

# MEHROTRA<sup>®</sup> Biotech

Smart Technology. Trusted Protection.



Manufacturer of Laboratory Equipment / Custom Solutions

## WHAT WE DO?

Mehrotra Biotech Pvt Ltd has been established with an aim to contribute to the enhancement of medical-hospital, pharmaceutical, biotechnological, and general laboratory services through the provision of high-quality innovative solutions, ensuring an improved quality of life and well-being for society at large.

Our primary objective is to deliver customized solutions that precisely align with the unique requirements of our customers. To achieve this, our dedicated functions including engineering, R&D, manufacturing, and customer service are focused on each technology within Mehrotra Biotech's area of expertise:

- We offer solutions and equipment for clean air technology, encompassing both horizontal and vertical laminar flow cabinets, biological safety cabinets, and laminar flow systems.
- Our portfolio includes solutions and equipment for advanced sterilization utilizing Autoclaves, Ovens, and incubators.
- We specialize in solutions and equipment employing biological containment technology, such as containment isolators and sterile isolators.
- Additionally, we provide solutions and equipment utilizing freeze drying and vacuum drying technology, ranging from laboratory freeze dryers to GMP freeze dryers.

By offering these comprehensive solutions, we aim to continually improve and advance the various sectors we serve, ensuring the highest standards of quality, safety, and efficiency in medical and laboratory practices.

***"Our aim is to provide tailor-made solutions in strict accordance to the needs of customers."***

## OUR MISSION

Our mission is to empower individuals and communities through innovative solutions and exceptional service. We are committed to providing high-quality products and services that address the needs of our customers and contribute to advancements in scientific and medical research. Guided by our core values of integrity, collaboration, and social responsibility, we strive to make a positive impact on society, while prioritizing environmental sustainability and community healthcare. Through our dedication to excellence and the expertise of our team, we aim to be a trusted partner in shaping a healthier and more prosperous future for all.

## OUR VISION

Our vision is to be a leading innovator and catalyst for positive change, creating solutions that transform lives and shape a better future. With a commitment to excellence, creativity, and social impact, we strive to revolutionize Biomedical research & Pharmaceutical industry through cutting-edge design, forward-thinking strategies, and meaningful collaborations.

## OUR CERTIFICATIONS



CDSCO



ISO 13485



Temperature variations can reduce the shelf life and effectiveness of vaccines, medications, reagents, and other temperature-sensitive materials. Choosing a high-performance refrigerator or freezer is essential for laboratory and clinical environments.

**Mehrotra Biotech's PR Series Lab Refrigerator** offers:

- Reliable microprocessor-based temperature control
- Built-in data logger with non-editable printing
- Password-protected access control
- Remote monitoring for enhanced performance.

### OUR CUTTING EDGE CONTROLLER TECHNOLOGY

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**.
- User Access Controls**: The software allows administrators to define user roles and permissions, ensuring that only authorized personnel can access and modify parameters .



-The **in-built data logger** records temperature and system performance data, with the ability to download it to a USB device.

**Data Integrity**: The software ensures that data remains unaltered by providing mechanisms such as password protected access, audit trails, and data encryption.

-**Remote monitoring** is enabled through LAN connection, with data recorded in tabular and graphical formats. Furthermore, The PC software incorporates printing functionality, ensuring data integrity and compliance with 21CFR Part 11 guidelines.

## KEY FEATURES

**Double layered toughened glass door** : Provides insulation and visibility of the contents inside the refrigerator while maintaining temperature control.

**Adjustable shelves** : Allows flexibility in organizing the storage space based on the size and quantity of items being stored.

**Dual FAN** : to prevent freezing: Ensures even distribution of cold air throughout the refrigerator, preventing freezing and maintaining consistent temperature levels.

**Silent operation** : Operates quietly, minimizing noise disturbances in the lab environment.

**Energy efficient** : Designed to consume less energy, reducing electricity costs and environmental impact.

**Precise temperature control** : Offers accurate temperature settings to maintain specific storage requirements for different samples or substances.

**Inbuilt LED illumination** : Provides bright and uniform lighting inside the refrigerator for easy visibility of the stored items.

**Battery backup to controller** :Ensures continuous operation and temperature recording even during power outages, preventing spoilage of stored samples or substances.



## 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.

## TECHNICAL SPECIFICATIONS

| MODEL FEATURES                      | PR 360                                                       | PR 450         | PR 600         | PR 1000        | PR1200          |
|-------------------------------------|--------------------------------------------------------------|----------------|----------------|----------------|-----------------|
| Material of Construction (I/O)      | Pre-painted Galvanized sheets                                |                |                |                |                 |
| Dimensions (Internal) (WxDxH) in mm | 440x622x1235                                                 | 500x622x1490   | 620x677x1640   | 1100x622x1490  | 1100x677x1700   |
| Dimensions (External) (WxDxH) in mm | 520x722x1673                                                 | 580x722x1990   | 700x775x2200   | 1180x722x1900  | 1180x775x2200   |
| Set point                           | +4°C                                                         |                |                |                |                 |
| Capacity (L)                        | 360                                                          | 450            | 600            | 1000           | 1200            |
| Door Type                           | Glass Door / Solid Door                                      |                |                |                |                 |
| Door Closing                        | Automatic                                                    |                |                |                |                 |
| Weight (kg)                         | 83                                                           | 101            | 115            | 187            |                 |
| Circulation                         | Forced air circulation                                       |                |                |                |                 |
| Shelves                             | 4 (Adjustable)                                               | 5 (Adjustable) | 5 (Adjustable) | 8 (Adjustable) | 10 (Adjustable) |
| Display                             | 5" TFT Touch Screen                                          |                |                |                |                 |
| Refrigerant                         | R134a/R290                                                   |                |                |                |                 |
| Alarm                               | Power failure, Low Battery, Temperature variation, Open door |                |                |                |                 |
| Battery backup                      | 12 hours                                                     |                |                |                |                 |
| Voltage supply                      | 230V, 50Hz.                                                  |                |                |                |                 |
| Power Consumption                   | 330 W                                                        | 450 W          | 550 W          | 660 W          |                 |
| Chart Recorder                      | Optional                                                     |                |                |                |                 |
| USB Port                            | Yes                                                          |                |                |                |                 |
| Door Lock                           | Yes                                                          |                |                |                |                 |