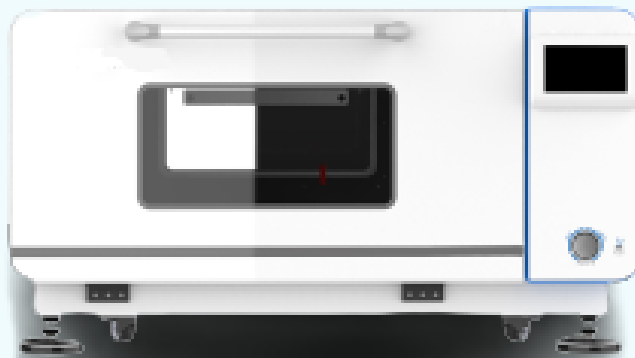




## **Stackable Incubated Refrigerated Shakers LD-LIRS-B10**

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# Stackable Incubated Refrigerated Shakers LD-LIRS-B10

## Overview

Stackable CO<sub>2</sub> Incubated and Refrigerated Shakers LD-LIRS-B10 is a single stack designed, microcomputer-controlled unit, comprised with 6-sided heating method, UV sterilization and 90°C high temperature moist sterilization system. It offers orbital movement with timer and continuous operation, speed range of 40 to 300 rpm and 4°C to 65°C of temperature range along with 0 to 20% of CO<sub>2</sub> control range and ? 3 min of restoration time. With low heat rejection brushless DC motor, triple eccentric shaft balance drive, and CO<sub>2</sub> monitoring and control system, it features IR sensor, microbial filter gas inlet, temperature and humidity control system, and door temperature heating and monitoring system. Fluorine-free structure design with SS304 working chamber, high-quality aluminum made withdrawable shaking platform, and large observation window, is provided with top and bottom door opening and internal power-off protection function. Incorporated with 7-inch touch s

## Features:

- Single stack designed microcomputer-controlled unit with 6-sided heating method
- UV sterilization and 90°C high temperature moist sterilization system
- Orbital shaking movement with timer and continuous operation
- Shaking speed range of 40 to 300 rpm and 4°C to 65°C of temperature range
- 0 to 20% of CO<sub>2</sub> control range and ? 3 min of restoration time
- Low heat rejection brushless DC motor, ensures long continuous operation
- Triple eccentric shaft balance drive, provide constant shaking
- CO<sub>2</sub> monitoring and control system, uniform CO<sub>2</sub> distribution
- IR sensor, enable accurate monitoring of CO<sub>2</sub> at fast speed without any interference
- Microbial filter gas inlet, effective elimination of microbial contamination
- Temperature and humidity control system, short time restoration
- Door temperature heating and monitoring system, prevent condensation on door
- Fluorine-free structure design with SS304 working chamber and internal power-off protection function
- High-quality aluminum made withdrawable shaking platform
- Top and bottom door opening and large observation window
- 7-inch touch screen, for real-time monitoring of different parameters
- Switchable door, speed control circuit and auto fan circulation, provide gentle air flow
- Independent temperature limit alarm system, enable safe operation
- Supports USB interface and an optional RS485 interface

## Applications:

Stackable CO<sub>2</sub>Incubated and Refrigerated Shaker is ideally used for static and dynamic culture of microbial cells , bacteria etc. across cell culture, fermentation, hybridization, biochemistry, cytology, microbiology, biotechnology etc.

## Specifications:

|               |                                       |
|---------------|---------------------------------------|
| <b>Motor</b>  | Low heat rejection brushless DC motor |
| <b>Power</b>  | 1200 W                                |
| <b>Design</b> | Single stack                          |

|                                  |                                                                    |
|----------------------------------|--------------------------------------------------------------------|
| <b>Display</b>                   | 7-inch color touch screen                                          |
| <b>Interface</b>                 | USB                                                                |
| <b>CO2 Sensor</b>                | IR sensor                                                          |
| <b>Controller</b>                | Microcomputer                                                      |
| <b>Time range</b>                | 0 to 5999 min                                                      |
| <b>CO2 accuracy</b>              | ± 0.1%                                                             |
| <b>Power supply</b>              | 220 V 50 Hz                                                        |
| <b>Shaking mode</b>              | Orbital                                                            |
| <b>Balance drive</b>             | Triple eccentric shaft balance drive                               |
| <b>CO2 stability</b>             | ± 0.1% @ 5% CO2                                                    |
| <b>Sterilization</b>             | UV sterilization+ 90°C high temperature moist sterilization system |
| <b>Heating method</b>            | 6-sided heating                                                    |
| <b>Operation mode</b>            | Timer and continuous                                               |
| <b>CO2 control range</b>         | 0 to 20%                                                           |
| <b>Humidity accuracy</b>         | 85 to 95% @ 37°C                                                   |
| <b>Platform material</b>         | High-quality Aluminum                                              |
| <b>Temperature range</b>         | 4 to 65°C                                                          |
| <b>Display resolution</b>        | 0.1°C                                                              |
| <b>Humidity deviation</b>        | ± 3%                                                               |
| <b>Dimension (W×D×H)</b>         | 1000×920×670 mm                                                    |
| <b>Shaking speed range</b>       | 40 to 300 rpm                                                      |
| <b>CO2 restoration time</b>      | ? 3 min (30 s door opening, recovery to 5%)                        |
| <b>Humidity control range</b>    | 50 to 95% RH                                                       |
| <b>Maximum shaking weight</b>    | 10 kg                                                              |
| <b>Temperature uniformity</b>    | ±0.3 ( test point @ 37°C; Ambient @ 25°C)                          |
| <b>Working chamber material</b>  | Grade 304 Stainless steel                                          |
| <b>Platform dimension (L×B)</b>  | 500×460 mm 1 pc                                                    |
| <b>Shaking orbit (Amplitude)</b> | 26 mm                                                              |