

Technical Details

			
Cat.No.	C80SE	C180SE	C240SE
Control interface	5 inch LCD touch screen	5 inch LCD touch screen	5 inch LCD touch screen
Temperature control mode	PID control mode	PID control mode	PID control mode
Temperature control range	Ambient +5°C-60°C	Ambient +5°C-60°C	Ambient +5°C-60°C
Temperature display resolution	0.1°C	0.1°C	0.1°C
Temperature field uniformity	±0.3°C at 37°C	±0.3°C at 37°C	±0.3°C at 37°C
Heating power	500W	900W	1000W
Timing function	0-9999 hours	0-9999 hours	0-9999 hours
Internal Dimensions	L440×W400×H500mm	L535×W526×H675mm	L674×W526×H675mm
Dimension	L560×W530×H825mm	L660×W652×H1000mm	L800×W652×H1000mm
Volume	85L	185L	248L
CO ₂ measurement principle	Infrared (IR) detection	Infrared (IR) detection	Infrared (IR) detection
CO ₂ control range	0-20%	0-20%	0-20%
CO ₂ display resolution	0.1%	0.1%	0.1%
CO ₂ supply	0.05-0.1MPa is recommended	0.05-0.1MPa is recommended	0.05-0.1MPa is recommended
Relative Humidity	Ambient humidity ~95% at 37°C	Ambient humidity ~95% at 37°C	Ambient humidity ~95% at 37°C
HEPA filtration	ISO 5 level, 5 minutes	ISO 5 level, 5 minutes	ISO 5 level, 5 minutes
Sterilization method	140°C High heat sterilization	140°C High heat sterilization	140°C High heat sterilization
Temperature recovery time	≤10 min (open door 30sec room temperature 25°C set value 37°C)	≤10 min (open door 30sec room temperature 25°C set value 37°C)	≤10 min (open door 30sec room temperature 25°C set value 37°C)
CO ₂ concentration recovery time	≤5 min (open the door 30sec set value 5%)	≤5 min (open the door 30sec set value 5%)	≤5 min (open the door 30sec set value 5%)
Historical data storage	250,000 messages	250,000 messages	250,000 messages
Data export interface	USB interface	USB interface	USB interface
Scalability	Up to 2 units can be stacked	Up to 2 units can be stacked	Up to 2 units can be stacked
Working environment temperature	18-30°C	18-30°C	18-30°C
Power supply	115V-230V±10%, 50-60Hz	115V-230V±10%, 50-60Hz	115V-230V±10%, 50-60Hz
Weight	78kg	112kg	130kg

*All products are tested biologically in a controlled environment. Radobio does not guarantee the consistency of field test results under different conditions.

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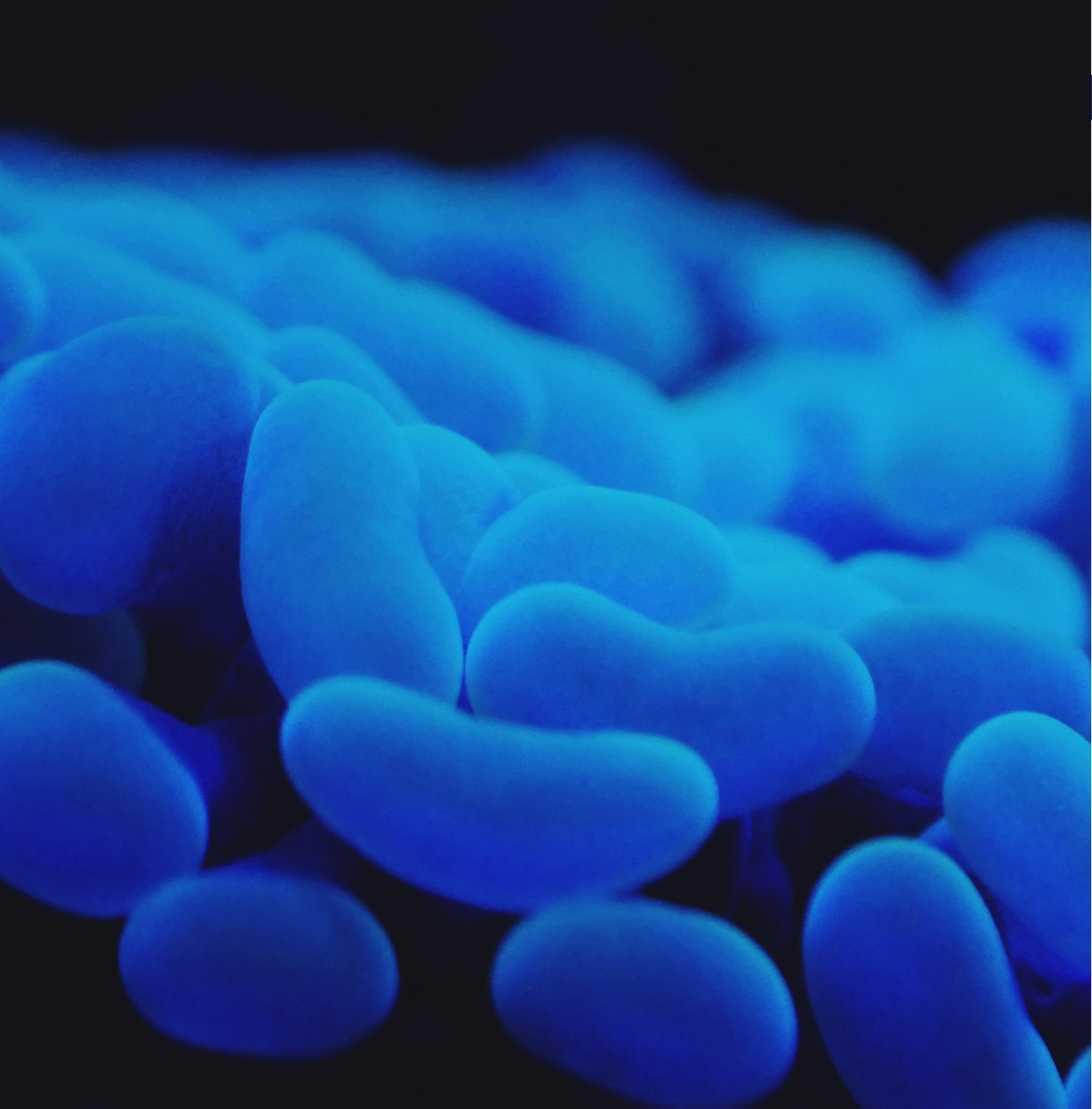


RADOBIO

180°C HIGH HEAT STERILIZATION CO₂ INCUBATOR
C180PE / C80PE / C240PE

140°C HIGH HEAT STERILIZATION CO₂ INCUBATOR
C180SE / C80SE / C240SE





Product Features

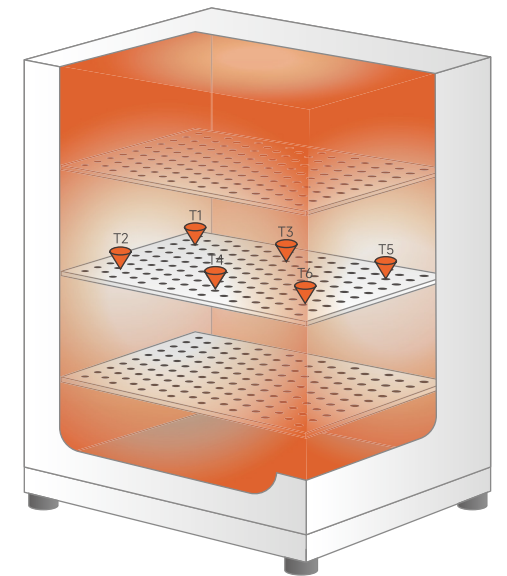
A UNIFORM TEMPERATURE FIELD OF $\pm 0.2^{\circ}\text{C}$ C180PE / C80PE / C240PE

6-SIDE DIRECT HEAT CHAMBER

Large 185L capacity chamber provides large enough culture space and ideal environment for cell culture applications.

The 6-side heating method, with efficient, high-performance heating systems distributed on the surface of each chamber, provides a highly uniform temperature distribution throughout the incubator, resulting in a more uniform temperature throughout the incubator and a uniform temperature field of $\pm 0.2^{\circ}\text{C}$ within the chamber after stabilization.

Standard right side door opening, left and right door opening direction according to demand. Polished stainless steel one-piece interior chamber with rounded corners for easy cleaning. Flexible combination of detachable pallets, independent humidity pan can be removed or put in according to demand. Built-in fan in the chamber gently blows air for even distribution within the chamber, ensuring a consistent culture environment. Stainless steel shelves and brackets are durable and can be removed without tools in 1 minute.

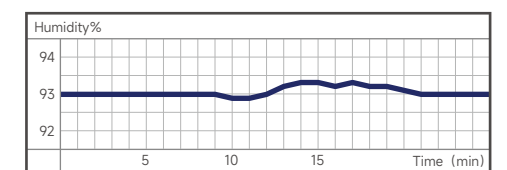


Group 1 channel: 37.0°C	temperature \wedge 999.9°C limitation \vee 999.9°C	
T1: 37.0°C	T2: 37.1°C	T3: 36.9°C
T4: 37.0°C	T5: 36.9°C	T6: 36.9°C
Check	Time: ****	

AVOIDS THE FORMATION OF CONDENSATION

304 STAINLESS STEEL WATER PAN FOR HUMIDIFICATION

Easy-to-clean 304 stainless steel water pan holds up to 4L of water, ensuring a high humidity environment in the culture chamber. It provides maximum protection for cell and tissue culture and avoids the dangerous formation of condensation, even when the humidity pan generates high humidity at normal room temperature, and is still less likely to generate condensation above the chamber. Turbulence-free chamber ventilation ensures a constant and uniform cell culture environment



*The humidity measurement location is the middle center of the chamber

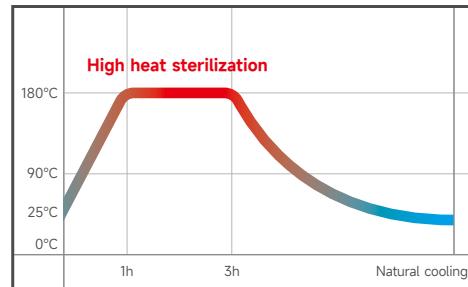
Relying on years of production experience, and design upgrades, RADOBIO CO₂ incubators demonstrate great characteristics in cell culture application with offering excellent cell-growth environment and effective pollution-control technology. RADOBIO CO₂ incubators are suitable for large range of important applications. Concise operation and convenient monitoring make you save more time to devote into research.

Product Features

HIGH HEAT STERILIZATION **C180PE / C80PE / C240PE**

180°C HIGH HEAT STERILIZATION

On-demand 180°C high heat sterilization simplifies cleaning and eliminates the need for separate autoclaving and reassembly of components, increasing efficiency. 180°C high heat sterilization system effectively eliminates bacteria, mold, yeast and mycoplasma from the interior cavity surface.



Organism	Clump count (CFU/piece)	positive samples / total samples
Bacillus subtilis black variant spore	6.08×10^5	0 / 2
escherichia coli	7.55×10^5	0 / 2
staphylococcus aureus	1.83×10^6	0 / 2
pseudomonas aeruginosa	5.48×10^5	0 / 2
Candida albicans	5.50×10^5	0 / 2
aspergillus niger	1.63×10^6	0 / 2

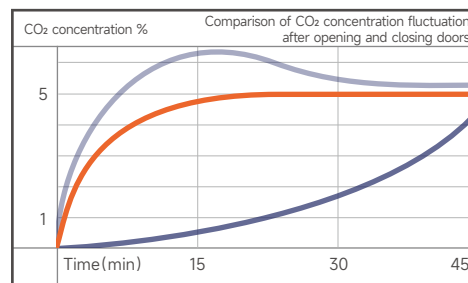
*operating parameter: 140 120min
Operating state: fully occupied(glassware)

FOR ACCURATE MONITORING

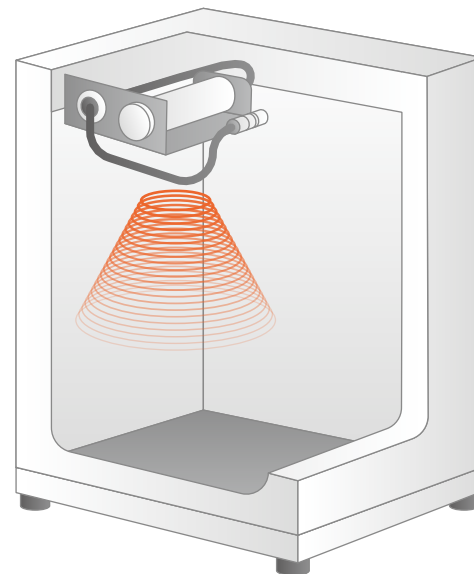
INFRARED (IR) CO₂ SENSOR

Infrared (IR) CO₂ sensor for stable monitoring when humidity and temperature are less predictable, effectively avoiding measurement bias problems associated with frequent door opening and closing.

Ideal for sensitive applications and remote monitoring, or where frequent opening of the incubator is required. Temperature sensor with overtemperature protection.



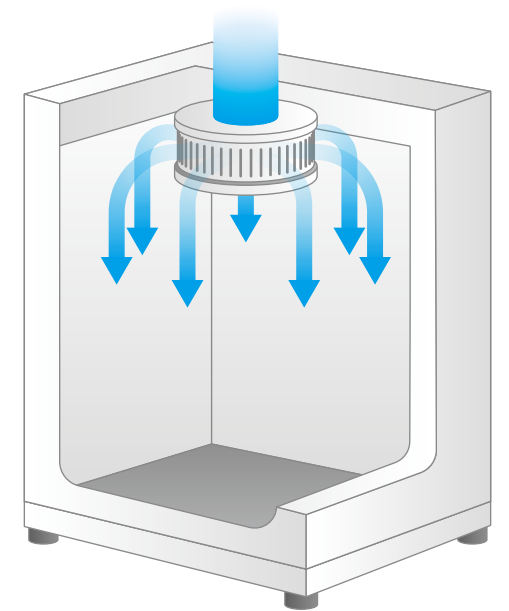
- Similar products A: Concentration recovery overshoot
- Radobio C180: Fast stabilizing
- Similar products B: Slow concentration recovery



HEPA FILTRATION

5 MINUTES

Chamber's built-in HEPA air filtration system provides uninterrupted filtration of air throughout the chamber. Reach required air quality within 5 minutes of closing the door. Provides continuous protection by reducing the ability of airborne contaminants to adhere to interior surfaces.

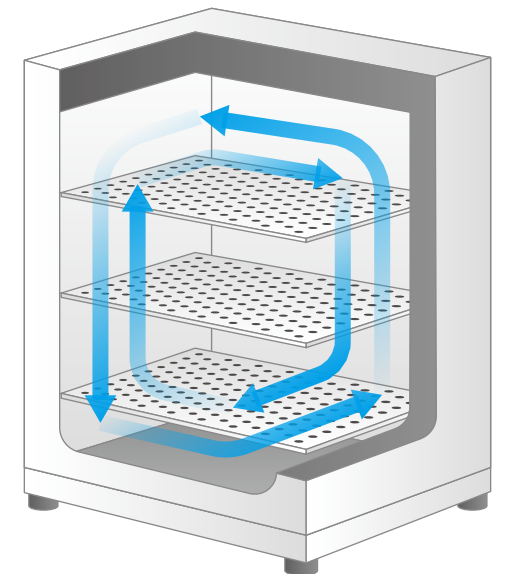
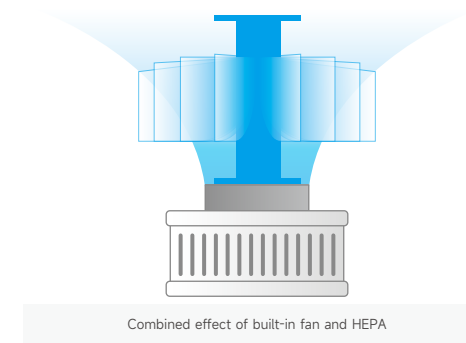


FILTERED AIRFLOW SYSTEM

ACTIVE AIRFLOW TECHNOLOGY

Incubators are equipped with fan-assisted airflow circulation, enabling rapid recovery. Our airflow pattern is specifically designed for uniform distribution of some key environmental conditions (temperature, gas exchange and humidity).

An in-chamber fan gently blows filtered, moist air throughout the chamber, ensuring that all cells have the same environmental conditions and do not lose excessive water regardless of their location.

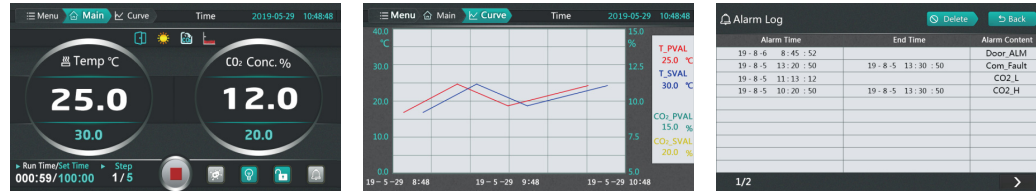


Product Features

INTUITIVE CONTROLS FOR EASY OPERATION

5 INCH LCD TOUCH SCREEN

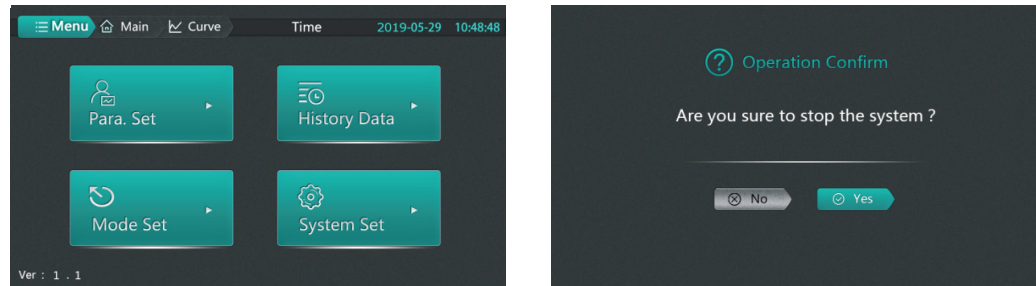
Intuitive controls for easy operation, instant run curves, historical run curves. Convenient installation position above the door for easy control, capacitive touch screen with sensitive touch control experience. Audible and visual alarms, on-screen menu prompts.



HISTORICAL DATA CAN BE VIEWED, MONITORED AND EXPORTED

EXPORTED VIA USB PORT

Historical data can be viewed, monitored and exported via USB port, historical data cannot be changed and can be truly and effectively traced back to the original data.



Technical Details

			
Cat.No.	C80PE	C180PE	C240PE
Control interface	5 inch LCD touch screen	5 inch LCD touch screen	5 inch LCD touch screen
Temperature control mode	PID control mode	PID control mode	PID control mode
Temperature control range	Ambient +4°C~60°C	Ambient +4°C~60°C	Ambient +4°C~60°C
Temperature display resolution	0.1°C	0.1°C	0.1°C
Temperature field uniformity	±0.2°C at 37°C	±0.2°C at 37°C	±0.2°C at 37°C
Heating power	500W	900W	1000W
Timing function	0-9999 hours	0-9999 hours	0-9999 hours
Internal Dimensions	L440×W400×H500mm	L535×W526×H675mm	L674×W526×H675mm
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Data export interface	USB interface	USB interface	USB interface
Scalability	Up to 2 units can be stacked	Up to 2 units can be stacked	Up to 2 units can be stacked
Working environment temperature	10-30°C	10-30°C	10-30°C
Power supply	115V-230V±10%, 50-60Hz	115V-230V±10%, 50-60Hz	115V-230V±10%, 50-60Hz
Weight	78kg	112kg	130kg

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