



**-40°C UPRIGHT FREEZER  
LD-LUF-B43**

## -40°C Upright Freezer LD-LUF-B43

-40°C Upright Freezer LD-LUF-B43 is an upright type unit comes with 1008 L of capacity and -40°C of cooling performance. Features -20 to -40°C of temperature control range with high-precision microprocessor temperature control system and platinum resistor temperature sensors. Designed with sprayed high quality steel plated housing and galvanized steel sheet interiors, has 2-layer heat insulating foamed door with rotating handle and 3 shelves. Equipped with international branded compressor and powerful EBM fan with large area-finned condenser, has direct cooling method with manual defrost mode. Incorporated with R290 refrigerant and advanced alarm system, has turn-on delay and stopping interval protection function and keyboard lock function with password protection function. With digital display and standard RS485 interface, supports remote alarm contact along with optional chart recorder and printer to facilitate the temperature monitoring and recording.

### Features:

- An upright type unit with 1008 L capacity having -40°C of cooling performance
- -20 to -40°C of temperature control range with microprocessor temperature control system
- Platinum resistor temperature sensors, ensures precise and uniform temperature
- Sprayed high quality steel plated housing and galvanized steel sheet interiors
- 2-layer heat insulating foamed door with rotating handle, easy operation
- 3 adjustable shelves, organized and efficient storage of different samples
- International branded compressor and powerful EBM fan with large area-finned condenser
- Direct cooling method with manual defrost mode, efficient refrigeration conditions
- R290 refrigerant, energy efficient and environment friendly
- Advanced alarm system with turn-on delay and stopping interval protection function
- Keyboard lock function with password protection, prevents unauthorized access
- Digital display, convenient setting and monitoring of temperature parameters
- Standard RS485 interface and remote alarm contact, easy and convenient operation
- Optional chart recorder and printer to facilitate the temperature monitoring and recording
- High-efficient, stable and reliable unit for targeted refrigeration of different samples

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### Applications:

-40°C Upright Freezer is used for scientific research, cryogenic test on special materials, low temperature resistance test on biological materials, vaccines, biological products and military products etc. across research institutions, the electronic industry, the chemical industry, hospitals, the health & disease prevention system, laboratories in colleges & universities, military enterprises, etc.

### Specifications:

Model No.	LD-LUF-B23
Cabinet Type	Upright
Capacity	1008 L
Temperature Range	-20 to -40°C
Ambient Temperature	16 to 32°C
Cooling Performance	-40°C
Cooling Method	Direct cooling
Defrost Mode	Manual
Refrigerant	R290
Climate Class	N
Controller	Microprocessor
Display	Digital display
Compressor	2 pcs.
Alarm System	High/Low temperature, High ambient temperature, Power failure, Low battery, Sensor failure, Condenser cooling failure, Door ajar, System failure, Main board communication error, Built-in datalogger USB failure
External Material	High quality steel plates with spraying

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Internal Material	Galvanized steel sheet
Insulation thickness	130 mm
Shelves	3 (stainless steel)
Casters	4 (2 leveling feet)
Door lock with Key	Yes
Access Port	3 pcs. $\Phi$ 25 mm
Data Logging/Interval/Recording Time	USB/Record every 10 minute / 2 years
Backup Battery	Yes
Power Supply	220 to 240 V, 50 Hz
Rated Current	8.5 A
Internal Dimension (W×D×H)	1022×696×1378 mm
External Dimension (W×D×H)	1362×1025×2002 mm
Packaging Dimension (W×D×H)	1473×1155×2176 mm
Net Weight	320 kg
Gross Weight	440 kg
Standard Accessories	RS485 Remote Alarm Contact
Optional Accessories	Printer Chart Recorder