

Membrane Pilot Plant (PSta06-PLC)



DIMENSIONS

Dimensions	2400 x 1000 x 1800 mm (L x B x H)
Weight	approx. 500 kg
Material (wetted parts)	EPDM / PP / PTFE and stainless steel (group V4A)
IP protection class	IP 54

ELEKTRICAL DATA

Connection for power supply	32 A-CEE / 400V / 50 Hz / 3-phase / N / PE
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DATA

Storage tank	approx. 250 l (stainless steel)
Mounting device	Stainless steel pressure tube for Spiral-wound module (here 6") and Stainless steel pressure tube for various ceramic modules
Field of use	MF/UF
Temperature range	up to 60 °C at 6 bar
Pressure range	0 - 6 bar
Flow rate (feed)	2 - 20 m ³ /h

System control via PLC
(type. Siemens / S7)

Safety shut-off and dry run protection (p,T)
control on constant volume flow (over flow)
control on constant pressure

The system control via PLC guarantees the performance of long-term tests and an independent and safe system operation even without a data logging system.

(The specified technical data are maximum values. They do not coincide all at the same time!)

SENSORS	MEASURING RANGE	QUANTITY
Pressure	0 - 10 bar	(5 pieces)
	0 – 6 bar	(2 pieces)
Differential pressure sensor	0 – 6 bar	(1 piece)
Volume flow (feed) (magnetic-inductive flow meter)	0 – 20 m ³ /h	(1 piece)
Volume flow (permeate) (magnetic-inductive flow meter)	0 – 5 m ³ /h	(1 piece)
Level control (storage tank)	Guided microwave	(1 piece)
Temperature (PT 100)	0 - 100 °C	(1 piece)

FILED OF USE

Comparison of different types of membranes materials technical membrane modules

Cleanability experiments of various type of membranes and materials

Optimization of process parameters of industrial applications

Concentration experiments

Schematic view of membrane pilot plant (PSta06-PLC)

