



AIR JACKETED CO₂ INCUBATOR
LD-LAJI-A1 SERIES

info@labodam.com | www.labodam.com

Air Jacketed CO₂ Incubator LD-LAJI-A1 Series delivers a higher level of performance for a reliable in vitro growth environment through unified CO₂ temperature and humidity control. It comes with 80 L, 155 L and 233 L capacity, and RT+5 to 50°C temperature range with 0 to 20% CO₂ control range. Features hot air circulation system and 18hrs, 90°C moist heat disinfection for periodic sterilization of test chamber. Designed with stainless steel, perforated shelves with semi-circular arcs at corners, for easy cleaning.

Features:

- ⇒ Microprocessor-based PID controller with large LCD screen
- ⇒ Functions incorporated like Alarm function for temperature difference, over CO₂ concentration, door open time, working status, etc.
- ⇒ Equipped with micro-organism filter at inlet for filtration of bacteria, dust, so that it supplies pure CO₂ into the incubator
- ⇒ Sterilization Method: 18hrs (90°C moist heat disinfection)
- ⇒ Separate temperature-limiting alarm system for safe usage
- ⇒ Auto-controller of fan speed to prevent sample damage
- ⇒ Door temperature controller prevents dewfall on glass door
- ⇒ Options are available to connect printer and computer for data recording (Optional) via RS-485 connector

Applications:

Air jacketed CO₂ incubators are widely used for a broad range of applications that includes: Tissue engineering, In vitro fertilization, Neuroscience, Cancer research, Stem cell research, Regenerative medicine, Mammalian cell research.

Specifications:

Model No.	LD- LAJI-A10	LD- LAJI-A11	LD- LAJI-A12
Chamber Volume	80 L	155 L	233 L
Shelves	2 (pcs)	3 (pcs)	
Heating Method	Air-jacketed, PID Control		
Temperature Range	RT + 5 to 50°C		
Ambient Temperature	RT + 5 to 30°C		
Temperature Stability	± 0.1°C		
CO ₂ Range	0 to 20 %		
CO ₂ Control Resolution	± 0.1 % (IR sensor)		
CO ₂ Recovery	(Door open 30 s, recovery to 5 %) ≤ 3 min		
Temperature Recovery	Temperature Recovery (Door open 30 s, recovery to 37°C) ≤ 8 min		
Sterilization Method	18hrs (90°C moist heat disinfection)		
Humidity Method	Natural vaporization > 90 %		
Interior Dimension (W × D × H)	400 × 400 × 500 mm	480 × 530 × 610 mm	600 × 630 × 670 mm
Exterior Dimension (W × D × H)	580 × 500 × 690 mm	670 × 767 × 880 mm	788 × 837 × 940 mm
Power	AC 220 V / 50 Hz		
Power Consumption	500 W	750 W	950 W
Optional Accessories	RS485 Connector Humidity Display CO ₂ pressure releasing valve		