



cryo scientific
systems (pvt) Limited

ICE LINED REFRIGERATORS & ICE LINED FREEZERS



Salient Features:

1. Fool-proof preservation for Biological samples, vaccines, precious medicines etc.
2. Large body of brine for more than 24 Hours back up.
3. No worry about sample safety due to frequent power cuts.
4. Low power consumption, suitable for dusty & remote places.
5. Plug & play and Maintenance free, No need for installation.

Technical Specification

Product	Ice Lined Refrigerator (ILR) / Ice Lined Freezer (ILF)	
Temperature Range	2°C to 8°C / Up to -22°C	
Model	ILR-125 / ILF-125	ILR-300 / ILF-300
Useful inner dimension	500 (w) x 500 (l) x 500 (h) mm	970 (w) x 500 (l) x 600 (h) mm
Overall outer dimension	720 (w) x 720 (l) x 1050 (h) mm	1515 (w) x 740 (l) x 860 (h) mm
Capacity	125 Litres	300 Litres
Temperature Holding Time	ILR - 24 Hours** from 2°C to 10°C ILF - 24 Hours** from -20°C to -5°C	
Construction	Triple walled construction	
Inner Chamber	Stainless Steel 304, 18 SWG (1.2mm), tig welded to the middle chamber	
Middle Chamber	Galvanised Steel	
Outer Chamber	Made of Powder Coated CRCA sheet, with Latch, Lock & Key	
Insulation	75 mm thick PUF insulation between the middle and outer chamber	
Sub-doors	Made of Polyrexine of 40 mm thickness	
Hot Line	Anti-condensation using hot line at the mouth of the cabinet	
Compressor	Hermetically sealed compressors from Tecumseh/Emerson	
Refrigerant	Non-CFC, Non-HCFC, eco-friendly(R-134A)	
Coolant	Brine of Ethylene Glycol	
Combi-Condenser	Skin condenser on inner lining of external body + Air-cooled type condenser with grooved Aluminium fins for effective heat transfer	
Copper coils	99.97% pure copper coils	
Controller	Microprocessor based, with digital display from Dixell, Italy	
Temperature Recorder	Micro processor based Weekly Circular Chart type (Optional)	
Sensor	Fast response NTC Thermistor sensor	
Alarm	Audio-visual alarm for Temp rise, Low battery	
Battery Back up during power failure	Inverter circuit for continuous display of temperature and recording (10 to 12 hours approx) with auto recharging, battery OK indication	
Safety	Fuses for Compressor and Temperature Controller	
Stabilizer Built in	Automatic Hi / Low voltage cut-off and time-delay restart	
Power rating	15 Amps, 230 V, 1 Phase, 50 Hz	
Electrical Energy	2 KWH/day	3.5 KWH/day
Package Size	855 (w) x 880 (l) x 1200 (h) mm	1605 (w) x 890 (l) x 1010 (h) mm

** With a minimum of 15 Kg. Load (equivalent to water)

Designed, Developed and Manufactured only by:

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