

CO₂ incubator

Scope of Application

CO₂ incubator provides a safe, reproducible growth environment for cell cultures, natural simulation to ensure optimum growth conditions at all time.

Key Features

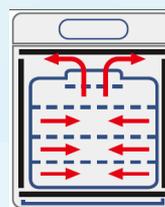
Precise and Accurate Temperature Control

Equipped with microcomputer PID control system and 3 sensors, it precisely control the cooling and heating temperature with 0.1°C accuracy. It can provide a stable temperature to ensure the normal growth of cells throughout their life cycle.



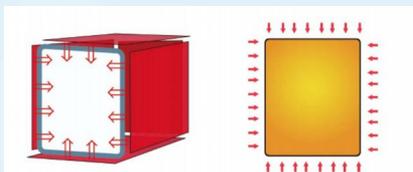
Natural Air and Moisture Convection

Natural air, moisture convection air and moisture in chamber are distributed naturally by 6 sides heating and air circulation fan.



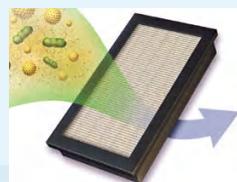
125°C Air Jacket Sterilization

Easy and effective sterilization targets microorganisms at 125°C. 6 sides heating, no need to disassemble internal components (including CO₂ sensors) and decontaminate separately, thus avoiding superinfection contamination.



HEPA Filter

All gas injection lines are filtered via HEPA to remove impurities. Efficient filterability (filtration rate) at 99.97% particulates larger than 0.3µm.

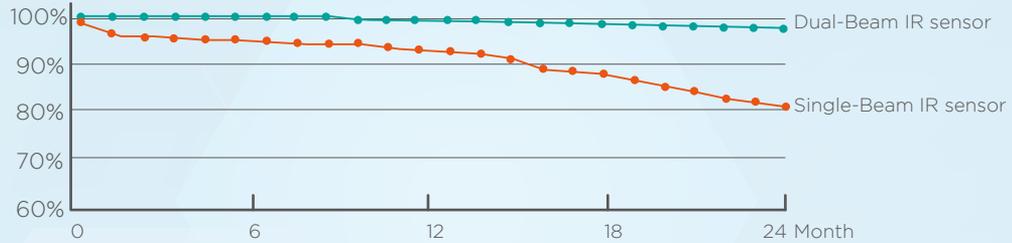


Anti-Condensation Heating System

The door on the CO₂ incubator radiates heat to the inner glass door, effectively preventing the glass door from forming condensation, the possibility of microbial contamination caused by the condensate water.

Precise CO₂ Concentration Using IR Sensitive Control

Built-in temperature and humidity compensation technology reduces the impact of changes of humidity and temperature without the need for calibration after the high temperature sterilization. Compared with traditional single beam IR, dual-beam IR is more stable and accurate.



Sketch of drift less than 0.3%



Specifications



Items	MCP-40	MCP-120	MCP-180	MCP-260
Temp. Range(°C)	RT +5 ~ 60			
Accuracy	±0.1°C at 37°C			
Uniformity at 37°C/ RT 25°C	±0.3°C			±0.4°C
CO ₂ Inlet Pressure Range	0.3 ~ 0.5bar			0.6 ~ 0.7bar
Controller	PID			
Humidity at 37°C	70% ~ 80% at 37°C (with water try)			
CO ₂ Range	0% to 20%			
Accuracy at 5% at 37°C	±0.1% at 5% at 37°C			
CO ₂ Concentration Resolution	0.1%			
CO ₂ Sensor	IR CO ₂ Sensor			
Control Panel	LED Display			
Jacket Type	Air Jacket (6 Sides Direct Heating)			
Chamber Material	Stainless Steel (SUS 304)			
Outer Door	Silicon Packing Magnet Door			
Inner Door	Tempered Safety Glass Door			
Net/ Gross Weight(kg)	38/50	65/89	80/105	115/143
Capacity(L)	40	120	180	260
Perforated Shelves	2/4	3/8		
Max. Heating Power(W)	320			610
Interior Dimension (W*D*H)mm	320x350x375	480x470x520	473x528x710	530x590x900
Exterior Dimension (W*D*H)mm	420x460x570	580x560x765	560x620x945	630x680x1125
Standard UV	NO			
Standard Dry Heat Sterilization	YES			
Power Supply	110V~/50/60Hz 220-240V~/50/60Hz			