



ICE LINED REFRIGERATOR



Quality, Management, Environment, Health & Safety Standards



CDSCO Certified



USFDA Listed



European CE



ISO 13485:
NABCB/IAF



ISO 9001: IAF



7 Electric Safety
Certifications

INTRODUCTION

The MarkEn Ice Lined Refrigerator (ILR) is designed to ensure precise temperature control, eliminating the risk of freezing vaccines. With energy-efficient technology, it maintains a temperature holdover of 24 hours and requires just 8 hours of daily power to operate. The high-tech energy management system and optimized refrigeration design ensure superior temperature stability, even in challenging conditions.

KEY FEATURES



Optimal Temperature Control – Maintains +2°C to +8°C in ambient temperatures ranging from -10°C to +43°C.



Reliable in Unstable Power Conditions – Ideal for areas with inconsistent electricity supply where standby power is unavailable.



Tropical Climate Ready – Built with green-based technology for superior performance in warm environments.



Anti-Condensation Hot Line – Prevents moisture buildup around the cabinet opening.



Energy-Efficient Refrigeration – Compression cycle system ensures efficient and consistent cooling.



Remote Temperature Monitoring – Integrated GPS-enabled monitoring device sends temperature deviation alerts via SMS and email to relevant authorities. A QR code allows tracking via the manufacturer's app.



Eco-Friendly Refrigeration – CFC-free cooling and insulation to ensure an environmentally safe operation.



Superior Build Quality – All suction, freezer, and condensing tubing made from 99.97% pure copper for durability and efficiency.



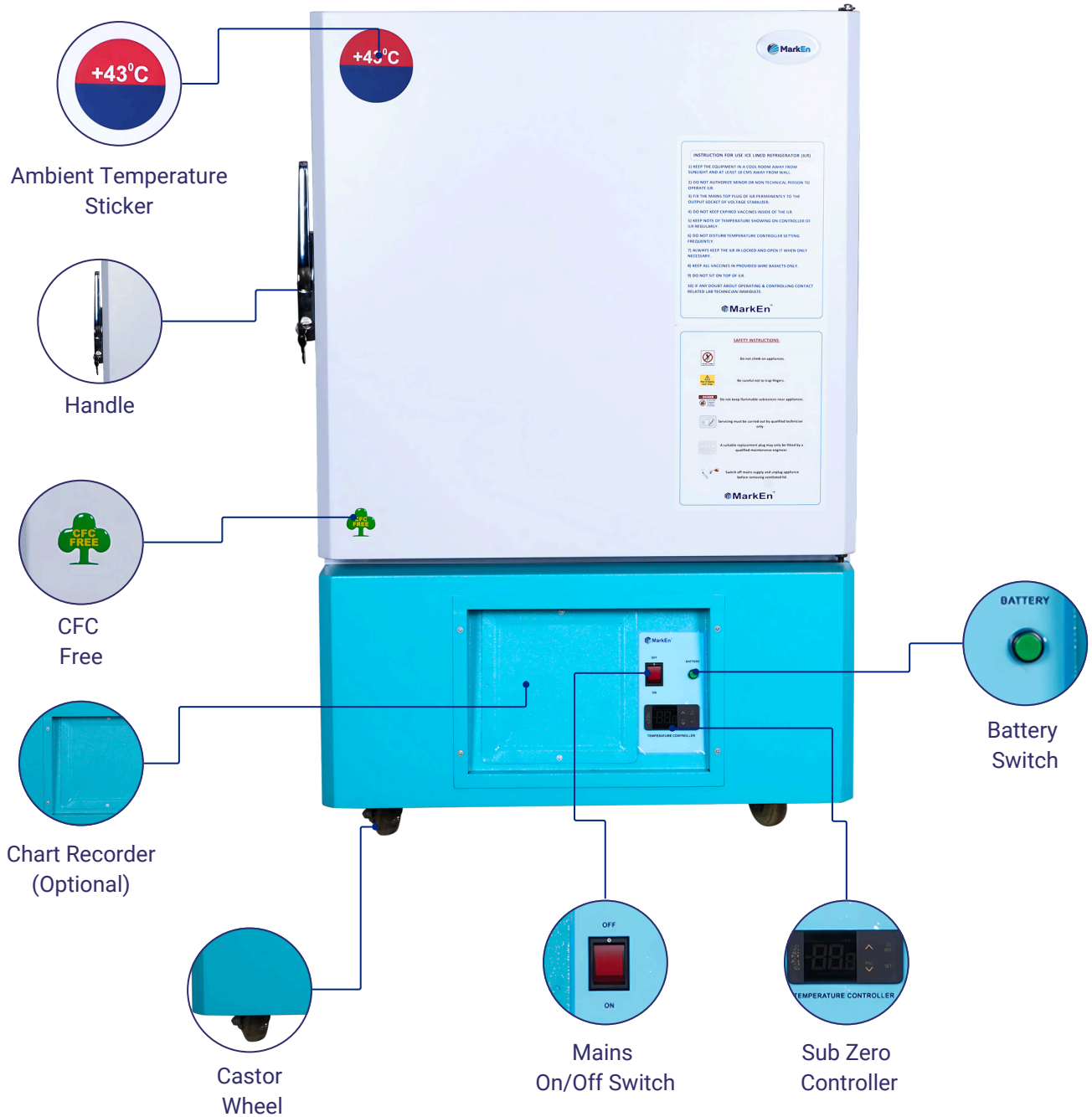
Automatic & Manual Defrosting – Wastewater drainage system prevents ice buildup and maintains temperature stability.



Vaccine Protection Technology – NTC thermostat prevents vaccine freezing, with a capillary inlet positioned outside the PUF body.



Long-Lasting & Reliable – Designed for a minimum lifespan of 10 years, with assured spare parts availability.



INCLUDED ACCESSORIES



Stem Alcohol Thermometers (2 Units) – Ensures accurate temperature readings.



Optional Vaccine Storage Basket – Organized storage for easy vaccine access.



Servo-Controlled Voltage Stabilizer – Protects against power fluctuations with automatic high-low voltage cut-off and time delay restart.

TECHNICAL SPECIFICATIONS

Make		MarkEn			
Gross Capacity in Liters		80 L	155 L	301 L	301 L
Net Capacity		30 Bags	100 L	245 L	248 L
Dimensions (WxDxH) in mm	Outer	800 x 450 x 600	900 x 500 x 700	1200 x 650 x 850	1100 x 600 x 800
	Inner	650 x 350 x 450	750 x 400 x 550	1000 x 500 x 650	900 x 450 x 600
	Door (HxW)	450 x 500	500 x 600	650 x 900	600 x 800
Net weight		60 kg	105 kg	150 kg	115 kg
Type of Cabinet		Horizontal/Vertical			
Color		White			
Outer Body Material		Corrosion-resistant CRCA/GI powder-coated steel, Galvanized Steel (18 SWG) / Rotomolded			
Inner Chamber Material		Stainless Steel 304 / Rotomolded Rust-Free Construction			
Insulation Material		CFC-free PUFF insulation			
Insulation Thickness		Cabinet: 80-100 mm		Door: 80-100 mm	
Ground Clearance		100 mm with additional support for uneven floors (Optional)			
Door		Ballast box-type solid door with lock-key and handle			
Castor Wheel		4 castor wheels, out of which 2 are lockable			
Basket		02 - 05 Nos.			
Compressor		Hermetically sealed compressor			
Refrigerants		CFC-HCFC-free, non-flammable green refrigerants (R-134a)			
Temperature Sensor		PT 100 (placed under 25–50 mm above the base chamber)			
Condensing		Skin condensing and inner and air-cooled grooved aluminum fins			
Pull down time		12 Hours when ILR is empty and 24 Hours when ILT is fully loaded			
Holdover time with full load		24 Hours			
Operating Temperature Range		+2°C to +8°C adjustable with setting accuracy +0.1°C			
Temperature uniformity		±1°C			
Control System		On/Off switch, power indicator, fully programmable microprocessor-controlled with a membrane keypad, and password-protected with a child lock facility			
Temperature Monitoring System		With IOT (Cloud Manage) supported (Optional).			
Display		3-digit digital temperature display with 0.1° resolution			
Alarms		Audible and visual alarm system for over and under-temperature, sudden power failure, and low battery			
Battery Backup		12-hour battery backup for digital display, total alarm system, and temperature recording system with auto-recharging facility			
Noise level		<55 db			
Power supply		220-240V AC, 50 Hz +22%			

CERTIFICATIONS

Quality, Management, Environment, Health & Safety Standards



**50 Products
CDSCO Certified**



USFDA Listed



**8 products tested by a
WHO-accredited laboratory**



European CE



NABCB: ISO 13485



ISO 9001: IAF



ISO 14001: IAF



ISO 45001: IAF



**7 Electric Safety
Certifications**



WHO GMP



**BIFMA Certified,
BIFMA Level 3**



**ASTM- Corrosion
Free Products**



ISO 2409

**EN 13523-26,
ISO 13849-1,
IP 69, IP 65**

& many other...

ALL-IN-ONE SOLUTION FOR

Cold Chain Solution
Medical Equipment
Blood Bank Equipment

Hospital & Scientific Equipment
Hospital Furniture & Infrastructure
Commercial Refrigeration



25+

Years of Excellence



350+

Product Range



500+

Service center



1000+

Committed Engineers



1,00,000+

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