

CO2 INCUBATOR



BR-CO2-80A CO2 INCUBATOR

For static culture of cell, it's 140°C high heat sterilization CO2 incubator with HEPA filter.

FEATURES:

1. 6-side direct heat chamber

- Compact 85L capacity, especially suitable for low-throughput cell culture and confined laboratory space
- 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 $\pm 0.3^{\circ}\text{C}$ 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

2. 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

3. 140°C high heat sterilization

- On-demand 140°C high heat sterilization simplifies cleaning and eliminates the need for separate autoclaving and reassembly of components, increasing efficiency
- 140°C high heat sterilization system effectively eliminates bacteria, mold, yeast and mycoplasma from the interior cavity surface

4. ISO Class 5 HEPA filtered airflow system

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

5. Infrared (IR) CO₂ sensor for accurate monitoring

- 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

6. 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

7. 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

8. Historical data can be viewed, monitored and exported

- 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 PARAMETERS

MODEL	BR-CO2-80A
Control interface	5 inch LCD touch screen
Temperature control mode	PID control mode
Temperature control range	Ambient +5°C~60°C
Temperature display resolution	0.1°C
Temperature field uniformity	±0.3°C at 37°C
Max. power	500W
Timing function	0~999.9hours
Internal Dimensions	W560×D530×H825mm
Dimension	85L
Volume	Infrared (IR) detection
CO2 measurement principle	0~20%
CO2 display resolution	0.1%
CO2 supply	0.05~0.1MPa is recommended
Relative Humidity	Ambient humidity ~95% at 37°C
HEPA filtration	ISO 5 level, 5 minutes
Sterilization method	140°C High heat sterilization
Temperature recovery time	≤10 min (open door 30sec room temperature 25°C set value 37°C)
CO2 concentration recovery time	≤5 min (open the door 30sec set value 5%)
Historical data storage	250,000 messages
Data export interface	USB interface
User management	3 levels of user management: Administrator/Tester/Operator
Scalability	Up to 2 units can be stacked
Working environment temperature	18~ 30°C
Power supply	115/230V±10%, 50/60Hz
Weight	78kg

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