



Refrigerator Series

Laboratory Refrigerator

PLT-143(B)



Laboratory Refrigerator

APPLICATION

- The PLT-143(B) Medical / Pharma Refrigerator is a high-performance, precision-controlled refrigeration unit specially designed for safe storage of medicines, vaccines, reagents, and pharmaceutical products. Built with SS 316 inner and outer construction, it ensures superior hygiene, corrosion resistance, and long service life.
- Equipped with a digital temperature controller, audio-visual alarm system, and full-view inner glass door, this refrigerator provides accurate temperature monitoring and easy visibility of stored contents.

SALIENT FEATURES

Key Features

- Precise microprocessor-based digital temperature control
- Forced air circulation for uniform cooling throughout the chamber
- Double-glazed glass door with heat-reflective film
- Digital temperature display with 1°C increments
- Slim, space-saving vertical design
- Energy-efficient cyclical defrosting system
- User-friendly digital control panel
- LED interior illumination
- Comprehensive audio-visual alarm system

Temperature Control & Performance

- Temperature Range: +2°C to +14°C
- Control Accuracy: Maintains stable temperature even with frequent door openings
- Sensor: Thermistor sensor with microprocessor control
- Airflow: Fan-forced air circulation for uniform temperature distribution

Construction Details

- External Cabinet: Galvanized steel with durable baked-on finish
- Internal Cabinet: Stainless Steel (SS)
- Insulation: High-density polyurethane foam
- Door: Sliding / Hinged double-paned glass door with heat-reflective & UV-protective film
- Shelves: Heavy-duty hard steel wire shelves
- Access Port: Ø30 mm on rear wall

Defrosting System

- Type: Cyclical defrosting with evaporator temperature detection
- Benefit: Prevents unnecessary temperature rise and improves energy efficiency

Laboratory Refrigerator

Alarm & Safety Functions

- High / Low Temperature Alarm
- Door Ajar Alarm (time delay adjustable)
- Visual Display Flashing + Buzzer Alert
- Alarm settings programmable via control panel

Lighting & Mobility

- Interior Light: LED, automatic ON/OFF with door operation
- Mobility: Heavy-duty casters for easy movement

Refrigeration System

- Compressor: Hermetic type, energy-efficient
- Refrigerant: Eco-friendly HFC
- Evaporator: Fin & Tube with forced air circulation
- Condenser: Wire & Tube

Electrical Requirements

- Power Supply Options:
 - 220–240 V AC, 50 / 60 Hz
- Low power consumption design

Optional Accessories

- Temperature recorder
- Data acquisition interface board
- Battery backup module

Quality & Compliance

- Designed for medical & pharmaceutical standards
- Reliable performance for critical temperature-sensitive storage
- Specifications subject to improvement without prior notice

Established: **1950's**

- **ISO-certified** manufacturer of lab & medical equipment

- **Based** in New Delhi & Gurugram, India

- **Supplies** to hospitals, pharma, research & labs

- **Exports** globally



- **Based in** New Delhi, & Gurugram, India

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TANCO LAB PRODUCTS

(M/s P. L. Tandon & Company)



Product Categories



Sterilization & Thermal

- Autoclaves / Sterilizers
- Ovens
- Furnaces



Controlled Environments

- Clean Room Equipment
- Incubators
- Freezers & Refrigerators
- Testing Chambers



Fluid & Sample Handling

- Water Baths & Circulators
- Lab Shakers & Mixers
- Water Distillers
- Vacuum Pumps



Specialized Testing

- Lab Meters
- Pharmaceutical Testing Equipment
- Healthcare Equipment



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Company Information

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