



# MARK ENTERPRISES

## Ice Lined Blood Bank Refrigerator



Make: MarkEn  
Model: MILR-01



**Certifications:**

IEC 60529-2004, IP69, ISO:45001:2018, ISO 14001:2015, ISO 9001:2015, BIFMA INTERNATIONAL, BIFMA, CE, ISO 13849-1:2015, ISO 13485:2016, WHO-GMP,USFDA,

**Factory Add:** Shed No.1, Plot No.93/2, Street No.17, Satpur, MIDC, Nashik-422007.Maharashtra. India.

**Contact us:**

**Web:** [www.markent.co.in](http://www.markent.co.in), **Email:** [info@markent.co.in](mailto:info@markent.co.in), **Cont No.:**+91 9309967021

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When storing blood and plasma it's important to choose a refrigerator or freezer that is designed specifically for the demands of blood and plasma storage. Whether it's a concern with temperature variation impacting sensitive materials, size, sound, energy use, Clean Room compliance, or all of the above and more, we have the blood and plasma storage solutions for your blood bank.



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The MarkEn Ice Lined Blood Bank Refrigerator is designed to store 30 pcs of 450ml blood bags by stable and reliable temperature control utilizing MarkEn original technology. A special highly efficient compressor designed and developed by MarkEn provides rapid cooling and quiet performance for each model. Ideally suited for whole blood storage with stable and reliable temperature control for various inventory loads.



MarkEn Ice Lined Blood Bank Refrigerators with a highly efficient compressor that provides superior temperature recovery, rapid cooling and quiet performance for each model. Designed with all the features for blood product preservation such as superior uniformity, microprocessor control, and large flexible storage capacity. Whatever your preservation needs are, MarkEn provides the right equipment to meet your exact needs.



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## Features:

- ▶ Interior and exterior both made up of 18/10 AISI 304 Stainless steel
- ▶ Internal corners are rounded for easy cleaning and internal bottom is tray type to contain spills
- ▶ High density polyurethane insulation
- ▶ Insulation thickness: 80-95 mm
- ▶ The door is provided with a removable magnetic rubber gasket. The handle is realized in aluminum, integrated in the door profile
- ▶ The door is also fitted with aspirating loaded automatic closing device for less than 90° opening of the door, and a special door switch that stops the internal ventilation when the door is opened to reduce the loss of cold air
- ▶ AISI 304 18/10 Stainless steel drawers. The drawers are mounted on special ball-bearing anti-tilt telescopic stainless steel slides which enables easy opening and closing of the drawers.
- ▶ The Drawers are divided internally into 3 columns and fitted with 6 adjustable plastic dividers for ease of storage
- ▶ Control panel: Microprocessor operating with soft-touch pads and LCD display. The main functions of the control panel are :
  - Digital temperature display with an accuracy of 0.1°C
  - Keyboard: password protected with automatic locking
  - Back-up Battery for Temperature Display and Alarm Monitoring System with automatic recharging.
  - Muting facilities for the acoustic alarms
  - Alarms memory not deletable for the last 30 alarm conditions
  - Events memory with the possibility of checking from the display, defrosting, door openings, relays status, etc
  - Icon based menu
  - Real-time graphical temperature chart



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# Ice Lined Blood Bank Refrigerator



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**Model: MILR-01**

- ▶ Cooling unit : Condensing unit compounded by hermetically sealed compressor and a finned air cooled condenser
- ▶ USFDA Approved product
- ▶ Refrigeration: Forced-air circulation
- ▶ Ice Pack Compartment: - Built in Ice compartment for maintaining temperature.
- ▶ Defrosting: Completely automatic, thermostatcontrolled
- ▶ Temperature Sensor: PT100
- ▶ Temperature Holdover Time: 72 Hrs
- ▶ RS485 Interface/USB
- ▶ Combi-Condenser: - Skin condenser on inner lining of external body + Air- cooled type condenser with grooved Aluminum fins for effective heat transfer.
- ▶ Safety functions: Visual and acoustic alarm for high and low temperature, door open, power failure, battery discharged, evaporator, sensors failure
- ▶ Optional:
  - Extra wire shelf
  - Stainless steel drawer
  - Front top for drawers
  - Safety Fuse for Equipment
  - Safety door lock withkey
  - Graphic Temperature chart recorder
  - Data-logging function through USB port with direct download of Excel file
  - Power Switch:- Regular ON/OFF Switch
  - Ballasted sensor for simulation of product temperature alarm
  - Cable port with cover
  - Different voltage



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## Technical Specification of Ice Lined Blood Bank Refrigerator

○ Make	MarkEn
○ Model	MILR-01
○ Capacity of Blood Bags (450 ml)	30 Bags
○ Internal Dimensions (WxDxH) in mm	400x475x615
○ External Dimensions (WxDxH) in mm	815x740x1260
○ Construction Type	Vertical (Upright)
○ Temperature Range	+2°C to +6°C adjustable with setting accuracy of $\pm 0.1^{\circ}\text{C}$
○ Ambient Temperature Range	-10°C to 43°C
○ Temperature Control	Microprocessor Based Controlled
○ Display	Digital Monitoring LED/LCD
○ No of Drawers	02/03 Stainless steel 304 removable
○ Temperature	Preset at $4^{\circ}\text{C} \pm 0.1^{\circ}\text{C}$
○ Temperature Alarm	High $6^{\circ}\text{C}$ & Low $2^{\circ}\text{C}$ , Audio Visual Alarm
○ Internal Body Material	Stainless Steel 304 18 gauge ( AISI Grade, Non Corrosive, Non Magnetic )
○ External Body Material	Corrosion Resistance Powder Coated CRCA Steel
○ Refrigerant	CFC free
○ Panels-	polyurethane foam insulation 80 mm
○ Chart Recorder	7 Days Inkless Chart Recorder
○ Illumination	Fluorescent Lamp
○ Noise Level	Less Than 65 db(A)
○ Battery Backup for Display and alarm monitoring system	24 Hours In-Built Battery back-up
○ Alarm	Audible and visual alarm system for over and under temperature, sudden power failure, system failure, Door open and battery low
○ Castor Wheel	Four Lockable castor wheel
○ Electrical	220-240 Volts, 50 Hz, SINGLE PHASE



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