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# CO2 Cell INCUBATORS



## Fan Less - Direct Heat with Drift Free IR Sensors



**Comfort 190 Model with Comfort Controller & 200°C Sterilization**

**CO2 / O2 Tri- Gas 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 ft<sup>3</sup>
- **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
<b>Interior dimensions</b> Chamber: stainless steel	volume	ft <sup>3</sup>	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
<b>Exterior dimensions</b>				
	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
<b>Electric parameters</b>	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
<b>Temperature Data</b>	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% CO <sub>2</sub>	standard	% RH	95%	95%

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

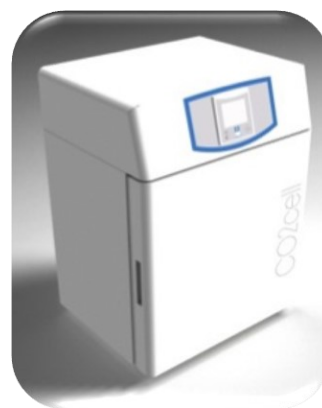
\*\* Voltage +/- 10%



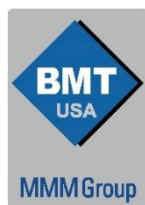
Stacked 190L Comfort Model



50L Standard Model



50L Comfort Model



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