



Air Jacketed CO₂ Incubator LD-LAJI-D10

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Overview

Air Jacketed CO₂ Incubator LD-LAJI-D10 delivers the environment needed to grow biological or cell cultures. PID temperature controller. It comes with 80 L capacity, and RT+3 to 50 °C temperature range with 0.1 to 20% CO₂ control range and optional O₂ control. It comes with 7-inch touch screen display for observing parameters such as real time temperature display, alarm, operating status, CO₂ concentration, O₂ concentration (optional), humidity (optional).

Features:

- PID temperature controller
- Anti-condensation heated door
- Values can be observed in charts
- Faster recovery rate of temperature and CO₂ concentration with help of circulating fan after door opening
- HEPA filter for effective filtration of microorganisms
- Easily replaceable filter outside the chamber for gas inlet that filters the gas entering the chamber
- Inside glass design and 3 shelves come as standard accessory
- Stainless steel chamber for easy cleaning
- Easily removable water tray
- Safety features including various types of alarm CO₂ concentration alarm, high-low temperature alarm, low water level alarm (optional), O₂ concentration alarm (optional) and door open alarm

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:

Alarm	CO ₂ concentration alarm, high & low temperature alarm, door-opening alarm, humidity alarm, low water level alarm (optional), O ₂ concentration alarm (optional)
Noise	< 50 dB
Power	<60W/H (37 °C)
Display	7" touchscreen
Capacity	170 L
Disinfect	180 °C high temperature disinfection
CO₂ Sensor	Dual IR sensor
Convection	Fan

Access Port	∅ 30 mm
HEPA Filter	Filter 99.97% of 0.22 ∅m foreign particles
CO2 Accuracy	±0.1 %
CO2 Pressure	0.1 MPa
Power Supply	110V/220V 50/60HZ
CO2 Connector	8 mm tube (inner diameter)
Data transfer	USB, Ethernet port
Heating Method	Direct heat + Air jacket
Upgrade method	Wireless or Cable
Heat Insulation	Foam
Outer Dimension	718 x 744 x 956 mm
Chamber Humidity	95 ± 5% R.H. (Relative Humidity)
Temperature Range	Ambient +3 °C – 55 °C (ambient: 5 °C ~ 35 °C)
Internal Dimension	557 x 518 x 597 mm
Inner Door Material	Tempered glass
Temperature Controller	PID
CO2 Concentration Range	0.1 – 20 %
Weight (accessories excluded)	80 kgs
Temperature Stability at 37°C	±0.1 °C
Temperature Uniformity at 37°C	±0.3 °C
Power (high temperature sterilization)	<1500W/H (180 °C)
Temperature Recovery Time (recover to 37°C after 30s door-opening)	< 5 minutes
CO2 Concentration Recovery Time (recover to 5% after 30s door-opening)	~ 4 minutes