

HOT AIR OVEN



APPLICATION

- Sterilization of Laboratory Equipment
- Drying of Samples.
- Baking and Curing
- Heat Treatment of Materials
- Testing of Materials
- Evaporation of Moisture Content
- Pharmaceutical Applications
- Food Industry Applications

KEY FEATURES

Temperature Range: Usually from 50°C to 250°C (optional up to 300°C).

Heating System: Uniform forced air circulation by blower/fan ensures even temperature distribution.

Construction:

- **Double-walled chamber** – inner chamber made of stainless steel (SS 304).
- **Outer body** made of mild steel with powder coating or SS finish.
- **Insulated with glass wool** to minimize heat loss.

Temperature Control:

- Digital temperature controller cum indicator (PID / Microprocessor based).
- $\pm 1^\circ\text{C}$ or better 0.5°C accuracy.
- Digital display with automatic cut-off and timer option

Shelves: Removable SS perforated trays/shelves for adjustable spacing.

Air Ventilation: Adjustable air vents for fresh air circulation and moisture removal.

Safety Features:

- Over-temperature cut-off system.
- Thermostatic safety control.
- Door gasket with heat resistance.

Observation Port (optional) For monitoring samples without opening the door

Door Gasket: Silicon or neoprene gasket to prevent heat leakage

Power Supply: 230V AC single phase or 440V three phase (depending on size)

TECHNICAL MATRIX

MODEL	PTE-401 A	PTE-401 B	PTE-401 C	PTE-401 D	PTE-401 E	PTE-401 F	PTE-401 G
Inner Size mm (W x D x H)	300x300x300	355x355x355	455x455x455	455x455x605	605x605x605	455x605x910	605x605x910
Inches Conversion	12" x 12" x 12"	14" x 14" x 14"	18" x 18" x 18"	18" x 18" x 24"	24"x24"x24"	18"x24"x36"	24"x24"x36"
Capacity	28 LTRS	48 LTRS	98 LTRS	120 LTRS	215 LTRS	240 LTRS	336 LTRS
Heating Load	1.0 KW	1.0 KW	1.5 KW	1.5 KW	2.5 KW	2.5 KW	3.0 KW
No. of Shelves	2	2	2	2	2	3	3
Temp. Range	50°C to 250°C						
Insulation	Glass Wool						
Temp. Controller	Microprocessor based PID indicator cum controller						
Air Circulation	By F.H.P motor (Fractional Motor)						
Temp. Accuracy	±1°C. or better 0.5 °C						
Temp. Display	LED / LCD / Touch screen HMI PLC Display						
Supply	220/230 Volts Single Phase 50 Hz						

OPTIONAL ADD-ONS

1. Digital Timer of 9999 digits
2. HMI PLC touch display
3. Extra Air Circulation Motor
4. 300 to 400 °C models are also available with us
5. Other customizations sizes are also available with us