

A8 Series

Sidestream tubular membranes are installed on a dedicated skid to separate the treated effluent from suspended solids and some colloids, providing a high-quality effluent (free of suspended solids and partly disinfected). The open channel design enables the processing of liquids with high levels of suspended solids without plugging and facilitates highly effective cleaning-in-place interventions.

In each membrane module, 365 membrane tubes are potted with epoxy resin at each end to fix them to the housing.

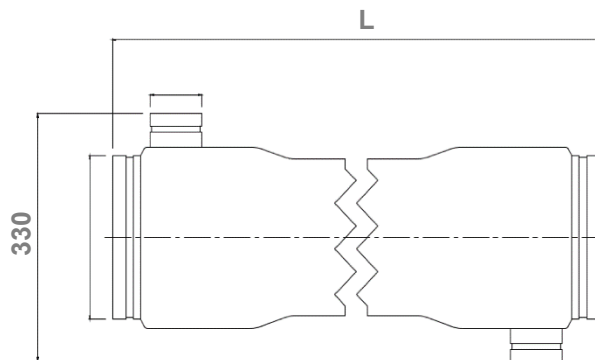
Thanks to the availability of different membrane selectivities, this product is suitable for MBR and direct filtration applications.

Membrane material:	PVDF
MWCO options:	450 kDa, 200 kDa, 100 kDa and 20 kDa
Membrane configuration:	Tubular
Tube diameter:	8.0 mm, 12.5mm and 6mm (internal)
Filtration mode:	In-to-out
Housing material:	GRP
Gaskets material:	Nitrile



Membrane Module Specifications

Model	MWCO [kDa]	Length (L) [mm (in)]	Feed/ concentrate connections	Permeate connections	Membrane area [m ² (ft ²)]	Weight [kg (lb)]
FPF020/3M	20	3,000 (118.1)	8" (Victaulic)	2 x 2.5" (Victaulic)	27 (291)	46 (101)
FPF10/3M	100					
FPF20/3M	200					
FPF450/3M	450					
FPF020/4M	20	4,000 (157.5)	8" (Victaulic)	2 x 2.5" (Victaulic)	36 (388)	65 (143)
FPF10/4M	100					
FPF20/4M	200					
FPF450/4M	450					



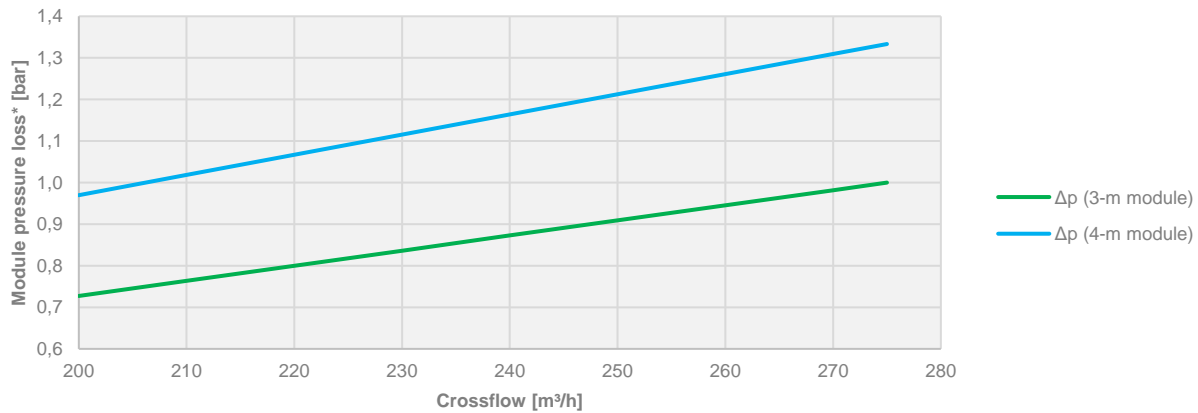
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Recommended Operating Conditions

Parameter	Value
Maximum operating pressure	7.0 bar
Temperature range	5-49°C
pH range	1.5-10.5
Maximum chlorine concentration	250 ppm at pH > 9

Module Pressure Loss Curve



* The module pressure loss value include the pressure loss of the corresponding U-bend. The data is representative for water or similar viscosity liquids.

Cleaning Guidelines

The following reference CIP guidelines are to be adapted based on the specific application, feed fluid and operating parameters:

- Flush with sufficient service water to remove the loosely attached foulants;
- Prepare a caustic solution with sodium hydroxide at pH 10.5 at 55°C (if cleaning at 1 bar) or at 50°C (if cleaning at 7 bar);
- Circulate the caustic solution for 20 minutes;
- Displace the caustic solution from the system;
- Prepare a caustic solution with sodium hydroxide at pH 10.5 plus sufficient sodium hypochlorite to have 200 ppm free chlorine (based on the total volume of the system) at 55°C (if cleaning at 1 bar) or at 50°C (if cleaning at 7 bar);
- Circulate the caustic and hypochlorite solution for 30 minutes. During this time, further sodium hypochlorite may be added to maintain the level of free chlorine;
- Displace the caustic and hypochlorite solution from the system;
- Flush with sufficient service water to remove all traces of the cleaning solution.

Note: It is essential that the pH of 10.5 is achieved before addition of sodium hypochlorite in order to prevent attack of the membrane by the hypochlorite.

Disclaimer: The information and data contained in this datasheet are based on our general experience and are believed to be correct. They are given in good faith and are intended to provide guidelines for the selection and use of our products. Since the conditions under which our products may be used are beyond our control, this information does not imply any guarantee of final product performance and we cannot accept any liability with respect to the use of our products. The quality of our products is guaranteed under our conditions of sale. Existing industrial property rights must be observed.

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