

## BLOOD BANK REFRIGERATOR



### KEY FEATURES

#### Precise Temperature Control:

- Maintains temperature between **+2°C to 6°C** (ideal for blood storage).
- Equipped with a microprocessor-based digital temperature controller.

#### Uniform Cooling:

- Ensures even temperature distribution using forced air circulation (air-cooled system).
- Internal air circulation fans prevent temperature variation inside the cabinet.

#### Temperature Monitoring & Alarm System:

- Audio-visual alarms for high/low temperature, door open, power failure, and sensor errors.
- Battery backup for alarm and temperature display during power failure.
- **Construction & Material:**
  - Outer body Powder-coated mild steel or stainless steel (optional).
  - Inner chamber Stainless steel (SS 304 grade).
  - Insulation High-density polyurethane foam (PUF) for energy efficiency.

#### Storage System:

- Removable stainless steel drawers or baskets for easy storage of blood bags.
- Capacity available from 50 to 1200 blood bags (as per model).

#### Door Design:

- Solid or glass door with lockable handle.
- Magnetic gasket ensures airtight sealing.
- Heated glass door (in glass models) to prevent condensation.

#### Data Recording & Display:

- Digital display for temperature readout.
- Optional chart recorder / data logger / USB interface for temperature records.
- Event log for alarms and temperature trends (in advanced models).

#### Refrigeration System:

- CFC-free, hermetically sealed compressor.
- Eco-friendly refrigerant used.
- Automatic defrost system (in some models).

#### Safety & Reliability:

- Lockable door and power failure protection.
- Calibration port for temperature verification.
- Complies with **WHO / GMP / ISO / CE** standards

## TECHNICAL MATRIX

Model	PTE-BBR 521	PTE-BBR 522	PTE-BBR 523	PTE-BBR 524	PTE-BBR 525	PTE-BBR 526	PTE-BBR 527
Volume	85 Litre 24 Blood Bags	165 Litre 50 Blood Bags	200 Litre 70 Blood Bags	280 Litre 128 Blood Bags	400 Litre 200 Blood Bags	500 Litre 350 Blood Bags	600 Litre 440 Blood Bags
Inner Size (WxDxH) mm	400x450x500	450x450x800	400x500x500	500x550x910	600x650x1000	650x650x1200	780x650x1200

<b>Temperature Range</b>	+2°C to +6°C
<b>Temperature Accuracy</b>	±0.5°C
<b>Temperature Controller</b>	Microprocessor-based digital controller
<b>Inner Chamber Material</b>	Stainless Steel (SS 304)
<b>Outer Body</b>	Powder-coated mild steel or stainless steel
<b>Insulation</b>	High-density polyurethane foam
<b>Doors</b>	Solid or glass door (lockable)
<b>Cooling System</b>	Hermetically sealed compressor with air circulation fan
<b>Power Supply</b>	220V ±10%, 50Hz AC
<b>Alarm System</b>	Audio/visual for temperature deviation, power failure, sensor error
<b>Accessories (Optional)</b>	Chart recorder / USB data logger / Battery Backup

