

## Laboratory Refrigerator

**MarkEn** Make Laboratory Refrigerators designed for safe and uniform storage temperature control that are precisely regulated for medicinal storage and storage for pharmaceuticals, Medicines, Vaccines and other Temperature-Sensitive Applications.

### FEATURES:

Temperatures Range of +2°C to +8°C.

#### User-friendly Design

The ergonomic design of the MarkEn Laboratory Refrigerators has ergonomic design and provides a clear view of stored items through the large glass door with key lock to prevent unauthorized access.

Designed for tropical climates.

#### Safe & Secure storage

Programmable audible and visual alarms for abnormal temperature with Password Protection to Control Panel to avoid accidental changes.

Compression Cycled type.

All system tubing-Suction- Freezer-Condensing Tubing of minimum 99.97% of pure Copper.

Provision of Defrosting.

Thermostat (NTC) to prevent from Freezing the Vaccine.

Designed for minimum 10 years life with assurance of spare parts availability.

Electrical Safety Standards IEC 61010, IEC 60335-1 and IEC 60335-2-24

### ACCESSORIES :

Stem Alcohol Thermometer.

Servo Controlled Voltage Stabilizer with Automatic High-Low Voltage cut-off and Time Delay Restart

**MAKE: MarkEn**  
**Model: MLR-04**



### Quality Assurance:

USFDA, IEC 60529-2004, ISO:45001:2018, ISO 14001:2015, ISO 9001:2015, ISO 13849-1:2015, ISO 13485:2016, BIFMA INTERNATIONAL, WHO-PQS, WHO-GMP, CE (European notified body 4 digit).

Technical Specifications of Laboratory Refrigerator	
▪ Make	MarkEn
▪ Model	MLR-04
▪ Capacity in Liter	450 Litres
▪ Type of Cabinet	Vertical/Upright
▪ Color	White
▪ Outer Middle Material of Cabinet	Mild steel /GI powder coated steel (18swg)
▪ Inner Material of Cabinet	Stainless Steel 304 for Durable unbreakable Construction.
▪ PUFF Insulation- CFC free	Cabinet: 75 mm
	Door : 50 mm
▪ Ground Clearance	100 mm
▪ Door	Glass Single/ Double Door with Handel and Key Lock.
▪ Inner Shelves/Basket	05 to 06 Nos.
▪ Compressor	Hermetically sealed compressor
▪ Refrigerants	CFC-HCFC-Free non flammable refrigerants. R 134a
▪ Condensing	Force Air Circulation.
▪ Dimensions ( WxDxH) in mm	Outer: 592x977x1981
	Inner: 460x719x1301
▪ Pull down time in with full load	08 Hrs
▪ Holdover time with full load	1.5 Hrs
▪ Operating Temperature Range	+2°C to +8°C adjustable with setting accuracy $\pm 0.1^{\circ}\text{C}$
▪ Environmental Condition	Maximum -10°C to +55°C with Humidity 5% to 95% RH
▪ Control System	Fully programmable microprocessor controlled with membrane keypad and Password Protected.
▪ Temperature Monitoring System	Data Logger with Inkless Temperature Recorder.
▪ Display	Digital Temperature Display .
▪ Temperature uniformity	$\pm 1^{\circ}\text{C}$ or Less
▪ Alarms	Audible and visual alarm system for over and under temperature, sudden power failure, and battery low
▪ Battery Backup	12 Hrs Battery Backup for Digital Display, Total Alarm system, Temp. recording system with auto recharging facility.
▪ Noise level	$\leq 55$ db
▪ Power Consumption rate-	Stable Running: 2.040 kWh/24Hrs Cool Down Test:2.30kWh/24Hrs.
▪ Net weight	135 kg
▪ Input or Power supply	220-240 VAC, 50 Hz $\pm 10\%$