



# Air Jacketed CO<sub>2</sub> Incubator LAJI-C20

Air Jacketed CO<sub>2</sub> Incubator LAJI-C20 is a shaking CO<sub>2</sub> incubator with air jacketed configurations suitable for heat/UV sterilization and temperature range of 4° to 65°C with shaking frequency of 40 to 300 rpm. Designed with CO<sub>2</sub> concentration sensor, advanced alarm system, temperature control and monitoring system, it provides uniform and stable conditions. Incorporated 90° C high temperature sterilization method, touch screen with PID controller, and enhanced safety features provides the benefits of contamination control and uncompromising temperature uniformity for even the most demanding incubations.

### Features :

- ❑ Touch screen interface with Screen lock while functioning
- ❑ Infrared CO<sub>2</sub> concentration sensor with PT100 temperature sensor
- ❑ Outer door ring with heating function
- ❑ Independent environment temperature detector
- ❑ UV lamp at the back top of chamber
- ❑ 90 degree high temperature and high humidity sterilization system with One touch simple sterilization function
- ❑ Short sterilization cycle (18 hours) with 72 hours machine performance
- ❑ Heating elements: Located on all 6 sides of the chamber
- ❑ Alarm system: High and low temperature and over temperature; Chamber sensor failure; Independent temperature limiter; Door open; High/low CO<sub>2</sub> condensation; Power off alarm; Door temperature sensor failure; Disinfection and sterilization status reminder; Over temp sensor failure and Abnormal function
- ❑ Data logging capabilities with PID controller
- ❑ Designed to minimize contamination

### Application :

Air Jacketed CO<sub>2</sub> Incubator are used for tissue engineering, cell culture, in vitro fertilization, diagnostics, neuroscience, cancer research and for developing biosensors across medical research and the pharmaceutical industry.

**Specifications:**

Model	LAJI-C20
CO <sub>2</sub> range	0-20%
CO <sub>2</sub> recover time	(Return to 5% after opening the door for 30 seconds) ≤3 mins
CO <sub>2</sub> control accuracy	±0.1%
CO <sub>2</sub> stability of 5%CO <sub>2</sub>	±0.1%
CO <sub>2</sub> uniformity	±0.1%
CO <sub>2</sub> sensor	IR CO <sub>2</sub> sensor
Shaking frequency	40-300 rpm
Shaking Precision	±1 rpm
Amplitude	20 mm
Drive way	Three eccentric shaft balance drive type
Humidity control	50 to 90%
37C humidity control accuracy	The chamber can reach 85%-95% when 37° C , and the humidity can be controlled in real time
Humidity resolution	0.10%
Humidity deviation	±2%
Related humidity	Nature vaporate > 95%
Allowable shaking load	10 kg
Temperature control range	4-65° C
Temperature control accuracy	±0.1° C
Temperature uniformity	±0.5° C
Temperature sensor	PT 100
Environment temperature detector	Independent
Over temperature protection system	Independent
Temperature recover time	(Return to 37° C after opening the door for 30 sec) ≤8 mins

Heating method	6 side heating
Disinfection method	90° C high temp
Timing range	0 to 99 hour 59 min
Platform size (LxB)	350x350 mm
Shelf	1
Display	Digital Color display with touch panel
Sterilization system	90 degree high temp. high humidity sterilization system (RHP); UV sterilization (option)
Controller	PID
Interface	RS485
Door Open/close message	Yes
Alarm system	High and low temperature and over temperature; Chamber sensor failure; Independent temperature limiter; Door open; High/low CO <sub>2</sub> condensation; Power off alarm; Door temperature sensor failure; Disinfection and sterilization status reminder; Over temp sensor failure and Abnormal function
Interior dimension (WxDxH)	505x600x420 mm
Exterior dimension (WxDxH)	693x875x753 mm
Gross Weight	91 kg
Power	1500 W
Voltage	220V 50Hz
Flask Configuration	50 mlx36, 100 mlx23, 250 mlx13, 500 mlx8, 1 Lx5, 2 Lx3, 4 Lx1, 5 Lx1