

# Incubator

## CO<sub>2</sub> Incubator



### Introduction:

The CO<sub>2</sub> incubator simulates the growth environment of cells/tissues in vivo by simulating in the incubator. The incubator requires a stable temperature (37°C), a stable CO<sub>2</sub> level (5%), a constant pH (pH: 7.2~7.4), and a high relative saturated humidity (95%). It is a device for cell/tissue culture in vitro.

### Application:

It is suitable for a wide range of fields such as cytology, biology, oncology, genetics, immunology, virus research and genetic engineering research. It is an ideal device for the cultivation of cells, tissues and bacteria in scientific research units and industrial production departments such as modern medicine, pharmaceutical industry, biochemistry and agricultural science.

### Features:

- \* IR infrared sensor, using dual-channel dual-filter infrared technology.
- \* The design of multiple small doors reduces the amount of air exchange between the outside space and the inside of the incubator during the opening process.
- \* Inner tank is made of 304 mirror finish stainless steel, featuring a semi-circular corner design for faster and more effective bottom cleaning and sterilization.
- \* The design of the 3D airflow channel ensures uniform CO<sub>2</sub> distribution, enhancing the accuracy of IR sensor data collection.
- \* The interior is heated uniformly by aluminum foil-wrapped silicone heating wires, ensuring rapid temperature increase and excellent uniformity.
- \* High quality HEPA filter ensures the inside gas quality.
- \* SMC brand solenoid valves ensure more stable gas concentration and less consumption of gas.
- \* Equipped with leakage current and over-voltage protectors. Features over-temperature, under-temperature, over-concentration and under-concentration alarms.
- \* The water reservoir in the bottom chamber ensures high humidity.

### Technical Parameters:

Model	BJPX-C100M	BJPX-C160M	BJPX-C200M	BJPX-C260M	BJPX-C300M
Type	Medical series, air jacket				
Sterilization Type	90°C moist heat sterilization				
Capacity	100L	160L	200L	260L	300L
Temp. Sensor	PT100				
Temp. Range	RT+5~60°C				
Temp. Fluctuation	±0.3°C (@37°C)				
Temp. Uniformity	±0.5°C (@37°C)				
Temp. Precision	0.1°C				
Timing Range	0~999h or continuous				
Display	7-inch touch screen				
CO <sub>2</sub> Control	IR infrared sensor with calibration certificate				
CO <sub>2</sub> Range	0~20vol%				
CO <sub>2</sub> Uniformity	0.2vol%				
CO <sub>2</sub> Control Resolution	0.1vol%				
Ambient Temperature and Humidity	Ambient temperature: 5~30°C (Recommendation: 25±2°C) Ambient humidity: ≤80%				
Filter	CO <sub>2</sub> gas filter				
Power Supply	AC 220V, 50/60Hz (Standard); 110V, 50/60Hz (Optional) (External transformer) Wiring method: plug				
Consumption	800W	820W	840W	1380W	1800W
Shelves	2pcs, adjustable		3pcs, adjustable		
Standard Accessories	Shelves, USB interface, CO <sub>2</sub> relief valve, CO <sub>2</sub> gas filter				
Optional Accessory	Water pump				
Internal Size(W*D*H)	407*415*615mm	457*470*753mm	505*470*857mm	557*475*997mm	567*500*1068mm
External Size(W*D*H)	632*740*894mm	682*796*1030mm	730*796*1134mm	782*805*1274mm	792*830*1344mm
Package Size(W*D*H)	757*865*1055mm	807*921*1190mm	855*921*1294mm	907*930*1434mm	917*955*1504mm
Net Weight	95kg	110kg	130kg	165kg	185kg
Gross Weight	120kg	135kg	155kg	190kg	210kg