# MaxiMem The "big" laboratory membrane unit



Prozesstechnik GmbH

### The concept:

flexible unit for all pressure driven membrane processes: reverse osmosis, nanofiltration, ultrafiltration and microfiltration. Easy change of membrane module: flatchannel or tubular ceramic for screening of membranes and spiral wound module for larger membrane area and scale-up. Feed vessel with 2.5 or 5 l volume or any external feed vessel, big enough for all applications.

## Complete system:

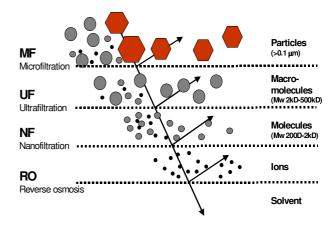
The MaxiMem is a complete filtration system on a stainless steel frame. The feed pump is frequency controled. There is a choice of membrane modules to be used: flat-channel. tubular ceramic, spiral wound. The stainless steel control cabinet contains a PID temperature controler for the jacketed feed the membrane vessel Electronic display and data recording of operating pressure, pump throughput, temperature and optional permeate flux.

#### Advantages:

- flexible with membrane modules from 200 cm<sup>2</sup> up to 2.5 m<sup>2</sup> membrane area
- operable with minimum 200 ml
- feed vessel 2.5 I 100 I or larger
- operating pressure 1 40 (80) bar
- compact and flexible
- electronic data acquisition

### Applications:

- reverse osmosis, nanofiltration. ultrafiltration, microfiltration
- concentration, diafiltration, loop operation, batch and continuous
- · membrane filtration with larger amounts of product
- concentration, purification and desalting of valuable products, waste stream treatment and recycling



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