

CB series: CO₂ incubators with hot air sterilization

The CO₂ incubators for all professional users for whom maximum constancy of all growth parameters and the total absence of germs is indispensable.



► Performance features and equipment:

- Electronically controlled APT.line® preheating chamber technology
- Temperature range of 7 °C above room temperature up to 60 °C
- MCS-controller for temperature and CO₂ concentration
- User-friendly LCD screen
- Easy-to-read menu guide
- Integrated electronic chart recorder
- Variety of options for the graphic display of process parameters
- Real-time clock
- Standards-compliant hot-air sterilization at 180 °C (DIN 58947)
- VENTAIR jacket system
- Drift-free infrared CO₂ measurement system
- Gas-mixing head
- Weldless deep-drawn inner chamber made of 1.4301/V2A stainless steel or copper. Unique inner chamber design with no installed parts of any kind, making it easy to clean and delivering 4 % more usable space per shelf
- Permadry® system, condensation-free double-pan humidification system
- Electronic self-diagnostic system for errors with optical and acoustic alarm, as well as zero-voltage switching contact for central monitoring
- Adjustable safety device, Class 3.1 (DIN 12880) with visual and acoustic temperature alarm
- Tight-closing inner glass door
- RS 422 interface for communication software APT-COM® DataControlSystem
- 3 perforated shelves made of 1.4301/V2A stainless steel or copper (in standard and O₂-control versions)





	CB 150	CB 210
▶ Exterior dimensions		
Width (mm/inch)	680 / 26.8	740 / 29.1
Height (incl. feet/roller) (mm/inch)	919 / 36.2	1069 / 42.1
Depth (plus 70 mm for instrument panel) (mm/inch)	722 / 28.4	722 / 28.4
Wall clearance (mm/inch)	50 / 2.0	50 / 2.0
▶ Interior dimensions		
Width (mm/inch)	500 / 19.7	560 / 22.1
Height (mm/inch)	600 / 23.6	750 / 29.5
Depth (mm/inch)	500 / 19.7	500 / 19.7
Interior volume (l/cu.ft.)	150 / 5.9	210 / 8.3
Perforated shelves, stainless steel (number standard/max.)	3 / 8	3 / 11
Dimensions of perforated shelves, Width (mm/inch)	473 / 18.6	533 / 21.0
Depth (mm/inch)	448 / 17.6	448 / 17.6
Weight (empty) (kg/lbs.)	107 / 236	121 / 267
▶ Temperature data		
Temperature range		
7 °C/44,6 °F above ambient up to °C/°F	60 / 140	60 / 140
Temperature variation at 37 °C (± °C)	0.3	0.4
Temperature fluctuation (± °C)	0.1	0.1
Recovery time after door was opened for 30 sec. ¹⁾		
at 37 °C (Min.)	3	3
CO ₂ -range (Vol.-% CO ₂)	0–20	0–20
Setting accuracy (Vol.-% CO ₂)	0,1	0,1
Recovery time after door was opened for 30 sec. ¹⁾		
up to 5 vol. % (min)	6	6
CO ₂ -measurement	IR	IR
Hose connectors for CO ₂ (mm/inch)	6 / 0.24	6 / 0.24
Humidity (constant) (% rH)	95	95
▶ Electrical data		
Housing protection acc. to EN 60529	IP 20	IP 20
Nominal voltage (± 10 %) 50/60 Hz (V)	230	230
Nominal power (W)	1400	1600
Energy consumption at 37 °C (W)	140	140
O ₂ -range (Vol.-% O ₂)	0.2–95	0.2–95
Setting accuracy (Vol.-% O ₂)	0.1	0.1
Recovery time ¹⁾		
from 20 vol % up to 0.2 vol % O ₂ (Min.)	120	120
from 20 vol % up to 5 vol % O ₂ (Min.)	64	64
from 20 vol % up to 10 vol % O ₂ (Min.)	31	31
from 20 vol % up to 15 vol % O ₂ (Min.)	14	14
from 20 vol % up to 30 vol % O ₂ (Min.)	7	7
from 20 vol % up to 50 vol % O ₂ (Min.)	25	25
from 20 vol % up to 80 vol % O ₂ (Min.)	75	75
O ₂ -measurement	ZrO ₂	ZrO ₂
Hose connectors for O ₂ /N ₂ (mm/inch)	6 / 0.24	6 / 0.24

¹⁾ up to 98 % of the set value

All technical data are specified for units with standard equipment at an ambient temperature of + 25 °C and a voltage fluctuation of ± 10 %. The temperature data are determined in accordance to DIN 12880, part 2 respecting the recommended wall clearances of 10 % of the height, width and depth of the inner chamber. All indications are average values, typical for units produced in series. We reserve the right to alter technical specifications at all times.