

## DEEP FREEZER VERTICAL (-20°C)



### APPLICATIONS

- Preservation of biological samples, serum, plasma, and tissue specimens.
- Long-term storage of vaccines, enzymes, DNA/RNA samples, and cell cultures.
- Storage of pharmaceuticals and clinical reagents at controlled low temperatures.
- Used in research laboratories, biotechnology, hospitals, and blood banks.
- Preservation of bacterial and viral cultures for future analysis.
- Industrial applications for testing materials under low-temperature conditions.
- Used in environmental studies for storing soil and water samples.
- Ideal for quality control laboratories and R&D centres needing ultra-low temperature preservation.

### KEY FEATURES

- **Vertical (Upright) Design:** Space-saving structure with multiple shelves for easy sample access and organization.
- **Efficient Cooling System:** Uses high-performance compressors and eco-friendly refrigerants for fast pull-down and stable temperature.
- **Microprocessor-Based Temperature Controller:** Ensures precise temperature control with digital display and alarm system.
- **Uniform Temperature Distribution:** High-density insulation and forced-air circulation maintain uniform cooling inside the chamber.
- **Safety Alarms:** Audio-visual alarms for temperature deviation, power failure, or door open conditions.
- **Lockable Door & Gasket Sealing:** Prevents unauthorized access and maintains internal temperature stability.
- **Stainless Steel Inner Chamber:** Corrosion-resistant and easy to clean for long service life.
- **Low Noise & Energy Efficient Operation:** Designed for continuous laboratory or hospital use.
- **Castor Wheels:** For easy movement and installation in laboratory environments.
- **Optional Data Logger/Printer:** For temperature recording and compliance documentation

## TECHNICAL MATRIX

Model No	PTE-DF-510 A	PTE-DF-510 B	PTE-DF-510 C	PTE-DF-510 D	PTE-DF-510 E
Capacity Cu. ft.	4 Cu. ft.	6 Cu. ft.	10 Cu. ft.	12 Cu. ft.	15 Cu. ft.
Inner Size in mm (WxDxH)	450x410x610	400x500x845	560x570x870	650x580x900	700x650x900
Capacity	112 Litres	170 Litres	285 Litres	340 Litres	424 Litres
No of Shelves	2	2	3	3	3
Temperature Range	0 to -20°C				
Temp Controller	By Microprocessor Based PID Digital Temperature Indicator cum Controller				
Temp. Accuracy	±1°C				
Display	LED Display for Set Value(SV) and Process Value (PV)				
Relay	Solid State electronic Relay with heat sink				
Insulation	High Density PUF insulation				
Operations	Silent operation				
Electric Supply	220 230 Volts AC supply				

## OPTIONAL ADD ONS

- High & Low Deviation Alarm
- Built In Thermal Printer To Record Temperature
- PLC HMI Touch Screen Display
- Battery Backup System Through UPS System
- Communication Port For Taking Data Through PC Desktop
- Voltage Stabilizer
- Customized Model Are Also Available In Large Capacities
- Available In Horizontal Model Also