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Taberis Parasmart

The fastest way to reliable data.



BIOENGINEERING

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BIOENGINEERING

Parallelism is not just a method. It is the key to efficiency in research an development.



Taberis Parasmart with screen to display all operating parameters.

Parallel bioreactor for fast and reliable process screening

The Taberis Parasmart is a high-performance parallel bioreactor designed for high-throughput applications, enabling multiple independent processes to run simultaneously. This parallel operation allows for particularly rapid screening of different experimental conditions and supports efficient process optimization in research and development.

As a system for chemical and biological applications, the Taberis Parasmart offers a wide range of uses – from pharmaceutical synthesis and materials research to biological fermentation. Thanks to its high level of automation, precise data acquisition, and the ability to allocate resources strategically, the Taberis Parasmart ensures reliable results, increased productivity, and a significant increase in experimental efficiency.

- Greatly improved experimental efficiency
- Excellent parallelism and repeatability
- Reduced reagent consumption and cost
- Facilitates rapid condition screening and process optimization
- High automation and reliable data



One software platform can control up to 8 bioreactors simultaneously.

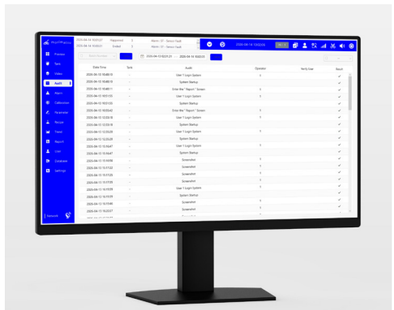
Complexity that feels simple

The software enables intuitive and unified control of multiple systems and supports real-time monitoring of all relevant process parameters.

A central control unit with a large screen clearly displays all operating data, while a small integrated control screen allows for easy adjustment of key parameters.

Precise cascade control and automated recipe execution ensure high reproducibility and efficient process development.





Technical Specifications

- Working volume: 250 mL / 500 mL / 1000 mL
- Drive: High-precision servo motor for precise agitation
- Up to 3 individual gas supply lines with mass flow controllers
- Peristaltic pumps: Up to 4 pumps integrated into the control unit
- Temperature control: Peltier-based system for rapid and accurate heating and cooling
- High-resolution camera for real-time monitoring of internal vessel conditions
- Main unit with large screen for displaying all operating parameters
- Integrated small control screen for adjusting key parameters
- Modular design for flexible configuration and easy scale-up
- Compact design to minimize laboratory space requirements

