



Pilot Laboratory Equipment for Membrane Filtration

LabUnit M39L/H

The LabUnit M39L/H is specially developed for ultrafiltration and microfiltration of highly viscous products and fermentation broths. This module is ideal for a range of uses in industries that include biotechnology, pharmaceuticals, food and beverages. To meet the demands experienced here, the module is designed for optimized flow dynamics, low energy consumption and pressure operation. The LabUnit M39L/H is ideal for process development, scale-up, membrane testing, quality assurance and small-scale production.

The unit is equipped with a lobe pump provided with a frequency converter to cover the wide range of cross-flows needed for testing. An electromagnetic flow transmitter measures the cross-flow.

The LabUnit M39L/H is designed to provide rapid, precise process evaluations in laboratories and other test facilities, while keeping equipment and set-up costs to a minimum. The unit utilizes the same size support plates and membranes as those found in the full-scale module M39L/H.

Advantages

- Rapid, easy exchange of membranes
- Can be coupled to the by-pass stream of an industrial plant
- Different channel height options to optimise flow and pressure
- Simultaneous test of up to five different membrane types
- Low internal volume
- All components manufactured in compliance with FDA regulations
- Flexible system design
- Flexible membrane area between 0.2-1.0 m²
- High operating temperature (up to 80°C)
- Flow pattern identical to full-scale systems



