

Bench-top and Pilot Bioreactors



Bring exceptional precision, scalability,
and control to your bioprocessing.

INFORS HT
We bring life to your laboratory



Confidence to scale, freedom to innovate

Bioprocessing professionals face growing demands for faster development cycles, reliable scalability, and precision control to maximize yields and streamline production. With INFORS HT bioreactors, what you develop at the bench is never left behind, it's ready to scale.

Bioreactors built to grow with your process

Our innovative, intuitive technologies give you the confidence to transition smoothly from early-stage research to commercial-scale production, empowering productivity and driving breakthroughs.



Scalable design from lab to pilot

Use similar components, vessel geometries, and control systems across benchtop and pilot scales. This consistency simplifies validation, operator training, and technology transfer.



Expert support from start to scale

From design and installation to maintenance and upgrades, our team works closely with you to adapt your system to evolving process requirements.



Seamless data integration with eve® software

Our bioreactors connect to the eve® platform for full visibility across parameters, automated control, and reliable data tracking in batch, fed-batch, or continuous processes. They also integrate easily with other third-party systems for maximum flexibility.

Minifors 2

Jumpstart your bioprocess R&D with this compact and easy-to-use bioreactor

Easily initiate and manage cell culture or microbial experiments from research and development through process development with this plug-and-play Minifors 2 bench-top bioreactor system.



Quickly begin your experiments

Get your experiments started quickly with minimal experience thanks to the preconfigured delivery and intuitive controls of this bench-top bioreactor. Simply connect the device, mount the vessel, connect pumps and sensors, and begin your work quickly.



Compact and easy to handle

Requiring very little space on the lab bench, this compact bench-top bioreactor is designed for optimal handling and operation. All components are easily accessible and allow for stress-free transport within the vessel holder, to and from autoclave, fitting within smaller autoclaves with only 30 cm inner diameter.



Easily automate your data management

Save time and resources by automating your data management with eve®, a web-based bioprocess platform software. Accessing your data from anywhere so you can collaborate with colleagues at different facilities, leading to faster research results.

Product specifications

- Vessel sizes (and working volumes): 1.5 L (0.3 - 1 L), 3 L (0.6 - 2 L), and 6 L (1.1 - 4 L)
- Base unit dimensions (Width including operating panel x Depth including hose connection): 455 x 415 mm / 17.9 x 16.3 in.
- 4 high-performance pumps with configurable operating modes: digital (fixed-speed) or analog (variable speed)



Learn more at
infors-ht.com/minifors2

Multifors 3

Designed for reproducible process development and technology transfer

The Multifors 3 bench-top bioreactor carries the complete control strategy into every run, not just setpoints, helping laboratories generate reproducible results and simplify technology transfer. Together with eve® bioprocess software, the strategy is defined in advance, understood and executed by Multifors 3, and documented end-to-end to improve consistency from one run to the next.



Save time with reproducible process control

Reproducibility depends on more than setpoints. Multifors 3 plans, executes, and captures the complete control strategy, including controller presets, PID settings, cascades, hardware configuration, and sensor metadata. When you transfer a process or switch workflows, the full definition travels with it, reducing variability.



Be confident with reliable process execution

Maintain uninterrupted process control, even during network interruptions. Supports FAT/SAT qualification and deployment in GMP environments for dependable operation throughout process development.



Future proof with an open, scalable platform

Adapt to changing workflows with support for 100 mL to 10 L glass vessels and single-use vessels from multiple suppliers. Operate up to six bioreactors from one touchscreen and integrate new sensors, peripherals, and software using open communication standards.

Product specifications

- Vessel sizes (and working volumes): 375 mL (0.1-0.25 L), 750 mL (0.2-0.5 L), 1.5 L (0.33-1 L), 3.75 L (0.83-2.5 L), 7.5 L (1.75-5 L), and 15 L (3.3-10 L)
- Up to 8 pumps per vessel, integrated gas mixing, perfusion control, balance connectivity, and high sensor density.
- OPC UA, REST APIs, eve® bioprocess software, and FAT/SAT support.
- Supports analog and digital sensors for a wide range of process parameters and analytical technologies.
- Up to 2 bioreactors per control tower, up to 6 bioreactors per touchscreen, and up to 99 parallel batches with eve® bioprocess software.



Learn more at
infors-ht.com/multifors3

Techfors-S 2

Scale-up ready stainless steel bioreactor for process development

Transfer your microbial processes from bench to pilot scale on a robust, compact stainless steel SIP platform. The Techfors-S 2 is designed for process development teams, CDMOs, and research institutes that need reliable scale-up data, qualification support, and the flexibility to configure the system to their exact requirements.



Geometry designed for scale-up

The Techfors-S 2 vessel design follows standard bioreactor geometry, so process parameters developed at pilot scale translate predictably to larger systems. For labs already running INFORS HT bench-top bioreactors, gassing strategies and control logic stay consistent across scales - removing a key variable when moving processes forward



Seamless data transfer

Connect the Techfors-S 2 to eve®, our web-based bioprocess platform software, to control, monitor, and analyze your process data in one place. eve® supports batch planning, process documentation, and OPC connectivity - relevant for teams working in regulated or GMP-oriented environments



Ready to order configuration

The Techfors-S is a modular platform with pre-engineered options for vessel size, gassing strategy, sensors, qualification packages, and ASME compliance. Choose the configuration your process needs and get a fully specified system without custom engineering lead times. Standard configurations ship within 4 months, while our engineering team supports applications beyond the standard range.

Product specifications

- Vessel sizes (and working volumes): 15 L (3.4-10 L), 30 L (5.7-20 L), and 45 L (7-30 L)
- Compact dimensions from 903 x 833 x 1890 mm (2533 mm with optional lifting device)
- Mobile and compact design on wheels with 360-degree access to system components
- Precise temperature control from cultivation to sterilization; closed-loop temperature control via heat exchanger available as option for more sustainable operation

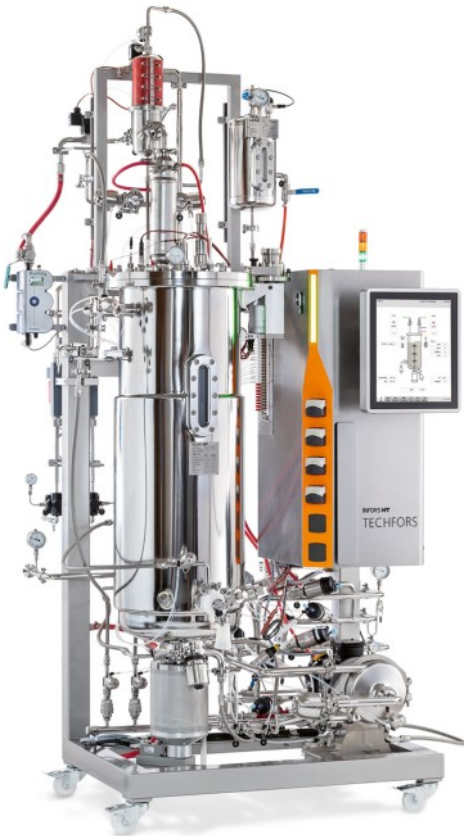


Learn more at
infors-ht.com/techfors-s2

Techfors 4

A customizable stainless-steel bioreactor with a compact design

Bring flexibility and automation to your process development with a Techfors 4 pilot bioreactor, custom-configured specifically to your individual application needs and backed by our team of technical engineering and service experts.



Flexibility and customization

Your bioprocess applications can be demanding. Custom-configure your own Techfors 4 pilot bioreactor to meet your specific needs, bringing true flexibility to your laboratories, pilot plants, or production suites.



Detailed custom engineering and project planning

Our technology team will partner with you to build your ideal bioreactor, sharing their expertise and accompanying you from planning to installation and continued maintenance support.



Evolve your bioreactor as your processes change

Even after installation, your Techfors 4 bioreactor design can be expanded with additional options, sensors, and analytical devices. For validated installations, you also receive additional documentation, upon request.

Product specifications

- Custom designed vessel sizes up to 1,000 L with a working volume up to 660 L
- Capable of scaling from INFORS HT bench-top bioreactor systems to the Techfors bioreactor
- Qualification and validation available upon request



Learn more at
infors-ht.com/techfors4

Proven bioreactor platforms for established workflows

Still supported.

Still available.

These proven bench-top bioreactors remain available while inventory lasts for laboratories requiring compatibility with existing installations, validated workflows, or specialized applications.

Why researchers continue to choose these platforms

- Proven performance across research and process development
- Compatible with eve® software for monitoring, control, and data management
- Supported by INFORS HT service teams

These products remain available while inventory lasts. Contact your local INFORS HT representative for current availability.

Multifors 2

Parallel process development in a compact footprint



Designed for efficient process characterization with parallel operation, scalable sensor technology, and a small laboratory footprint.

- Operate up to six vessels from a single touchscreen
- Parallel process development with scalable sensor technology
- Compact design with integrated pumps and gas control

Key specifications

- Vessel sizes (and working volumes): 400 mL (115 - 250 mL), 750 mL (180 - 500 mL), and 1400 mL (320 - 1000 mL)
- Footprint: 45 × 38 cm (18 × 15 in)
- Up to 4 MFCs per vessel for air, O₂, N₂ and CO₂



Learn more at
infors-ht.com/multifors2

Labfors 5

Flexible bench-top bioreactor for process development



Configure your system to support microbial process development with flexible vessel options, gassing strategies, and process control.

- Configurable hardware for diverse applications
- Compact design for easy operation and autoclaving
- Operate up to six systems from one touchscreen

Key specifications

- Vessel sizes (working volumes): 2 L (0.5-1.2 L), 3.6 L (0.5-2.3 L), 7.5 L (1-5L), and 13 L (2.2-10 L)
- Direct drive up to 1500 min⁻¹ (high-torque option)
- Multiple stirrer, sparger, and accessory options



Learn more at
infors-ht.com/labfors5

Labfors 5 for solid substrates

Designed for solid-state and enzymatic processes



Optimized for simultaneous saccharification and fermentation (SSF) and other solid substrate applications requiring specialized mixing and temperature control.

- Dual temperature control for stable process conditions
- Specialized stirring for high-solid substrates
- Large headplate opening for solids feeding

Key specifications

- Vessel size (and working volume): 3.6 L (1-2.5 L)
- Direct drive up to 1000 min⁻¹ (high-torque option)
- Parallel operation up to six systems



Learn more at
infors-ht.com/labfors5-solids

eve[®] bioprocess software

Unify process control and data management
in a single bioprocess software platform

eve[®] can do more than just plan, control, monitor and analyze your bioprocesses. eve[®] integrates your equipment and process data into a single platform, accessible through any major web browser.



Integrate your bioprocessing equipment data

Connect your bioreactors, shakers, and analytical instruments from any manufacturer, and bring in your experimental planning, from batch and phase detail up through experiments and projects, so everything from setup to results analysis lives in one place.



Access your data from anywhere

eve[®] bioprocess platform software is installed in your private cloud and is web-browser based, so you can plan, control, monitor and analyze your data from anywhere on your network.



Powerful batch planning, control, and reporting

Intuitively create and automate complex batch strategies across multiple phases, use predefined functions to control batch parameters, and generate comprehensive batch reports with full audit trail documentation.



eve[®] software packages

eve[®] basic: Monitor basic bioprocesses

Take the first steps to digitize your bioprocess. The comprehensive functions for planning, monitoring and documenting batches are ideally suited for simple applications in the bioreactor.

eve[®] standard: Control and automate bioprocesses

Further automate your process through digitalization to help eliminate the potential for human error by implementing recipes, batch strategies, and soft sensors.

eve[®] premium: Version supporting validation

Suitable for validated environments according to FDA CFR 21 Part 11. In addition to the comprehensive options, users receive added safety features and validation documents.



Learn more at
infors-ht.com/eve

Bioreactor services

Maintain optimal performance and longevity

We pride ourselves on building bioreactors that stand the test of time. However, consistent and proactive maintenance is key to ensuring your machine operates at its best. Regular upkeep not only extends the lifespan of your bioreactor but also guarantees peak performance in every process.



Service offerings

- Custom engineering and project management
- Installation and relocation preparation
- Emergency repairs
- Preventive and corrective maintenance
- Installation and operational qualifications (IQ/OQ)
- Factory acceptance testing (FAT) and site acceptance testing (SAT)



Prevention of operational downtime

We understand the cost of unplanned downtime of bioreactor equipment. Our commitment to reliability and easy maintenance minimizes downtime, ensuring smooth operations. Robust and dependable bioreactor systems, combined with our comprehensive support, keep your processes on track.



Extended equipment lifespan

Regular maintenance and servicing can significantly extend the lifespan of a bioreactor. This not only saves costs in the long term by delaying the need for new equipment purchases but also ensures more reliable and consistent operation over time.



Enhanced safety and compliance

Bioreactors are complex systems that must adhere to strict safety and regulatory standards. Professional service helps maintain compliance with these mandatory standards, assuring consistency in product quality and safety of laboratory personnel.



Learn more at
infors-ht.com/bioreactor-services

Notes:

YOUR DISTRIBUTOR



Learn more at
infors-ht.com/bioreactors