

EC 160

CO₂ Incubator

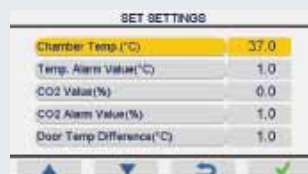
EC 160 CO₂ incubator is designed to be used in studies on cell culture such as bacteria, viruses, stem cells in the faculties of medicine, veterinary, pharmacy and science of universities, as well as in vaccine and drug production facilities.

EXCELLENT CULTURAL CONDITIONS

Reliable cell culture depends on three parameters: temperature, CO₂ density and relative humidity.

The EC 160 CO₂ Incubator offers optimal incubation conditions for researchers looking for perfect cell culture conditions.

- N-Smart™ control system with 4.3" color LCD TFT indicator to ensure the most ideal and safe incubation conditions continuously
- Homogeneous temperature distribution within the cell with comparable results
- PID control system for stable temperature and proportional control system for stable CO₂ value
- Fast recovery process after door opening and closing thanks to the RaPIDcell™ control system
- Humidity at \approx 95% provided by a large surface heated moisture tray
- Accurate and precise measurement with infrared (IR) CO₂ sensor, which is not affected by frequent door openings, temperature, and humidity
- Automatic measurement reset Auto-Zero calibration system for precise CO₂ value measurement every 12 minutes





COMPLETE PROTECTION FROM CONTAMINATION

The EC 160 is made of a one-piece chamber with rounded corners against contamination.

In case of any contamination, it is always ready for use for moist disinfection of microorganisms. In addition, smooth cell walls with no connections, parts or sensors and rounded corners can be easily sterilized with the optional UV sterilization system.

- There is no circulation fan that causes cross-contamination.
- Air jacketed heating system
- Easily removable shelf carriers and shelves.
- Seamless stainless steel chamber with rounded corners
- Shelf carriers with rounded surfaces against contamination
- NüveDis™ 90°C moist disinfection system
- Optional NüveRay™ UV light sterilization kit
- 0,22 µm sterile filtration of CO₂, sampled gases and Auto-Zero reference air
- Built-in 2nd stage gas regulator

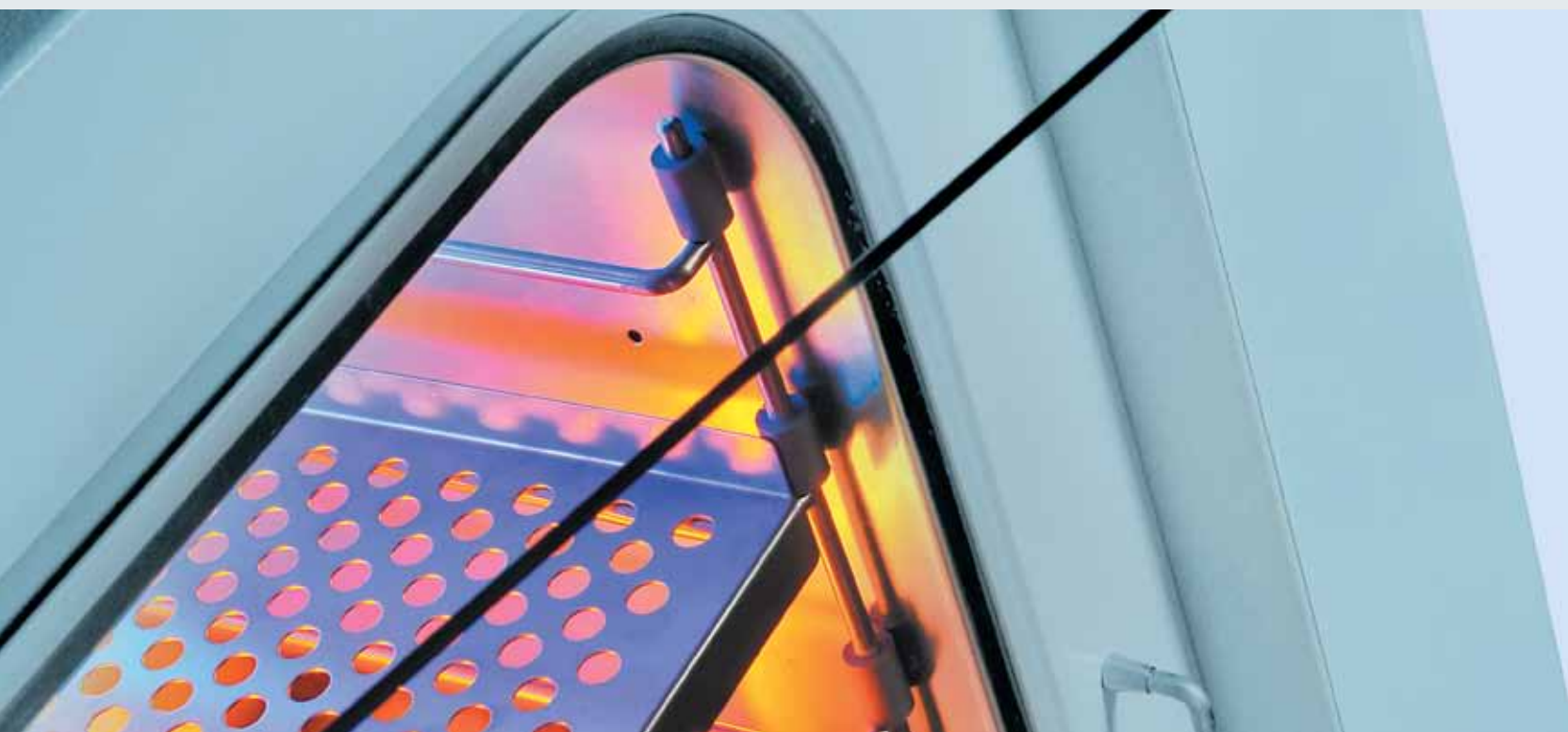


IDEAL WORKING CONDITIONS

Time is invaluable to researchers and should not be wasted on unnecessary operations.

On EC 160, the user interface simplifies operations, giving users all the necessary information.

- Easy monitoring of operating parameters with high resolution 4.3" color LCD TFT display
- Easy operation with four function keys
- Operation secured by a 4-digit password-protected menu
- Continuous display of set and actual values
- Icons that make operations easier
- Shelf design that simplifies sample placement and reception
- 0,22 µm filter that does not take up space inside the cell
- No sensor to be removed during the disinfection phase
- Large surface tray for easy cleaning
- Shelf dimensions are designed to place maximum samples
- Easy removable shelf and carriers for sterilization
- Guide the user with clear messages
- Reminder for calibration and service
- Built-in temperature sensor that measures the standard ambient temperature
- Optional cable input port
- Programmable timer for sterilization with optional nUVeRay™ UV

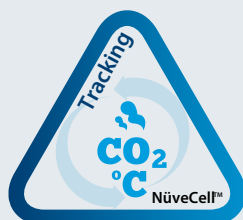


IMAGING, TRACEABILITY AND COMMUNICATION

The EC 160 offers many advanced features to ensure that your samples are stored in ideal conditions.

The N-Smart™ control system continuously records and stores data. There's no need to wonder what happened while you were gone. The advanced alarm system and optional features will alert you instantly wherever you are.

- Graphic that facilitates the tracking of running parameters
- NüveTrack™ data tracking system that simplifies tracking by keeping 7 years of data in memory at 60-minute intervals
- On-demand control of recorded data.
- Alarm and error history kept in memory to facilitate service operations
- Optional NüveCloser™ software to track and store data on the computer
- USB output for recording data to external memory at selected intervals between 1 and 60 minutes
- USB/RS 232 outputs for retrieval of data from memory and computer connection
- Ethernet port for Internet connection
- Access to all data in memory thanks to remote access to the device via the internet with optional NüveCloser™ software
- Computer connection via RS 232 output thanks to optional NüveCloser™ software
- Possibility to send e-mails to 5 different addresses in case of a possible error or malfunction
- Notification bar that turns red in case of any alarm and warns the user
- Audible and visual alarm system
- Diagnostic system that simplifies servicing
- Help menu explaining the cause of errors that may occur
- For maximum security, the optional AlerText™ GSM alarm module provides the option to send SMS to 5 different phone numbers in case of any malfunction
- Optional NüveWarn™ remote alarm system
- Standard Wi-Fi connection for the N-Mobile™ phone app



TECHNICAL SPECIFICATIONS

| | EC 160 |
|--|--|
| Chamber Volume, liters | 160 |
| Internal Material | Stainless steel Rounded corners - No fittings |
| Indicator | 4.3" Color LCD TFT display |
| Control System | N-Smart™ Microprocessor Control System |
| Temperature Range | Ambient Temperature +7°C to 50°C |
| Temperature Set & Reading Sensitivity | 0,1°C |
| Temperature Variation / Fluctuation (@37°C)* | ±0,3°C / ±0,1°C |
| Programmable Temperature Alarm Range | ±0,5°C to 5°C |
| Temperature Sensor | Pt 100 |
| CO ₂ Range | 0% to 20% |
| CO ₂ Set & Display Sensitivity | 0,1% |
| CO ₂ Variation / Fluctuation | ±0,3% / ±0,1% |
| Programmable CO ₂ Alarm Range | ±0,5% to 5,0% |
| CO ₂ Sensor | Infra-Red (IR) |
| Calibration | Auto-zero in Every 12 minutes |
| Contamination Resistance | Infrared sensor, Automatic Zeroing Gas Line and 0.22 µm Filter in the CO ₂ Gas Inlet Line |
| Relative Humidity Level | 95% RH ± 5% |
| Recovery Times after 30 sec. Door Opening | To 36,5°C 8 min, to %4,9 CO ₂ 3 min |
| Disinfection | NüveDis™ 90 °C Password Protected Moist Disinfection |
| Number of Shelves (standard / maximum) | 3 / 8 |
| Shelf Load Area (WxD) mm | 465x 400 |
| Shelf Capacity | 20x90 mm / 56x55 mm Petri dish and 15x250 ml flask |
| Casing / Insulation Materials | Epoxy-polyester Powder Coated Steel / Aluminium Foil Coated Glass Wool |
| Display | 4,3" Colourful LCD Display |
| Data Recall | 7 Years Data Record with NüveTrack™ |
| Data Reporting | NüveCloser™ Software and USB Port for External Memory |
| Alarms | Audible and Visual Messages |
| Power Rating | 1160 W |
| Power Supply | 230 V 50 Hz |
| Internal Dimensions (WxDxH) mm | 500x460x700 |
| External Dimensions (WxDxH) mm | 917x725x905 |
| Packing Dimensions (WxDxH) mm | 960x780x1200 |
| Net/Packed Weight kg | 115 / 138 |

* At 22°C ambient temperature

FACTORY FITTED OPTIONS

EC 160 H Cable port (25 mm)

OPTIONS AND ACCESSORIES

| | |
|----------|---|
| A 08 191 | AlerText™ GSM alarm module |
| K 13 009 | NüveWarn™ remote alarm system with 10 m cable |
| A 08 143 | nUVeRay™ UV light sterilization kit |
| A 08 237 | NüveCloser™ software for PC (operates through internet) |
| R 01 154 | Stainless Steel shelf |
| A 08 146 | Stacking adapter |
| A 08 147 | Support frame |
| A 08 148 | Roller base |
| F 06 003 | 0,22 µm biological filter (spare) |
| R 11 007 | Single stage regulator for CO ₂ gas cylinder |
| A 08 149 | Gas changeover unit for two CO ₂ gas cylinders |



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ISO 9001: 2015
ISO 13485: 2016
ISO 45001: 2018

