

Laboratory - Testplant LSta80-SPC

Nanofiltration / Reverse Osmosis



LSta80-SPC: Testunit for R & D

LSta80-SPC is a fully automated testunit for membrane technique. It allows standardized tests up to a maximum pressure of 80 bars (1160 PSI) fully automated and reproducible.

Several membrane samples may be explored simultaneously in circulation or concentration trials with defined parameters. The geometry of the testcell is comparable with a technical spiral module. All significant parameters are controlled and documented automatically.

The layout of the testunit will be adapted to the application (e. g. brackish or seawater, solvents).

The SPC permits to choose the parameters for a complete test program. It is possible to set up to 10 variations of

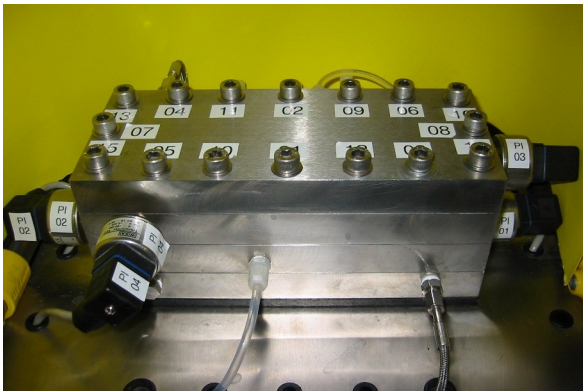
parameters. In addition to the control mode (transmembrane or rather cell pressure or permeate flow) parameters like flow, pressure and test duration can be fixed. The changeover to the next test step will be effected by trial duration or - during concentration tests - by the produced permeate volume .

Other parameters, which are controlled during the tests (partly over external controlled devices) are temperature of membrane, pH-value and level of feed tank..

SIMA-tec® GmbH

Vogelsrather Weg 1
41366 Schwalmtal
Fon +49 2163 349 21 0
Fax +49 2163 349 21 11

Testcell for flat sheet membranes



Picture 2: Testcell for 3 membranes

- up to 80 bar
- stackable (up to 5 membranes)
- internal flow guidance
- pressure measurement at each testcell in- and output
- flat channel for spacers (up to 80 mil)
- simple handling
- low pressure loss

Up to 5 membranes in one testcell

Options for LSta80-SPC

- flow rate measurement of all permeates
- online-conductivity-measurement
- sensor technology individually adaptable
- spray protection
- complete recording of measurement
- circulation thermostat for tank
- plant equipped as low pressure plant for MF/UF
- ...

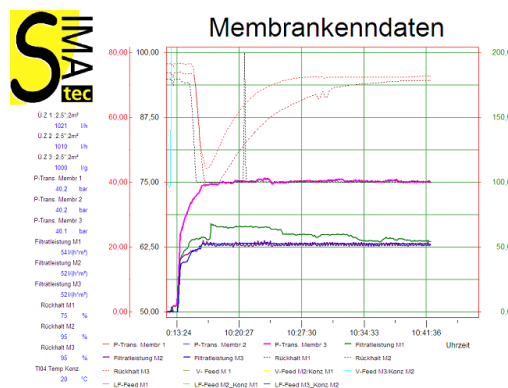


Picture 3: LSta 80 SPS

Allmost everything is possible!

Measurement recording

- online admission of all relevant measured values
- direct display of the characteristic membrane data during the trial
- automatic report print option (e.g. all 24 h)
- individual layout adjustment
- takeover of control functions possible (e. g. feed & bleed)



Comfortable tool for interpretation of data

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Vogelsrather Weg 1
41366 Schwalmtal
Fon +49 2163 349 21 0
Fax +49 2163 349 21 11
info@simatec.de
www.simatec.de