

-40°C Upright Freezers

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-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:

Model no.	LD-LUF-B20
Casters	2+(2 levelling feet)
Drawers	3 (ABS)
Capacity	90 L
Compressor	1 pc
Net Weight	54 Kg
Access Port	1 pc. Ø 25 mm
Refrigerant	R290
Cabinet Type	Upright / Undercounter

Defrost Mode	Manual
Gross Weight	68 Kg
Climate Class	N
Backup Battery	Yes
Inner Material	Aluminium plate with spraying
External Material	PCM
Temperature Range	-20 ~ -40 °C
Door Lock with Key	Yes
Ambient Temperature	16 - 32 °C
Cooling Performance	-40 °C
Insulation Thickness	L/R:100, B:100 mm
Package Dimension (W x D x H)	765 x 735 x 935 mm
External Dimension (W x D x H)	700 x 669 x 854 mm
Internal Dimension (W x D x H)	500 x 485 x 532 mm
Data Logging/Interval/Memory Capacity	USB / Record every 10 minutes / 1000,000data

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Specifications:

Model no.	LD-LUF-B21
Casters	2+(2 levelling feet)
Drawers	7 (ABS)
Capacity	270 L
Compressor	2 pcs
Net Weight	98 Kg
Access Port	1 pc. Ø 25 mm
Refrigerant	R290
Cabinet Type	Upright

Defrost Mode	Manual
Gross Weight	106 Kg
Climate Class	N
Backup Battery	Yes
Inner Material	Aluminium plate with spraying
External Material	PCM
Temperature Range	-20 ~ -40 °C
Door Lock with Key	Yes
Ambient Temperature	16 - 32 °C
Cooling Performance	-40 °C
Insulation Thickness	L/R:100, B:100 mm
Package Dimension (W x D x H)	757 x 717 x 1865 mm
External Dimension (W x D x H)	700 x 640 x 1792 mm
Internal Dimension (W x D x H)	500 x 460 x 1235 mm
Data Logging/Interval/Memory Capacity	USB / Record every 10 minutes / 1000,000 data

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Specifications:

Model no.	LD-LUF-B22
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 °C
Door Lock with Key	Yes
Ambient Temperature	16 - 32 °C
Cooling Performance	-40 °C
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

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Specifications:

Model no.	LD-LUF-B23
Casters	4 (2 levelling feet)
Shelves	3
Capacity	528 L
Compressor	1 pc
Net Weight	234 Kg
Access Port	2pcs. Ø 25 mm
Refrigerant	R290
Cabinet Type	Upright

Defrost Mode	Manual
Gross Weight	305 Kg
Climate Class	N
External Lock	Yes
Backup Battery	Yes
Inner Material	Stainless steel / Galvanized steel (optional)
External Material	Cold rolled steel
Temperature Range	-20 ~ -40 °C
Door Lock with Key	Yes
Ambient Temperature	16 - 32 °C
Cooling Performance	-40 °C
Insulation Thickness	L/R:130, B:130 mm
Package Dimension (W x D x H)	1035 x 1165 x 2157 mm
External Dimension (W x D x H)	930 x 1041 x 1947 mm
Internal Dimension (W x D x H)	585 x 696 x 1266 mm
Data Logging/Interval/Memory Capacity	USB / Record every 10 minutes / 1000,000 data

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Specifications:

Model no.	LD-LUF-B24
Casters	4 (2 levelling feet)
Shelves	3 (stainless steel)
Capacity	778 L
Compressor	2 pcs
Net Weight	286 Kg
Access Port	3pc. Ø 25 mm
Refrigerant	R290
Cabinet Type	Upright

Defrost Mode	Manual
Gross Weight	378 Kg
Climate Class	N
External Lock	Yes
Backup Battery	Yes
Inner Material	Stainless steel / Galvanized steel (optional)
External Material	Cold rolled steel
Temperature Range	-20 ~ -40 °C
Door Lock with Key	Yes
Ambient Temperature	16 - 32 °C
Cooling Performance	-40 °C
Insulation Thickness	L/R:130, B:120 mm
Package Dimension (W x D x H)	1320 x 1155 x 2171 mm
External Dimension (W x D x H)	1205 x 1025 x 1955 mm
Internal Dimension (W x D x H)	865 x 696 x 1286 mm
Data Logging/Interval/Memory Capacity	USB / Record every 10 minutes / 1000,000 data

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- Utilizes advanced direct-cooling technology for efficient temperature management
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- Adjustable shelves and removable drawers for flexible organization of samples
- Quiet operation suitable for noise-sensitive environments
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Specifications:

Model no.	LD-LUF-B25
Casters	4 (2 levelling feet)
Shelves	3 (stainless steel)
Capacity	1008 L
Compressor	2 pcs
Net Weight	320 Kg
Access Port	2pc. Ø 25 mm
Refrigerant	R290
Cabinet Type	Upright

Defrost Mode	Manual
Gross Weight	440 Kg
Climate Class	N
External Lock	Yes
Backup Battery	Yes
Inner Material	Stainless steel / Galvanized steel (optional)
External Material	Cold rolled steel
Temperature Range	-20 ~ -40 °C
Door Lock with Key	Yes
Ambient Temperature	16 - 32 °C
Cooling Performance	-40 °C
Insulation Thickness	L/R:130, B:120 mm
Package Dimension (W x D x H)	1473 x 1155 x 2176 mm
External Dimension (W x D x H)	1360 x 1006 x 1980 mm
Internal Dimension (W x D x H)	1022 x 696 x 1378 mm
Data Logging/Interval/Memory Capacity	USB / Record every 10 minutes / 1000,000 data

- 40 Â°C Upright Freezers LUF-B30

- 40Â°C Upright Freezers LUF-B30 allows products to be stored between -20Â°C to -40Â°C. It offers internal chamber capacity of 590 L. It has been structured with absolute cooling options that makes it versatile and easy to use. Outer surface is made of galvanized sheet with electrostatic paint to prevent from rusting. The inner surface is produced of chrome nickel sheet which ensures a safe environment within it. Alarm feature ensures to send a signal, to avoid extreme unfortunate situations. Additional installation of thermal printer, helps in fetching numerical and graphical printout of the recorded data within the device.

Features:

- Door system with high density polyurethane filling offers good quality insulation with heating surface and magnetic seal rings to prevent permeability
- Cooling system is produced using the Direct Freeze technology with the cooling streamers that are placed right under the shelf
- Inner shelf system has been produced of stainless steel material
- It has been designed in ergonomics for speeding up the air circulation
- Deep freezer is insulated with high density polyurethane material
- Device works smoothly, maintaining an eco-friendly environment
- User-friendly digital control panel with a microprocessor, enables to keep the data in memory for 30 days
- An accumulator system gets charged automatically, at the control panel of the device
- Control panel and the thermal printer continue working for 24 hours during possible electrical cut offs
- Eco-friendly, CFC free compressor
- Two brakes and two regular castors for easy portability
- Complied with ISO and CE certificates

Applications:

It is fit enough to store various materials like blood plasma, reagents, vaccine, biological products, temperature sensitive items, etc. It is used in hospitals, clinics, blood banks, laboratories, food industry and at various places.

Specifications:

Model no.	LD-LUF-B30
Alarm System	Audio & Visual
Gross Volume	677 L
Gross Weight	165 kg
Power Supply	230 V, 50 Hz
Shelf System	3 Pcs of Cr-Ni Shelf
Control System	Microprocessor Control
Chamber Capacity	590 L

Refrigerant Gas	R404A
Temperature Range	- 20 °C to - 40 °C
Temperature Sensor	NTC
External Surface Structure	Epoxy-Polyester electrostatic painted stainless steel sheet
Internal Surface Structure	Stainless Steel
External Dimension with pallet	605 x 700 x 2010 mm
Insulation (Polyurethane without CFC)	100

-40°C Upright Freezer LUF-B40

The LD-LUF-B40 -40°C Upright Freezer is equipped with a microprocessor-controlled system featuring a dual LED display, providing real-time chamber temperature monitoring along with key operating status information, including controller lock, cooling operation and power supply status. The controller is positioned at eye level for convenient viewing and easy operation.

Features:

- Microprocessor control system
- High-efficiency cooling system
- Inner doors to minimize cooling loss
- Comprehensive visual and audible alarm system
- USB temperature data storage and download
- Password-protected operation
- Safety lockable door
- Remote alarm connection
- Adjustable stainless-steel shelves
- Ultra-quiet operation
- Optional online monitoring
- Environmentally friendly refrigeration system

Applications:

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Specifications:

Model no.	LD-LUF-B40
Type	Upright
Casters	4
Defrost	Manual
Display	LED digital, dual LED screen
Capacity	707 L
USB Port	Yes
Insulation	Polyurethane, 80 mm
Net Weight	205 kg
Inner Doors	4
Rated Power	550 W
Refrigerant	R290

Blower Brand	EBM
Cooling Type	Direct cooling
Gross Weight	265 kg
Power Supply	220 V/50 Hz; 220 V/60 Hz; 120 V/60 Hz
External Door	1
Door Open Alarm	Yes
Compressor Brand	SECOP
Safety Door Lock	Yes
Exterior Material	Pre-coated steel
Interior Material	Pre-coated steel
Low Battery Alarm	Yes
Temperature Range	-20°C to -40°C
Adjustable Shelves	3
Display Resolution	0.1°C
Inner & Outer Door	Forming door
Test / Access Port	Φ19 mm × 2
Power Failure Alarm	Yes
Remote Alarm Contact	Yes
Sensor Failure Alarm	Yes
Number of Compressors	1
Cloud Monitoring (Wi-Fi)	Optional
High/Low Temperature Alarm	Yes
Cabinet Insulation Thickness	90 mm
Packing Dimension (W × D × H)	1015 × 1020 × 2120 mm
External Dimension (W × D × H)	995 × 985 × 1910 mm
Internal Dimension (W × D × H)	740 × 730 × 1310 mm
Temperature Data Storage & Download	Yes

-40°C Upright Freezer LUF-B41

The LD-LUF-B40 -40°C Upright Freezer is equipped with a microprocessor-controlled system featuring a dual LED display, providing real-time chamber temperature monitoring along with key operating status information, including controller lock, cooling operation and power supply status. The controller is positioned at eye level for convenient viewing and easy operation.

Features:

- Microprocessor control system
- High-efficiency cooling system
- Inner doors to minimize cooling loss
- Comprehensive visual and audible alarm system
- USB temperature data storage and download
- Password-protected operation
- Safety lockable door
- Remote alarm connection
- Adjustable stainless-steel shelves
- Ultra-quiet operation
- Optional online monitoring
- Environmentally friendly refrigeration system

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Specifications:

Model no.	LD-LUF-B41
Type	Upright
Casters	4
Defrost	Manual
Display	LED digital, dual LED screen
Capacity	620 L
USB Port	Yes
Insulation	Polyurethane, 80 mm
Net Weight	181 kg
Inner Doors	4
Rated Power	550 W
Refrigerant	R290

Blower Brand	EBM
Cooling Type	Direct cooling
Gross Weight	220 kg
Power Supply	220 V/50 Hz; 220 V/60 Hz; 120 V/60 Hz
External Door	1
Door Open Alarm	Yes
Compressor Brand	SECOP
Safety Door Lock	Yes
Exterior Material	Pre-coated steel
Interior Material	Pre-coated steel
Low Battery Alarm	Yes
Temperature Range	-20°C to -40°C
Adjustable Shelves	3
Display Resolution	0.1°C
Inner & Outer Door	Forming door
Test / Access Port	Φ19 mm × 2
Power Failure Alarm	Yes
Remote Alarm Contact	Yes
Sensor Failure Alarm	Yes
Number of Compressors	1
Cloud Monitoring (Wi-Fi)	Optional
High/Low Temperature Alarm	Yes
Cabinet Insulation Thickness	90 mm
Packing Dimension (W × D × H)	1015×930×2120 mm
External Dimension (W × D × H)	995×895×1910 mm
Internal Dimension (W × D × H)	740×640×1310 mm
Temperature Data Storage & Download	Yes