



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

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

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:

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

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| 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 |