

**-86 °C Ultra Low Temperature Upright
Freezer LD-LUF-D12**

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Overview

-86 °C Ultra Low Temperature Upright Freezer LD-LUF-D1 Series is designed for stable, ultra-low temperature storage of sensitive materials, offering long-term preservation with consistent temperature control. Equipped with a precise microprocessor controller, it ensures accurate temperature regulation and system reliability. Its vertical structure allows efficient use of space while supporting organized sample management and easy accessibility. Built to maintain uniform conditions throughout the chamber, this freezer delivers dependable performance and meets the rigorous standards of modern cold storage environments.

Features:

- Energy-efficient cooling with eco-friendly hydrocarbon refrigerant
- Direct cooling system with single compressor and blower fan
- Vacuum Insulation panel and high-density polyurethane foam insulation
- Inner doors with tight seals to reduce frost and improve insulation
- Adjustable stainless-steel shelves for flexible storage
- Polyurethane insulation for temperature stability
- Low-noise operation for quiet performance
- Password protection to prevent unauthorized changes
- Secure door lock for restricted access
- External temperature probe access port
- Remote alarm contacts for external alerts
- Comprehensive alarm system alerts for high/low temperature, high ambient temperature, door ajar, power failure, and sensor errors
- Optional CO₂/LN₂ backup cooling system for emergencies
- Built-in data logger with USB port for record export (Only in LD-LUF-D10)

Applications:

This ultra-low temperature upright freezer is ideal for storing biological samples, vaccines, and pharmaceuticals, making it suitable for use in laboratories, hospitals, and biobanks.

Specifications:

Type	Upright
Casters	Yes
Defrost	Manual
Display	Electronic
Capacity	158 L
Compressor	1
Controller	Microprocessor

Inner Door	3
Net Weight	130 kgs
Refrigerant	Mixed gas
Climate Type	N
Gross Weight	160 kgs
Power Supply	220/120 V, 50/60 Hz
Safety Door Lock	N/A
Test Access Port	∅20 mm x 1
Exterior Material	Pre-coated steel
Interior Material	Stainless steel
Adjustable Shelves	2
Temperature Setting Range	-40 ~ -86 °C
Cabinet Insulation Thickness	120 mm
Temperature Display Accuracy	0.1
Packing Dimension (W x D x H)	780 x 800 x 1710 mm
External Dimension (W x D x H)	700 x 700 x 1580 mm
Internal Dimension (W x D x H)	460 x 455 x 800 mm