



# -86°C Ultra Low Temperature Chest Freezer LCF-D2 Series

## **-86°C Ultra Low Temperature Chest Freezer LCF-D20**

-86°C Ultra Low Temperature Chest Freezer LCF-D20 is an ergonomically designed ultra-low temperature chest freezer, offers 138 L of capacity and -86°C of cooling temperature. Features microprocessor control system and platinum resistor temperature sensors for -40 to -86°C of adjustable temperature range. Equipped with branded compressor and EBM fan, has unique refrigeration circulation and unipolar compressor oil-lubricated technology. Incorporated with direct cooling method and manual defrost mode, is provided with mixture gas refrigerant and 2-times foaming technology. Designed with steel plates with spraying exterior and stainless-steel interior, has digital display, and advanced alarm system. With keyboard lock and password protection to prevent unauthorized access, also supports delayed start and safe stop interval along with USB temperature recorder and back-up battery.

## **-86°C Ultra Low Temperature Chest Freezer LCF-D21**

-86°C Ultra Low Temperature Chest Freezer LCF-D21 is an ergonomically designed ultra-low temperature chest freezer, offers 328 L of capacity and -86°C of cooling temperature. Features microprocessor control system and platinum resistor temperature sensors for -40 to -86°C of adjustable temperature range. Equipped with branded compressor and EBM fan, has unique refrigeration circulation and unipolar compressor oil-lubricated technology. Incorporated with direct cooling method and manual defrost mode, is provided with mixture gas refrigerant and 2-times foaming technology. Designed with steel plates with spraying exterior and stainless-steel interior, has digital display, and advanced alarm system. With keyboard lock and password protection to prevent unauthorized access, also supports delayed start and safe stop interval along with USB temperature recorder and back-up battery.

## **-86°C Ultra Low Temperature Chest Freezer LCF-D22**

-86°C Ultra Low Temperature Chest Freezer LCF-D22 is an ergonomically designed ultra-low temperature chest freezer, offers 668 L of capacity and -86°C of cooling temperature. Features microprocessor control system and platinum resistor temperature sensors for -40 to -86°C of adjustable temperature range. Equipped with branded compressor and EBM fan, has unique refrigeration circulation and unipolar compressor oil-lubricated technology. Incorporated

with direct cooling method and manual defrost mode, is provided with mixture gas refrigerant and 2-times foaming technology. Designed with steel plates with spraying exterior and stainless-steel interior, has digital display, and advanced alarm system. With keyboard lock and password protection to prevent unauthorized access, also supports delayed start and safe stop interval along with USB temperature recorder and back-up battery.

## Features

- ❑ An ergonomically designed ultra-low temperature chest freezer, convenient operation
- ❑ -86°C of cooling temperature, stable performance with targeted refrigeration
- ❑ Microprocessor control system and platinum resistor temperature sensors
- ❑ -40 to -86°C of adjustable temperature range with precise temperature control
- ❑ Branded compressor and EBM fan, efficient operation with low noise
- ❑ Unique refrigeration circulation and unipolar compressor oil-lubricated technology
- ❑ Direct cooling method and manual defrost mode, uniform and stable operation
- ❑ Mixture gas refrigerant and 2-times foaming technology, environment-friendly
- ❑ Steel plates with spraying exterior and stainless-steel interior, low maintenance
- ❑ Digital display with keyboard lock and password protection, safe and secure operation
- ❑ Advanced alarm system and delayed start and safe stop interval, reliable operation
- ❑ Supports USB temperature recorder and back-up battery, facilitate temperature recording
- ❑ High-efficient, stable and reliable unit with high-efficient refrigeration system

## Application

-86°C Ultra Low Temperature Chest Freezer is used across hospitals, health and epidemic prevention system, scientific research institutes, biological engineering, laboratory in colleges and universities, military industrial enterprises, etc.

## Specifications (LCF-D20 and LCF-D21)

Model	LCF-D20	LCF-D21
Cabinet Type	Chest	
Capacity	138 L	328 L
Temperature Range	-40 to -86°C	
Ambient Temperature	16 to 32°C	
Cooling Performance	-86°C	
Cooling Method	Direct Cooling	
Defrost Mode	Manual	
Refrigerant	Mixture Gas	
Climate Class	N	
Controller	Microprocessor	
Display	Digital Display	
Compressor	1 pc	
Alarm System	High/Low temperature, High ambient temperature, Power failure , Low battery, Sensor failure, Condenser overheating alarm, Built-in datalogger USB failure, Main board communication error	
External Material	Steel plates with Spraying	
Internal Material	Stainless-steel	
Insulation	152 mm	
Casters	4	6
Door Lock with Key	Yes	
Access Port	1 pc $\Phi$ 40 mm	
Data Logging/Interval/ Recording Time	USB/Record every 10 minute / 2 years	
Backup Battery	Yes	
Protection Function	Delayed start and safe stop interval protection, keyboard lock and password protection	

Power Supply	220 to 240 V, 50 Hz	
Rated Current	5.78 A	5.6 A
Internal Dimension (W×D×H)	490×470×580 mm	1200×470×570 mm
External Dimension (W×D×H)	1320×890×1030 mm	2030×890×1020 mm
Packaging Dimension (W×D×H)	1470×990×1241 mm	2193×1003×1256 mm
Net Weight	200 kg	280 kg
Gross Weight	231 kg	328 kg

## Specifications (LCF-D22)

Model	LCF-D22
Cabinet Type	Chest
Capacity	668 L
Temperature Range	-40 to -86°C
Ambient Temperature	16 to 32°C
Cooling Performance	-86°C
Cooling Method	Direct Cooling
Defrost Mode	Manual
Refrigerant	Mixture Gas
Climate Class	N
Controller	Microprocessor
Display	Digital Display
Compressor	2 pcs.
Alarm System	High/Low temperature, High ambient temperature, Power failure , Low battery, Sensor failure, Condenser overheating alarm, Built-in datalogger USB failure, Main board communication error
External Material	Steel plates with Spraying
Internal Material	Stainless-steel
Insulation	130 mm

Casters	6
Door Lock with Key	Yes
Access Port	1 pc $\Phi$ 40 mm
Data Logging/Interval/ Recording Time	USB/Record every 10 minute / 2 years
Backup Battery	Yes
Protection Function	Delayed start and safe stop interval protection, keyboard lock and password protection
Power Supply	220 to 240 V, 50 Hz
Rated Current	9.5 A
Internal Dimension (WxDxH)	1200x815x610 mm
External Dimension (WxDxH)	2033x1190x1037 mm
Packaging Dimension (WxDxH)	2145x1305x1234 mm
Net Weight	352 kg
Gross Weight	398 kg

## Standard Accessories

Accessories no.	Name
1	RS485
2	Remote alarm contact

## Optional Accessories

Accessories no.	Name
1	Chart recorder
2	CO <sub>2</sub> backup system
3	Printer