

# ULF SERIES

## Ultra Low Temperature Freezer

(-30°C to -40°C)  
Fast Freezing (Optional)



- Inner chamber of high grade 304 st. steel outer powder coated.
- Capacity 100 Litres to 700 Litres nett. (Vertical/Horizontal).
- Temperature range -30°C to -40°C ( $\pm 2^\circ\text{C}$ ).
- Ambient temp. alert built in (Settable).
- Double door having 5 nos. compartments  $\bar{c}$  individual door of each for 300 Liters & above.
- Low noise level < 45 - 50 db.
- Password protected temperature display & control system.
- Battery back up of 10 hours in case of power fail.

**Electrical Safety Compliant (IEC 61010-1-2010)**



Ultra Low Temperature Freezer offers a wide variety of research and storage applications, such as low temperature scientific experiments, preservation of blood plasma, white blood cell, laboratory samples, biomedical product and low temperature testing of special materials. It is suitable for blood banks, and antiepidemic stations, hospital laboratories.

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, foam in place urethane, insulation in combination with two time foaming technique is used and it can protect outer layer from being damaged by low temperature 100 mm extra thick insulation effectively reduces loss of cooling with, best globally available compressor & accessories. CO2 backup part (optional at extra cost).

A full load of plasma packs at ambient temp. takes max. 5 hours for all the pack to reach below -5°C and 30 hours to reach -20°C. A full load of plasma packs at -30°C takes at least one hour to rise above -20°C and 32 hours to rise to above -5°C.



**Storage Racks**

Advanced refrigeration system assures unprecedented reliability for critical storage applications.

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

Refrigerant is 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°C.

### Microprocessor Control

Insignia freezer is simple to use yet sophisticated in performance. Features include direct digital setpoint and display, alarm mute 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).

- Extreme Ambient Temp. Alarm with indication
- High & Low Temp. Alarm with indication
- Power Fail alarm with indication
- Low battery alarm with indication
- Door open alarm with indication
- Rounded corner, for ease of cleaning of inner chamber.
- Sturdy handle with locking facility.
- Extra safety features built in as M.C.B. with manual defrosting.
- Storage racks 10 Nos. as standard with built in dividers (optional accessory)

Models	Series	Effective Capacity	Shelves	Inside Temp.	Input Power/ Single Phase
ULF	200 X	200 Ltr	2	-30°C to -40°C	220-240 VAC/50 Hz
ULF	300 X	300 Ltr	3	-30°C to -40°C	220-240 VAC/50 Hz
ULF	360 X	360 Ltr	3 to 6	-30°C to -40°C	220-240 VAC/50 Hz
ULF	400 X	400 Ltr	4 to 6	-30°C to -40°C	220-240 VAC/50 Hz
ULF	500 X	500 Ltr	4 to 6	-30°C to -40°C	220-240 VAC/50 Hz
ULF	600 X	600 Ltr	5 to 6	-30°C to -40°C	220-240 VAC/50 Hz
ULF	700 X	700 Ltr	6	-30°C to -40°C	220-240 VAC/50 Hz

NOTE : Temp. Thermograph if desired, can be affixed at no extra cost with battery backup.



Regd. Office : K-33/B-8, IInd Floor, Lajpat Nagar-II, New Delhi-110024, INDIA  
 Telefax : +91-11-26843066 Mobile : +91-9810049508  
 E-mail : insig\_in@yahoo.com, insigniainternational@gmail.com  
 Website : www.insigniainternational.in



**ISO 9001:2008 Certified**  
**WHO-GMP Certified**

(Product design & Specifications could be altered without prior information) Printed (May 2016)