



37  degrees

Next-generation culture systems



CultureON 100

The world's first Portable CO₂ incubator for live cell transport

Lightweight and Portable

Weighs under 5lbs with >8 hours of battery power for easy transport

Stable Environment Control

Maintains temperature, CO₂, and humidity



Contamination-Resistant Chamber

A sealed, easy-clean interior reduces exposure during handoffs

Long-Life CO₂ Cartridge Integrated

cartridge offers >30 days of CO₂ control without external lines or tanks

Remote monitoring

Bluetooth, wi-fi enabled for real-time tracking

CultureON 100

A controlled incubator environment, wherever your cells need to go

Cell cultures rarely fail inside an incubator. They fail when plates leave that controlled space and conditions shift, CO₂ drops, or contamination compromises the sample. Shared incubators add more variability and make it hard to isolate sensitive work or keep cultures where you need them.

The CultureON 100 keeps conditions stable on the bench or in transit. It provides a personal, protected incubator that maintains temperature, CO₂, and humidity so cultures stay in a consistent microenvironment with fewer disruptions and less variability.

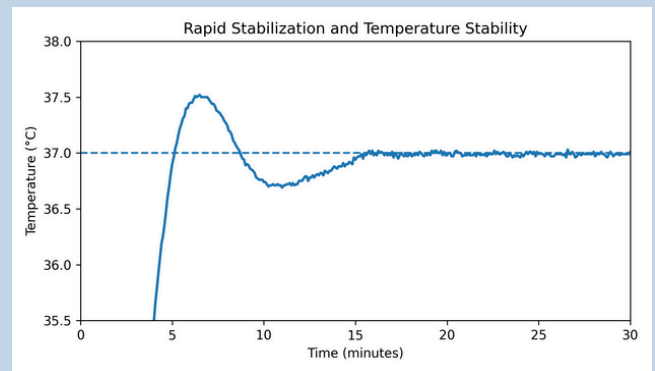
Recommended Applications:

- Stable, controlled conditions during sample transport
- Personal CO₂ incubation for precious samples or limited bench space
- Protected handoff when workflows or timing are uncertain
- Controlled CO₂ for off-site or field-based work
- Protecting high-value samples from contamination

Proven control of cell culture conditions

CultureON 100 is engineered to maintain stable temperature and CO₂ levels while delivering reliable battery-powered operation. These performance metrics demonstrate how the system holds critical environmental parameters over time, supporting consistent results for both short workflows and extended cultures.

Temperature Stability: CultureON rapidly reaches physiological temperature and maintains a stable 37°C with minimal fluctuation over time. Precise thermal control helps protect cell viability during both short workflows and extended transport.

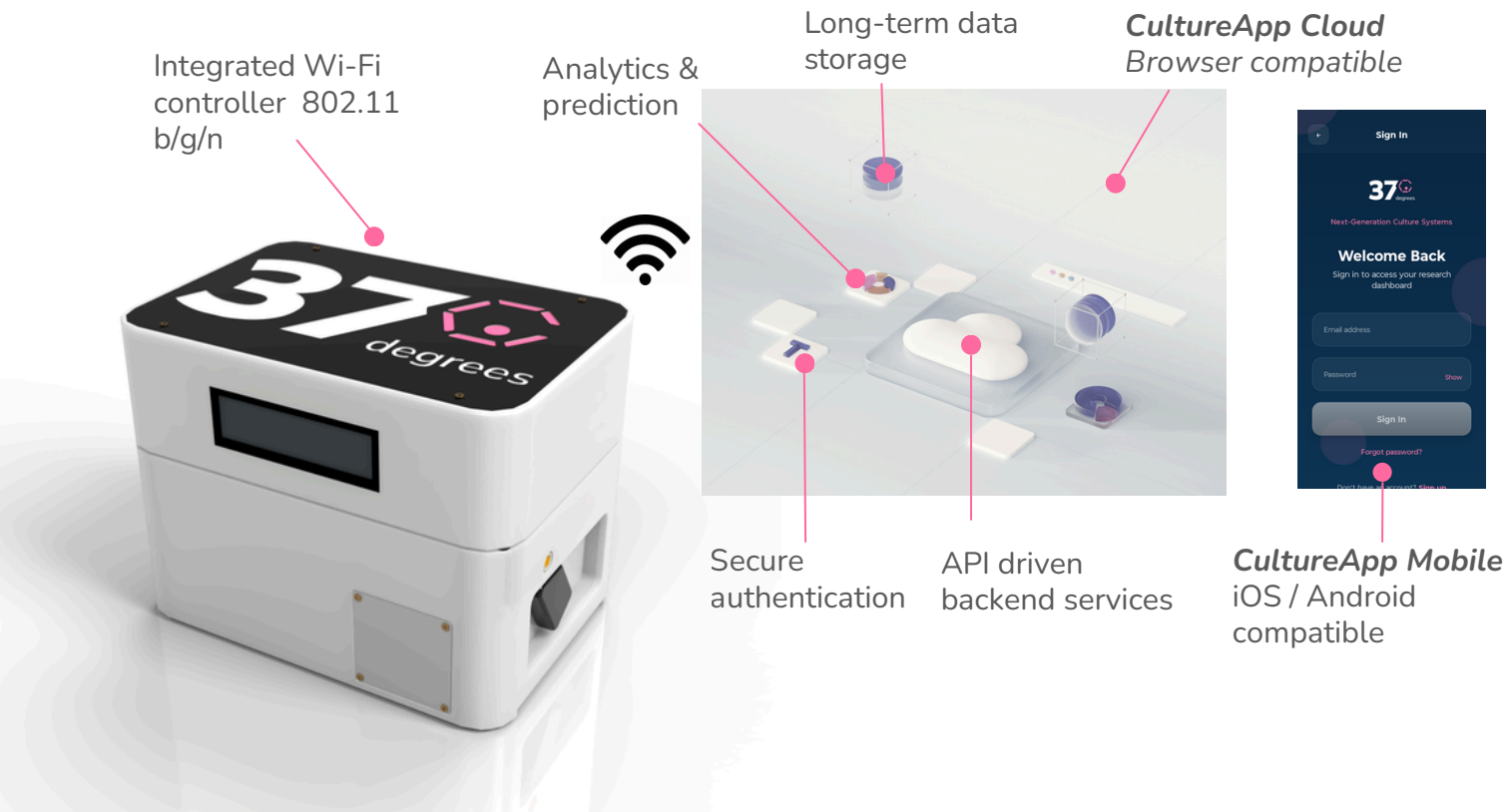


Battery Performance: Engineered for transport, CultureON delivers consistent battery-powered operation while maintaining temperature and CO₂ control throughout use.



Co₂ Stability: Establishes and maintains the CO₂ environment needed to support proper media buffering and pH balance during transport.





Wireless Monitoring

Connected control for real-time visibility

CultureON 100 comes Bluetooth enabled so you can check temperature, CO₂, and humidity without opening the unit or interrupting an experiment. It gives you a clear view of how conditions are holding during active work.

Wi-Fi adds long-range oversight and alerts, letting you track stability, review data, and confirm performance over time. For long-term cultures or critical samples, you know in real time whether conditions stayed within range.



Remote real-time data visualization and device control

Technical specifications

Battery	Lithium Ion Rechargeable, >8 hrs transport time (on full charge)
DC power	12V, 5A (wall adapter)
UPS functionality	Yes, automatic switching between Battery and DC power
Display	OLED, serial peripheral interface (fast refresh)
Environment sensing / performance	Temperature (4x), Relative Humidity (1x), CO ₂ concentration (1x) <ul style="list-style-type: none">• Temperature accuracy +/- 0.25 C• RH accuracy +/- 4%• CO₂ accuracy +/- 0.3%
Real-time operation sensing	Continuous monitoring: <ul style="list-style-type: none">• Gas cartridge presence• Chamber open/close• Gas pressure levels• Battery levels
Actuation	Heating (2x), Gas injection (1x), Air pump (1x). <ul style="list-style-type: none">• Heating capacity 24 W• Gas injection <100 ms reaction time• Air Pump Low power / low noise
Communications	Integrated Bluetooth Low Energy, WiFi (802.11 b/g/n)
Embedded Processor	SoC embedded, dual-core 240 MHz
Onboard data storage	>3 days continuous recording (before overwrite)
Weight	5 lbs
Width	8.5 in
Depth	6 in
Height	7 in
Cartridge capacity	40 oz
Cartridge life	>30 days (5% CO ₂ control)
Ambient temperature	Supports 4 C to 40 C. Ambient must be >5 C below set-point. Note: Ambient temperature must be less than set point temperature by >5 degrees C
Ambient RH	20–90% RH (non-condensing)
Chamber environment control	<ul style="list-style-type: none">• Temperature set-point 4 degrees C to 45 degrees C• CO₂ set-point ~0 (atmospheric concentration) to 10%
Device modes	Isolated, Local (BLE), Cloud (WiFi)
Application compatibility	CultureApp Mobile, CultureApp Cloud, CultureApp Desktop
Real-time data visualization	Yes