



AN ISO 9001 2008 CERTIFIED CO.

Touching tomorrow....



Constant focus on technology & innovation

Leading in diversity

Strong culture of performance

Believing in trust & teamwork

Ambitious long term goals

Sustainable Strategy

**P. L. TANDON & CO.**  
**205-B, Apra Plaza, Commercial Complex**  
**Road No. 44, Pitampura, New Delhi-34**  
**Ph: 011-27027278/79**  
**Email: [info@tancolabproducts.com](mailto:info@tancolabproducts.com)**  
**Website: [tancolabproducts.com](http://tancolabproducts.com)**

## APPLICATIONS

- Tanco's Laboratory Refrigerators are designed to store materials under low and constant temperature conditions for hospitals, blood banks, research institutes, universities, the Biotechnology and pharmaceutical industry, gene engineering, the Food and beverages Industry, Blood Banks etc. The Laboratory refrigerator is also used in the field of agricultural research.
- Laboratory Refrigerators are designed specifically to meet the demanding temperature requirements which not only mean low but also stable temperatures for safe medicines and vaccine storage. Their requirement also involves dust free environment.
- The product design shall accommodate the purchaser's local conditions, including power supply, climate, temperature, humidity, and other environmental factors, to ensure normal storage and operation.

## SALIENT FEATURES & CONSTRUCTION

- It is general-purpose refrigerator used for the storage of drugs, vaccine, sample and reagents.
- Low energy consumption.
- Designed to minimize noise and vibration levels, ensuring a quieter and more stable performance.
- Heavy-duty, industrial-grade design with hermetically sealed components for maximum reliability and durability.
- Outer chamber is made of CRC Sheet duly powder coated and mounted on caster wheels for easy movability.
- Inner Chamber made of Stainless Steel (304 grade).
- Smooth, scratch-resistant painted interior and exterior surfaces provide a long-lasting, easy-to-clean finish that withstands heavy use.
- **Capacity: 450 Litres**
- Positive, forced-air circulation system ensures consistent temperature distribution throughout the cabinet, maintaining uniformity at all shelf levels.
- High Grade PUF insulated between outer and inner chamber for minimal thermal loses.
- Supplied with a robust locking mechanism and a minimum of two keys, ensuring authorized access and added security.
- Lockable doors self-close, ensuring a tight seal against the closed-cell peripheral gasket, maintaining temperature integrity and preventing unauthorized access.
- Spring-loaded door closures allow doors to stay open at 90°, facilitating easy loading and unloading.
- Full-view glass door(s) with double-pane construction eliminate condensation, providing an unobstructed view of stored contents.
- High-density, CFC-free urethane foam insulation ensures optimal temperature stability, shielding the cabinet from ambient temperature fluctuations.
- Temperature range 2°C to 8°C factory pre-set at 4°C and enlarged digital display with resolution to within 0.1°C.
- Directional airflow technology quickly restores optimal temperature conditions after door openings, minimizing temperature fluctuations.
- Features icon-based controls and displays with graphic references, enabling universal operation and easy navigation for users worldwide.
- Temperature is controlled by Microprocessor temperature controller with adjustable temperature control.



**Model No.: PLT-143(B)**

## **LABORATORY REFRIGERATOR**

- Illuminates the interior chamber when the door is opened, providing convenient visibility and ease of use.
- Interior cabinet lights feature a door-activated ON/OFF switch and an independent override switch on the control panel, providing flexible lighting control.
- Graphic thermometer provides real-time temperature status with clear, color-coded alerts:
  - Steady green: Normal operation
  - Flashing top bar: Over-temperature warning
  - Flashing bulb: Under-temperature warning
- Provides audio/visual warnings for over/under temperature and power failure, along with visual status reports on critical functions for enhanced monitoring and control.
- Advanced defrost sensor optimizes defrost cycles, minimizing frost accumulation and ensuring efficient operation.
- Key-Operated Triple-Position Master Switch: Controls power to all systems, providing set point security and authorized access.
- Supplied with 5 adjustable stainless steel shelves, allowing for flexible configuration to accommodate various storage needs.
- Whole unit is mounted on castor wheels for easy portability.
- Adjustable, full-extension stainless-steel drawers provide easy access and customizable storage for organization and convenience.
- Battery backup system ensures continuous control panel function during power outages.
- Automatic condensate removal system eliminates the need for drain lines, providing a convenient and hassle-free operation.
- Adjustable front legs provide flexibility and ensure the unit remains stable and level on uneven surfaces.
- An external voltage corrector/stabilizer with suitable ratings is supplied to protect the unit from voltage fluctuations and ensure stable operation.
- Supplied complete with cord & plug to work on Single Phase 220-240V/50 Hz AC fitted with appropriate plug. The power cable must be minimum 3 meters long.