

CO2CELL

CO₂ - atmosphaera



- CO₂ -incubators meet requirements on absolute constant and reproducible environment for growth of cell, tissue and other cultivating cultures.
- Trial circuit heating management system eliminates the need of fan and consequently the risk of vibrations and contamination enormously and guarantees the maximum relative humidity with absolutely dry inner walls.
- Due to the air jacket system these device can be installed easily and the same holds for their maintenance.
- CO₂ series have an innovative new door design, the chamber door seal securely seals against the heated stainless steel lining of the outer door, which eliminates the requirement for a glass inner door for most applications.
- Technology of CO₂ measurement – infrared sensor secures continuous, precise and reliable data on the CO₂ concentration in the chamber.

Inner volume: 48, 170 litres

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 20 %

CO₂ measurement via infrared sensor

Interior: stainless steel DIN 1.4301 (AISI 304)

Laboratory incubators

The versatile standard line with microprocessor control unit

- contamination risk avoided by using no fan
- 2x3 LED display
- continuous indication of actual temperature value and CO₂ concentration
- acoustic and visual alarm of error state
- infrared CO₂ sensor with exact output with no influence of chamber humidity
- independent safety thermostat
- CO₂ HEPA filter
- seamless inner chamber with fully rounded corners
- trial heating system for quick recovery after door opening
- semi-automatic CO₂ zeroing system
- high temp decontamination (exl. 48 l model)



Options

- access port Ø 25 mm
- right door versions
- copper interior (only 170 l volume)
- lockable door
- RS 232 interface for printer or PC communication
- special software Warmcomm
- relay contact for remote alarm
- automatic CO₂ change over unit
- two stage CO₂, N₂, O₂ reduction valve
- single inner glass door
- stacking stand and kit
- 8 position shelf rack (volume 170 l)
- 6 position shelf rack (volume 48 l)

standard line

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

- contamination risk avoided by using no fan
- large graphical LCD display
- indication of set and actual temperature value, CO₂ concentration, time and alarm reports
- acoustic and visual alarm of error state
- infrared CO₂ sensor with exact output with no influence of chamber humidity
- independent safety thermostat
- CO₂ HEPA filter
- seamless inner chamber with fully rounded corners
- trial heating system for quick recovery after door opening
- fully automatic CO₂ zeroing system
- data-logging facility
- on-screen HELP facility
- 80 % efficiency of usable volume (136 l with 170 l model)
- completely dry wall chamber
- mechanically polished inner chamber
- high temp decontamination



Options

- access port Ø 25 mm
- right door versions
- copper interior (only 170 l volume)
- uncontrolled relative humidity of 97 % at 37 °C
- O₂ concentration control
- high temp decontamination
- cooling system
- RS 232 interface for printer or PC communication
- special software Warmcomm
- key pad control
- mechanical door lock with key
- relay contact for remote alarm
- automatic CO₂ change over unit
- two stage CO₂, N₂ reduction valve
- humidity measurement and display
- internal IP66 sealed 240 V socket
- 2-split inner glass door (volume 48 l)
- 4-split and 8-split inner glass door (volume 170)
- stacking stand and kit

... comfort line

Technical data		Model	48	170
Inner dimensions	volume	l	48	170
	width	mm	401	540
	depth	mm	308	451
	height	mm	401	693
Shelves (trays)* High-quality stainless steel	number	max.	6	8
		stand.	3	4
External dimensios	width	max. mm	484	685
	depth	max. mm	475	677
	height	max. mm	648	848
Weight	netto	kg	32	70
	brutto	kg	50	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
	spatially	± °C	≤ 0,2	≤ 0,2
	in time	± °C	≤ 0,1	≤ 0,1
CO ₂ Control	control range	% CO ₂	0,2–20 %	
Control accuracy	measurement	± %	≤ 0,1	≤ 0,1
	spatially	± %	≤ 0,1	≤ 0,1
	in time (long-term)	± %	≤ 0,2	≤ 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	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 170

Incubator for your laboratory

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



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