

VACUUM OVEN



APPLICATION

- **Drying of Heat-Sensitive Materials** Ideal for drying powders, granules, and samples that may degrade or oxidize at high temperatures. Moisture Removal Under Vacuum Efficiently removes moisture, solvents, and other volatile substances from samples without damaging them.
- **Pharmaceutical Industry** Used for drying active pharmaceutical ingredients (APIs), drug formulations, and glassware.
- **Electronics Industry** Used to dry delicate electronic components, PCBs, and assemblies to prevent oxidation and moisture damage.
- **Food Industry** Used for vacuum drying of food products to retain nutrients, color, and texture.

KEY FEATURES

Construction:

- **Inner Chamber:** Stainless Steel (SS 304 / 316) for corrosion resistance
- **Outer Body:** Mild Steel with powder coating or Stainless Steel finish
- **Vacuum Drying System:** Enables drying under reduced pressure, minimizing oxidation and contamination.
- **Uniform Heat Distribution:** High-quality heating elements and jacketed design ensure even temperature across the chamber
- **Temperature Range:** It operates from ambient +10°C to 200°C
- **Vacuum Range:** Can achieve up to up to 760 mm Hg vacuum level
- **Digital Temperature Control:** Equipped with PID digital controller for precise temperature regulation.
- **Observation Window :** Toughened glass window for internal visibility under vacuum.
- **Vacuum Gauge & Valve:** Built-in vacuum gauge, air release valve, and vacuum inlet/outlet ports
- **Door Seal:** High-quality silicone or gasket for airtight sealing
- **Safety Features:**
 - Over-temperature protection
 - Overload and short-circuit protection
- **Shelves/Trays:** Removable and adjustable stainless-steel shelves for flexible use.

TECHNICAL MATRIX

MODEL NO.	PTE 404 VORO A	PTE 404 VORO B	PTE 404 VORO C	PTE 404 VORE A	PTE 404 VORE B	PTE 404 VORE C
Sizes Dia x Depth mm	250X300	300X300	300X500	300X300X300 (WxDxH)	355X355X355 (WxDxH)	455X455X455 (WxDxH)
Inches LXBxH Conversion	10" X 12"	12" X 12"	12" X 20"	12" X 12"X12"	14" X 14"X14"	18" X 18"X18"
Heating Load	2.0 KW	2.0 KW	2.5 KW	2.5 KW	2.5KW	3.0KW
Capacity in Ltrs	15 LTR	21 LTR	36 LTR	28 LTR	48 LTR	98 LTR
No. of Shelves	1	1	1	1	2	2
Temp. Range	Ambient Above +10°C To 200°C					
Temp. Controller	By Microprocessor Based PID Digital Temperature Indicator Cum Controller					
Accuracy	+1°C.					
Vacuum pump	By Compatible Rotary Oil Sealed Or Noise Free Vacuum Pump					
Relay	Solid State Electronic Relay With Protective Heat Sink.					
Vacuum range	0-760 Mm/Hg					
Supply	220 /230 Volts Single Phase 50 Hz					

Note:- Model is available in two type Round chamber and Rectangular chamber

OPTIONAL ADD-ONS

Vacuum Pump	Rotary oil sealed or oil free vacuum pump
Vacuum Indicator	Digital Vacuum Indicator having different SI units like Pa/Kpa,torr/bar/etc
Timer Facility	Can be in built with Digital Electronic Timer
Communication Port	with interface and data cable to download data to your PC
	Customized sizes are also Available in both round and rectangular