

MBINCOSD 90L CO2 Incubator sterilization up to 140C

Product Details

Product Number

PRO3401



Technical Specification:

COLO series carbon dioxide incubator

Carbon dioxide incubators are widely used in research and production in scientific fields such as microorganisms, medicine, pharmaceuticals, environmental protection, food, animal husbandry, etc. It is commonly used in cell dynamics research, collection of mammalian cell secretions, carcinogenic or toxicological effects of various physical and chemical factors, research and production of antigens, culture of hybridoma cells to produce antibodies, in vitro fertilization (IVF), stem cells, tissue engineering, drug screening and other research fields.

Features:

- The chamber material uses 304 mirror stainless steel plate, which is processed and formed by integrated molding process, with absolutely rounded corners and seamless. All components in the workshop can be quickly disassembled and assembled, which is easy to clean and disinfect.
- The chamber is designed with a built-in circulating air duct to deliver clean and moist air to the chamber slowly and evenly, ensuring that all cells are under the same conditions and will not become dry.
- A high-performance HEPA filter is designed in the circulating air path in the studio, which can effectively clean the microorganisms and particles in the airflow and prevent the culture from being polluted.
- There is a one-piece stainless steel humidification water tray at the bottom of the chamber, which is convenient for adding water and cleaning.

Door temperature heating system

- CO2 The incubator door can heat the inner glass door, which can effectively prevent condensation from the glass door and the possibility of microbial contamination due to the condensation of the glass door.

CO2 system

- Imported far-infrared CO is adopted. The sensor is more stable and reliable than the traditional thermal conductivity sensor and has a longer service life.
- CO2 Compared to conventional thermal conductivity sensors, the sensor is not affected by temperature and

humidity, and the set CO can be quickly restored after the door is opened and closed. Concentration. And long-term use does not require frequent calibration.

- The air inlet is equipped with a high-efficiency microbial filter, which has a filtration efficiency of up to 99.99% for particles with a diameter greater than or equal to 0.3µm, effectively filtering CO2 bacteria and dust particles in gases.

Sterilization system

- The 140°C high-temperature sterilization system is adopted, which can simplify the cleaning process and eliminate the need for separate autoclaving of each part. Rapid sterilization of all surfaces in the incubator workshop can be completed by simply running the sterilization program, which can effectively eliminate biological contaminants such as fungi, molds, bacterial propagules and spores.

Control system:

- PID microcomputer control system, true color touch operation interface. Instead of the traditional button operation mode, the operation is simple, and the control is accurate.
- It can display real-time running curves, with curve summary function, and can directly view the changes of three sets of curves of temperature, humidity and CO2 concentration.
- It has the function of automatic control of the speed of the circulating fan, which can avoid the volatilization of the sample caused by excessive air volume during the test.
- With CO2 concentration correction function.
- It has the function of over-temperature sound and light alarm, and automatically stops heating over temperature to ensure the safe operation of the experiment.
- With CO2 Alarm if the concentration is too high or too low.
- It has the function of automatic stop operation when opening the door.
- It has the functions of power-off memory, timing operation,

Optional features:

- 485 interface remote control system: remote control and data analysis can be carried out according to work needs and exported (optional).
- The remote monitoring function of each client of the mobile APP can be upgraded (optional).
- O2 Control function: can charge the box with O2gas and control the amount of gas (optional).

Specifications:

Model	MBINCOSD-90	MBINCOSD-180	MBINCOSD-240
Supply voltage	AC220V / 50-60Hz		
Input power	0.5kW	0.7kW	1kw
Heating method	Air-jacketed microcomputer PID control		
How it works	True color touch screen operation		
Temperature control range	Room temperature +5~60°C		
Operating ambient temperature	Room temperature +5~30°C		
Temperature fluctuations	±0.1°C		
CO2 control range	0-20%		
CO2 control accuracy	±0.1% (IR sensor)		
CO2 recovery time	(Open the door for 30 seconds to recover to 5%) ≤ 5 minutes		
Temperature recovery	(Open the door for 30 sec and return to 37 °C) ≤ 8 min		
relative humidity	(37°C natural evaporation) ambient humidity -95%		
Sterilization method	High temperature 140°C		

volume	90L	180L	240L
Cargo carrier (standard)	3 pieces		4 pieces
Inner tank size (mm): W×D×H	420×400×550	550×500×680	600×600×700
Dimensions (mm): W×D×H	580×660×775	710×770×900	760×860×930

Note: The performance parameters are tested under no-load conditions: ambient temperature 20°C, ambient humidity 50%RH

Accessories: