



CRYO BATH WATER BATH



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

The MarkEn Cryo Bath is designed to provide precise, uniform, and contamination-free thawing of Fresh Frozen Plasma (FFP) and other blood components. Engineered with cutting-edge technology, it ensures optimal temperature control, rapid thawing, and long-term reliability for blood banks, laboratories, and research facilities.

TEMPERATURE PRECISION & STABILITY



Microprocessor/PLC-Based Controller – Ensures accuracy of $\pm 0.2^{\circ}\text{C}$ within a 4°C range.



Integrated Compressor-Heater-Pump System – Maintains temperature with splash-proof technology for uniform distribution.



Advanced Sealed Sensor – Immersed in water for real-time temperature monitoring.

RAPID & UNIFORM THAWING



High-Capacity Pump – Guarantees efficient heat transfer and optimal plasma recovery.



Quick Process Time – Completes thawing of plasma bags from -40°C in just 2 hours.



Flexible Capacity – Accommodates 8–30 liters of filling volume.

CONTAMINATION PREVENTION



Specialized Tray Design – Individual compartments keep bag ports above water, minimizing contamination risk.



Dry Running Protection – Safeguards the system from damage in the absence of water.

EASE OF USE & MAINTENANCE



Drainage System – Includes a drain line and shut-off valve for effortless chamber cleaning.



Removable Components – Features a bottom plate and stirrer for easy maintenance.

DURABILITY & PORTABILITY



Built to Last – Engineered for 10+ years of use, with guaranteed spare parts availability.



Portable Design – Mounted on four castor wheels (two lockable, two non-lockable) for easy movement.

EFFICIENT OPERATION



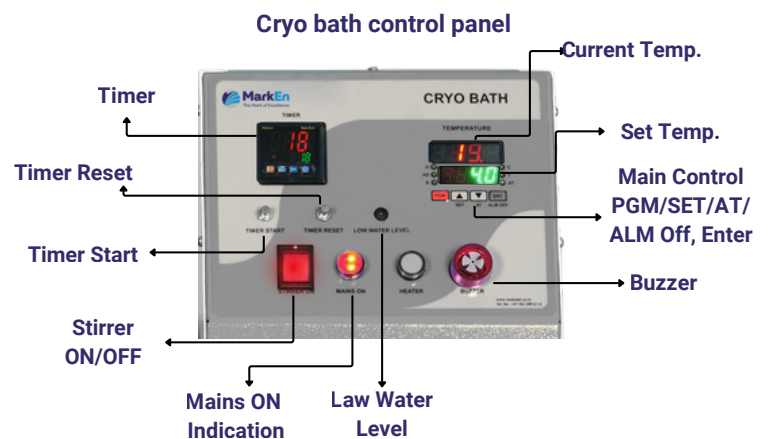
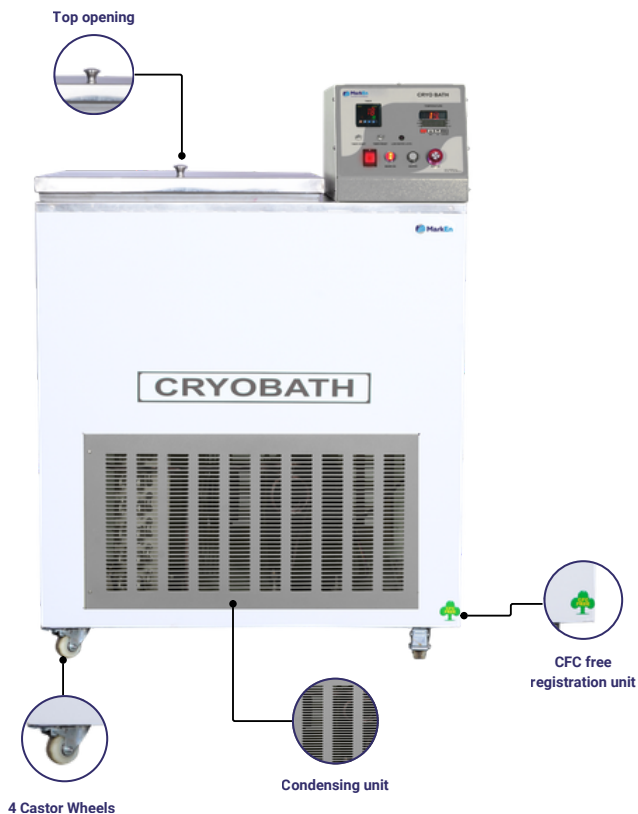
Energy-Saving Technology – Optimized system for consistent and power-efficient performance.



User-Friendly Interface – Intuitive design with easy-to-use controls for seamless operation.

ACCESSORIES (OPTIONAL)

Reusable Wrap bags - 20 | Stem Reference Thermomete | Compression Rack Holder
Frozen Plasma Bag holder | Stabilizer (Optional)



TECHNICAL SPECIFICATION

Make	MarkEn
Capacity (Bags)	6/12/24 regular fresh frozen plasma filled bags
Tray	Removable stainless steel tray with a 6 × 2 configuration and individual compartments for holding plasma bags.
Material	Inner Body-Non-Corrosive SS 304
Operating temperature Range	+3.5°C to +37°C adjustable with setting accuracy of $\pm 0.2^{\circ}\text{C}$.
Programmable temperature range of controller	+3°C to +50 °C
Timer setting range (programmable)	0-4 hrs
Inner tank and lid	Stainless steel 304 (22swg)
Temperature controller	Microprocessor based digital controller.
Tray	Removable SS tray of individual compartment for holding plasma bags.
Thawing Time	1.5 - 2 Hours For Plasma Stored at -40°C
Thawing Mechanism	Pumping Mechanism: High-capacity pump. Temperature Maintenance: Controlled by a heater and compressor. Cooling Coils: Routed to maximize cooling efficiency. Filter Near Water Inlet Inside Tank: Prevents clogging and restricts dust movement into the pump.
External dimensions (W x D x H) mm	850x500x800 (with castor wheel)
Temperature sensing method	Sealed sensor dipped directly in the water.
Alarms (Audio and Visual)	High Temperature and Low Temperature Alerts Timer End Notification Completion of Thawing Indicator Cut-Off Function
Display	4 x 7 segment LED /LCD with 0.1°C resolution.
Display resolution	0.1°C-0.5°C
Weight (Net)	65 kg
Stabilizer	2KVA External Stabilizer (Optional)
Power supply	230+/-10% Volts 50Hz,15A single phase AC.

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



& MANY OTHER...

OUR ESTEEMED CUSTOMERS



& MANY MORE...



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