



-86 °C ULTRA LOW TEMPERATURE CHEST FREEZERS
LD-LCF-D2 SERIES

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The -86 °C chest type ultra low temperature freezer has 7" LCD touch screen display. These ultra low temperature freezers are equipped with audio and visual alarm for power failure and system failure. It features advanced cooling powered by single compressor paired with user-friendly design. These -86 °C chest type ultra low temperature freezers also incorporate CFC-free polyurethane foam insulation, offering exceptional energy efficiency with minimal space usage.

Features

- 7" LCD large display touch screen with sensitive touch
- User-friendly human interface module for easy operation
- Real time operational status and temperature curve display for efficient monitoring
- Combines VIP (Vacuum Insulation Panel) with high-density polyurethane foaming insulation
- Stainless steel adjustable shelves
- Inner doors with seals for better insulation and reduced frost build-up
- Compliant with EPA and SNAP non-ozone depleting mandates
- Ultra-quiet design for reduced noise levels
- Equipped with auto heating and pressure release ports
- Uses CFC/HCFC-free refrigerants, reducing environmental impact
- Engineered for minimal energy consumption and reduced carbon emissions
- Comprehensive Alarm Systems for temperature, power failure and door status with sensor failure error
- Data storage & USB port for logging and download data for precise monitoring
- Remote alarm contacts and optional online monitoring
- Password protection prevents unauthorized access to critical parameters

Applications

-86°C chest-type ultra-low temperature freezer is ideally use in medical and clinical settings, food industries, blood banks, and research universities.

Specifications

Model No.	LD-LCF-D20	LD-LCF-D21	LD-LCF-D22
Cooling Technology	Single compressor	Cascade cooling	
Temperature Range	-40 to -86 °C		
Climate Type	N		
Capacity	130 L	495 L	746 L
Cooling Type	Direct Cooling		
Defrost	Manual		
Refrigerant	HC		
No. of Compressor	01	02	
Temperature Display Accuracy	0.1 °C		
Password Protection	Yes		
USB Port	Yes		
Audio/Visual Alarm	Yes		
High/Low Temp.	Yes		
Hot Condenser	Yes		
Power Failure	Yes		
Sensor Failure	Yes		
High Ambient Temperature	Yes		
Door Open	No	Yes	
Remote Alarm	Yes		
Inner Door	NA	02	
Casters	Yes		
Access Port	Φ20 mm x 2		
Safety Door Lock	Yes		

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Pressure Equalization Port	Manual	Auto x 01 & Manual x 01	
Internal Material	Stainless Steel		
External Material	Powder Coated Steel		
Insulation	Polyurethane		
Power Supply	110-220 V / 50/60 Hz		
Internal Dimension (W x D x H)	630 x 440 x 470 mm	1310 x 600 x 630 mm	1310 x 740 x 770 mm
External Dimension (W x D x H)	850 x 740 x 1023 mm	1930 x 780 x 900 mm	1930 x 997 x 1035 mm
Package Dimension	930 x 780 x 1160 mm	2010 x 880 x 1030 mm	2010 x 1095 x 1165 mm
Net Weight	98 kgs	225 kgs	275 kgs
Gross Weight	116 kgs	278 kgs	318 kgs

Optional Accessories

Sr. No.	Description
01	CryoMonitor
02	Chart Recorder
03	Freezer Rack
04	CO2/LN2 Backup System
05	Online Monitoring System