

SiCFM - Module 087 & 174

A test module can be used to scale up to commercial size by testing details on:

- retention
- flux
- cleaning & maintenance



Specifications – SiCFM – Module 087 & 174		
Test module	SiCFM - Module 87	SiCFM - Module 174
Dimensions	L330xW220xH160mm	L600xW223xH280mm
Active membrane surface	0,87 m ²	1,74 m ²
Number of flat sheets	12	12
Distance between sheets		6 mm
Permeate and hose connection		G 1¼ "
Maximum flow	870 ltr/hour	1.740 ltr/hour
Maximum suction pressure		-700 mbar
Maximum backwash pressure		3 bar
Operating temperature		5-80° C
Cleaning methods	Backwash/Air-pressure/High pressure jet/Chemical cleaning	
Pore size		0,1µm

SiCFM-PU0174

The Cembrane SiCFM membrane pilot unit is designed to be used for pilot testing of drinking- and wastewaters. The Pilot Skid is provided with a MF/UF 1,74m² SiC submerged filter module, feed & permeate tanks, smart relay controls, pumps and is pre-plumbed. The operating program allows for basic operation of the membrane to establish general membrane performance characteristics of the process. The set-up can be configured for continuous feed or batch processing. The pilot unit can be used to investigate scalable performance in terms of:

- Permeate quality
- Flux & Recovery rate
- Maintenance and cleaning schemes



SiCFM-PU0174 Technical properties

Permeate pump capacity:	1,25 m ³ /hour, centrifugal pump 0 – 0,7 bar suction
Blower capacity:	6 m ³ /hour
Backwash pump:	Centrifugal pump 2,3 m ³ /hour 2 bar
Sludge pump:	0,5m ³ /hour 0,5 bar
Standard control panel:	Semi-automatic smart relay. Manual reading of flow & pressure, no datalogging. <i>Datalogging and frequency converter on demand.</i>
Dimensions of pilot unit:	L141xW108xH128 cm
Site requirements:	Electrical requirement 380V 2 KW 3-phase. Feed pump provided by user.
Declaration:	CE self-declaration certificate

Additional features on demand:

- Fully automatized with datalogging of filtration pressure and flow and backwash pressure and flow.
- Remote access and control of unit.
- Online NTU measurement connected to the datalogging.
- Sprinkler system mounted on top of membrane module for outside spray cleaning. The water is coming from a bypass from the backwash pipeline.