50	DN 50
Air demand per stack	16 Nm <sup>3</sup> /h	48 Nm <sup>3</sup> /h	48 Nm <sup>3</sup> /h	150 Nm <sup>3</sup> /h



## OPERATIONAL DATA

Operations parameters MBR	
Flux rate (depending on activated sludge)	15 - 50 l/h.m <sup>2</sup>
MLSS	8 - 15 g/l
Operating pressure	20 - 350 mbar
Back wash pressure	Up to 2 bar
Temperature range	5 - 50 °C
Cleaning	
Cleaning agents	Alkalines, oxidants, acids
Cleaning period (CIP)	Typically 2-4 times a year
pH cleaning	2 - 11 (max. 30 °C)
Aeration	
Tube Diffusers	medium-sized bubbles
Aerator channel height without legs (IPC®80)	440 mm
Aerator channel with legs (IPC®80)	740 mm
Pressure loss of diffusers	< 50 mbar
Module data	
Design	IPC® flat sheet membrane
Potting	wastewater resistant plastics
Housing	protective PVC plates
Operation	continuous, cyclic, pumped, gravity flow
Number of filtrate connections	2

Specifications are indicative and subject to changes



### Improved fouling control:

efficient physical cleaning is achieved by applying a vigorous backwash at frequent intervals; IPC® design allows for a well-defined flow pattern aeration and is less prone to fouling and clogging.

### High flux yield:

thanks to the better fouling control, up to 100% flux improvement can be obtained compared to other flat sheet modules.

### Low footprint:

with a thickness of only 3 mm per membrane envelope, a 50% higher packing density is achieved.

### Aeration demand:

the triple deck module configuration allows for up to 50% lower aeration demand compared to other flat sheet modules.

### Robust design:

IPC® membranes are well anchored on the support with a burst pressure of minimum 2 bar.

### Cost:

Competitive prices thanks to the reduced overall cost of ownership.

