

CO₂ Cell INCUBATORS

Fan Less - Direct Heat with Drift Free IR Sensors

Assuring Your Quality



Comfort 190 Model with Comfort Controller & 200°C Sterilization

CO₂ / O₂ Comfort 190 Model with Comfort Controller & 200°C Sterilization & 8 inner doors



Standard 190 Model with Standard Controller & 160°C Sterilization included

BMT CO₂ Cell incubators are focused on constant and repeatable conditions for cell growth, tissue and other culturing procedures. **The Direct Heat system is fan-less, virtually eliminating cross contamination, condensation and consequently vibration.** Thanks to the **unique 6-sided – 3 circuit direct heated chamber contamination control and condensation** on the inner glass door and walls is achieved and maintenance is greatly reduced.

The **Drift-free IR sensor** provides maximum reliability, precision and quick recovery after door opening.

- **Chamber Volumes** 50, 190 liters / 1.71, 6.71 ft³
- **Chamber Space - Highest** usable internal space available
- **CO₂ Sensor** Drift Free Infrared (IR) sensor
- **Working temperature** 5°C above ambient up to 60 °C
- **Non-Controlled Relative Humidity (RH)** up to 95% RH at 37°C
- **Inner Glass Door** to minimize loss of chamber conditions
- **O₂ Inner Glass Door** 8 inner doors to minimize loss of conditions
- **CO₂ Control** 0.1% up to 20%
- **O₂ Control** 1 – 20%
- **Access port** 25 mm (1")
- **Anti-Microbial Paint** on exterior of all units
- **Chamber Standard** AISI 304, **Comfort** AISI 316 stainless steel
- **Sterilization 200°C (392°F, Highest Available) & 160°C**

Standard Control Panel

- 2 x 3 LED display
- continuous indication of actual temperature and CO₂ concentration
- audio and visual alarm
- infrared drift free CO₂ sensor
- independent safety thermostat
- HEPA filter on incoming CO₂ tubing
- seamless inner chamber with rounded corners
- direct 6-sided heating system for maximum temperature uniformity of internal conditions
- 25 mm access port in the back of the unit

Standard Options

- 3-split & 6-split inner glass door (50l model)
- 8-split inner glass door (190l model)
- automatic change over kit
- CO₂ Inline pressure regulator
- two stage CO₂ regulator
- stacking kit for two units (190l)
- rolling cart: casters - swiveling, locking & leveling

Comfort Options

- 200 °C Sterilization – available 50 & 200 models
- O₂ control 1-20 %
- humidity display
- IQ/OQ protocols
- 3-split & 6 split inner glass door (50l models)
- O₂: 8-split inner glass door (190l models)
- CO₂ Inline pressure regulator
- two stage CO₂ regulator
- automatic change over kit
- stacking kit for two units (190l)
- rolling cart: casters - swiveling, locking & leveling

Comfort Control Panel

- LCD color touch screen display, simple icon navigation
- continuous indication of actual temp., CO₂ concentration, time and alarm limits
- audio and visual alarm
- infrared drift free CO₂ sensor
- independent safety thermostat
- SD card system saving data in MS Excel
- RS 232 port, BMS relay alarm contact
- HEPA filter on incoming CO₂ / NO₂ tubing
- seamless inner chamber with rounded corners
- on board data-logging facility with graphs
- high process security – users protected by passwords (5 users, 1 admin)
- event log of all relevant data and events
- 25 mm access port in the back of the unit

CO2 Technical Data		Model	50	190
Interior dimensions Chamber: stainless steel	volume	ft3	1.71	6.71
		liters	50	190
	width	inches	15.83	24.88
		mm	402	632
	depth	inches	11.81	17.32
		mm	300	440
	height	inches	15.83	27.01
		mm	402	686
Exterior dimensions	width	inches	21.02	30.12
		mm	534	765
	depth	inches	18.11	28.90
		mm	460	743
	height	inches	28.23	30.12
		mm	717	862
Weight	Net Standard / Comfort Gross Standard / Comfort	Kg / lbs Kg / lbs	38/40kg 83.8/88.2 lbs 50/52kg 110.2/114.6 lbs	94.5/104kg 208/229 lbs 109/117.5kg 240/259 lbs
Shelves: stainless steel	number of shelf guides in chamber	maximum	3	8
	side walls	standard	3	4
Electric parameters	maximum output	W	350°C / 950 °C	380°C / 1800 °C
	consumption @ 37°C 50/60 Hz	kWA V	<0.072 110-120V	<0.058
Temperature Data	working temperature	°C	1°C above ambient to 50°C	
Temperature deviations at 37°C max. (98.6 °F)	temperature uniformity	± °C	≤ 0.1 °C	≤ 0.1 °C
		± °C	≤ 0.25 °C	≤ 0.25 °C
		± °C	≤ 0.1 °C	≤ 0.1 °C
Recovery rate		% / min.	≥ 0.8% / min.	≥ min 0.8% / min.
Required CO2 pressure		bar / psi	0.3 – 0.7 bar / 5-10 psi	
Relative Humidity	humidity dish volume		0.5	1.5
Humidity level @ 37°C 5% CO2	standard	% RH	95%	95%

*Approx. 50% of the tray area can be filled for uniform circulation inside the chamber

** Voltage +/- 10%



Stacked 190L Comfort Model



50L Standard Model



50L Comfort Model



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