

Biostat STR® Generation 3 and Biobrain® Automation Platform

Process Development

Simplifying Progress

SARTURIUS

Engineered for Seamless Scalability

The Biostat STR® Generation 3 single-use bioreactor system with a working volume of 12.5L to 2,000L is designed for rapid process development and seamless scaling to commercial manufacturing. It is powered by Biobrain®, the new automation platform, a datadriven software, and a comprehensive suite of analytical tools.

Meet critical project timelines by quickly building a scalable process around your molecule.

- Increased productivity and ease of use
- Enhanced safety and optimized space
- Flexible configurations and simplified maintainance
- ✓ Increased speed to clinic

Realize Rapid Development and Seamless Scalability

The Biostat STR® system has a fully configurable control tower with an advanced user interface and improved connectivity. One control tower can be used interchangeably with any bag holder size. The organizational racks for pumps and balances together with cable and tubing organizers plus a document tray makes bioreactor operation more streamlined.

The Flexsafe STR® bags are designed with multiple sparger and impeller options on a magnetically coupled center-line shaft that delivers homogenous mixtures quickly, even at high volumes and low mixing speeds. Biostat STR® supports connection to Repligen's XCell™ ATF cell retention devices to increase the cell density and productivity and enables process intensification.

Biostat STR® system and Biobrain® automation platform provides you the flexibility and power to quickly and easily make configuration upgrades, allowing you to adapt on-demand.

- Choose your ideal configuration of pumps, balances, sensors, and other equipment
- Add functionalities as needed with a simple software update
- Enrich your process understanding and control by installing BioPAT® MFCS, a specialized SCADA software that captures, stores, and visualizes process data and offers recipe execution

The geometric similarity of Sartorius' stirred tank bioreactor portfolio allows seamless scalability and rapid acceleration of your development process. The Sartorius scaling tool accurately predicts conditions required to scale your process by considering scales, process parameters, and process constraints to identify the exact requirements to achieve your goals. Our technical support team can assist you with standard operating procedure (SOP) conversion from your existing scale or technology.

The result is:

- Fewer engineering runs to optimize your scale-up process
- Rapid advancement to clinical trials and commercialization
- Lower material costs

Maximize Quality, Consistency, and Productivity

Gain an in-depth understanding and precise control of your process. The sensors, software, and advanced analytics in the BioPAT® toolbox help ensure the purity, quality, safety, and batch-to-batch consistency of your product.



BioPAT® ViaMass In-line monitoring of viable biomass and automated cell bleed control



BioPAT® Trace
On-line monitoring of
glucose and lactate and
automated feed control



BioPAT® Foam

Monitoring of foam level
with alarming and interlock
functionalities



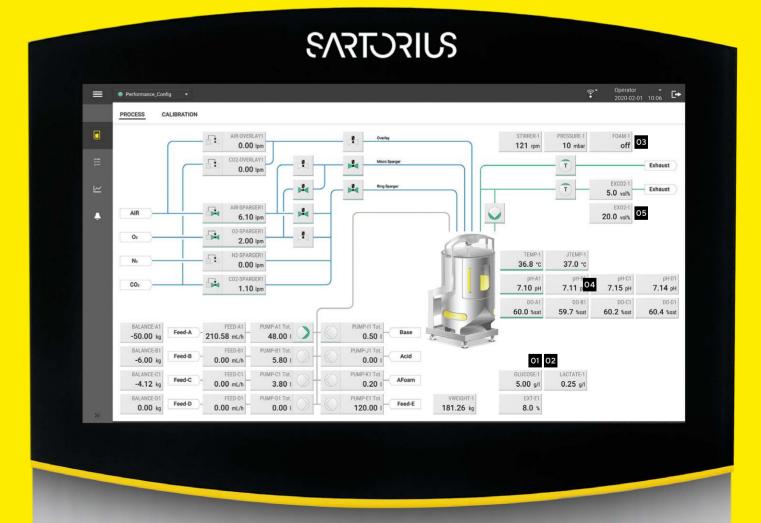
Electrochemical single-use pH sensors



BioPAT® Xgas
Oxygen-carbon dioxide
sensor featuring automatic
compensation of humidity
and pressure



BioPAT® Spectro
Unlock the full potential
of Raman spectroscopy



⊕ Find out more

For more information, please visit www.sartorius.com/biostat-str

Biostat STR® Generation 3 Configurations

Our process development solutions have been predesigned into three configurations with flexible options and easy upgrades. Select the configuration that best fits your current needs and you can conveniently adapt for any future requirements.

Essential	Performance	Performance Plus
	•	•
Optional	Optional	•
	Optional	Optional
•		•
2	4	4
	•	•
6	6	6
	•	•
Optional	Optional	•
	2 6	Optional Optional Optional Optional Optional Optional Optional 2 4 6 6

Sales and Service Contacts

For further contacts, visit www.sartorius.com

Germany

Sartorius Stedim Biotech GmbH August-Spindler-Strasse 11 37079 Goettingen Phone +49 551 308 0

China

Sartorius Stedim Biotech (Beijing) Co., Ltd. No. 33 Yu'An Road Konggang Industrial Zone B Shunyi District Beijing 101300 Phone +86 10 8042 6300

USA

Sartorius Corporation 565 Johnson Ave. Bohemia, NY 11716 Phone +1 631 254 4249

Singapore

Sartorius Stedim Singapore Pte. Ltd. 10 Science Park Rd The Alpha #02-13/14 Singapore Science Park II Singapore 117684 Phone +65 6872 3966

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