



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

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Stackable Incubated Refrigerated Shakers LD-LIRS-B10

Overview

Stackable CO₂ 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 CO₂ control range and ? 3 min of restoration time. With low heat rejection brushless DC motor, triple eccentric shaft balance drive, and CO₂ 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 CO₂ 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
- CO₂ monitoring and control system, uniform CO₂ distribution
- IR sensor, enable accurate monitoring of CO₂ 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 CO₂Incubated 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:

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| Motor | Low heat rejection brushless DC motor |
| Power | 1200 W |
| Design | Single stack |

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| Display | 7-inch color touch screen |
| Interface | USB |
| CO2 Sensor | IR sensor |
| Controller | Microcomputer |
| Time range | 0 to 5999 min |
| CO2 accuracy | ± 0.1% |
| Power supply | 220 V 50 Hz |
| Shaking mode | Orbital |
| Balance drive | Triple eccentric shaft balance drive |
| CO2 stability | ± 0.1% @ 5% CO2 |
| Sterilization | UV sterilization+ 90°C high temperature moist sterilization system |
| Heating method | 6-sided heating |
| Operation mode | Timer and continuous |
| CO2 control range | 0 to 20% |
| Humidity accuracy | 85 to 95% @ 37°C |
| Platform material | High-quality Aluminum |
| Temperature range | 4 to 65°C |
| Display resolution | 0.1°C |
| Humidity deviation | ± 3% |
| Dimension (WxDxH) | 1000x920x670 mm |
| Shaking speed range | 40 to 300 rpm |
| CO2 restoration time | ? 3 min (30 s door opening, recovery to 5%) |
| Humidity control range | 50 to 95% RH |
| Maximum shaking weight | 10 kg |
| Temperature uniformity | ±0.3 (test point @ 37°C; Ambient @ 25°C) |
| Working chamber material | Grade 304 Stainless steel |
| Platform dimension (LxB) | 500x460 mm 1 pc |
| Shaking orbit (Amplitude) | 26 mm |