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Bagento

One system. Many applications.



BIOENGINEERING

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BIOENGINEERING

Bagento creates the environment in which cell cultures can reach their full potential.



Bagento single-use bioreactor with control unit.

Technology that simplifies your processes

The Bagento is a modular single-use bioreactor that combines decades of experience in reactor design with state-of-the-art single-use technology. As a comprehensive one-stop solution, the system supports a wide variety of culture modes such as batch, fed-batch, and perfusion, and enables seamless scaling from 50 to 2000 liters. The multi-layer film material of the bags is manufactured in compliance with GMP and specifically designed for demanding biotechnological applications.

Integrated mechanical stirring elements ensure excellent mixing and optimal mass transfer. By eliminating time-consuming cleaning and validation steps, the Bagento minimizes setup times and eliminates the risk of cross-contamination. It provides a reliable solution for both antibodies and vaccines, guaranteeing the highest standards of product quality.

- No cleaning or sterilization validation
- Scalable platform from 50 to 2000 L
- Multi-product operation on the same production line
- Faster time to market
- Flexible system configuration for individual processes

Specifications: Culture bag, basic model (max. working volume)	50 L	200 L	500 L	1000 L	2000 L
Stirring speed (rpm)	0 – 360	0 – 360	0 – 250	0 – 140	0 – 115
Disposable electrodes	•	•	•	•	•
Perfusion culture mode	•	•	•	•	•

These highly stable, gamma-sterilized, and tested-to-all-standard-specifications single-use culture bags are suitable for the cultivation of many cell lines for protein expression, immunotherapy, or vaccine production.

They are easy to handle, suitable for batch, fed-batch, and perfusion processes, and reliably enable high cell densities.



BioScada II – Intuitive SCADA for controlling bioprocesses

BioScada II visualizes and analyzes your bioprocess in real time. Freely configurable widgets display critical process parameters, trends and system states exactly where they are needed. Integrated analysis tools enable fast comparison of batches and support data-driven process optimization.



- Freely configurable widgets for process visualization
- Integrated analyzer with batch-to-batch trend comparison
- Setpoint Selector for intuitive cascade control configuration
- Flexible setpoint profiles (e.g. exponential feed strategies)
- Integrated sequencer for custom process workflows
- Remote Service Provider for secure system monitoring and support

Technical Specifications

- Working volumes: 50 L, 200 L, 500 L, 1000 L, and 2000 L
- Minimum volumes: 10 L, 40 L, 100 L, 200 L, 400 L
- Height-to-diameter ratio: 1.5 : 1 for all sizes
- Frame / tank made of 304 stainless steel
- Heating jacket assembly for temperature control of the system
- Temperature control: Heating / cooling capacity 3/1 kW (50 L), 9/1.5 kW (200 L and above)
- Gas supply: Four mass flow controllers (MFCs) integrated as standard
- Agitators: Three-blade impellers for 50 L, 200 L, 500 L, 1000 L SUB; four-blade impellers for 2000 L SUB
- Pumps: Four integrated pumps; additional external pumps available as an option
- Weight measurement: Three load cell modules integrated for weight measurement
- Pre-sterilized disposable bags with multi-layer film structure LDPE / EVOH / ULDPE (product-contact layer)
- Vacuum-packed delivery, manufactured under Class C/A conditions
- Custom configuration and geometry available

Regulatory Compliance

BioScada II supports operation in regulated bioprocess environments and enables compliant data handling and documentation.

- GAMP 5 compliant development
- 21 CFR Part 11 compliant electronic records and audit trails
- Role-based user management
- Audit trail and event logging
- Electronic signature support