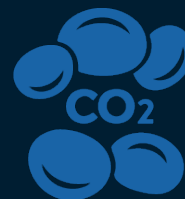




CO2Cell Standard & Comfort

3-Circuit Fanless Direct Heat System

CO₂ Incubators



BMT CO₂Cell incubators are focused on constant and repeatable conditions for cell growth, tissue, and other culturing procedures.

The system is fan-less, virtually eliminating cross contamination, condensation, and vibration.

The 6-sided, 3 circuit direct heated chamber design creates gentle natural gravity air movement, reduces the risk of sample contamination, and eliminates condensation on the inner glass door and walls.

The infrared (IR) drift free CO₂ sensor provides maximum reliability, precision, and quick recovery after opening the door.



Microbiological sample cultivation and cell culture growth



Life sciences



Virology and cancer research



Standard Controller

2 x 3 LED digital display

Continuous indication of actual temperature and CO₂ concentration

Audio and visual alarm

Infrared drift free CO₂ sensor independent safety thermostat

Direct 6-sided heating system for maximum temperature uniformity of internal conditions

25 mm access port in the back of the unit



Comfort Controller

LCD color touch screen digital display with icon navigation

Continuous indication of actual temp., CO₂ concentration, time & 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

On-board data-logging facility with graphs

High process security - users protected by passwords (5 users, 1 admin)

Event log of all relevant data & events

CO₂ Control & Sensor:

0.1% up to 20%. Infrared (IR) drift-free CO₂ sensor

Temperature Range:

5°C above ambient up to 60°C

Dry Heat Sterilization:

160°C Standard, 200°C Comfort - (highest available on the market)

Relative Humidity (RH)

Up to 90% RH +/- 5% @ 37°C

Chamber Volumes:

50 (1.7 ft³) • 190 (6.7 ft³)

Chamber Design:

- Standard - AISI 304 seamless stainless-steel chamber
- Comfort - AISI 316 seamless stainless-steel chamber
- 25mm (1") port
- Inner Glass Door to minimize loss of chamber conditions
- HEPA filter on incoming CO₂ gas tubing
- Exterior: Anti-Microbial Paint

Electrical Data:

115V 50/60Hz

Optional Tri Gas O₂ Control:

- 1% up to 20% O₂ concentration
- Compartmentalized inner glass doors to minimize loss of conditions.
 - 190 (6.7 ft³) - 8 compartment doors
 - 50 (1.7 ft³) - 4 compartment doors

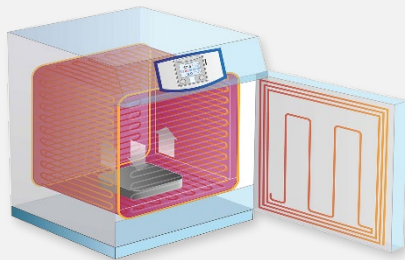
Optional Equipment:

- Ethernet communication port (Comfort)
- Stacking platform for stacking two units on top of each other
- Rolling platform cart
- Door sensor and alarm
- Automatic door lock (Comfort)
- 304 or 316 stainless steel exteriors
- Automatic CO₂ tank change over kit
- CO₂ Inline pressure regulator
- Two stage CO₂ regulator
- Humidity display (Comfort)
- IQ/OO protocols
- 4-20mA & BMS contacts

CO2Cell Technical Data		Model	50	190
Interior Dimensions Chamber: AISI 304 or 316 stainless steel	Volume	ft ³	1.8	6.7
		liters	50	190
	Width	inches	15.8	24.9
		mm	402	632
	Depth	inches	11.8	17.3
		mm	300	440
Height	inches	15.8	27	
	mm	402	686	
Exterior Dimensions (Including Door, Handle, Leg L, or Caster C)	Width	inches	21	30.1
		mm	534	765
	Depth	inches	18.1	28.9
		mm	460	734
	Height	inches	28.2	33.9
		mm	717	862
Shelves: Stainless Steel	Capacity: # of shelf guides in chamber side walls	Maximum #	3	8
		Standard #	3	4
Shelf Distance	Min. distance between trays	Inches	3.8	2.5
		mm	96	64
Useable Shelf Area	Width x Depth	Inches	12.8x9.8	21.9x15.8
		mm	325x249	557x401
Maximum Shelf Load	One Shelf	lbs	44.1	33.1
		kg	20	15
	Total Per Unit	lbs	132.3	132.3
		kg	60	60
# Outer Metal Doors		pc	1	1
Operation Temperature		°C	1°C above ambient up to 50°C	
Variations From Operation Temperature with Flap Closed and Door (DIN 12880 part 2)	Measurement	± °C	≤0.1	≤0.1
	Space	± °C	≤0.25	≤0.25
	Time	± °C	≤0.1	≤0.1
Recovery Rate		%/min	≤0.8	≤0.8
Required CO ₂ Pressure		bar/psi	0.3-0.7/5-10	0.3-0.7/5-10
Relative Humidity	Humidity Dish Volume	liters	0.5	1.5
Humidity Level @ 37°C, 5% CO ₂		% RH	95%	95%
Electrical Data	Max Consumption 50/60Hz	kW	0.35/0.95	0.38/1.8
		W	7.2	5.8
		V	230	230
Weight (Standard/Comfort)	Net	lbs	83.8/88.2	208.3/229.3
		kg	38/40	94.5/104
	Gross	lbs	110.2/114.6	240.3/259
		kg	50/52	109/117.5
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*Approx. 50% of the tray area can be filled for uniform circulation inside the chamber.

**Voltage +/- 10%



3-circuit fan-less direct heat system

6-sided, 3 circuit (door, bottom/water pan, sides/top/back) fan-less direct heat system virtually eliminates cross contamination, condensation, and vibration.