



Multifors 2

Parallel bioreactor for rapid and statistically accurate process data



- ▶ Faster results with optimised parallel handling
- ▶ Flexible and application-optimised configurations
- ▶ Space-saving, compact design
- ▶ OPC server for unlimited connection
- ▶ Precise control of your bioprocess
- ▶ 100 % aseptic sampling
- ▶ Clear path to scale-up



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May be subject to technical amendments

INFORS HT

Small scale parallel bioreactor

▶ Faster results with optimised parallel handling

Multifors has been designed to make user handling as easy as possible. A support frame carries both culture vessels, 4 reagent bottles and 8 pump heads all together for autoclaving (see images on the right).

▶ Flexible and application-optimised configurations

With a choice of preconfigured packages and an extensive list of options, Multifors 2 is always application optimized for your microbial or cell culture bioprocess.

▶ Space-saving compact design

An extremely compact freestanding device, with two completely individual bioreactors located within a single base unit. Up to 6 bioreactors can be connected to one controller and require approx. 1.2 m of bench space.

▶ OPC server for unlimited connection

Connecting external devices such as HPLC, MS, glucose analyser, etc., is possible via analog in/out signals, Modbus or OPC XML DA. The integrated OPC server also provides a link to SCADA software via a network.

▶ Precise control of your bioprocess

Bioprocess control begins with the quality and flexibility of the local controller. The Multifors 2 touch screen controller provides accurate and reliable measurement, control and communication with supervisory software.

▶ 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.

▶ Clear path to scale-up

All INFORS HT bioreactors are based on equivalent technical features and control systems. This guarantees uniform and consistent handling from process development to pilot scale. What is your next step?

3 easy steps and you're ready to go

1) Replace vessel holder on base unit



2) Fit plates with pump heads



3) Synchronised start of all bioreactors



Applications

- Process development
- Process optimisation
- Scale-up
- Scale-down
- Statistical studies
- Process analytical technology (PAT)
- Media development
- Growth studies
- Toxicity testing
- High throughput screening

Key technical data

Dimensions (W x D x H): 350 x 520 x ~960 mm

Working volumes: 100–250 mL / 180–500 mL / 320–1000 mL (bacterial system); 75–250 mL / 150–500 mL / 220–750 mL (cell culture), in pairs

Maximum expansion: 3 base units per touch screen controller, i.e. 6 vessels

Speed ranges: 100–1600 min⁻¹ for bacterial systems (depending on the vessel size), 30–300 min⁻¹ for cell cultures

Temperature range: ~5 °C above coolant to 70 °C

Standard parameters: stirrer speed, temperature, pH, pO₂, antifoam, feed

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