

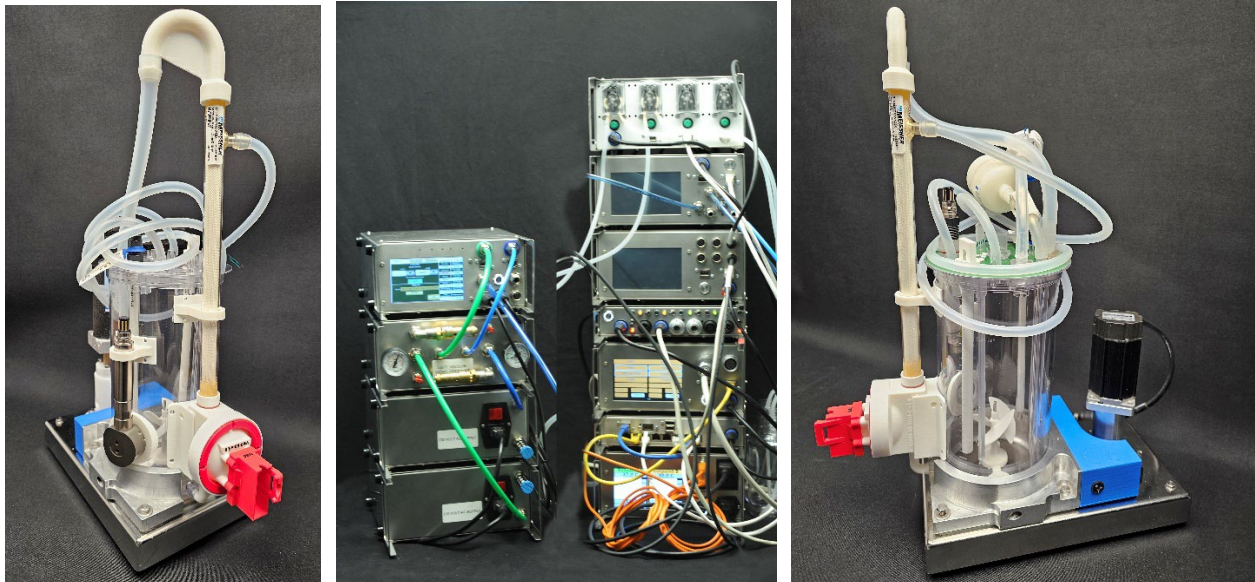
CellMembra-3™ Integrated TFF

Popular size Perfusion-SUB 3 liter

Perfusion-SUB for cell retention in TFF continuous cultivation in a fully single-use setup. The new concept is Pulsating-Tangential-Flow overcoming the well-known HFF fouling. Integrates a CellVessel Single-Use-Bioreactor (SUB) and the Clio diaphragm Oneway-Single-Use-Pump (O-SUP) with the SeptraPor™ Hollow-Fiber-Filter (HFF) opens for new opportunities.

General features of CellMembra medium size Perfusion-SUB:

- SUB configured to satisfy any requirement like impeller, hoses, connectors, etc.
- Working Volume range from 0.4 to 2 liter.
- Integrating Meissner customized SeptraPor HFF and Hamilton Single-Use-Sensors (SUS).
- Pumped volume and obtained broth velocity accurately measured – no guessing.
- The complete and pre-assembled unit packed in dual film bags and precision irradiated – forget the autoclave – ready to use.



Photos show 3 liter P-SUB integrating HFF and SUB. The Laser sensor to be mounted in the red Laser-Support on the Clio dome. Center photo show complete customizable Process-Control-System from sister www.cronus-pcs.com. P-SUB is comfortable mounted on the Magnetic-Stirrer-Table (MST) driven by any servo motor separate from the light weight P-SUB.

The CellMembra-3 is from birth a complete P-SUB by integrating both the SUB, HFF, SUP, SUS – all in one package. Feature 5 x PG 13.5 ports for pre-installed Single-Use-Sensors. The Clio TM80 O-SUP offer selectable 1 - 60 ml/stroke capacity, able to pump 0 - 15 strokes/min, selectable velocity range 0 - 15 m/s for HFF cleaning and measure pumped volume with 1 % accuracy.

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www.perfusecell.com