



# -40°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 / -10°C to -40°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.

### File box

To place log files

### Ergonomic Handle

One-Handed Operable Door Handle with Dual Keys

### Power and Alarm Control

Main Power Switch, Battery Control Switch, Mains Indicator LED, and Alarm System Buzzer.

### Chart Recorder

Inkless Graph Chart Recorder for 24/7 Temperature Monitoring

### Digital Display Panel

HMI (Human-Machine Interface) Touchscreen Display – Available in 7-inch or 10-inch Variants

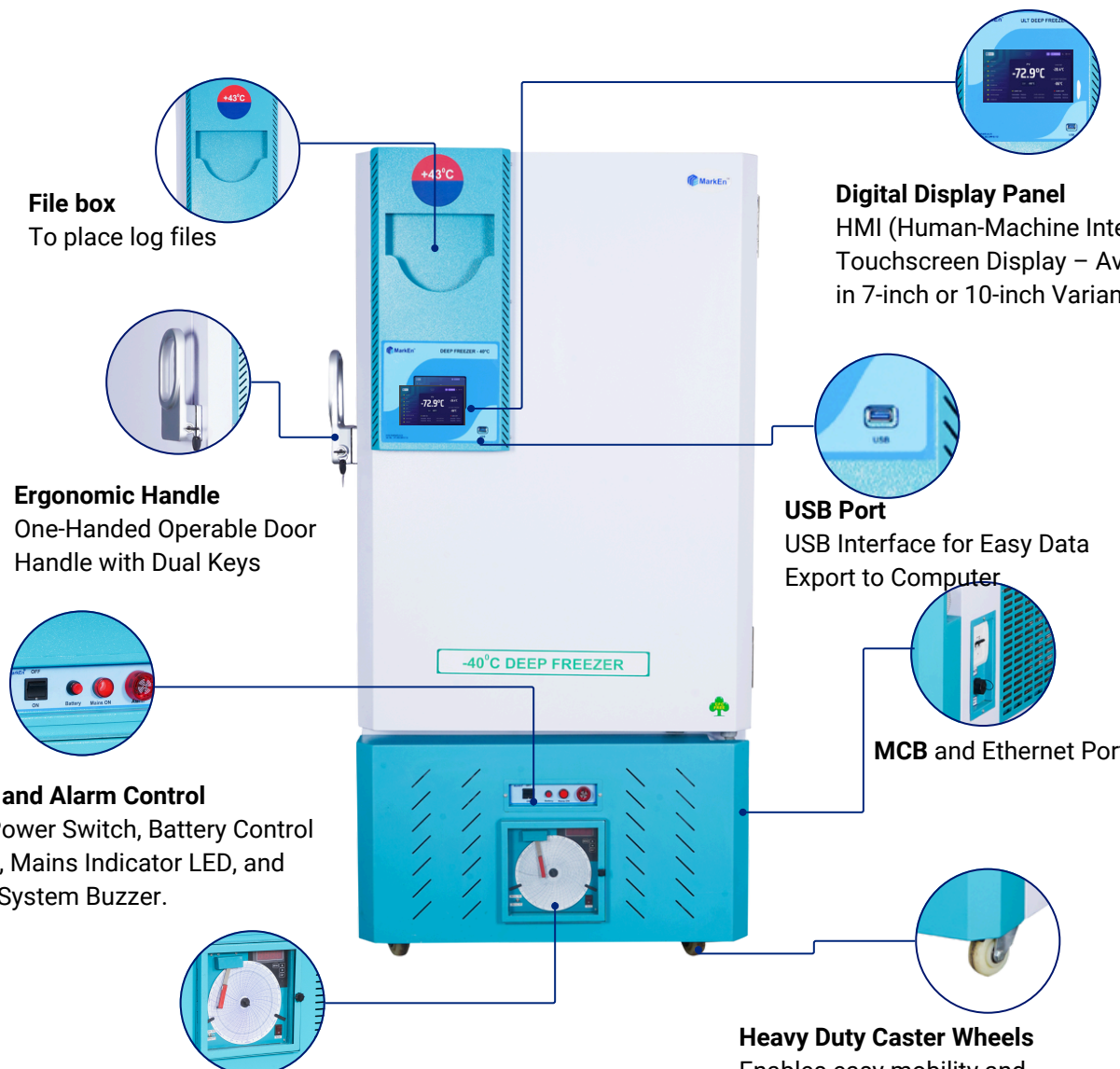
### USB Port

USB Interface for Easy Data Export to Computer

### MCB and Ethernet Port

### Heavy Duty Caster Wheels

Enables easy mobility and positioning



## TECHNICAL SPECIFICATIONS

<b>Make</b>	MarkEn
<b>Type of Cabinet</b>	Vertical/Upright
<b>Color</b>	White
<b>Outer Material of Cabinet</b>	Corrosion resistance CRCA/GI powder coated steel (18swg)
<b>Inner Material of Cabinet</b>	Stainless Steel 304
<b>PUFF Insulation- CFC free</b>	Cabinet: 127 mm
	Door : 115 mm
<b>Ground Clearance</b>	100 mm with 4 castor wheels (2 Lockable and 2 un-lockable)
<b>Door</b>	Solid door with Lock-Key and handle and 04 Nos Inner Door and includes standard key lock and provision for padlock.
<b>Inner Shelves</b>	04 Nos
<b>Compressor</b>	Hermetically sealed compressor
<b>Refrigerants</b>	CFC-HCFC-Free non flammable refrigerants. R 404
<b>Condensing</b>	Skin condensing Inner and air cooled grooved aluminum fins OR forced air circulation to maintain.
<b>Pull down time</b>	04 Hours
<b>Temperature uniformity</b>	±3°C or Less
<b>Environmental Condition</b>	Maximum +45°C with Humidity 5% to 95% RH
<b>Control System</b>	Fully programmable microprocessor controlled with membrane keypad and Password Protected eye level control panel
<b>Temperature Monitoring System</b>	With IOT (Cloud Manage) supported (Optional) and 7 days inkless Chart Recorder (Optional).
<b>Display</b>	Digital Temperature Display 7" Touch Screen.
<b>Alarms</b>	Audible and visual alarm system for over and under temperature, sudden power failure, system failure, Door open and battery low.
<b>Battery Backup</b>	74 Hrs Battery Backup for Digital Display, Total Alarm system, Temp. recording system with auto recharging facility.
<b>Access port</b>	Provision of connecting LN2/CO2 Backup system for maintaining the set temperature during power failure.
<b>Noise level</b>	<55 db
<b>Power Consumption rate-</b>	Stable Running: 2.040 kWh/24Hrs Cool Down Test:2.30kWh/24Hrs.
<b>Power supply</b>	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

## OUR ESTEEMED CUSTOMERS



& MANY MORE...



-  **Regd office & Factory:** 93/1, MIDC Satpur, Nashik- 422007 (IND)
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### Authorized Distributor Details