

CellRetention™ – world premiere

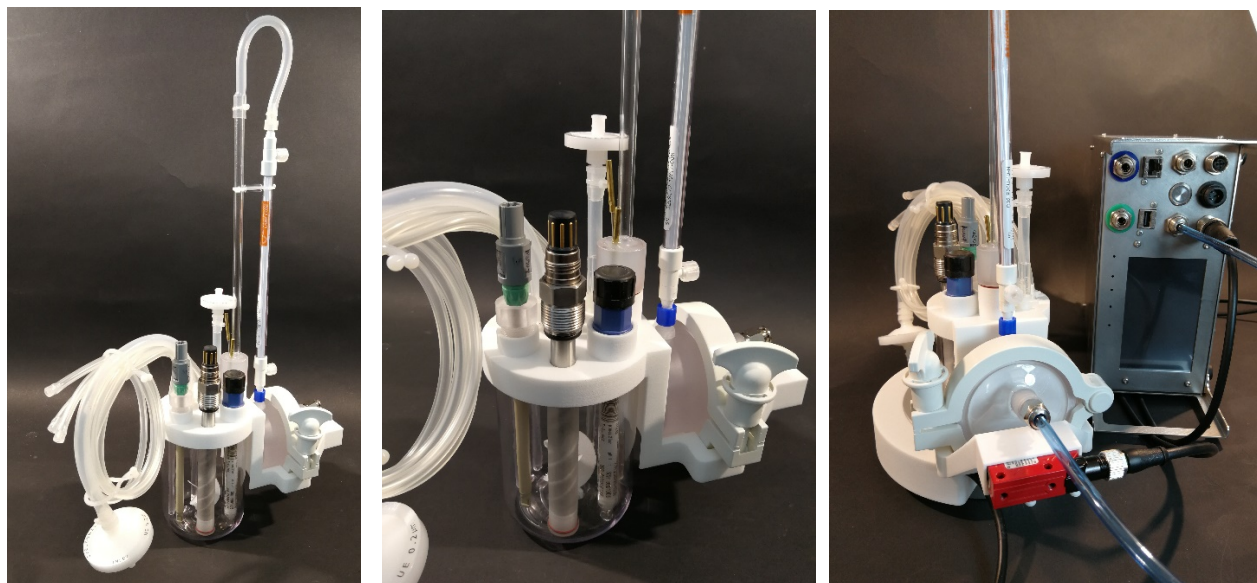
World smallest Perfusion-SUB

Mini Perfusion-SUB for cultivation of 100 mio/CHO/cell/ml by cell retention in perfusion setup.

The P-SUB integrates a Single-Use-Bioreactor (SUB) and a Single-Use-Pump (A-SUE) with the 200 mm HFF (Hollow-Fiber-Filter) and Single-Use-Sensors. Operating principle is pulsating-Tangential-Flow (PTF) for extended HFF lifetime.

General features of CellRetention™-500 miniature 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 size 500 mounted in a Heating-Support-Foot. Red Laser sensor mounted in a Re-Usable-Bracket above the dome of the Thalia-30 Alternating-Single-Use-Exchanger (A-SUE). Clotho Drive Unit from www.perfusecell.com takes care of A-SUE performance.

The CellRetention™-500 is from birth a P-SUB by integrating both the SUB, HFF, SUP, SUS in one package. The shown version features pre-installed DO, pH, level and bio-mass Single-Use-Sensor's. The Thalia-30 A-SUP when driven by the Clotho Drive Unit offer; a 1-30 ml/stroke capacity, able to convey alternating 1.000 ml/min forth and back, via 0-35 strokes/min and measure conveyed volume with 1% accuracy.

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