

# CO<sub>2</sub> 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 CO<sub>2</sub> Incubators**

Maximum sample safety and best possible cell growth: BINDER CO<sub>2</sub> 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.

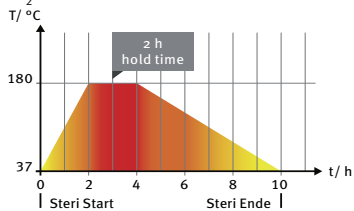
The sophisticated design of the BINDER CO<sub>2</sub> incubators provides the best possible culture conditions and reliable contamination prevention while also being extremely easy to use.

**LESS IS  
MORE**

# The BINDER concept for the best cell growth

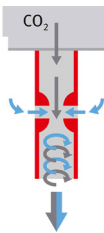
## ABSOLUTE STERILITY OF INNER CHAMBER

- 180 °C hot-air sterilization throughout the inner chamber
- CO<sub>2</sub>-sensor is also sterilized in the unit (CB series)



## STABLE PH VALUES OF THE MEDIUM

- CO<sub>2</sub> 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

**OXYGEN CONTROL**

- For hypoxic conditions from 0,2 % O<sub>2</sub>
- For hyperoxic conditions up to 95% O<sub>2</sub>

**OPTION  
CB SERIES**

**DIVIDED INNER DOOR**

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

**OPTION  
CB SERIES**

## C series

The new C 170 CO<sub>2</sub> 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
- CO<sub>2</sub> gas-mixing jet with Venturi effect
- CO<sub>2</sub> 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

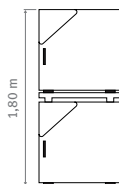
### ONLINE DATA SHEETS

Model C 170

› [go2binder.com/en-C170](https://go2binder.com/en-C170)

**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 CO<sub>2</sub> 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

- O<sub>2</sub> 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)

## ONLINE DATA SHEETS

Model CB 60

[› go2binder.com/en-CB60](https://go2binder.com/en-CB60)

Model CB 160

[› go2binder.com/en-CB160](https://go2binder.com/en-CB160)

Model CB 220

[› go2binder.com/en-CB220](https://go2binder.com/en-CB220)

## TECHNICAL DATA FOR C/CB SERIES

Description	C 170	CB 60	CB 160	CB 220
<b>Basic data</b>				
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
<b>Performance data:</b>				
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 <sub>2</sub> range [vol. % CO <sub>2</sub> ]	0...20	0...20	0...20	0...20
CO <sub>2</sub> measuring technology	IR	IR	IR	IR
Recovery time after door was opened for 30 sec. at 5 vol. % CO <sub>2</sub> [min]	5	5	5	5

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



Best conditions for your success

**BINDER GmbH**  
Tuttlingen, Germany

Tel +49 7462 2005 0  
Fax +49 7462 2005 100  
info@binder-world.com  
www.binder-world.com

**Representative Office for CIS**  
Moscow, Russia

Tel +7 495 988 15 16  
Fax +7 495 988 15 17  
russia@binder-world.com  
www.binder-world.ru

**BINDER Asia Pacific (Hong Kong) Ltd.**  
Kowloon, Hong Kong, P.R. China

Tel +852 39070500  
Fax +852 39070507  
asia@binder-world.com  
www.binder-world.com

**BINDER Inc.**  
Bohemia NY, USA

Tel +1 631 224 4340  
Fax +1 631 224 4354  
usa@binder-world.com  
www.binder-world.us

**BINDER Environmental Testing Equipment  
(Shanghai) Co., Ltd.**  
Shanghai, P.R.China

Tel +86 21 685 808 25  
Fax +86 21 685 808 29  
china@binder-world.com  
www.binder-world.com