



LAB REFRIGERATOR & DEEP FREEZER



Introducing Mehrotra Biotech's

LABREFRIGERATOR

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 sensors and battery calibration for accurate readings.



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



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 refrigerator 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 search 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	476 x 531 x 1311 mm	492 x 540 x 1664 mm	655 x 540 x 1664 mm	941 x 644 x 1581 mm
(Internal)(WxDxH) Dimensions		600 x 730 x 1986mm	750 x 686 x	1029 x 724 x
(External)(WxDxH) Set point	572 x 686 x 1854mm +40 C	448	2070mm +40 C	2032mm +40 C
Capacity (L)	360	Glass door	597	941
Door Type	Glass door	Automatic	Glass door	Glass door
Door Closing	Automatic	101	Automatic	Automatic
Weight (kg)	83	Fan Forced	115	187
Circulation	Fan Forced	5 (Adjustable)	Fan Forced	Fan Forced
	4 (Adjustable)	5" TFT Touch Screen	5 (Adjustable)	10 (Adjustable)
Shelves	5" TFT Touch Screen	R134a	5" TFT Touch Screen	5" TFT Touch Screen
Display	R134a	Power failure, Low	R134a	R134a
Refrigerant	Power failure, Low	Battery, Temperature variation, Open door	Power failure, Low	Power failure, Low
Alarm	Battery, Temperature variation, Open door 12 hours 230V, 50Hz.	12 hours 230V, 50Hz.	Battery, Temperature variation, Open door 12 hours 230V, 50Hz.	Battery, Temperature variation, Open door 12 hours 230V, 50Hz.
Battery backup				
Voltage supply				
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.



DEEP FREEZER -20°C

Mehrotra Biotech brings to you DFS Series laboratory deep freezers -20°C for pharmaceutical, hospital, medical and laboratory uses, where these units are used for long-term storage and quality assurance. Our high-performance deep freezers combined with advanced temperature control with high-quality cabinet construction and alarm systems. Uniform temperature distribution inside the cabin is designed to maintain temperature uniformity to protect important medical and pharmaceutical-products as well as laboratory media, reagents and more. Our Laboratory Deep Freezers comply with valid ISO, CE, IQ, OQ & PQ certifications.

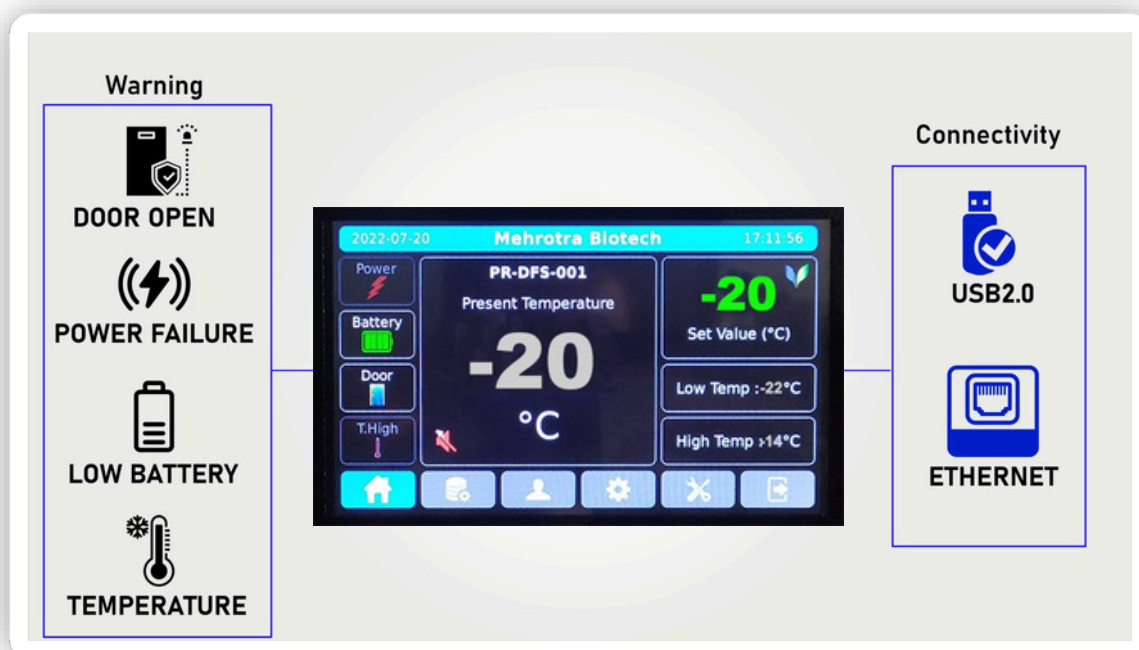
KEY FEATURES

1. **Precise temperature control:** The deep freezer is equipped with a reliable and accurate temperature control system, ensuring consistent and stable temperature conditions for the stored contents.
2. **High storage capacity:** Designed with ample space, the deep freezer provides generous storage capacity to accommodate a significant quantity of samples, specimens, vaccines, or other materials that require deep freezing.
3. **Efficient insulation:** The deep freezer is constructed with high-quality insulation materials that minimize temperature fluctuations and heat transfer, enhancing energy efficiency and reducing operational costs.
4. **Advanced cooling system:** The deep freezer incorporates a robust cooling system capable of rapidly achieving and maintaining the desired -20 degrees Celsius temperature, ensuring



ing efficient freezing and preservation of contents. 5. **Alarm and monitoring features:** The deep freezer includes built-in alarms and monitoring systems that alert users in case of temperature deviations or power failures, helping to protect valuable samples and maintain their integrity. 6. **User-friendly interface:** The deep freezer is designed with an intuitive and user-friendly interface, allowing easy programming, temperature adjustment, and monitoring of the freezer's status. 7. **Safety features:** The deep freezer is equipped with safety features such as door locks or access control systems to prevent unauthorized access and ensure the security of stored items. 8. **Easy maintenance:** The deep freezer is designed for ease of maintenance, with features such as removable shelves, easy-to-clean interiors, and accessible components for periodic maintenance and cleaning. 9. **Long-term storage capabilities:** The deep freezer is specifically designed for long-term storage requirements, allowing items to be preserved at -20 degrees Celsius for extended periods without compromising their quality or integrity. 10. **PC monitoring compatibility:** The deep freezer can be connected to a computer for convenient monitoring and control. Users can access real-time temperature data, adjust settings, and receive alerts directly on their computer, enabling efficient management and maintenance. 11. **Data logging and retrieval:** The deep freezer includes data logging, enabling users to record and retrieve temperature data over time for analysis and quality control purposes.

ADVANCE MICROPROCESSOR CONTROLLER



TECHNICAL SPECIFICATIONS

FEATURES	DFS 450 SOLID DOOR	DFS 450 GLASS DOOR	DFS 600 GLASS DOOR	DFS 700 Solid DOOR
Temperature range(°C)	-25	-25	-25	-35
External Dimensions (mm)	595x595x2050	595x595x2050	672 x 690 x 2046	780x762x2150
Net/ Gross volume (L)	344/365	344/365	441/500	640L/700L
Net/ Gross Weight (kg)	96/106	96/106	124/150	96/106
MoC (Exterior)	PPGI			
MoC(Interior)	Food Grade ABS		PPGI	PPGI Optional : SS304
Controller	Microprocessor with 5" TFT TouchScreen			
Data Connectivity	USB2.0 & Ethernet (Optional)			
Door Type	Solid door			
Shelves/ baskets	Solid door	Glass door	Curved Glass Door	Solid Door
Insulation	6 Shelves	6 Shelves	5 Shelves	5 Shelves
Type of cooling	85 mm	85 mm	60mm	85mm
Power Supply (V/Hz)	Static	Static/Forced	Static	Forced
Energy consumption	230/50 Hz	220-230/50 Hz	220-230/50Hz	220-230/50Hz
	13.40 kWh /24 h	13.40 kWh/24 h	14.98kWh/24h	5.11kWh/24h
Refrigerant	R600a	R404A/R290	R290	R290

Alternative Options



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

OUR CLIENTS

Government Institutions

- Central Drug Research Institute, Lucknow.
- Central Institute of Medicinal and Aromatic Plants, Lucknow.
- Indian Veterinary Research Institute, Bareilly.
- Indian Institute of Toxicology Research, Lucknow.
- Institute of Nuclear Medicine and Allied Sciences, Delhi.
- HPCL, Bangalore.
- King George Medical University, Lucknow.
- Sanjay Gandhi Post Graduate Institute of Medical Sciences, Bareilly.
- Post Graduate Institute of Medical and Research, Chandigarh.
- All India Institute of Medical Sciences New Delhi
- AIIMS RISHIKESH
- NBRI Lucknow
- National Institute of Virology, Pune
- FIND Delhi
- Karnataka Medical Supplies Corporation.
- Regional Forensic Science Lab New Delhi
- Institute Of Food Security, Food Corporation Of India, Haryana
- AIIMS Raipur
- CSIR- Bhartiya Petroleum Sansthan, Dehradun
- AIIMS Bhubneshwar
- AIIMS Raebareilly
- Gujarat Forensic Science University
- IIT Ropar
- IIT BHU
- IIT Kanpur
- Banaras Hindu University
- HPCL-Mittal Energy Limited
- Maharashtra Pollution Control Board
- Darbanga Medical College
- Many More.....

Private Institutions

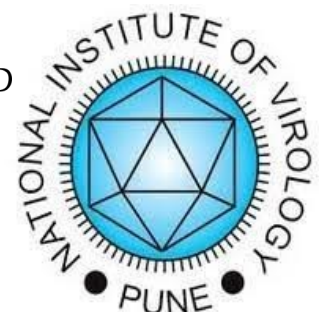
- Dr, Reddy's Laboratories Hyderabad.
- NATCO Pharma, Hyderabad.
- Syngene International Bangalore
- FDC India Mumbai
- Bharat Serum
- CADILA
- CIPLA
- Sysmax Laboratories Mumbai
- Reliance Life Science Mumbai
- LVPEI Hyderabad
- MSN Laboratories Hyderabad
- Larsen and Toubro Limited
- Siemens Healthcare
- Avaca Pharma
- Glochem Industries
- Pinnacle Lifescience
- Raghav Lifesciences Hyderabad
- Abro Pharma
- Sun Pharma
- Gland Pharma Hyderabad
- Macleods Pharma
- Pannacea
- Lupin Limited
- Meyer Organics
- Sucantis
- Many More.....



BHARAT SERUMS & VACCINES LIMITED



INDIAN IMMUNOLOGICALS LIMITED





Scan this QR code to
download pdf version



Mehrotra Biotech Pvt. Ltd.

M&M TOWER B-22 23, VIBHUTI KHAND, GOMTI NAGAR, LUCKNOW- 226010

Tel + 91- 9838203524, 9838203399, 9769173005

E-mail: sales@mehrotrabiotech.com, service@mehrotrabiotech.com.

Website: www.mehrotrabiotech.com

OUR BRANCH OFFICES

LUCKNOW

DELHI

MUMBAI

HYDERABAD

BANGALORE

KOLKATA

AHMEDABAD

