



LAB REFRIGERATOR & DEEP FREEZER



Introducing Mehrotra Biotech's

LAB REFRIGERATOR

Optimal Temperature Control For Preserving Life's Vital Fluids

Our Lab Refrigerators are purposefully crafted to store reagents, samples, 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 samples and other biological materials, trust in Mehrotra Biotech's Lab 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



DOOR OPEN



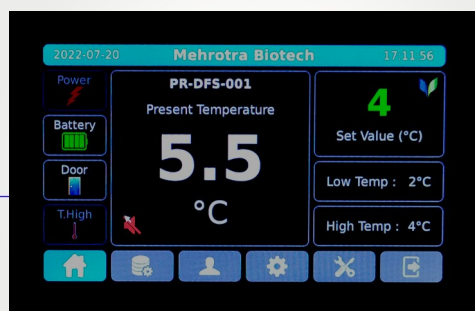
POWER FAILURE



LOW BATTERY



TEMPERATURE



Connectivity



USB2.0



ETHERNET

KEY HIGHLIGHTS OF OUR ADVANCED LAB 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	PR 360	PR 450	PR 600	PR 1000
MoC Standard (I/O)	Galvanized metal sheets	Galvanized metal sheets	Galvanized metal sheets	Galvanized metal sheets.
MoC Optional (I/O)	SS304/ Galvanized metal sheets	SS304/ Galvanized metal sheets	SS304/ Galvanized metal sheets	SS304/ Galvanized metal sheets.
Dimensions (Internal) (WxDxH)	476 x 531 x 1311 mm	492 x 540 x 1664 mm	655 x 540 x 1664 mm	941 x 644 x 1581 mm
Dimensions (External) (WxDxH)	572 x 686 x 1854mm	600 x 730 x 1986mm	750 x 686 x 2070mm	1029 x 724 x 2032mm
Set point	+4 ⁰ C	+4 ⁰ C	+4 ⁰ C	+4 ⁰ C
Capacity (L)	360	448	597	941
Door Type	Glass door	Glass door	Glass door	Glass door
Door Closing	Automatic	Automatic	Automatic	Automatic
Weight (kg)	83	101	115	187
Circulation	Fan Forced	Fan Forced	Fan Forced	Fan Forced
Shelves	4 (Adjustable)	5 (Adjustable)	5 (Adjustable)	10 (Adjustable)
Display	5" TFT Touch Screen	5" TFT Touch Screen	5" TFT Touch Screen	5" TFT Touch Screen
Refrigerant	R134a	R134a	R134a	R134a
Alarm	Power failure, Low Battery, Temperature variation, Open door	Power failure, Low Battery, Temperature variation, Open door	Power failure, Low Battery, Temperature variation, Open door	Power failure, Low Battery, Temperature variation, Open door
Battery backup	12 hours	12 hours	12 hours	12 hours
Voltage supply	230V, 50Hz.	230V, 50Hz.	230V, 50Hz.	230V, 50Hz.
Power Consumption	330 W	450 W	550 W	660 W
Chart Recorder	Optional	Optional	Optional	Optional
USB Port	Yes	Yes	Yes	Yes
Door Lock	Yes	Yes	Yes	Yes
Castors	Optional	Optional	Optional	Optional

Alternative Options



The previously cited models of laboratory refrigerators are also obtainable with digital controllers featuring restricted capabilities, such as solely providing door open alerts and high/low temperature alarms.



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