

Ultra Low Deep Freezer Series (-70°C to -86°C) Ultra-low Temperature Freezer series



- Capacity 100 liters to 700 liters in ULF/UDF series with Noise Level from 55db. to 65db.
- Triple point gasket for No cooling loss.
- Two lockable doors.
- Cascade refrigeration system.
- CFC Free PUF Insulation forst free (Untill door open for long duration)
- Battery backup for display & alarm system.
- Lockable, Eye Level Envirosan (-86°C & -40°C).
- Temperature display of both compressors (-86°C).
- Printing system for temp records as standard, in all models.
- USB port for remote data recording with Graphical & Numeric temperature records of three to six months (Optional)



Canister (FFP Storage)

Electrical Safety Compliant (IEC 61010-1-2010)



The Ultra-deep Temperature Freezer offers a wide variety of research and storage applications, such as low temperature scientific experiments, preservation of red blood plasma, white blood cell, skin, bone, bacteria, semen, biomedical product, ocean product, electronic devices, and low temperature testing of special materials. It is suitable for blood banks, hospital, sanitation and antiepidemic stations, electronic industries, university laboratories, defence applications.

Insignia freezer cabinets are specially designed for low temperature use.

Each low profile cabinet is formed by the insertion of an inner chamber into an outer shell surrounded by high density, CFC free, foamed in place urethane, insulation in combination with two time foaming technique is used and it can protect isolation layer from being damaged by low temperature which is in the world's lead in the aspect of temperature conservation, 155 mm extra thick insulation effectively reduces loss of cold air, imported compressor with high efficiency. CO2 backup port (optional at extra cost).

Advanced refrigeration system assures unprecedented reliability for critical storage applications with ± 3 degree of variation in each shelf.

Two semi-hermetic imported compressors connected through cascade refrigeration system configured for ultra-low freezers, and scientifically matched for motor size and displacement required for efficient operation.

Refrigerants are formulated to achieve design operating temperatures by cooling the load as well as the system components.

Separated inner and outer doors prevent cold air leakage and promote excellent heat insulation. Automatic closing of the front door below a opening angle of 90 deg.

Digital temp. display with 0.1°C graduation & Temp. Stability each Shelf $\pm (0.5^\circ\text{C})$



Microprocessor Control

Insignia freezer is simple to use yet sophisticated in performance. Features include direct digital setpoint and display, a keyed power and alarm switch, and touchpad data entry for adjustable temperature and alarm settings.

Audible and visual alarms notify user of deviation beyond adjustable high & low parameters (History available).

- Password Protected
- Extreme Ambient Temp Alarm with indication
- High & Low Temp. Alarm with indication (Optional)
- Power Fail alarm with indication
- Low battery alarm with indication
- Clean filter alarm with indication
- Door open alarm with indication
- Voltage boost facility built in.
- Remote Alarm connection.

Models	Series	Effective Capacity	Shelves	Inside Temp.	Input Power/Single Phase
UDF	100 X	100 Ltr.	2	-70°C to -86°C ($\pm 3^\circ\text{C}$)	220-240 VAC/50 Hz
UDF	200 X	200 Ltr.	2	-70°C to -86°C ($\pm 3^\circ\text{C}$)	220-240 VAC/50 Hz
UDF	300 X	300 Ltr.	3	-70°C to -86°C ($\pm 3^\circ\text{C}$)	220-240 VAC/50 Hz
UDF	360 X	360 Ltr.	3	-70°C to -86°C ($\pm 3^\circ\text{C}$)	220-240 VAC/50 Hz
UDF	400 X	400 Ltr.	4	-70°C to -86°C ($\pm 3^\circ\text{C}$)	220-240 VAC/50 Hz
UDF	560 X	550 Ltr.	5	-70°C to -86°C ($\pm 3^\circ\text{C}$)	220-240 VAC/50 Hz
UDF	600 X	600 Ltr.	6	-70°C to -86°C ($\pm 3^\circ\text{C}$)	220-240 VAC/50 Hz
UDF	700 X	700 Ltr.	7	-70°C to -86°C ($\pm 3^\circ\text{C}$)	220-240 VAC/50 Hz

NOTE : Temp. Weekly Thermograph if desired, can be affixed at no extra cost.



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ISO 9001:2008 Certified
WHO-GMP Certified