



-86 °C Ultra Low Temperature Upright Freezer LD-LUF-D25

Labodam Equipment Ltd.

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Overview

-86 °C Ultra Low Temperature Freezer, Experience rapid cooling with our high-efficiency refrigeration system, designed to quickly reach the target temperature using an eco-friendly hydrocarbon refrigerant. Equipped with an ultra-low noise design, this unit promotes a quiet, environmentally conscious workspace. Energy efficiency is maximized with up to 40% reduced power consumption, while VIP vacuum insulation panels enhance thermal retention, ensuring stable performance and long-term reliability.

Features:

- High-efficiency EMBRACO compressor for reliable and powerful performance
- Premium Germany EBM fans ensure stable airflow and cooling
- CFC-free patented hydrocarbon refrigerant for fast cooling and eco-friendliness
- PT-100 platinum resistance sensors for highly sensitive and accurate temperature detection
- VIP Plus vacuum insulation panels with 130 mm foamed insulation for enhanced temperature stability
- Lockable keyboard with password protection to prevent unauthorized parameter changes
- Lockable front door with full-height handle for secure access control
- Start-up delay and power-off protection ensure equipment safety during power fluctuations
- Four casters and two levelling feet for easy mobility and stable placement
- Ultra-low noise design for a quiet, environment-friendly operation
- Up to 40% energy savings with optimized power consumption
- Audio visual alarms for High/Low temperature, high ambient temperature, power failure, low battery, sensor failure, main board communication error, door ajar, condenser overheating & system failure
- Optional configurations available: Warning lamp, Smart temperature monitoring system, Temperature recorder, CO₂ backup system
- Equipped with twin compressor

Applications:

Upright Freezers is used in scientific research, cryogenic test on special materials, blood plasma cryopreservation, low temperature resistance test on biological materials, vaccines, biological products and military products, etc. and Suitable for use in research institutions, the electronic industry, the chemical industry, hospitals, the health & disease prevention system, laboratories in colleges & universities, military enterprises, etc.

Specifications:

Castors	4+ (2 levelling feet)
Display	Touch Screen
Shelves	03 pcs
Capacity	678 L

Compressor	02 pcs
Controller	Microprocessor
Inner Door	04 doors
Net Weight	330 kgs
Access Port	02 pcs, Ø 25 mm
Refrigerant	HC
Cabinet Type	Upright
Defrost Mode	Manual
Gross Weight	423 kgs
Climate Class	N
External Lock	Yes
Backup Battery	Yes
Cooling Method	Direct Cooling
External Material	Cold Rolled Steel
Internal Material	Stainless Steel
Temperature Range	-40 ~ -86 °
Door Lock with Key	Yes
Ambient Temperature	16 – 32 °
Cooling Performance	86 °
Insulation Thickness	130 mm
Package Dimension (W x D x H)	1203 x 1155 x 2171 mm
External Dimension (W x D x H)	1090 x 1025 x 1955 mm
Internal Dimension (W x D x H)	750 x 696 x 1286 mm
Data Logging /Interval /Memory Capacity	USB /Record every 5 minutes /10 years