



LABORATORY REFRIGERATOR



Quality, Management, Environment, Health & Safety Standards



CDSCO MD 5 License



USFDA Listed



European CE



ISO 9001: 2015
IAF



ISO 13485:2016
NABCB/IAF



ISO 45001 : 2018
IAF



7 Electric Safety Certifications
IEC 60335-1 and IEC 60335-2-24, IEC 61010-1,
IEC 61010-2-020 and 61010-2-101, IEC 61326-1,
IEC 61326-2-6.

INTRODUCTION

MarkEn Laboratory Refrigerators provide reliable, uniform temperature control for safe storage of pharmaceuticals, vaccines, medicines, and other sensitive products – trusted by research labs, hospitals, and pharmaceutical industries.

PERFORMANCE & EFFICIENCY



Temperature Control: Maintains +2°C to +8°C in tropical conditions (-10°C to +45°C, 15%–95% RH)



Rapid Cooling: Forced-air cooling system with air-cooled chiller and frost-free circulation



Defrosting Options: Automatic and manual defrosting for convenience and efficiency



Consistent Performance: Magnetic rubber gasket-sealed door prevents temperature loss and contamination

SAFETY & SECURITY



Advanced Safety: Audible and visual alarms for temperature fluctuations



Secure Access: Key-locked glass door and password-protected control panel



Power Protection: Delay start function ensures stable operation after power restoration



Power Backup: Additional battery ensures continuous alarm operation during power failures

ADVANCED CONTROL SYSTEM



Intuitive Interface: Microprocessor/PLC-based controller with eye-level panel and membrane keypad



Precision Display: High-resolution LED screen with 0.5°C graduation for accurate monitoring



Enhanced Security: User login, ID tracking, RFID, and password protection prevent unauthorized access



Comprehensive Data Management: Real-time logging, 21 CFR-compliant internal memory, and RS 485/USB/RS230 connectivity



Real-Time Monitoring: Simultaneous display of set and actual conditions

BUILD QUALITY & DESIGN



Superior Build: 99.97% pure copper tubing for durable and efficient cooling



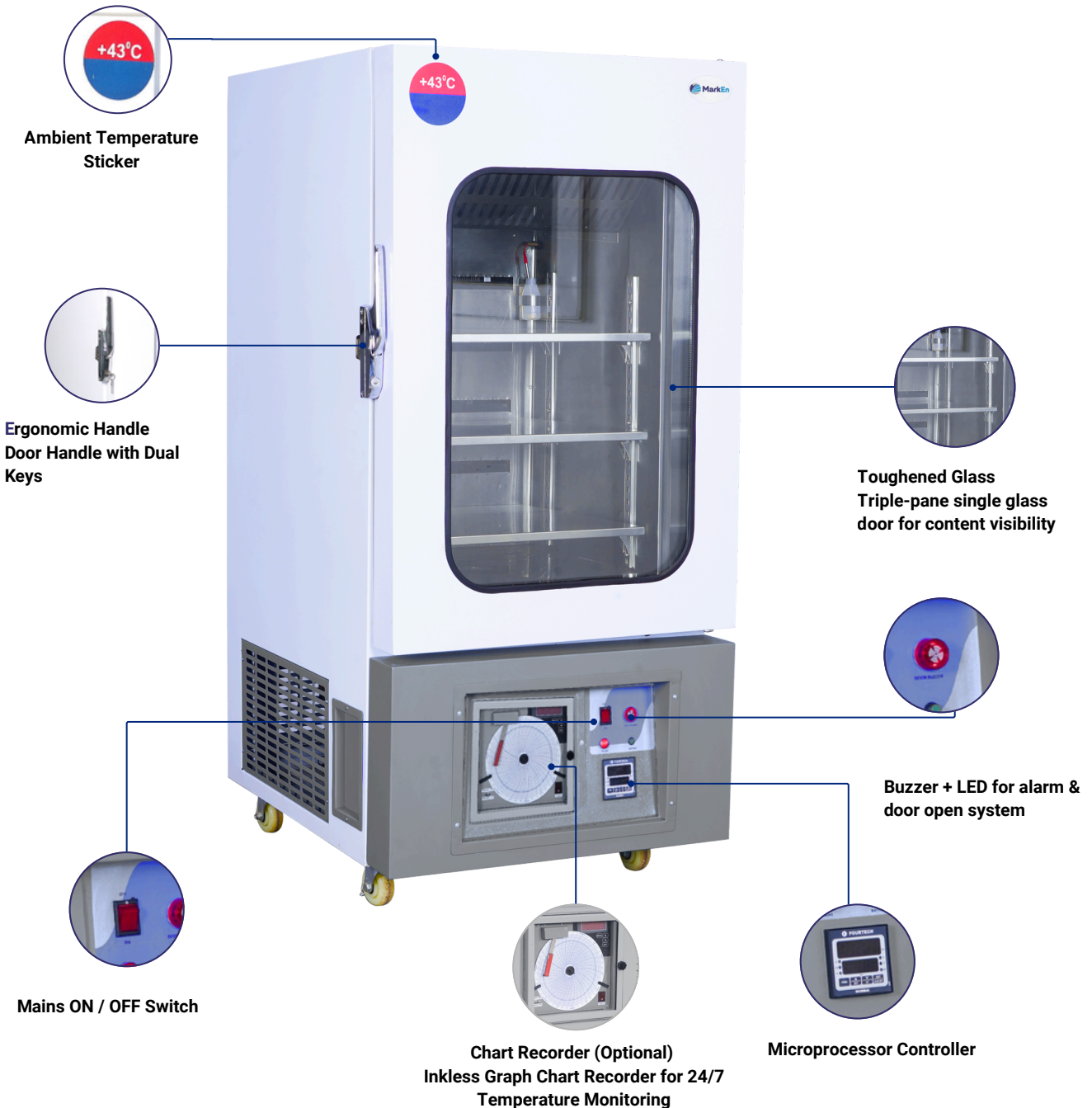
Ergonomic Design: Large glass door ensures clear visibility of stored items



Enhanced Visibility: Built-in fluorescent lighting for easy access in low-light environments



Long Lifespan: Designed for a 10-year life with guaranteed spare parts availability



LABORATORY REFRIGERATOR

Volume	125 liters	250 liters	370 liters	425 liters	610 liters	1200 liters
Exterior Dimensions (WxDxH) mm	560 x 590 x 840	720 x 750 x 1030	820 x 830 x 1140	920 x 920 x 1240	1410 x 1010 x 1830	1860 x 980 x 2040
Interior Dimensions (WxDxH) mm	440 x 460 x 620	570 x 590 x 830	660 x 680 x 940	750 x 750 x 1050	1210 x 840 x 1630	1620 x 840 x 1840
Power Consumption	1.8 kWh/24Hrs	2.4 kWh/24Hrs	2.9 kWh/24Hrs	3 kWh/24Hrs	3.3 kWh/24Hrs	3.8 kWh/24Hrs
Weight (Net)	110 kg	135 kg	155 kg	180 kg	260 kg	375 kg

TECHNICAL SPECIFICATION

Make	MarkEn
Cabinet Type	Vertical / Upright
Outer Body	Mild steel /GI powder coated steel (18swg)
Inner Chamber	Stainless Steel 304 for Durable unbreakable construct
Insulation	PUFF Insulation-CFC free
Insulation Thickness	Cabinet: 75 mm Door: 50 mm
Castors Wheels	4 castor wheels (2 Lockable and 2 un-lockable) for free mobility
Ground Clearance	100 mm
Door	Glass Door with Handel and Key Lock
Inner Door	Separate acrylic sheet inner door which prevents cold air loss during door opening
Compressor	Hermetically sealed compressor
Refrigerants	CFC-HCFC-Free non flammable R134a refrigerants
Condensing	Force Air Circulation
Temperature Range	+2°C to +8°C adjustable
Temperature Accuracy	+0.1°C
Temperature Sensor	PT100
Environmental Conditions	Maximum -10°C to +45°C with Humidity 5% to 95%
Pull Down Time	8 hrs. when refrigerator is fully loaded.
Holdover Time	1.5 hrs.
Control System	Fully programmable microprocessor controlled with membrane keypad and Password Protected
Display	TFT Touch Screen Digital Temperature Display
Alarms	Audible and visual alarm system for adjustable over-under temperature, sudden power failure, and battery low, Door open
Battery Backup	12 hrs. Battery Backup for Digital Display, Total Alarm system, Temp. recording system with auto recharging facility
Temperature Monitoring System (Optional)	Data logger with printing system and Inkless temperature chart recorder
Noise Level	<55 dBA
Power Protection	MCB fitted in input Power Line
Power supply	220-240V AC, 50Hz single phase AC power supply
Accessories	Servo Voltage Stabilizer, SS Shelves, Stem Alcohol Thermometer

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



400+

Product Range



500+

Service center



1000+

Committed Engineers



1,00,000+

Satisfied Users

CERTIFICATION



10 products tested by a WHO-PQS accredited laboratory



ISO 14001: IAF



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...

OUR ESTEEMED CUSTOMERS



& MANY MORE...



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