



CO₂ - CO₂/O₂ Incubators
C | CB



BINDER CO₂ INCUBATORS with ANTI.PLENUM Design



Less is more. ANTI.PLENUM Design reduces contamination prone surfaces to a minimum while maximizing growth area for cell and tissue cultures!

Advantages at a glance

- ▶ Less contamination-prone interior surface leads to a more safe environment for cell and tissue cultures.
- ▶ Completely eliminates regular bills for costly consumables e.g. HEPA filter, H₂O₂ solutions and UV lamps over the entire working life of the CO₂ incubator.
- ▶ Less surface and parts to clean manually, means more time to spend on cell culture - year in year out.
- ▶ Less air ducts and plenum, leads to a more favorable shelf area per volume ratio
- ▶ Highly reliable 180 °C hot air sterilization of the entire interior, including the IR CO₂ sensor, ensures reproducible results time and time again.

Cell and tissue cultures demand best growth conditions and maximum protection against contamination. Many conventional CO₂ incubators attempt to meet these requirements by designing more and more complicated, time consuming and costly technical solutions. BINDER however, puts a strong focus on the bare necessities of CO₂ incubation by implementing the strategy less is more.



ANTI.PLENUM Design by BINDER eliminates fixtures.



ANTI.PLENUM Design by BINDER eliminates huge contaminateable surfaces.



Dismantled inner parts of a conventional CO₂ incubator demonstrates the huge amounts of contaminateable surface.

The Standard for CO₂-Incubators C series



The C 150 series ensures optimal growth conditions up to 50 °C. With a highly effective decontamination concept, it meets all basic requirements for cell and tissue cultures. A choice of options allows for an incubator configuration based on the application requirements.

► EQUIPMENT

- Hot-air sterilization at 180 °C
- ANTI.PLENUM Design
- Microprocessor with LED display for temperature and CO₂ concentration
- Drift-free infrared CO₂ measurement system
- Seamless, deep-drawn inner chamber made of stainless steel with integrated shelf support system
- Water pan
- Independent temperature safety device class 3.1 (DIN 12880) with visual and audible temperature alarm
- Gas mixing head
- Tightly-fitted inner glass door
- Door hinged right or left
- Three perforated shelves, stainless steel

► TECHNICAL DATA

	C 150
Exterior dimensions	
Width (mm)	680
Height (including feet) (mm)	820
Depth (mm)	815
plus i-triangle, door handle, connections (mm)	105
Interior dimensions	
Width (mm)	500
Height (mm)	600
Depth (mm)	500
Interior volume (l)	150
Temperature range, 7 °C above ambient up to °C	50
Recovery time after door was opened for 30 sec at 37 °C (min)	5
Humidity average value (±2 % r. H.)	95
Nominal voltage (±10 %) 50/60 Hz (V)	230
Model no.	9040-0078

► OPTIONS



- Silicone access port with two silicone plugs



- Gas Supply Service



- Base on casters

CO₂-Inkubatoren with additional process control CB series | CB with O₂ control

The CB series offers optimal growth conditions up to 60 °C combined with a highly effective 180 °C sterilization routine. A wide range of options such as O₂ control for hypoxic conditions, glass door or roller system are available for a variety of application-specific solutions. Our premium class incubator meets the highest demands on accuracy, safety and data communication.



► EQUIPMENT

- Hot air sterilization at 180 °C (DIN 58947)
- VENTAIR™ air jacket system
- ANTI.PLENUM Design
- LCD screen controller for temperature and CO₂ concentration
- Drift-free infrared CO₂ measurement system
- Patented gas mixing nozzle
- Permadyr™ System; condensation-free double-pan humidification system, maintains dry interior walls
- Seamless deep-drawn inner chamber made of stainless steel with integrated shelf support system
- Independent temperature safety device class 3.1 (DIN 12880) with visual and audible temperature alarm
- Tightly-fitted inner glass door
- RS 422 interface for APT-COM™ DataControlSystem communication software
- Three perforated shelves, stainless steel

► TECHNICAL DATA

	CB 53	CB 150	CB 210
Exterior dimensions			
Width (mm)	580	680	740
Height (including feet) (mm)	720	920	1070
Depth (mm)	550	715	715
plus instrument triangle, door handle (mm)	75	75	75
Interior dimensions			
Width (mm)	400	500	560
Height (mm)	400	600	750
Depth (mm)	330	500	500
Interior volume (l)	53	150	210
Temperature range, above ambient (°C)	5 – 60	7 – 60	7 – 60
Recov. time after door was opened f. 30 sec at 37 °C (Min.)	3	3	3
CO ₂ range (Vol.-% CO ₂)	0 – 20	0 – 20	0 – 20
Humidity average value (±2 % r. H.)	95	95	95
Nominal voltage (±10 %) 50/60 Hz (V)	230	230	230
Model no. standard equipment	9040-0069	9040-0038	9040-0039
Model no. with O ₂ control	9040-0071	9040-0044	9040-0045

► OPTIONS



- Gas-tight, divided inner glass door



- Control for variable O₂ values for hyper- or hypoxic culture conditions



- Stacking adapter for thermal decoupled stacking of two CO₂ incubators

BINDER
Best conditions for your success

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