

# WATER JACKETED CO2 INCUBATOR

LWJI-B14



## Water Jacketed CO2 Incubator LWJI-B14

Water Jacketed CO2 Incubator LWJI-B14 offers 0 to 20 % CO2 range, water jacketed heating method and polished stainless steel chamber having 170 L capacity. Chamber is incorporated with HEPA filter to maintain aseptic condition, prevent culture cross contamination, and to effectively filter out the outside bacteria & dust particles. Features microbial efficient filter with diameter <0.3 um at CO2 inlet with 99.99% efficiency provides effective filtration (removal of bacteria and dust) and supplies pure CO2 into the incubator. Designed with imported (IR) Infrared sensor to keep CO2 concentration inside the chamber stable and uniform as door is open frequently.

### Features

- Water Jacketed Type Heating Method
- PID Microprocessor controlled system
- Semicircular arcs at corners for easy cleaning
- 3 pcs of adjustable shelves inside the chamber
- Faster CO2 concentration restoration speed
- Built-in UV germicidal lamp in the rear of top of the box of effective sterilization
- Door temperature controller prevents dewfall on glass door of incubator effectively
- Pt100 Temperature sensor to ensure accurate temperature
- Can adjust heating power in real time
- Touch screen controller display (shows real time curve with curve summary function)
- Can run continuously up to 72 hours
- HEPA filter: Cleanliness level 100 (air quality inside chamber) is recovered on 5 minutes door closing

## Features

- Audible and visible temperature-limiting alarm system to ensure safe running of the experiments
- Auto-controller of fan speed to prevent damage to the samples
- Alarm function for CO<sub>2</sub> over concentration and concentration difference, door open time, UV lamp working status

## Applications

Water jacketed CO<sub>2</sub> 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 and mammalian cell research.

## Specifications

Model no.	LWJI-B14
Heating method	Water Jacketed
Chamber volume	170 L
CO <sub>2</sub> range	0 to 20 %
CO <sub>2</sub> control resolution	± 0.1% (IR Sensor)
CO <sub>2</sub> recovery	(Door open 30 s, recovery to 5%) ≤ 3 min
Temperature range	RT + 5 to 50°C
Ambient temperature	5 to 30°C
Temperature stability	± 0.1°C
Temperature recovery	(Door open 30 s, recovery to 37°C ) ≤ 8 min
Humidity method	Natural vaporization > 95 %
No. of shelves	3 pcs
Sterilization method	UV lamp sterilization
Interior dimension	530×460×7200 mm

Exterior dimension	684×700×960 mm
Power consumption	700 W
Power supply	AC 220 V, 50 Hz
Packaging dimension	820×810×1230 mm
Packaging weight	125 kg (1 CTN)

### Optional Accessories

- Humidity display
- RS485 connector
- CO2 pressure releasing valve