



-25°C DEEP FREEZER



Quality, Management, Environment, Health & Safety Standards



CDSCO Certified



USFDA Listed



European CE



ISO 13485:
NABCB/IAF



ISO 9001: IAF



7 Electric Safety
Certifications

INTRODUCTION

MarkEn Deep Freezers set the gold standard for safe, reliable, and efficient storage of the most sensitive biological materials, including stem cells, plasma, semen, viruses, bone grafts, and other vital samples. Designed to meet the rigorous demands of life science research institutes, hospitals, blood banks, pharmaceutical and biotech companies, and industrial applications, MarkEn freezers deliver performance you can trust.

TECHNICAL EXCELLENCE



Wide Temperature Range: Offering precise cooling from -15°C to -25°C



Tropical Climate Adaptation: Engineered to maintain peak performance even in high-temperature environments.



Heavy-Duty Weight Capacity: Uniformly distributed load-bearing trays for maximum efficiency.



Advanced Freezing Technology: Compression cycle system ensuring rapid, frost-free freezing.



Eco-Conscious Design: 100% CFC-free refrigeration and insulation for a greener planet.



Premium-Grade Tubing: Constructed with 99.97% pure copper for superior durability and efficiency.

CUTTING-EDGE FEATURES



Anti-Condensation Innovation: Hot line at the cabinet mouth prevents moisture buildup, safeguarding stored samples.



Intelligent Data Management: Internal memory captures temperature and alarm records, easily transferable to a PC.



Effortless Defrosting: Convenient defrosting provision simplifies maintenance.



Auto Door Closure: Ensures consistent internal temperatures by preventing accidental exposure.



Unmatched Longevity: Designed for a minimum 10-year lifespan with guaranteed spare parts availability.

RIGOROUS SAFETY AND CERTIFICATIONS



CE Certified: Approved by European notified body No.1282.



Global Electrical Safety Standards: Fully compliant with IEC 61010, IEC 60335-1, and IEC 60335-2-24 standards.

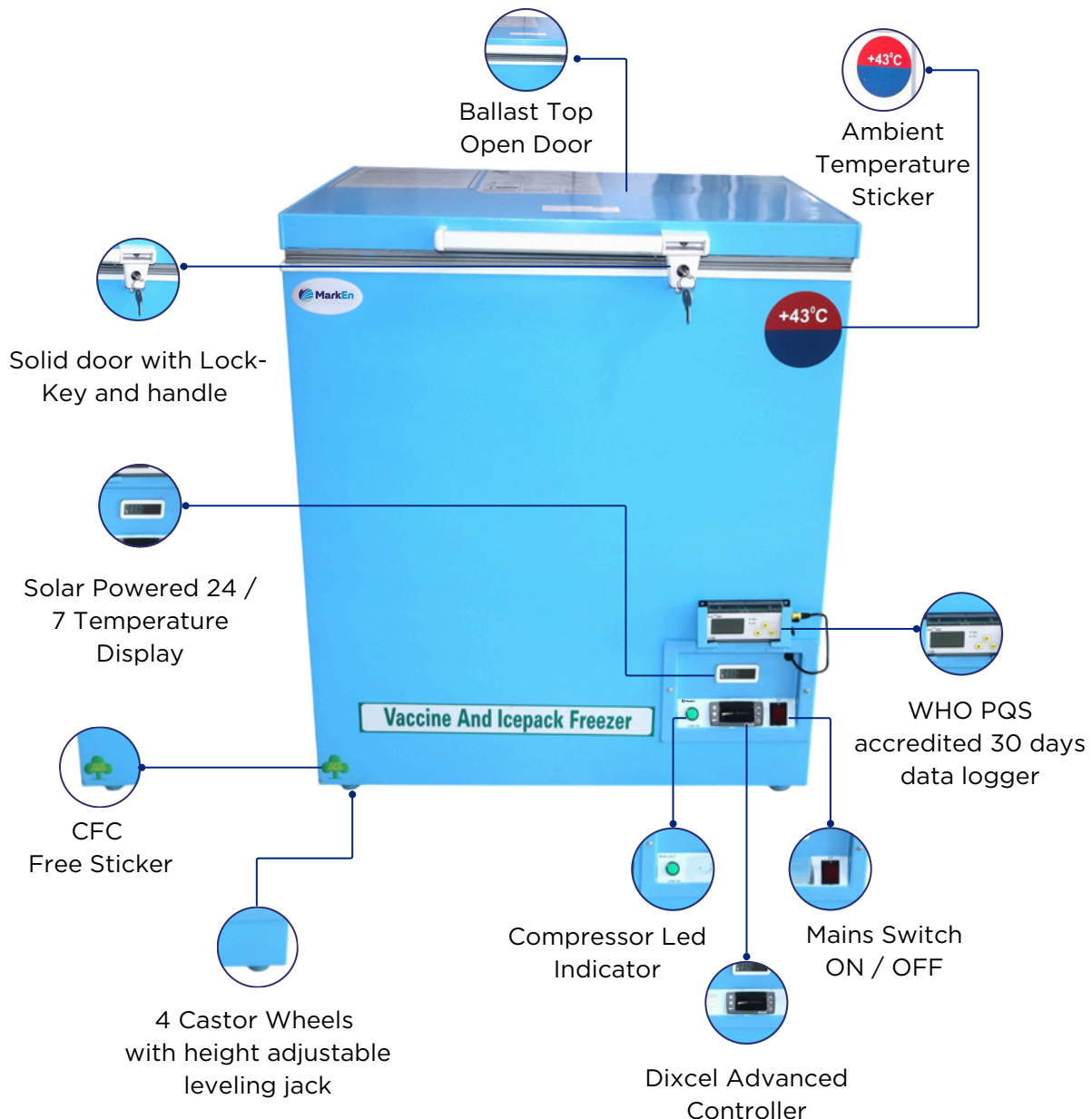
ESSENTIAL ACCESSORIES



Precision Stem Alcohol Thermometer: Delivers accurate temperature monitoring for optimal sample preservation.



Advanced Voltage Stabilizer: Servo-controlled with automatic high-low voltage cut-off and time delay restart, ensuring uninterrupted performance.



TECHNICAL SPECIFICATIONS

Make	MarkEn
Type of Cabinet	Vertical/Upright
Color	White
Outer Material of Cabinet	Corrosion resistance CRCA/GI powder coated steel (18swg)
Inner Material of Cabinet	Stainless Steel 304
PUFF Insulation- CFC free	Cabinet: 127 mm
	Door : 115 mm
Ground Clearance	100 mm with 4 castor wheels (2 Lockable and 2 un-lockable)
Door	Solid door with Lock-Key and handle and 04 Nos Inner Door and includes standard key lock and provision for padlock.
Inner Shelves	04 Nos
Compressor	Hermetically sealed compressor
Refrigerants	CFC-HCFC-Free non flammable refrigerants. R452A
Condensing	Skin condensing Inner and air cooled grooved aluminum fins OR forced air circulation to maintain.
Pull down time	04 Hours
Temperature uniformity	±3°C or Less
Environmental Condition	Maximum +45°C with Humidity 5% to 95% RH
Control System	Fully programmable microprocessor controlled with membrane keypad and Password Protected eye level control panel
Temperature Monitoring System	With IOT (Cloud Manage) supported (Optional) and 7 days inkless Chart Recorder (Optional).
Display	Digital Temperature Display 7" Touch Screen.
Alarms	Audible and visual alarm system for over and under temperature, sudden power failure, system failure, Clogged Condenser Filter , Door open and battery low.
Battery Backup	74 Hrs Battery Backup for Digital Display, Total Alarm system, Temp. recording system with auto recharging facility.
Access port	Provision of connecting LN2/CO2 Backup system for maintaining the set temperature during power failure.
Noise level	<55 db
Power Consumption rate-	Stable Running: 2.040 kWh/24Hrs Cool Down Test:2.30kWh/24Hrs.
Power supply	Suitable for Input Voltage Range 100 to 290 VAC, 50 Hz +10%

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+

Satisfied Users

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& MANY MORE...



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Authorized Distributor Details