

# CellMembra-500™

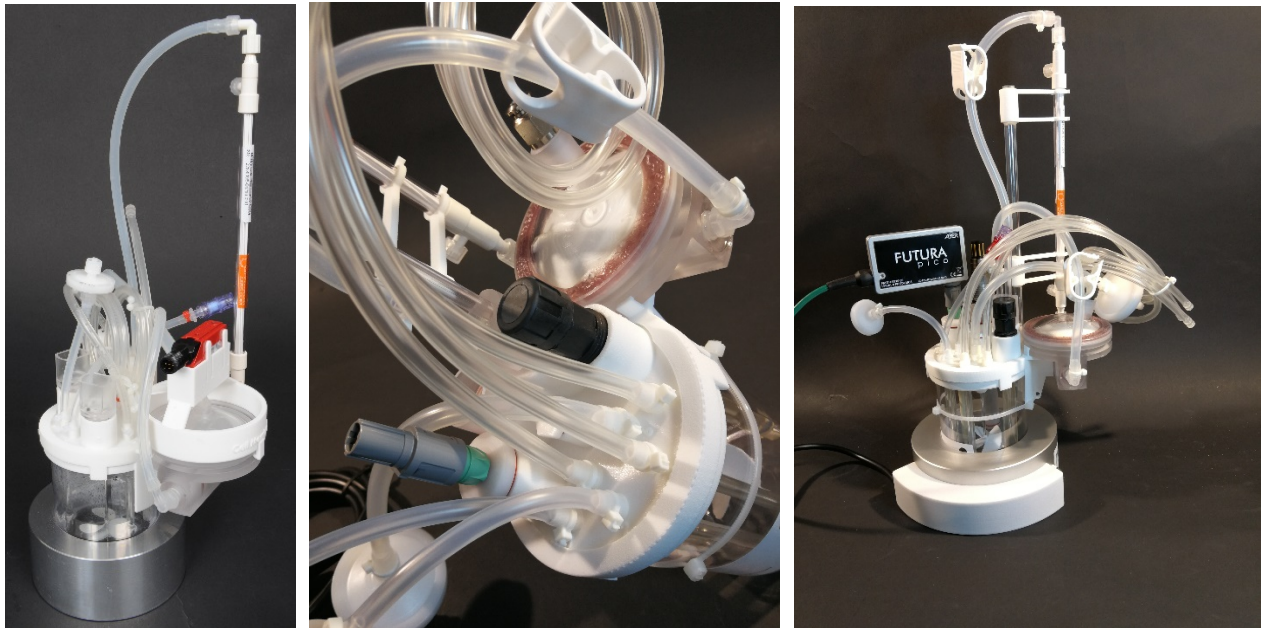
World smallest Perfusion-SUB

Mini Perfusion-SUB for cultivation of +75 mio/CHO/cell/ml by cell retention in perfusion setup.

The P-SUB integrates a Single-Use-Bioreactor (SUB) and the Clio One-way-Single-Use-Pump (O-SUP) with the 200 mm HFF (Hollow-Fiber-Filter) and Single-Use-Sensor's. Operating principle is pulsating-Tangential-Flow (PTF) for extended HFF lifetime.

General features of CellMembra-500™ P-SUB:

- Designed for parallel operation in various applications and setup.
- Minimum Working Volume 100 ml
- Supplied with Single-Use-Sensors (SUS)
- Pumped volume and obtained velocity accurately measured – no guessing.
- The complete and pre-assembled unit packed in dual film bags and precision irradiated – forget the autoclave.



*Photos show the mini mounted in a Heating-Support-Foot. Red Laser sensor mounted in a Re-Usable-Bracket above the dome of the Clio-30 pump. Units from [www.perfusecell.com](http://www.perfusecell.com) include the VisiWell, OneFerm and PICO Futura bio-mass sensor and SUS.*

The CellMembra-500™ is from birth a P-SUB by integrating both the SUB, HFF, O-SUP, SUS in one package. The shown version features pre-installed DO, pH, bio-mass, level Single-Use-Sensors. The Clio-30 O-SUP offer a selectable 1-30 ml/stroke capacity, able to pump in a one-way motion 500 ml/min via the 0-25 strokes/min and measure pumped volume with 1% accuracy.

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