BAKER

Environments For Science™

ReCO$_2$ver™

Rapid Recovery Incubator

ABSOLUTE PRECISION.
MAXIMUM PROTECTION.

PRECISION

CONTROL OVER TEMPERATURE, CARBON DIOXIDE & RELATIVE HUMIDITY

FAST

RECOVERY OF CELL CULTURE CONDITIONS

MAXIMUM

PROTECTION FOR CELLS

BETTER THAN

ISO CLASS 4 (CLASS 10) AIR CLEANLINESS

In all scientific research applications, each cell type will benefit from keeping proper physiological cell growth conditions.

Cell culture incubators attempt to mimic physiological conditions, but atmospheric conditions within the laboratory and the environmental parameters incubators attempt to control vary widely, and are lost with each door opening taking a long time get back to your ideal parameters. This will impact the integrity of your work.

There are several factors an incubator should control in order to help you achieve optimal cell growth conditions. Precision in temperature, gas and humidity as well as the rapid recovery of those conditions after door openings are crucial for ensuring cells are exposed to a constant environment required for their well-being. These parameters can change very quickly once a door is opened, and it can take a long time for *in vivo*-like conditions to be achieved again.

Key Benefits

- The vertical, uni-directional downward airflow with full-face HEPA filter delivers better-than-ISO Class 4 (Class 10) clean air to the chamber to provide unparalleled protection of your work.
- Proprietary InteliCELL™ P.I.D. control algorithm offers true active humidity control - giving users complete freedom to precisely define three variables critical to cell growth: temperature, CO_2 and relative humidity.
- Superior stability, unformity and recovery times - mean that even with a full load, cell cultures grow consistently from shelf to shelf, for dependably high-quality, robust cells on every plate.
- Outstanding condensation control virtually eliminates wet spots where contaminants can grow and spread, even at humidity levels above 90%.
- Fogless interior door with heated frame provides a crystal clear view to every shelf, reducing the need for door openings.
- Ultrasonic humidity delivery system lets you eliminate the use of a water pan, and the risk of contaminants that typically go with it.
- Intuitive color touchscreen controls give users full control over incubator functionality.
- H_2O_2 total biodecontamination (optional or on board for $ReCO_2ver$™ Plus) in addition to UV light, kills even resistant contaminating microbes in approximately four hours (vs. up to 12 hours for other decontamination methods).

Accessories

- Rolling Cart
- Stacking Kit
- CondoCell® Starter & Add-on Kits
- Additional Shelves (7 additional, 12 max)
- Two-Stage CO_2 Gas Tank Regulator (adjustable to max of 15 psi)
- Portable CO_2 Meter & Portable pH Meter
- CO_2 Analyzer Fyrite® Kit
- Refill CO_2 Analyzer Fluid Kit
- Seismic Restraints
- Preventive Maintenance Kit
- Dry In-Line Filter

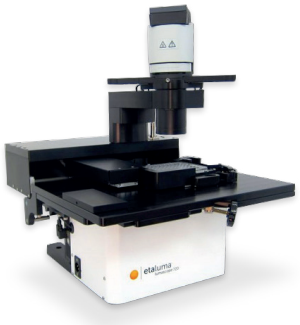
Specification

	ReCO$_2$ver™	ReCO$_2$ver™ Plus
Performance Specifications		
Model Number	**REC 602**	**REC 602 -Plus**
Humidity Delivery	Ultrasonic (Nebulizer)	
Heat Type	Direct Heat	
External Dimensions	26.9” W x 26.5” D x 40.5” H (683mm W x 673mm D x 1029mm H)	
Internal Dimensions	19.9” W x 21.9” D x 33.5” H (505mm W x 556mm D x 851mm H)	
Usable Interior Volume / Capacity	5.92 ft3 (0.168 m3) / 275 90mm plates	
Usable Shelf Area / Max Shelves	18.6” W x 20.1” D (472mm W x 511mm D) / 12 shelves (4 standard)	
Weight	250 lbs. (114 kg.) / Shipping Weight 310 lbs. (141 kg)	
Environmental Performance		
Temperature Control Range	13°F (7.0°C) above ambient - 131°F (55.0°C) (increments of 0.2°F / 0.1°C)	
Temperature Accuracy	+/-0.1°C	
Temperature Uniformity	+/- 0.25°C	
Temperature Recovery Time	Within 1°C of set point (37°C) in 6 minutes	
CO_2 Control Range	0.0% - 20.0% (increments of 0.1%)	
CO_2 Accuracy	+/-0.15%	
CO_2 Recovery Time	Within 0.2% of set point (5%) in 5 minutes	
Contamination Control		
Relative Humidity Control Range	Two operating modes: Up to 90%; 90%-95%	
Relative Humidity Accuracy	+/-3%	
Relative Humidity Recovery Time	Within 3% of set point (90%) in 4 minutes	
Contamination Prevention	Expansive HEPA filter providing better-than-ISO Class 4 (Class 10) air cleanliness	
Biodecontamination Methods	UV Light	UV Light & H_2O_2 (Standard)

	ReCO$_2$ver™		ReCO$_2$ver™ Plus	
Features	**Standard**	**Optional**	**Standard**	**Optional**
HEPA Filtration (better than ISO Class 4)	✓		✓	
Active Humidity Control	✓		✓	
Active Temperature Control	✓		✓	
Active CO_2 Control	✓		✓	
Alarm Contacts	✓		✓	
UV Light	✓		✓	
Automatic Water Refill System	✓		✓	
Direct Heat – Rapid recovery of temperature back to set point	✓		✓	
H_2O_2 Biodecontamination		✓	✓	
Copper Interior Components		✓		✓
CO_2 Supply Automatic Switchover		✓		✓
RS232/485 or 4-20mA		✓		✓

Additional equipment compatibility

CondoCell®
Portable device that allows transport from/to the incubator while maintaining the cell culture environment.



Etaluma Lumascope
Live cell imaging.

PhO$_2$x Box
Cell Culture Chamber with CO_2 and O_2 control.

Resources

Read how the air filtration system inside ReCO$_2$ver™ performs against a leading competitor.

Uniformity and Consistency – Eliminating the Edge Effect. Download the white paper.

Active humidity and condensation control, even at >90% RH. Download the white paper.

Learn about our H_2O_2 biodecontamination protocol.

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