

Pilot Plant Psa05 (acid resistant)



DIMENSION

Dimensions*	approx. 2400 x 1000 x 1600 mm (L x B x H)
Weight	approx. 200 kg
Material (wetted parts)	PTFE, PP, FEP, PVDF, FPM

ELEKTRICAL DATA

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

DATA

Storage tank	approx. 200 l (PP)
Backwash tank	approx. 8 l (PVDF)
Pressure tube for	Tubular module (type: MD 090 TP 2N, PP, approx. 1 m ² membrane area), others adaptable
Field of use	MF / UF
Temperature range	Up to 80 °C (below 2 bar)
Pressure range	0,5– 5 bar
Flow rate (feed)	500 – 8000 l/h

System control via PLC

safety shut-offs and dry run protection (p,T)
control on constant pressure
control on constant permeate volume flow

The system control via PLC guarantees the performance of long term tests and an independent and safe system operation.

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

SENSORS	MEASURING RANGE	QUANTITY
Pressure	0 - 6 bar	(3 pieces)
Volume flow (feed) (magnetic-inductive flow meter)	480 - 24000 l/h Minimum conductivity 5 µS/cm (20 µS/cm for purified water)	(1 piece)
Volume flow (permeate) (magnetic-inductive flow meter)	120 - 6000 l/h Minimum conductivity 5 µS/cm (20 µS/cm for purified water)	(1 piece)
Volume flow (quench) (rotameter)	5 – 50 l/h	(1 piece)
Level control (in storage tank)	guided microwave	(1 piece)
Temperature (PT 100)	0 - 100 °C	(1 piece)

FIELD OF USE

Experiments for preparation of acidic aqueous solutions

Comparison of different types of membranes and materials in acidic aqueous solutions

Experiments to optimize process parameters of industrial applications

Piloting directly on site

Schematic view of Pilot Plant PSa05

