

AUXO[®] V2 Bioreactor System

Benchtop bioreactor (working volume 0.5L / 1.5L) with unparalleled usability for cutting-edge scientific discovery.



KEY FEATURES

- ✓ Customization “fit-for-purpose” based on application (cell culture, microbial, plant-based,..)
- ✓ High quality components (PLC by Siemens, sensors by Hamilton, pumps by Watson Marlow)
- ✓ Next-gen bioreactor software with pre-configured cultivation programs
- ✓ 3 different interfaces to ensure usability for various user groups
- ✓ Remote monitoring

APPLICATIONS

- Cellular agriculture
- New ingredients
- Supplements/Nutraceuticals
- Research & Academia

The AUXO[®] V2 is a state-of-the-art 2L benchtop bioreactor, engineered for precision, flexibility, and efficiency in bioprocessing innovation.

Its centralized control tower, powered by an industrial-grade Siemens PLC, seamlessly operates two vessels simultaneously, enabling optimized workflows. Designed for scalability, it integrates with existing procedures, offering real-time analytics, customizable workflows, and robust data management for biomanufacturing success. Users can select pre-programmed recipes and choose between direct or remote control for streamlined bioprocess management.

Equipped with autoclavable vessels, versatile impeller options, and multi-use capabilities, the AUXO[®] V2 ensures cost efficiency, adaptability, and innovation, making it the ideal platform for cutting-edge biotech research.

Visit www.thecultivatedb.com to know more.



Vessel

Vessel type	Multi-use, stirred tank, dished bottom, unjacketed
Working volume	0.5L / 1.5L
Materials	Borosilicate glass
Dimensions	12x12x40cm
Weight	14.5 kg
Sterilization	Autoclavable
Impellers	Choice of optimized impeller blades including Rushton, marine, pitched-blade, etc.
Agitation motor	Direct overhead. 0-2000 rpm. Low energy consumption (400W)
Head plate	3-way addition, 3x12mm port (septum included), harvest and sample. Customization available

Sensors

DO/O2	Hamilton digital sensor. 7 - 100% (0.1% resolution)
pH	Hamilton digital sensor. 0 - 14 (0.1 resolution)
Temperature	Pt 100 sensor. 0 - 100°C (0.1°C resolution)
Optional	More sensors available upon request

Control unit

Controller	Industrial Programmable Logic Controller (PLC) from Siemens
Vessel connection	Up to 2 vessels
Display/operation	10" Touch screen from Siemens
Electronics	21CFR standards
Interfaces	USB 2.0, Industrial Ethernet and MODBUS
Pumps	Up to 8 Watson Marlow peristaltic pumps 114ST, 0-600RPM). Connection for external pumps
Gas valves	4 for compressed air, oxygen, CO2 and N2
Dimensions	85x44x48 cm
Weight	75 kg

Software

User management	Level-stratified user management with access control
Recipes	Both pre-configured and custom
Export formats	.csv and .xls
Remote monitoring	Web based compatible
Recording	Up to 30 days

Distributore per l'Italia:



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