

TSL

Scientific Instrument Private Limited

DIGITAL HOT AIR OVEN

The Hot Air Oven is ergonomically designed with latest German Technology for guaranteed performance. The Equipment has a user friendly, head-up Control panel for convenience and ease in operations. The Inner Chamber is made up of triple walled special grade stainless steel. Two perforated Stainless Steel shelves are provided for keeping the samples. The inner walls are made of Stainless Steel and outer walls of mild steel PCRC sheet, duly powder coated. The forced air circulation system, with a horizontal blower, keeps the temperature in the inner chamber uniform and consistent. The Temperature Range is from ambient to 250° C with an accuracy of $\pm 1^\circ \text{C}$. It has 2 special Heaters of 750 watts each. The Heaters are made of high-quality chrome wire and finest ceramic Beads. The Heaters are duly placed in, specially fabricated deep drawn ribs, in the Inner Stainless Steel Chamber, for uniform Temperature in the Oven. The insulated Door is fixed with toughened Glass view panel, so that the sample inside can be viewed without disturbing the Temperature. The complete circuitry is on the top, with a special cooling Fan, to let the Oven run continuously for unusually longer hours. A specially fabricated door with specially designed handle keeps the inside temperature completely stable. The specially fabricated footrest keeps the whole oven in correct equilibrium. The equipment adheres to CE requirements as a special MCB is provided at the back to protect the unit from sudden (high or low) Voltage fluctuations. The unit is fixed with Caution and other stickers, as per International Safety norms.



- **Microprocessor based programmable Temperature-** Our digital Controllers offer high speed, high precision, and multiple I/O and use a 5-digit, 3-row LCD display for high visual clarity. A short sampling period of 50 ms enables use in applications requiring high-speed response. PV, SP, and MV data is displayed simultaneously in a 3-row, negative LCD display with a backlight. Multi-loop control, cascade control, and proportional control are possible with a single Controller. When using models with communications functions, initial settings can be downloaded and settings can be masked using Support Software (Thermo Tools). Equipped with calculation functions as a Standard (e.g., square root calculation and broken-line approximation).

• APPLICATION

- Forced convection system ensures good mixing, strong dispersion and maintains higher temperature uniformity inside the chamber.
- Most ideal for various experiments in microbiology, cell cultivation of animals and plants and food for various laboratories, industries, R & D labs etc.
- Synthetic door gasket made of neoprene on the double walled door.
- User oriented design of shelves makes you adjust each space of shelves without difficulty.
- Adjustable two ventilation slides control inner air/ vapour circulation. Beaded heating elements are placed in ribs, at bottom and sides for uniform heat distribution.
- Over-temperature protection.

• TECHNICAL SPECIFICATION AND FEATURES

- Body made of PCRC sheet duly powder coated.
- Inner chamber and perforated trays made of Stainless Steel (SS-304)
- Space between inner chamber and outer wall is filled with high grade mineral wool for minimal heat dissipation.
- Bigger sized units mounted on casterwheels for easy portability.
- Door fitted with heavy duty hinges and door handle ensuring there are no leakages through the door gasket.
- To work on 220/230VAV, 50/60 Hz supply.
- Optional LCD display
- Optional Glass Door with Table Top Model -03/03-1/03-2

MODEL	TSLO-03	TSLO-03-1	TSLO-03-2	TSLO-03-4	TSLO-03-5
Internal Dimension (WDXH) (mm)	300x300x300	355x355x355	455x455x455	455x455x605	605x605x605
Capacity	28 ltrs	45 ltrs	95 ltrs	125 ltrs	224 ltrs
Gross Weight(kg)Approx	51	66	115	145	165
Heat Load	0.75 KW	0.75 KW	1.50 KW	1.50 KW	2.25 Kw
*No. of Shelves	2	2	2	2	2
*Temperature Range	50°C to 250°C				
Type	Available with or without forced convection system				
Temp. Controller	Hydraulic type capillary thermostat				
Temperature Accuracy	+/-1°C				
Temp. Display	Thru L-shaped prismatic thermometer				

MODEL	TSLO-03-5	TSLO-03-6	TSLO-03-7	TSLO-03-8
Dimensions (WDXH) (mm)	605x455x910	605x605x910	600x900x900	900x900x900
Capacity	252 ltrs	336 ltrs	500 ltrs	750 ltrs
Heat Load	2.25 KW	2.25 KW	3.75KW	4.5 KW
*No. of Shelves	3	3	3	3
Gross Weight(kg) Approx	175	185	205	225
*Temperature Range	50°C to 300°C			
Type	Available with or without forced convection system			
Temp. Controller	Hydraulic type capillary thermostat			
Temperature Accuracy	+/-1°C			
Temp. Display	Thru L-shaped prismatic thermometer			



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ISO 9001:2015

IEC 61010-1/ IEC 61326-1 Electrical Equipment Package & 2006/95/EC Low

Customize able as per customer requirement