

ULTRA LOW TEMPERATURE FREEZER

CHEST (-10°C to -86°C)

LABEC Ultra Low Temperature Chest Freezer combines a reliable cooling system together with a unique door sealing system (perfect fit system®).

Not the -86°C freezer itself, but the samples stored in it are the most important issue for a customer. For this reason Labec only chooses the most reliable components available in the world. The reliable proven bristol compressors are used in a unique cascade system with very low pressures and a completely sealed cooling system.

The Labec Ultra Low Freezer is a very durable and reliable system with an extremely low noise level (around 50dBA). This low noise level is created by a very efficient and effective use of the cascade compressor system with non CFC refrigerants.

Labec creates the safest environment for your samples, due to its temperature and power alarms, standard dry contacts and an attractive priced optional CO₂ back-up system.

FEATURES:

- Hermetically sealed cooling system with very durable compressors.
- Cold air loss is minimized by insulated inner doors.
- Efficient evaporator with maximum contact with walls for fast cooling down.
- 130mm polyurethane foamed insulation.
- Heavy-duty casters with built-in adjustable stands.
- Cabinet with round corners for easy cleaning.
- 3 Built-in access ports.
- Very user-friendly control panel on eye level.
 - Easy to clean condenser filter.
- Pressure equalization port allows easy access to cabinet after door closing.
- Quiet running fans and compressors create a very low noise level (+/- 50 dBA).
- Heated door seals (hot gas) prevents ice build up.
- Light adjustable HDPE shelf with air circulation hole (No wrenched in -120°).



Model shown with optional chart recorder



Laboratory Equipment Pty Ltd

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email: sales@labec.com.au

Ph: 02 9560 2811 • Fax: 02 9560 6131

www.labec.com.au

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>> Perfect adiabatic System

High pressure polyurethane insulation system (130mm insulation) keeps the cold temperature in, decreases electric power consumption and increases the life of the freezer.



>> Three door airtight gasket

The triple gasket system blocks the air from outside, increasing efficiency of the freezer, decreasing the maintenance expense by using one sealing gasket on the chamber and two sealing gaskets on the door.

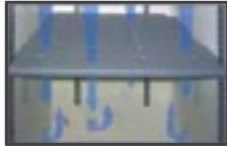


Microprocessor controls monitor

Convenient voltage checking

>> Control Panel

Control Panel is central and easily accessible.



>> Adjustable shelf

Shelves are fully adjustable with small holes to provide uniform temperature in the freezer.



Automatic
Open &
Closed

>> Safety door lock device

If the pressure of CO₂ exceeds its maximum permissible pressure whilst using the CO₂ back-up system the safety door lock device will help to maintain even pressure to protect users and their samples from explosion.



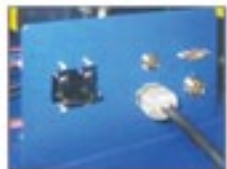
Ultra - Low Chest
Temperature Freezer
-86°C

>> Dialing System

Model No: DS0119



1. Automatic alarm signal and sound when alarm system is working.
2. Automatic dial contact to five telephone numbers as per customers setting.
3. 30 seconds voice message recording function.
4. 4 hours back-up battery in case of electricity power failure.



>> RS-232 port / Remote alarm port

RS-232 for connection to a PC allows remote alarming and monitoring.



>> Refrigeration system

High power 1/2-1hp compressor is applied with extra running condenser, so refrigeration system can be used with maximum power. This system helps to concentrate on decreasing power for quiet operation (50dB).



>> Status fix/wheel adjustment

Wheels are fitted to allow easy movement of the freezer.



>> Service Port

Access ports allow cables or thermocouples into the chamber.



>> Electrical box

Electrical parts are easily accessible.



>> Recorder

By recording freezer chamber temperature, customer can keep a permanent record.

Serving the Scientific, Medical and Research industries since 1945

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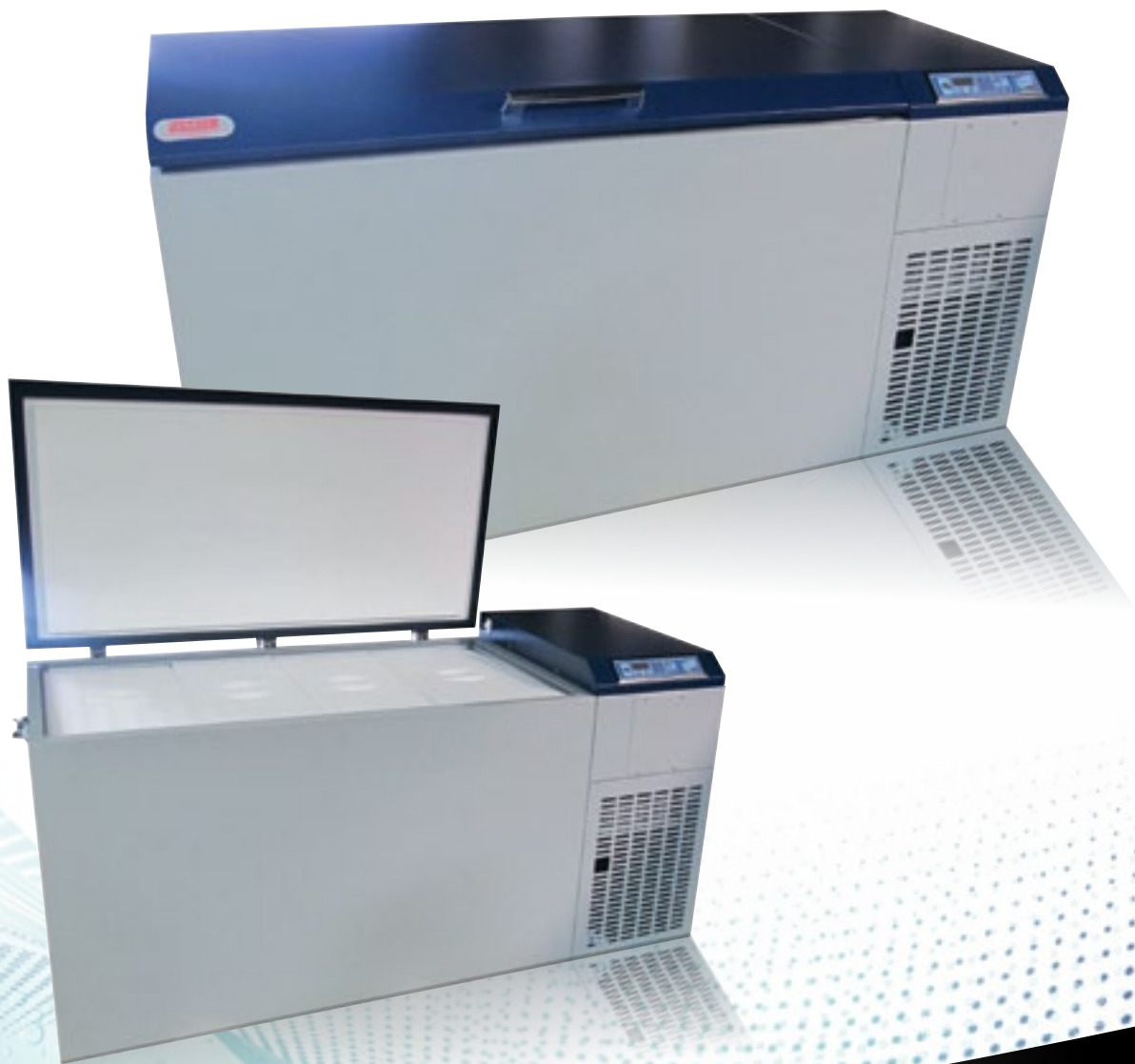
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SPECIFICATIONS

ULTRA LOW TEMPERATURE FREEZER CHEST (-10°C to -86°C)

Model	I-DF9007	I-DF9010	I-DF9014	I-DF9017	I-DF9020
Int. Dim. (mm) HxWxD	670 x 570 x 500	670 x 870 x 500	670 x 1170 x 500	670 x 1470 x 500	670 x 1770 x 500
Ext. Dim. (mm) HxWxD	1030 x 1280 x 790	1030 x 1590 x 790	1030 x 1880 x 790	1030 x 2180 x 790	1030 x 2480 x 790
Refrigeration	1/2 HP				1 HP
Temp. Min	-86°C				
Temp. Max	-40°C				
Capacity (L)	191	295	392	492	593
Weight (kg)	185	205	230	255	285



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