



# Labfors 5

Universal applicability for single or parallel bioprocesses with no compromises



- ▶ Flexible and application-optimised configurations
- ▶ Splashproof touch screen with OPC server
- ▶ Parallel bioreactor option
- ▶ Faster results with optimised handling
- ▶ 100% aseptic operation and sampling
- ▶ Space-saving, compact design



# Universal applicability

## ► Flexible and application-optimised configurations

The Labfors 5 bench-top bioreactor provides an easy-to-handle, flexible and upgradable system for culture volumes from 0.5 L up to 10 L. Pre-configured packages for cell cultures and microbials are available. Special options even qualify the Labfors 5 for cultivation of phototrophic organisms, halophile microorganisms and for biofuel applications. A single-use vessel option adds further flexibility.

## ► Splashproof touch screen with integrated OPC server

Bioprocess control begins with the quality and flexibility of the local controller. The Labfors 5 splashproof touch screen controller provides accurate and reliable measurement and control for up to 6 vessels. Connecting external devices such as balances, HPLC, MS, Glucose analyser, SCADA software, etc., is easily possible via OPC.

## ► Parallel bioreactor option

The Labfors 5 features a new parallel bioreactor option which allows up to 6 vessels to be independently controlled from a single touch screen. Special features optimise the system for parallel bioreactor operation.

## ► Faster results with optimised handling

The Labfors 5 high-precision pump heads can be removed on a single plate in groups of 4 and autoclaved with the vessel. This reduces handling time and handling errors considerably as tubing does not need to be threaded around the pump heads and adjusted before use.

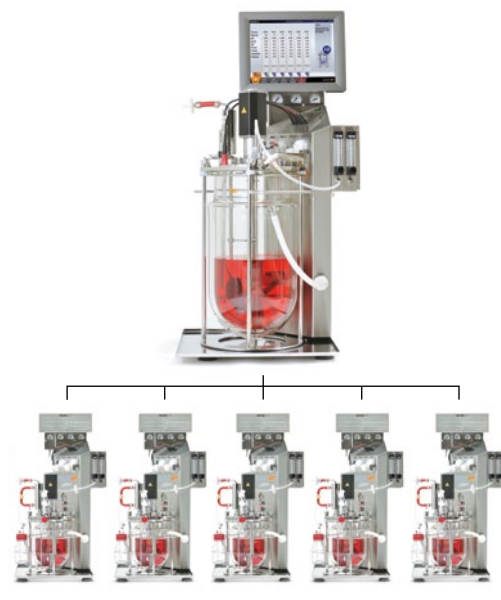
## ► 100% aseptic sampling

The INFORS HT Super Safe Sampler allows you to take smallest samples without wasting any culture. The truly aseptic design makes contamination during sampling impossible.

## ► Space-saving, compact design

With a footprint as low as 465 x 465 mm, the Labfors 5 saves valuable bench space. This reduces the overall cost and allows greater research capacity in the same space.

### Parallel bioreactor option



### Applications

- High-density cultures for protein production
- Photosensitive cultivations
- Biofuels
- Process Analytical Technology (PAT)
- Process development
- Process optimization
- Scale up
- Scale down
- Statistical studies
- Growth studies
- Anaerobic cultures
- Halophile strains
- Brewing research

### Key technical data

**Minimum dimensions:** 465 x 465 x 900 mm (W x D x H)  
**Vessels:** 2; 3.6; 7.5; 10; 13 L total volume  
**Maximum expansion:** Up to 6 base units per touch screen controller  
**Speed range:** 10–1500 rpm direct drive, 20–300 rpm magnetic drive (depending on vessel and motor options)  
**Temperature range:** ~5°C above coolant to 60°C (water jacket) or 95°C (heating pad)  
**Pump flow rate:** 0.03–3.3 mL/min (standard tubing), 0.2–17.9 mL/min (large-size tubing), 0.001–1.4 mL/min (small-size tubing)  
**Standard parameters:** Stirrer speed, temperature, pH, pO<sub>2</sub>, antifoam/level, feed, gas mix, gas flow

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