

CO₂ Incubators



Less is more
C | CB series



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OPTIMAL CELL GROWTH



MINIMAL RISK OF CONTAMINATION



SIMPLE AND FAST CLEANING



LOW RUNNING EXPENSES

BINDER CO₂ Incubators

Maximum sample safety and best possible cell growth: BINDER CO₂ incubators offer key advantages over conventional models of other manufacturers. Many manufacturers try to meet these requirements with additional functions and fixtures in the incubator, such as ventilators or air baffle plates. BINDER, however, intentionally pursues a different strategy: Less is more.

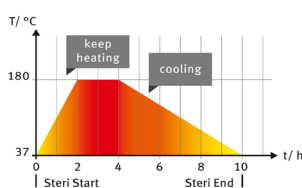
The sophisticated design of the BINDER CO₂ incubators provides the best possible culture conditions and reliable contamination prevention while also being extremely easy to use.

**LESS IS
MORE**

The BINDER concept for the best cell growth

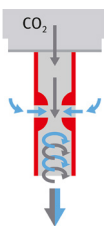
ABSOLUTE STERILITY OF INNER CHAMBER

- 180 °C hot-air sterilization throughout the inner chamber
- CO₂-sensor is also sterilized in the unit (CB series)



STABLE PH VALUES OF THE MEDIUM

- CO₂ measurement system with infrared sensor technology
- Fast-reacting, drift-free measurement
- Homogeneous gas distribution
- Rapid mixing thanks to a gas mixing head with Venturi effect



HUMIDITY MANAGEMENT

- Minimal evaporation of the medium due to high levels of humidity
- Permady™ double-pan humidification system (CB series) for active humidity limitation
- Dry interior walls through humidity limitation



CB 160

EASY TO CLEAN

- Deep-drawn inner chamber made of one piece of stainless steel
- No fixtures such as ventilators, air baffle plates, or filters
- Round corners and flanges that serve as a shelf support system (CB series)



USER-FRIENDLY OPERATING TERMINAL (CB SERIES)

- Simultaneous display of all important parameters
- Intuitive menu control
- Continuous recording of measured values
- Simple data export via USB

UNIFORM GROWTH CONDITIONS

- VENTAIR™ air jacket system
- Homogeneous temperature distribution
- Fast recovery times



CB 160 with 4x divided inner door

**OPTION
CB SERIES**

OXYGEN CONTROL

- For hypoxic conditions from 0,2 % O₂
- For hyperoxic conditions up to 95% O₂

**OPTION
CB SERIES**

DIVIDED INNER DOOR

- Minimal loss of inner chamber atmosphere
- Spatial separation of different experiments

C series

The new C 170 CO₂ incubator has been designed for standard applications in the cell culture laboratory. It provides a reproducible control for the cell well-being parameters while also ensuring the best possible levels of contamination safety in the incubator thanks to its straightforward design. When stacked, it offers 340 liters of incubation space and excellent usability.



C 170

STANDARD FEATURES

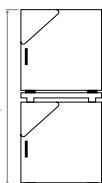
- Auto-sterilization with hot air at 180 °C
- Humidification system with condensation protection
- CO₂ gas-mixing jet with Venturi effect
- CO₂ sensor with infrared technology
- Tightly sealed inner door made of tempered safety glass
- Seamless, deep-drawn inner stainless steel chamber
- Perforated shelves, stainless steel
- Units are stackable with stacking adapter
- Troubleshooting system with visual and acoustic alarms
- Zero-voltage alarm contact

EXCERPT OF OPTIONS AND ACCESSORIES

- Access port with silicone plugs
- Gas cylinder connection set and gas tank changer
- Stacking adapter, base with casters

Easy to clean thanks to a seamlessly deep-drawn inner chamber with rounded corners and a novel, two-part rack without screw connections.

Convenient and efficient laboratory work as stacked units are easy to operate and also offer the ideal footprint-to-usable space ratio.



C 170

CB series

The BINDER CB is particularly suitable for incubating sensitive cells while also guaranteeing the best possible conditions for cell cultures during both the production process and cell-based screenings. This BINDER incubator is even suitable for complex cultivation experiments with individual environments and hypoxic conditions thanks to its comprehensive assortment of options and accessories.



CB 160

STANDARD FEATURES

- All Standard features of C series, including the following equipment:
- Double-pan humidification system with condensation protection
- Hot-air sterilizable CO₂ sensor with infrared technology
- Humidity sensor with infrared technology
- Display via color LCD monitor
- Lockable door handle
- Computer interface: Ethernet
- Internal data recording and USB interface

EXCERPT OF OPTIONS AND ACCESSORIES

- O₂ control
- Divided inner door
- Access port with silicone plugs
- Gas cylinder connection set and gas tank changer
- Stacking units (stacking adapter, stacking frame, base with casters)

TECHNICAL DATA FOR C/CB SERIES

Description	C 170	CB 60	CB 160	CB 220
Basic data				
Net housing dimensions – W/H/D [mm]	740 x 870 x 715	580 x 720 x 545	680 x 920 x 715	740 x 1.070 x 715
Net weight [kg]	110	68	110	132
Interior volume [L]	170	53	150	210
Performance data:				
Temperature range from 7 °C above ambient temperature to [°C]	50	60	60	60
Temperature variation at 37 °C [± K]	0,3	0,3	0,3	0,4
Temperature fluctuation at 37 °C [± K]	0,1	0,1	0,1	0,1
Recovery time after door was opened for 30 sec. at 37 °C [min]	6	4	4	5
Humidity range [% RH]	90...95	90...95	90...95	90...95
CO ₂ range [vol. % CO ₂]	0...20	0...20	0...20	0...20
CO ₂ measuring technology	IR	IR	IR	IR
Recovery time after door was opened for 30 sec. at 5 vol. % CO ₂ [min]	5	5	5	5

We reserve the right to alter technical specifications at any time.



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