



ROTOR FILTRATION SYSTEM

The rotor filter is a cutting-edge solution designed to prevent membrane fouling in filtration systems. Using Taylor vortices for turbulence and centrifugal forces, it efficiently filters solids without settling. Widely used in animal cell cultivation, this filter supports various production processes with different design variations.

Application Areas

- Process development and optimization
- Basic Research
- Animal Cell Cultivation
- Cell Culture Filtration
- Small production



General Features

Design: Cylindrical stainless-steel sieve with mesh sizes ranging from 2 to 60 μm.

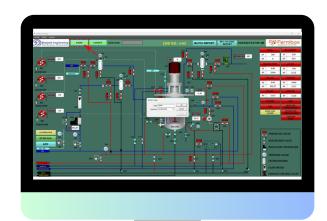
Effective Filtration: Retains up to 90% of cells (5 to 10 μm in diameter) using a 20 μm mesh at 1000 rpm (cylinder diameter: 100 mm).

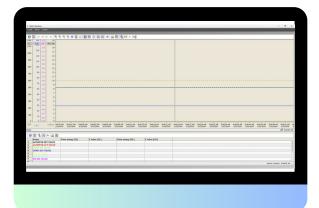
Flow Rate Stability: Maintains stable permeate flow rates of 40 to 150 L·m²·h-¹ over several weeks.

Cell Density: Supports animal cell culture densities of up to 10⁷ cells per millilitre.

Working Volume Exchange: Achieves high cell densities by exchanging the working volume 1 to 2 times per day (D = 0.041 to 0.083 h⁻¹).

Sieve Area Efficiency: Reasonable sieve areas per reactor volume, ranging from 0.3 to 2 m²·m⁻³.





Biojenik Engineering SCADA Software

Biojenik Engineering's SCADA software is designed for real-time monitoring and control, offering a range of features to improve efficiency and ensure compliance.

- Software: Siemens WinCC.
- Simulation and Auto-Tuning: Generates random process values for simulation and auto-tuning.
- Third-Party Integration: Free OPC server for third-party device integration.
- Remote Operation: Webex-based remote operation/control of setpoints.
- Customized Interface: Personalize display to show Process, Profiles, Set Points, and Cascade.
- Batch Management: Manage batches and track them using tags.
- Access Control: Different access levels for enhanced security.
- **Dosage Tracking:** Monitor and record material consumption during production.
- Real-Time Data Recording: Automatic recording and trending of setpoints and measurement values.
- Data Export: Export data to Excel for analysis and reporting.
- Data Comparison: Compare and analyze data for improved decision-making.
- Event Alarms & History: Alerts for issues, historical data access, and ANSI-18.2 compliant alarm management.
- Audit Trail: Record-keeping compliant with 21 CFR Part 11 standards.
- **Lifetime Support:** One-time license with lifelong updates and support.

Benefits:

- Simplifies process monitoring and control.
- Increases efficiency by automating tasks and tracking.
- Ensures compliance with regulatory standards.
- Provides actionable insights with data comparison and analysis.

Technical Specification

S.No	Specifications	Details
1	Mesh Size	• 2 to 60 μm
2	Rotation Speed	• 1000 rpm
3	Cylinder Diameter	• 100 mm
4	Cell Retention Efficiency	• Up to 90% (for 5 to 10 μm cells)
5	Permeate Flow Rate	• 40 to 150 L·m²·h-1
6	Max Cell Density Supported	• Up to 10 ⁷ cells/mL
7	Sieve Area Efficiency	• 0.3 to 2 m ² ·m ⁻³

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Biojenik Engineering Services

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