

CO₂CELL

CO₂ - atmosphaera, 50 °C



CO₂-incubators meet requirements on absolute constant and reproducible environment for growth of cell, tissue and other cultivating cultures. The unique temperature management system and the outer door eliminate the need of fan and consequently the risk of vibrations and contamination enormously and guarantees the maximal relative humidity with absolutely dry inner walls. Due to the air jacket system these devices can be installed easily and the same holds for their maintenance. The latest technology of CO₂-measurement – infrared sensor secures continuous, precise and reliable data on the CO₂-concentration in the chamber.

Inner volume: 48, 150 litres – standard line
48, 170 litres – comfort line

Working temperature:

1 °C above ambient temperature up to 50 °C

Non-controlled relative humidity:

max. 95 % RH at 37 °C

CO₂ concentration: 0,2 up to 10 %

CO₂ measurement via infrared sensor

Inner glass door

Interior: stainless steel DIN 1.4301 (AISI 304)

Laboratory incubators

The versatile standard line with microprocessor control unit

- microprocessor control
- contamination risk avoided by using no fan
- clear LED display
- operation via 4 keys on a foil keyboard
- continuous indication of actual temperature value and CO₂ concentration
- acoustic and visual alarm
- infrared CO₂ sensor with exact output with no influence of chamber humidity
- programmable zero setting of CO₂ sensor
- compact design
- seamless chamber (only volume 48 litres)
- independent safety thermostat
- CO₂ HEPA filter



Options

- access port Ø 10 mm
- right door versions
- CO₂ concentration control on scale of 0,2–20 %
- seamless inner chamber
- copper interior (only volume 150 litres)
- 3 inner glass door (only volume 150 litres)
- locable door (only volume 150 litres)
- potential-free contact for alarm reports
- automatic CO₂ change over unit

... standard line

The high-tech comfort line with multi-functional microprocessor control unit

- microprocessor control
- contamination risk avoided by using no fan
- large size graphical LCD display
- control via menu
- indication of set and actual temperature value, CO₂ concentration, time and alarm reports
- acoustic and visual alarm
- infrared CO₂ sensor with exact output with no influence of chamber humidity
- fully automatic zero setting of CO₂ sensor
- special program for first initial installation and further diagnostic of functions
- system of process data storing for a long-term following of processes in numerical and graphical form
- on-line help
- compact design
- seamless chamber (only volume 48 litres)
- independent safety thermostat
- CO₂ HEPA filter



Options

- access port Ø 10 mm
- right door version
- CO₂ concentration control on scale of 0,2–20 %
- relative humidity of 98 % at 37 °C
- relative humidity measurement and indication
- alarm system for relative humidity drop
- O₂ control
- high-temperature decontamination
- cooling system (only volume 170 litres)
- seamless inner chamber
- copper interior (only volume 170 litres)
- 3 or 6 inner glass door (only volume 170 litres)
- RS 232 interface for printer or PC-communication
- printer
- software for data output
- potential-free contact for alarm reports
- locable door (only volume 150 litres)
- key pad controlled door lock (only volume 170 litres)
- automatic CO₂ change over unit

... comfort line

Technical data		Model	48	150	170
Inner dimensions	volume	l	48	150	170
	width	mm	401	485	525
	depth	mm	308	500	570
	height	mm	401	625	570
Shelves (trays)* High-quality stainless steel	number	max.	6	6	8
		stand.	3	3	3
External dimensios	width	max. mm	484	575	600
	depth	max. mm	470	630	650
	height	max. mm	645	760	745
Weight	netto	kg	32	65	70
	brutto	kg	50	75	80
Temperature data	working temperature	°C	1°C above ambient temperature to 50°C		
Temperature deviations at 37°C max.	measurement	± °C	≤0,1	≤0,1	≤0,1
	spatially	± °C	≤0,2	≤0,1	≤0,2
	in time	± °C	≤0,1	≤0,3	≤0,1
CO ₂ Control	control range	% CO ₂	0,2–10% (optionally 0,2–20%)		
Control accuracy	measurement	±%	≤0,1	≤0,1	≤0,1
	spatially	±%	≤0,1	≤0,1	≤0,1
	in time (long-term)	±%	≤0,2	≤0,3	≤0,2
Recovery rate		%/min	≥1,5%/min	≥min 0,7%/min	
Required CO ₂ pressure		bar / psi	0,35 bar / 5 psi		
Relative humidity	humidity dish volume	l	0,5	1,5	2,5
Humidity level at 37°C	standard	% RH	95	95	
	higher	% RH	97	98	
Electric parameters	max. output	W	500 (high temperature dekontamination: 2000)		
	consumption (at 37°C)	kWA	<0,1		
	voltage (50/60 Hz)	V	220–240 option: 100–120		

*) Approx. 50 % of the tray area can be filled in a way a uniform air circulation is enabled inside the chamber.
Changes in the design and make reserved.

CO2CELL 48

Your personal incubator

- unique double-door system
- seamless chamber
- easily removable shelves for easy cleaning
- unique system of humidity generation and dry walls
- innovative design



CO2CELL 150, 170

Incubator for your laboratory

- compact design
- suitable for stacking
- appropriate design
- for more and less samples
- comprehensive accessories



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