



# PLASMA THAWING BATH



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 Automatic Plasma Thawing Baths ensure safe, fast, and reliable thawing of FFP, FEP, Apheresis, and cryoprecipitates. It ensures optimal recovery of coagulation factors and blood components by maintaining precise temperatures up to +56°C for optimal recovery of blood components. Ideal for laboratories and blood banks.

The MarkEn Plasma Thawing Bath is a compact tabletop unit with a top-opening stainless steel door and high-quality construction. Its double-walled design and deep inner chamber with rounded corners ensure efficient water circulation and uniform temperature distribution.

## DESIGN & CONSTRUCTION



Lightweight, compact tabletop design for continuous operation.



Double-walled chamber with rounded corners for efficient water circulation.



Large open chamber and removable trays for easy cleaning and maintenance.

## PERFORMANCE & EFFICIENCY



Integrated stirrer, inline heater, and high-capacity pump ensure uniform thawing and precise temperature control.



High-capacity heater and chamber volume enable rapid heat transfer and fast thawing.



Thawing cycles complete in less than 20 minutes with programmable time settings.

## MONITORING & CONTROL



Digital timer displays set time and remaining cycle in minutes.



Real-time monitoring with set value and process value display.



Automatic water level detection with sensor alerts for water changes.

## SAFETY & CONVENIENCE



Independent safety thermostat shuts off the heater if temperature exceeds the preset limit.



User-interrupt function allows adding or checking bags during the cycle.



Drainage system with shut-off valve and easy-disconnect drain port for effortless emptying and cleaning.



## CONTROL PANEL



## TECHNICAL SPECIFICATION

<b>Make</b>	MarkEn			
<b>Volume</b>	40 liters	60 liters	90 liters	120 liters
<b>Bags capacity</b>	8 Bags	12 Bags	18 Bags	24 Bags
<b>External Body Dimensions (WxDxH) mm</b>	600 x 400 x 450	800 x 500 x 550	900 x 600 x 650	1000 x 700 x 750
<b>Inner Chamber Dimensions (WxDxH) mm</b>	500 x 300 x 350	700 x 400 x 450	800 x 500 x 550	900 x 600 x 650
<b>Type</b>	Benchtop			
<b>Outer Body</b>	CRCA/GI sheet with bacteria resistant powder coated finishing			
<b>Inner Chamber</b>	Stainless-steel 304G			
<b>Insulation</b>	Double-walled with glass wool insulation for improved temperature stability and energy efficiency.			
<b>Tray</b>	Removable trays with individual compartments ensure that the ports of bags are kept above the water level during the procedure.			
<b>Temperature Range</b>	20°C to 56°C adjustable with accuracy of $\pm 0.1^{\circ}\text{C}$			
<b>Timer Setting Range</b>	1 minute to 4 hrs.			
<b>Temperature Controller</b>	Microprocessor based PID temperature controller with in-built programmable timer and process END buzzer.			
<b>Temperature Sensor</b>	PT100 Sensor for high-accuracy, platinum-based temperature sensors that provide precise temperature readings.			
<b>Display</b>	LED Digital display			
<b>Resolution</b>	$\pm 0.1^{\circ}\text{C}$			
<b>Alarm System</b>	Audible and visual alarm system for over-temperature, temperature deviation from the preset value, thawing completion cycle, leak detection with auto-stop, and low/high water levels.			
<b>Thawing Mechanism</b>	High-Capacity Pump and Stirrer Temperature Maintenance: Controlled by a heater. Filter Near Water Inlet Inside Tank: Prevents clogging and restricts dust movement into the pump.			
<b>Noise Level</b>	<58 db[A]			
<b>Average thaw time</b>	20 minutes			
<b>Power Consumption</b>	600 Watts	900 Watts	1.5 kW	2 kW
<b>Weight (Net)</b>	50kg	85Kg	110Kg	175Kg
<b>Power supply</b>	220-240V 50Hz, AC single phase power supply			

# 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...**



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### Authorized Distributor Details