



MP4® polymeric membranes

Data sheet



General description of an MP4® module

The MP4 crossflow filtration module, in microfiltration or ultrafiltration mode, combines high performance, high reliability, long life and low operating costs. It consists of a stack of membrane plates and separator plates. They are clamped with tie rods between the 2 stainless steel press plates. The flat membranes are made of polymers, available in PAN or PVDF.



What makes MP4® unique?

Plate and frame system – A high-performance design

- Open liquid path principle (no spacer)
- Proven flat membrane technology
- Visualization of the quality of the filtrate produced by each membrane
- Easy to use: identification and isolation by plates in case of damaged membranes (isolation valve)
- Easy and direct installation in place of existing units
- Easy replacement of the module (~ 5 minutes)

Efficiency, Reliability Exceptional

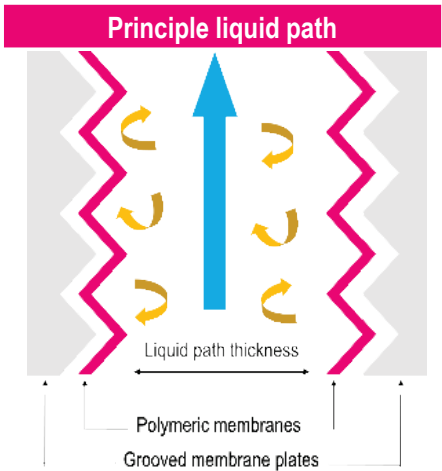
- Reliable flow rates
- Long lifetime

Ready to use

- **Module ready to connect**
- No pre-conditioning of the membrane required

Environmentally friendly

- Entirely recycled by Orelis Environnement
- No disposal costs



Installation of MP4 modules in the automotive industry

	PVDF	PAN
Microfiltration		
0,20 µm	✓	
0,10 µm	✓	
Ultrafiltration		
40 kD	✓	
30 nm		✓

PVDF: Polyvinylidene fluoride – PAN: Polyacrylonitrile

Other cut-off points and materials, please consult us

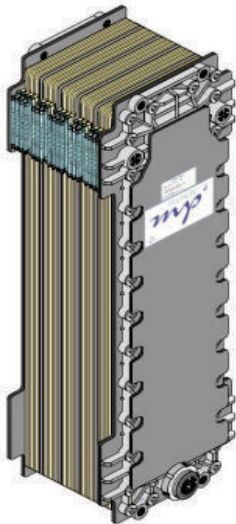


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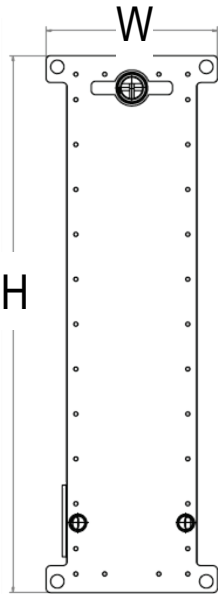
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MP4® module characteristics

MP4® module characteristics						
Module MP4 type	Height: H	Width: W	Depth: A	Quantity of plates	Seal	Module membrane area
2S14P	1196 mm	380 mm	1,65 mm: 170 mm 3 mm: 206 mm	26	1,65 mm / 3 mm	9,36 m²
3S10P	1196 mm	380 mm	1,65 mm: 190 mm 3 mm: 226 mm	27	1,65 mm / 3 mm	9,72 m²
3S14P	1196 mm	380 mm	1,65 mm: 260 mm 3 mm: 314 mm	39	1,65 mm / 3 mm	14 m²
5S6P	1196 mm	380 mm	1,65 mm: 200 mm 3 mm: 237 mm	25	1,65 mm / 3 mm	9 m²
5S8P	1196 mm	380 mm	1,65 mm: 260 mm 3 mm: 310 mm	35	1,65 mm / 3 mm	12,6 m²



Representation of the Model 5S8P



Features

Membrane surface area:	0,36 m²
Liquid Path Thickness (= gasket thickness):	1,65 mm ou 3 mm
Number of plates according to the module configuration:	25 ; 26 ; 27 ; 35 ; 39

Applications examples & industrial references

Industries	Applications
- Automotive - Surface treatment - Agriculture - Chimistry ...	- Ultrafiltration of the cataphoresis paint bath - Treatment of demineralized rinsing water - Valorization of by-products - Membrane Bioreactor (MBR) - RO prefiltration ...