



**WATER JACKETED CO2 INCUBATOR
LD-LWJI-B15**

Water Jacketed CO₂ Incubator LWJI-B15 is a CO₂ incubator with water jacket configurations comes with 240 L of capacity. Equipped with UV, micro biological HEPA filter and HEPA efficient filters for sterilization, cycle fan with automatic speed and control, it provides uniform and stable conditions. Incorporated intelligent touch screen controller with time performance curve, RS 485 port, CO₂ concentration sensor and enhanced safety features provides the benefits of contamination control and uncompromising temperature uniformity. Designed with advanced alarm system, temperature control and monitoring system, CO₂ inlet control system with pressure release valve and protection system, this incubator is stable and accurate, suitable for the micro-organisms culture with long cycle.

Features:

- Intelligent touch screen controller display time performance curve for temperature, humidity (option) and CO₂ concentration
- Door open/lock message; abnormal alarm; Automatic screen lock when parameters are set
- 72 hours machine inquiry for user convenience with RS-485 communication port
- CO₂ concentration (IR) sensor with 0.1% accuracy; PT100 temperature sensor
- Over temperature protection system; Outer door ring with heating functions
- UV and HEPA sterilization
- Micro biological HEPA filter at CO₂ access port, can filters particles of diameter $\geq 0.3\mu\text{m}$
- Cycle fan with automatic speed and control, avoids sample evaporation
- CO₂ inlet control system with pressure release valve and protection system
- Alarm system: High/low and over-temperature; door temperature sensor failure; over-temperature sensor failure; CO₂ condensation too high or too low; independent temperature limiter, Door open too long and Disinfection and sterilization status reminder
- Stable, reliable and accurate, beneficial with multiple door openings or power outages

Applications:

Water jacketed CO₂ 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 No.	LD-LWJI-B15
Chamber Volume	240 L
Heating Method	Water Jacketed
CO ₂ Control Range	0 to 20%
CO ₂ Control Accuracy	±0.1% (IR sensor)
CO ₂ Restore Time	≤3min (Door open 30s, recovery to 5%)
Temperature Control Range	RT +5°C to 50°C
Ambient Temperature	+5° to 30°C
Temperature Accuracy	±0.1°C
Temperature Restore Time	≤8min (Door open 30s, recovery to 37°C)
Related Humidity	Nature vaporate > 95% (Can equip with relative humidity digital display)
No. of Shelves	3
Sterilization	UV sterilization; HEPA sterilization
Fan	Cycle fan with automatic speed and control
Controller	Touch screen
Curve	On time performance curve
Screen Lock	Automatic
CO ₂ Concentration Sensor	IR sensor
Temperature Sensor	PT100
Door Heating System	Yes
Over Temperature Protection System	Yes
CO ₂ Inlet Control System	Yes
Alarm System	High/low and over-temperature; door temperature sensor failure; over-temperature sensor failure; CO ₂ condensation too high or too low; independent temperature limiter, Door

	open too long and Disinfection and sterilization status reminder
Communication Port	RS485
Chamber Dimensions (W×D×H)	600×520×780 mm
External Dimensions (W×D×H)	754×760×1020 mm
Packing Dimensions (W×D×H)	910×940×1230 mm
Gross Weight	148 kg
Input Power	1000 W
Power Supply	AC 220 V/50 Hz

Optional Accessories:

1. Humidity display
2. CO₂ pressure valve
3. RS485