

*Reliable, Efficient and Safe*



## **BLOOD BANK REFRIGERATOR**

**BDS - 450R**

### **LIFETIME WARRANTY CONSTRUCTION**

The external body is crafted from special stainless steel 304, renowned for its scratch resistance, hygienic properties, robustness and enduring durability. Its stylish and attractive appearance is designed to last a lifetime. Moreover, stainless steel is fully recyclable, contributing to environmental sustainability.

**7"**

Color touch screen display with user-friendly interface



Volume 450 L



High storage capacity of blood bags: 300 ( 450ml bag size)



Visual and audible alarm system provides enhanced safety feature



Heavy duty castors are fitted for ease of movement.



Data transfer via RS232 and/or flash memory



Password protection to prevent unauthorized use

## Features:

- Additional safety thermostat ensures maximum safety in the event of a cooling system malfunction.
- Integrated printer within the refrigerator to print events promptly and to record temperature readings from the upper and lower sensors periodically.
- Efficient compressor designed for faster temperature recovery.
- Door open alarm activates when the door remains open for an extended period.
- Monitors temperatures of the upper sensor, lower sensor, and the average temperature of the chamber.
- Internal LED light with on/off switch.



| Model                           | BDS - 450 R                                                                                                    |
|---------------------------------|----------------------------------------------------------------------------------------------------------------|
| Application                     | Storage of whole blood, blood components, blood products, Vaccines, and other medical and scientific products. |
| Temperature controller          | Microprocessor with touch screen display and USB for data transfer                                             |
| Interface                       | 7" color touch screen, user-friendly software                                                                  |
| Storage Volume/capacity         | 450 L /300 bags (450 ml)                                                                                       |
| Temperature Range               | 2.0°C ~ 10.0°C                                                                                                 |
| Set Point                       | 4.0°C                                                                                                          |
| Temperature Uniformity          | +/-1.0°C at 4.0°C setpoint                                                                                     |
| Readability                     | 0.1°C                                                                                                          |
| Security                        | Lockable door, password protected settings                                                                     |
| Alarms                          | High/Low temperature, door ajar, AC power failure, low battery                                                 |
| Event Log                       | Temperature error, door open/close, AC power failure, low battery                                              |
| Data print                      | Built-in printer                                                                                               |
| Temperature Graph               | Yes, via LCD screen                                                                                            |
| Communication Ports             | (1) USB Port, (1) RS232 Port and (1) Ethernet port                                                             |
| Battery Back-up                 | 20-hour display and alarm battery back-up (rechargeable 12V - 9AH)                                             |
| Exterior / Interior finish      | All made from 304 medical-grade stainless steel (316 stainless steel optional)                                 |
| Drawers                         | 6 drawers made from 304 stainless steel/storage capacity up to 52 bags each                                    |
| Lighting                        | LED Daylight, Auto-on, on/off switch                                                                           |
| Door                            | Triple-pan glass and heavy-duty door lock mechanism                                                            |
| Insulation                      | 51 mm non-CFC urethane/polyurethan foam insulation                                                             |
| Refrigeration System            | Forced-air circulation                                                                                         |
| Refrigerant type                | R134A non-CFC                                                                                                  |
| Compressor                      | 0.5 HP                                                                                                         |
| Electrical Power                | 220 -240V - 50/60Hz                                                                                            |
| Maximum Current                 | 6.0 FLA                                                                                                        |
| External dimensions HxWxD       | 2000 x 720 x 860 (mm)                                                                                          |
| Inner dimensions HxWxD          | 1370 x 600 x 550 (mm)                                                                                          |
| Net weight (kg)                 | 200 (kg)                                                                                                       |
| Gross weight (kg)               | 215 (kg)                                                                                                       |
| Castors                         | Smooth castors for optimum flexibility of movement                                                             |
| Environment working temperature | Designed and tested for climatic class SN<br>ambient temperature range +10°C to +32°C                          |
| Compliance                      | EN 60601-1:2006/A2:2021 / EN 60601-1-2                                                                         |



All measurements were taken at an ambient temperature of +25°C without any load applied. These values are approximate and subject to variation depending on the number of bags stored, variations in bag sizes from different manufacturers, and individual user practices in loading.

