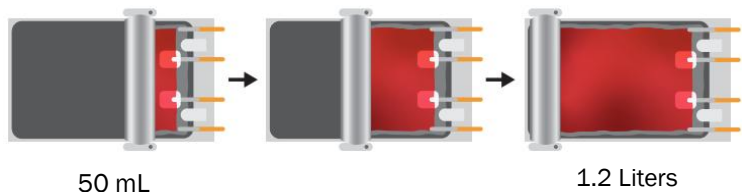


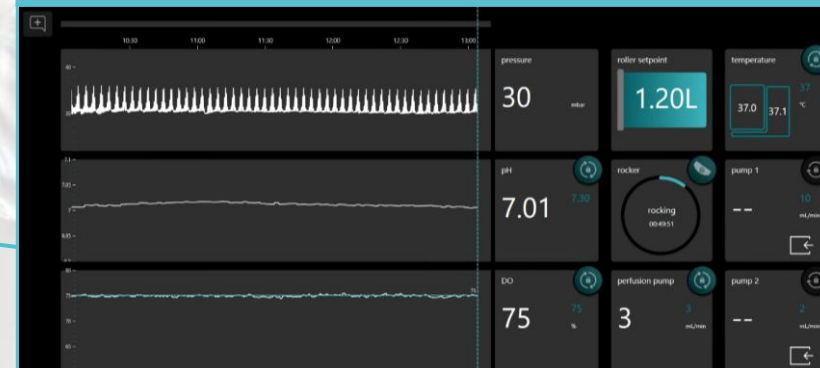
Volume-expandable application flexibility



Two different designs of **single-use bags** are optimized to grow either adherent cells on microcarriers or suspension lines. Unique volume-expansion technology allows you to achieve high-fold expansion in a single bag while maintaining an **optimal cell density throughout the whole expansion run.**



GMP-ready, Class C/D design



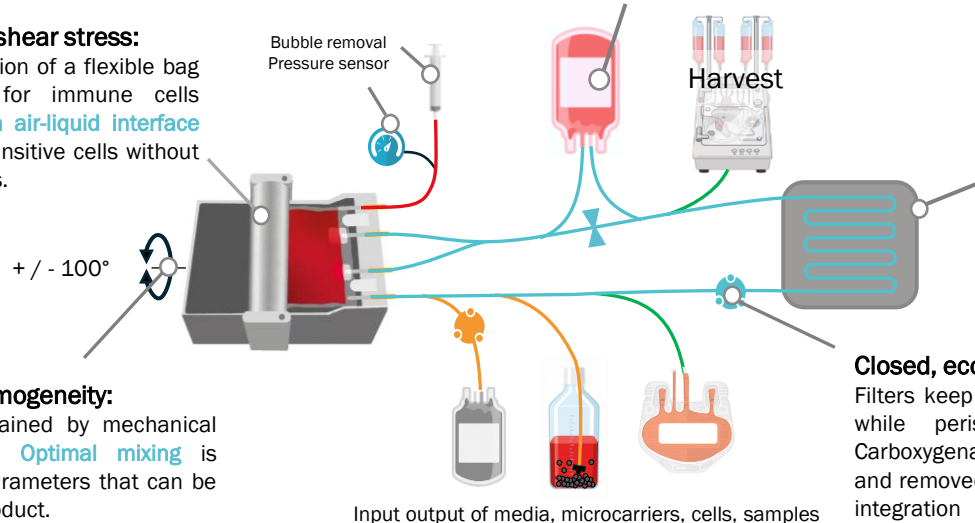
21 CFR part 11 compliant. Accessible remotely, with data report generator. Closed, automated design for Class C/D clean room. Can be operated by **one single operator** with reduced total cost of ownership and batch costs.

From fed-batch perfusion to intensified process:

The 1.2 Liters of working volume in the bag can be perfused with >2 Liters of extra media for an **intensified process** that yields **tens of billions of cells** and minimizes culture media consumption.

Headspace-free for minimal shear stress:

The roller-based volume expansion of a flexible bag makes it an ideal design for immune cells processing. The **absence of an air-liquid interface** also reduces shear stress on sensitive cells without the need for anti-foaming agents.



- Perfusion loop
- Air removal
- Input output cells
- Input output reagents, media
- Perfusion pump

Controlling pH and DO in real time:

While the cabinet controls the temperature, the Carboxygenator adds O₂, CO₂ and N₂ into the perfused media maintaining a pH and DO setpoint within ranges of 5.5 - 8.5 and **from hypoxic to normoxic conditions** respectively.

Gentle but flexible culture homogeneity:

Homogeneous cultures are obtained by mechanical inversion of the culture bag. **Optimal mixing** is achieved with flexible rocking parameters that can be optimized for your cell culture product.

Closed, ecosystem-agnostic, optimized design:

Filters keep microcarriers or single cell suspensions in the bag while peristaltic pumps circulate media through the Carboxygenator. Microcarriers, cells and reagents can be added and removed through **universally weldable Tygon tubing** for easy integration with Upstream or Downstream third-party technologies.



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See Osilaris™ in action

