



**-86 °C Ultra Low Temperature  
Upright Freezer  
LD-LUF-D31**

-86 °C Ultra Low Temperature Upright Freezer LD-LUF-D31 is an upright type freezer comes with 408 L capacity and offers temperature range -40 to -86°C and -86°C cooling performance. Features with microprocessor-controlled system with interior 7 inches LED touch Screen temperature display to show various parameters simultaneously. Designed with direct cooling system and manual defrost mode, equipped with eco-friendly refrigerant Mixture gas, hydrocarbon two compressor cascade cooling system, Built-in high-precision microcomputer temperature control system and platinum resistor temperature sensors. It offers high or low temperature alarm, Door open alarm and Keyboard lock, password protection function to prevent arbitrary adjustment of operating parameters.

## Features:

- Adopts 7 inches LED touch screen display control system
- Inventory racks/boxes for cryopreservation are optional (02" Boxes Load: 500)
- Designed with high-precision microcomputer temperature control system and platinum resistor temperature sensors ensure more precise temperature control
- Temperature ranges from -40 to -86°C
- Hydrocarbon refrigeration system, energy-saving and highly efficient
- Six sides of the cabinet are made from high-performance vacuum insulation material, improving thermal insulation performance to a large extent
- The rotating handle facilitates door opening
- Universal wheels easy for movement and fixation
- Two-layer heat insulating foamed door with airbag-typed outer seal and the insulation
- Highly effective condenser to provide quick freezing
- Upright type, Exterior and inside body all made from stainless steel
- Design with safety door lock, ensure sample storage is more secure
- The perfect audible & visual alarm system high/low temperature, sensor failure, door open, and power failure etc.

## Applications:

Upright Freezers is used in scientific research, cryogenic test on special materials, 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, clinical labs, blood banks, hospitals, the health & disease prevention system, laboratories in colleges & universities, military enterprises, etc.

**Specifications:**

<b>Model No.</b>	<b>LD-LUF-D31</b>
Cabinet type	Upright
Capacity	408 L
Temperature range	-40 to -86 °C
Ambient temperature	10 to 32 °C
Cooling performance	-86 °C
Refrigerant	HC, CFC Free, Non greenhouse
Defrost Mode	Manual
Cooling method	Direct Cooling
Controller	Microprocessor
Display	7" Touch Screen
Compressor	Two, SECOP Compressor
System	Cascade System
Alarm system	High and low temperature, high ambient temperature, Power failure, Sensor error
External material	High quality steel plates with spraying
Inner material	SUS304
Shelves	3 pcs, Stainless Steel
Door lock with key	Yes
External Lock	Yes
Test Hole	1 pcs/25 mm
Casters	Yes
Backup Battery	72 Hrs
Rated current	8.43 A
Power consumption	845 W
Power supply	220 – 240 V, 50/60 Hz   110 V, 60 Hz
Internal dimension (W x D x H)	606 x 557 x 1180 mm
External dimension (W x D x H)	900 x 940 x 1940 mm
Package dimension (W x D x H)	955 x 960 x 2100 mm

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Net weight	292 kg
Gross weight	317 kg