

MaxiMem The „big“ laboratory membrane unit



The concept :

A flexible unit for all pressure driven membrane processes: reverse osmosis, nanofiltration, ultrafiltration and microfiltration. Easy change of membrane module: flat-channel 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 lab applications.

Complete system:

The MaxiMem is a complete filtration system on a stainless steel frame. The feed pump is frequency controlled. 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 controller for the jacketed feed vessel and the membrane modules. Electronic display and data recording of operating pressure, pump throughput, temperature and optional permeate flux.

Advantages :

- flexible with membrane modules from 200 cm² up to 2.5 m² membrane area
- operable with minimum 200 ml
- feed vessel 2.5 l - 100 l 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

