



-40°C Upright Freezers LD-LUF-B22

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Overview

-40 °C Upright Freezer freezers offer high-performance cooling with energy efficiency and environmental sustainability. Using hydrocarbon refrigerants and high-efficiency compressors, they maintain stable internal temperatures ideal for preserving biological samples, reagents, and pharmaceuticals. The freezers include intelligent controls, multiple safety alarms, and is suitable for a wide range of applications from clinical labs and pharmaceutical facilities to research institutions and laboratories.

Features:

- Accurate and stable cooling ensured by a precise microprocessor temperature controller
- Utilizes advanced direct-cooling technology for efficient temperature management
- Secure lockable front-opening door for safety
- Eco-friendly HC refrigerant used to support environmental sustainability
- Adjustable shelves and removable drawers for flexible organization of samples
- Quiet operation suitable for noise-sensitive environments
- Clear and easy-to-read digital display for real-time temperature monitoring
- Equipped with both audible and visual alarms to safeguard stored samples
- Multiple alarm systems including high/low temperature, sensor failure, power failure, and door ajar alerts
- Battery backup supports alarms and monitoring during power loss
- Remote monitoring options via USB or RS485 communication ports

Applications:

The -40 °C Upright Freezer freezers are ideal for medical institutions, laboratories, pharmaceutical companies, research centres, and biobanks. They provide secure storage for biological samples, vaccines, reagents, blood plasma, enzymes, and other temperature-sensitive materials requiring consistent low-temperature conditions between -20 °C and -40 °C.

Specifications:

Door	2
Casters	4 (2 casters with brake)
Shelves	6 x 2 (ABS)
Capacity	450 L
Compressor	2 pcs
Net Weight	144 Kg
Access Port	2 pcs. Ø 25 mm
Refrigerant	R290
Cabinet Type	Upright

Defrost Mode	Manual
Gross Weight	172 Kg
Climate Class	N
Backup Battery	Yes
Inner Material	Aluminium plate with spraying
External Material	PCM
Temperature Range	-20 ~ -40 ?
Door Lock with Key	Yes
Ambient Temperature	16 – 32 ?
Cooling Performance	-40 ?
Insulation Thickness	L/R:80, B:80 mm
Package Dimension (W x D x H)	895 x 820 x 2135 mm
External Dimension (W x D x H)	810 x 735 x 1960 mm
Internal Dimension (W x D x H)	(650 x 570 x 627) mm x 2
Data Logging/Interval/Memory Capacity	USB / Record every 10 minutes / 1000,000 data