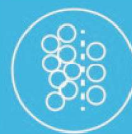
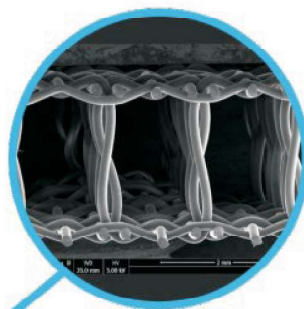
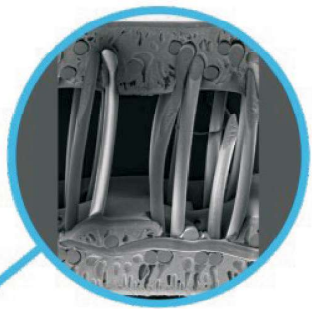


## INTEGRATED PERMEATE CHANNEL (IPC<sup>®</sup>) MEMBRANES the world's first fully back washable flat sheet membrane

Installed in existing as well as in new membrane bioreactors, IPC<sup>®</sup> membranes can double the output capacity per square meter and lower the aeration cost by at least 50% of your existing or future MBR.



Improved fouling control



Flux yield +100%



Higher packing density + 50%



Robust design



Low aeration demand - up to -50%



Competitive cost

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## MEMBRANE SPECIFICATIONS

Material	PVDF
Pore-size	< 0,08 µm
Permeability	2000 l/m <sup>2</sup> .h.bar
Back wash pressure	< 2 bar

## MODULE SPECIFICATIONS

	IPC <sup>®</sup> 7	IPC <sup>®</sup> 25	IPC <sup>®</sup> 80
Membrane surface	7 m <sup>2</sup>	25 m <sup>2</sup>	80 m <sup>2</sup>
<b>Dimensions</b>			
Width	185 mm	385 mm	736 mm
Height	1090 mm	1058 mm	1070 mm
Depth without filtration pipe	316 mm	466 mm	716 mm
Filtrate pipe	DN 16	DN 25	DN 50
Air demand per stack	4,8 Nm <sup>3</sup> /h	16 Nm <sup>3</sup> /h	48 Nm <sup>3</sup> /h



## OPERATIONAL DATA

Operations parameters	
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	< 2 bar
Temperature range	5 - 50 °C
Cleaning	
Cleaning agents	bases, oxidants, acids
Cleaning period	Typically 2-4 times a year
pH cleaning	2 - 11 (max. 30 °C)
Aeration	
Tube Diffusers	medium-sized bubbles
Aerator channel height without legs	440 mm
Aerator channel with legs	740 mm
Pressure loss of diffusers	80 mbar
Module data	
Design	IPC <sup>®</sup> flat sheet
Grouting	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<sup>®</sup> design allows for a well-defined flow pattern and is less prone to braining and clogging compared to hollow fibre modules.

### High flux yield:

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

### Low footprint:

with a thickness of 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 comparable to commercial available flat sheet modules.

### Robust design:

IPC<sup>®</sup> membranes are well anchored on the support with a burst pressure of minimum 4 bar.

### Cost:

Competitive prices thanks to the reduced overall cost of ownership.

