

PLASMA THAWING BATH



APPLICATION

- **Blood Banks and Transfusion Centres** – For thawing Fresh Frozen Plasma (FFP) before transfusion.
- **Hospitals and Clinical Laboratories** – For preparation of plasma for diagnostic use.
- **Biotechnology and Research Labs** – For thawing biological reagents and samples.
- **Pharmaceutical Manufacturing** – For controlled thawing in plasma-derived product processing.

KEY FEATURES

1. Construction

- Inner chamber made of stainless steel (SS 304/316) for corrosion resistance.
- Outer body made of powder-coated mild steel or stainless steel.
- Transparent polycarbonate or acrylic lid for viewing thawing process.

2. Digital Temperature Control

- Microprocessor-based PID controller with digital temperature display. Set temperature typically adjustable between $+37^{\circ}\text{C} \pm 0.5^{\circ}\text{C}$ for safe plasma thawing.

3. Rapid & Uniform Thawing

- Efficiently thaws plasma within minutes using a
- Thermostatically controlled water bath.
- Maintains uniform temperature distribution through continuous water circulation.

4. Safety Features

- Over-temperature protection with audio-visual alarm.
- Leakage protection and automatic power cut-off.

5. Circulation System

- Built-in water circulation pump ensures even temperature distribution and prevents hot spots.

6. User-Friendly Operation

- Easy loading and removal of plasma bags using specially designed racks or baskets.
- Optional bag holders to prevent floating.
- Uniform thawing ensures plasma quality remains intact for transfusion or testing.

TECHNICAL MATRIX

Model:	PTE-711 PTB 20	PTE-711 PTB 40
Volume	20 Liters	40 Liters
Bags capacity	300 ml – 05 bags 450 ml – 04 bags	300 ml – 15 bags 450 ml – 12 bags
Construction	Double walled Outer MS duly powder coated and Inner SS 304 grade	
Inner tank	Stainless steel 304	
External cabinet	Powder coated GI sheet	
Temperature range	37°C to 56°C	
Temperature accuracy	±0.5°C	
Resolution	±0.1°C	
Insulation	PUFF and 50 mm	
Temperature sensor	PT100	
Temperature controller	PID temperature controller In-built programmable timer Process END buzzer	
Display	LED	
Average thaw time	Approx 20- 25 minutes	
Baskets	Smooth Acrylic Buckets for Accommodating Plasma Bags	
Noise level	Less than 65 db [A]	
Tray	Removable SS tray	
Shaking mechanism	Centrifugal water circulation pump	
Heater	ISI mark Emersion heater	
Power supply	220 Volts 50Hz	

OPTIONAL ADD-ONS

- Data logging system with USB or printer interface
- Touch-screen controller with temperature recording
- Battery backup for controller
- Automatic water filling and drain system
- Low and High Temp Alert Buzzer
- Exterior SS 304