CELLVIVO Incubator

THE FUTURE OF CONTROLLED CELL CULTURE.

BiOxia

Precise Oxygen Control

Accurate and stable hypoxia environment

Reliable Performance

Consistent results for advanced research

Advanced Touch Interface

Intuitive control with real-time monitoring

Designed for Research

Ideal for cell culture, cancer, stem cells & regenerative studies

Built with Precision

Engineered for efficiency & safety

BiOxia®

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CELLVIVO
INCUBATOR

CELLVIVO incubator develops advanced cell culture solutions that provide precise oxygen control for biological research. By recreating physiologically relevant oxygen conditions, HYPOXYBIO systems enable researchers to study cells in environments that more closely resemble those found in living tissues. This supports more reliable and reproducible research in fields such as cancer biology, stem cell research, immunology, regenerative medicine, and drug discovery.

Why Controlled Hypoxia Matters

Most tissues in the human body exist at oxygen levels significantly lower than atmospheric oxygen (~21%). Traditional cell culture often exposes cells to non-physiological oxygen concentrations, which can alter cellular behavior and experimental outcomes.

Controlled hypoxia allows researchers to:

- **Replicate in vivo physiological conditions.**
- **Investigate cellular responses** to oxygen fluctuations.
- **Improve the relevance of disease models.**
- **Enhance the predictive value of preclinical studies.**
- **Achieve more consistent and reproducible experimental results.**

Precise Oxygen Control
Accurate and stable oxygen regulation for reliable results.

Uniform Environment
Consistent temperature, humidity, and gas distribution.

Reliable Performance
Built for continuous research and long-term dependability.

Benefits Compared with Conventional Incubators

Conventional Incubators	VS	CELLVIVO Incubator Controlled Hypoxia Incubator
Typically operate at atmospheric oxygen		**Precise control of oxygen concentration**
Oxygen levels change during door opening		**Stable oxygen environment with rapid recovery**
Limited simulation of physiological conditions		**Mimics tissue-specific oxygen levels**
Less suitable for hypoxia-sensitive research		**Optimized for hypoxia and oxygen-sensitive experiments**
Potential variability in experimental outcomes		**Improved reproducibility and biological relevance**

Small Size
Compact design ideal for limited laboratory space.

Improve Experiment Consistency
Maintains stable conditions to ensure reliable and repeatable outcomes.

Adapt Environment Quickly
Fast atmosphere adjustment compared to traditional incubators.

Support Diverse Applications
Ideal for cancer research, stem cell studies, IVF, organoids, and more.

Create Hypoxic Cycle
Programmable hypoxic cycles to meet diverse research needs.

Precise Oxygen Control
Accurate oxygen control from 0.1% to 20% for reliable and reproducible results.

User Friendly
Intuitive touchscreen interface for easy operation and control.

Uniform Environmental Condition
Ensures consistent temperature, humidity, and gas distribution throughout the chamber.

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Technical Specification For CELLVIVO Incubator

SPECIFICATION	DETAILS
Volume Ltr	150 Ltr
Outer Dimension (W×D×H)	690 × 740 × 950 (mm)
Inner Dimension (W×D×H)	500 × 500 × 600 (mm)
Gas Supplies	CO2, N2, O2
Internal Hepa conditions	0.2µm disc filter
O2% monitoring	YES
O2 sensor	YES
O2 sensor calibration	One touch calibration with maintaining chamber condition
Temperature Control	5°C above ambient to 50°C in 0.1°C increment
Humidity Display	Yes
O2 control	Yes
CO2 Control	Yes
Light	Yes
Event Log	Yes
Hypoxic cycle	Continuous cycling of CO2, O2 ,pressure & temp for up to 4 set points
O2 range	0.1-25.0% Accuracy ±0.1%, 0.1% increment
CO2 range	0.0-20.0% Accuracy ±0.1%, 0.1% increment
Temperature Range	Ambient+5°C to 50°C Accuracy ±0.10C, 0.10C increment
Humidity Control	Yes
Remote monitoring and control	Optional
Colour Display	Yes
Energy saving mode	Yes
Multiple Password protected	Yes
App Support	Remote Access, Control & warning from machine, real time parameter status, Data Storage Library
Library	For storing set parameters for various culture & experiments

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Technical Specification For CELLVIVO Incubator

SPECIFICATION	DETAILS
Server Support	Yes
Multiple Profiles	Yes
Data log + USB	one data set per minute, each set comprises: time, date, O2 (set/actual), CO2 (set/actual) humidity, temperature for 1 year
Detox	Mild Soap + Water
Stand	Static stand, and other options available
Alarm Setting	Yes
Gas Sample Port	Yes
Vacuum Line Port	Yes
Multi-Cable Gland (up to 6 individual cables)	Yes
MOC	the inner chamber is made up of stainless steel and outer chamber with MS with powder coating
Power supply	230 VAC, 50 Hz, Single Phase
Interior Material	Stainless
Number of Shelves	3

CELLVIVO INCUBATOR

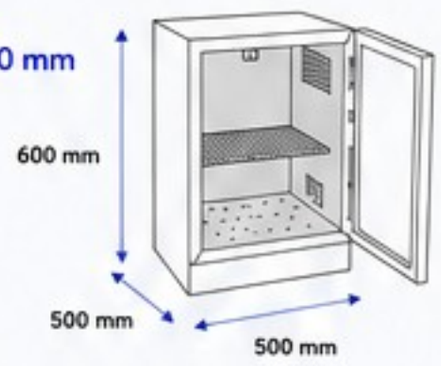
DIMENSIONS

OUTER DIMENSIONS (W × D × H)

690 × 740 × 950 mm

INNER DIMENSIONS (W × D × H)

500 × 500 × 600 mm



All dimensions are in mm

COLOUR TOUCH DISPLAY

- Real-time monitoring of O_2, CO_2, Temperature & Humidity
- User-friendly interface with touch control
- Alarm & event notifications
- Data logging & USB export

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