

Laboratory-Membrane-Testplant LSta05

Microfiltration / Ultrafiltration

- feed-flow rate, adapted to the geometry of the testplant
- max. 5 bar feed pressure
- individual controlling concept
- protection against dry running and excess pressure
- sampling of feed, permeate and concentrate during the operation
- double walled tank
- choice between different test cells
- medium-affected parts made of 1.4571 and/or 316L as well as PVDF or PTFE
- display of all measuring data (pressure, temperature, concentrate flow rate) at the plant



Figure 1: Testplant LSta05

- sensor technology individually selectable
- complete operability in front range of plant
- industrial sensor technology with standard output signal (4...20 mA)

Test cell geometries for LSta05

- 85 bzw. 266 cm² membrane area
- up to 10 bar
- stackable (up to 5 membranes)
- internal flow interconnection
- pressure measurement possible at each in and output of test cell
- flatchannel for spacer (up to 80 mil)
- free feed gap up to 4 mm
- easy handling
- low pressure drop
- membrane damage at input area prevented by calmed input-flow

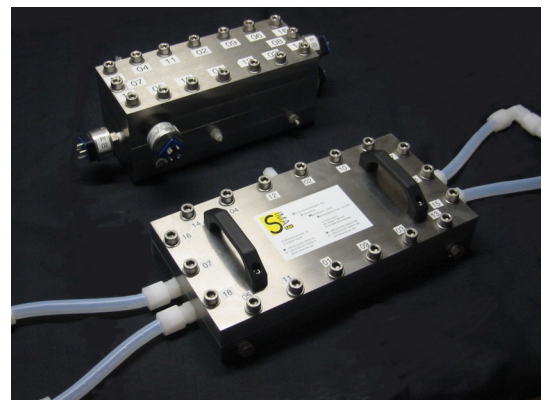


Figure 2: test cell geometries 85 cm² (rear) and 266 cm² (front)

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Options for LSta05

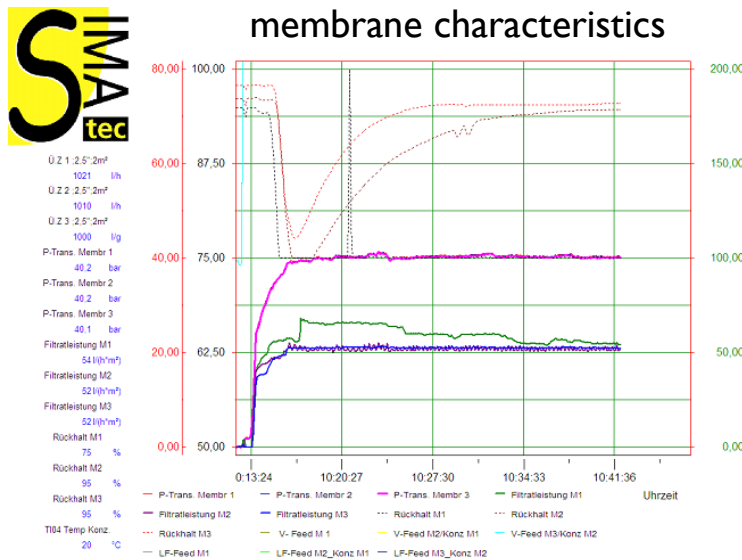
- flow rate measurement of all permeates
- backflush facility adapted to test cell
- online conductivity measurement
- sensor technology individually adaptable
- spray protection
- complete recording of measurement
- circulation thermostat for tank
- control of steady permeate volume flow
- further tanks for test medium
- upgradable to feed & bleed-operation
- ...



Figure 3: MF-pilot plant

Almost everything is possible!

Measurement Recording



comfortable tool to analyse your test series

- online admission of all relevant measurement data
- direct display of membrane characteristics during trial
- automatic report print option (e.g. all 24 h)
- recording in excel files
- individual layout adjustment
- takeover of control functions possible (e.g. for feed & bleed)
- ...

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