

MEHROTRA GROUP



**HOUSE OF BIOMEDICAL RESEARCH
& SCIENTIFIC EQUIPMENT**

Introducing Mehrotra Biotech's **BLOOD BANK REFRIGERATOR** Optimal Temperature Control For Preserving Life's Vital Fluids

Our Blood Bank Refrigerators are purposefully crafted to store whole blood, blood derivatives, and other essential biological materials. We understand the critical importance of preserving these valuable components, and our refrigeration system ensures consistent and precise temperature management.

When it comes to preserving the integrity and viability of blood and other biological materials, trust in Mehrotra Biotech's Blood Bank Refrigerator for unparalleled reliability and performance.

STATE OF THE ART CONTROLLER FEATURES

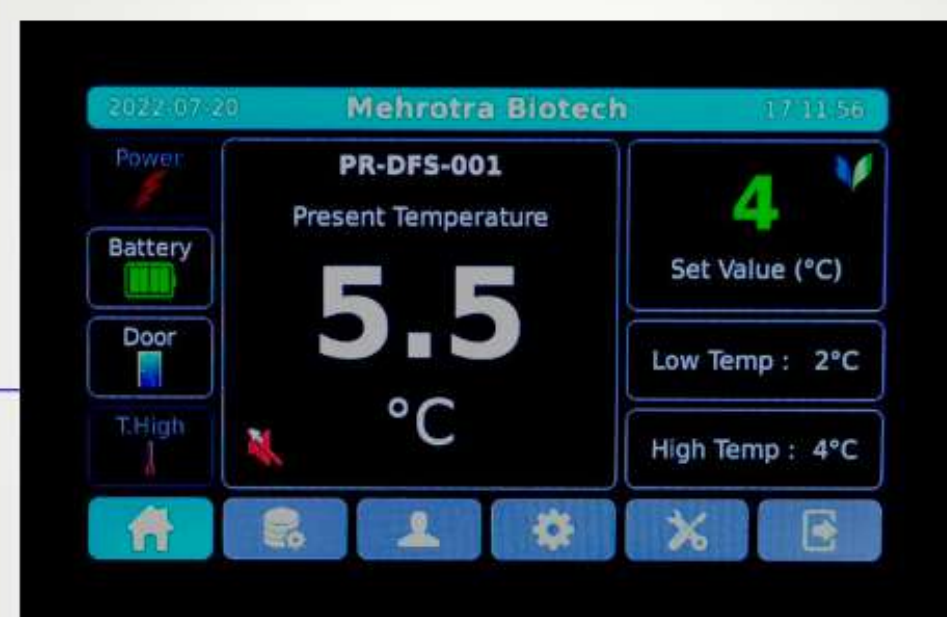
Our advanced microprocessor controller offers a host of features designed to provide precise temperature control and comprehensive monitoring capabilities. It features

- a large **5-inch touchscreen** color display for easy navigation.
- The controller ensures precise temperature control, with **out-of-range parameter** warnings and alerts for **door open, power failure, and low battery conditions**.
- Access control** with password protection allows multiple users to have secure access.
- The **in-built data logger** records temperature and system performance data, with the ability to download it to a USB device.
- Remote monitoring** is enabled through LAN connection, with data recorded in tabular and graphical formats.
- The controller also supports direct printing and complies with **21CFR Part 11** requirements. Additionally, it includes in-built sensor and battery calibration for accurate readings.



SMARTemp Controller with USB & LAN Connectivity with password protected access control. Get Access from anywhere using the same Network Connection.

Warning



Connectivity



KEY HIGHLIGHTS OF OUR ADVANCED BLOOD BANK REFRIGERATOR

Advanced Microprocessor-Based Controller: Our refrigerator is equipped with an advanced microprocessor-based controller. It intelligently detects usage patterns such as door openings, power cut-offs, and data storage, resulting in energy savings without compromising the protection of stored blood.

Energy-Efficient: With up to 40% less energy consumption compared to conventional refrigerant models, our refrigerator is not only reliable but also environmentally conscious, reducing your energy costs.

Optimal Storage Designed specifically for whole blood storage, our refrigerator ensures stable temperature control for various inventory loads, maintaining the integrity of blood products.

Consistent Cooling: Our forced air circulation system ensures consistent cooling throughout the refrigerator, preventing frost accumulation and maintaining the quality of stored blood.

User-Friendly Features: The refrigerator's microprocessor controller offers a user-friendly interface with set-point security, alarms, and USB data output, providing convenience and peace of mind.



Whisper-Quiet Operation Experience a peaceful work environment with our refrigerator's whisper-quiet operation, allowing end users to work alongside it without distractions.

Precise Temperature Control: The temperature inside the refrigerator is accurately controlled by a sensor located in the liquid-loaded monitor bottles at the center of the cabin, ensuring optimal storage conditions.

Environmentally Friendly Refrigerant: Our refrigerators use environmentally friendly R134a refrigerants, making them the preferred choice for scientists and drug research laboratories committed to sustainable practices.

Easy Maintenance: Cleaning is hassle-free with the refrigerator's easy-to-clean SS304 interior walls and removable spill-proof trays featuring convenient partition slots.

Enhanced Reliability: Built-in battery backup for the controller display and alarm function provides up to 8 hours of uninterrupted operation, safeguarding blood storage during power outages.

Optional Features: Additional features like Remote Monitoring, chart recorders and 21CFR compliant software are available as optional add-ons, offering enhanced functionality and regulatory compliance.



Mehrotra Biotech Lab Refrigerators are manufactured using only high-quality, stringently tested materials that are particularly suitable for low temperatures. The units are extremely quiet, have been approved with the CE mark and are maintenance-free.

All designs are subject to change. Special makes available on request.

TECHNICAL SPECIFICATIONS

MODEL FEATURES	BBR TC600	BBRTC450	BBRTC360
Material of Construction (I/O)	1. Powder Coated Exterior Finish with Glass Door. 2. Stainless Steel SS304 Interior with SS304 Steel drawers.		
Dimensions (Internal) (WxDxH)	585 x 540 x 1664mm	465x540x1660mm	455x490x1310
Dimensions (External) (WxDxH)	737 x 686 x 2058mm	576 x 685 x 2060mm	576 x 682 x 1890mm
Temp Range / Factory Set point	+2 ⁰ C to +8 ⁰ C / +4 ⁰ C		
Capacity (L)	590L	442L	340L
Blood Bag Storage Capacity	350 nos of 450ml 500 nos of 350ml	275 nos of 450ml 425 nos of 350ml	160 nos of 450ml 200 nos of 350ml
Door Closing	Self closure type		
Weight (kg)	130kg	115kg	102kg
Circulation	Forced air circulation with auto cut off when door is opened		
Shelves	6 nos. SS304	6 Nos SS304	5 Nos SS304
Display	5" TFT Touch Screen with USB & LAN		
Refrigerant	R134a		
Alarm	Power failure, Low Battery, High/Low Temp Alarm , Open door		
Battery backup	12 hours		
Voltage supply	230V, 50Hz.		
Power Consumption	550 W	590W	340W
Optional Accessories	Chart Recorder, Castor Wheels, Telescopic Channel Drawers		
USB Port	Yes		
LAN Port	Yes		

OPTIONAL ACCESSORIES

21 CFR COMPLIANT SCADA software System with unique controlling features: Email Configuration, Company Information, Distance monitoring, Event log App based mobile accessing monitoring features.

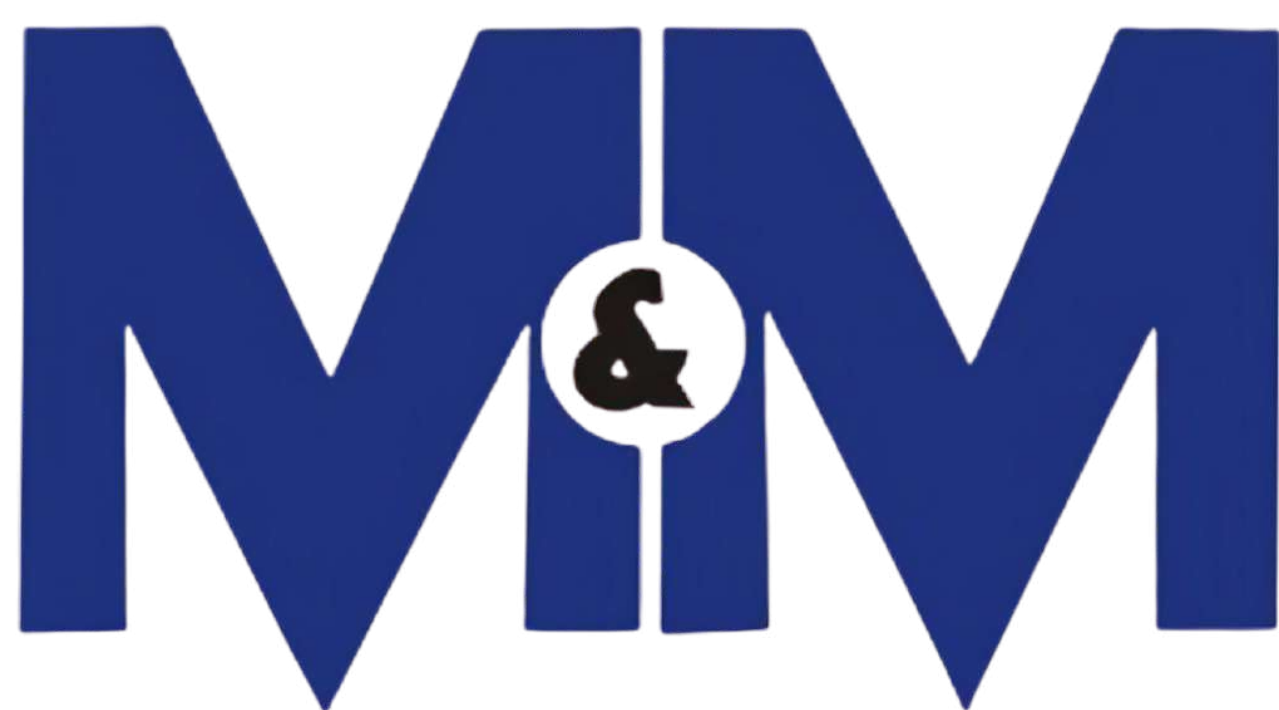
CIRCULAR CHART RECORDER



CASTOR WHEELS



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