

Hot Air Oven

Hot Air Sterilization - Dry Heat Sterilisation

**LuxMed**[®]
Healthcare Redefined



STD. Model

GMP Model

Hot air ovens are used in laboratories and other industries to sterilize equipment, dry materials, and more. They can also be used to test environmental stresses like temperature changes.

Hot air ovens have many applications, including sterilization, drying, curing, and testing. They are used in laboratories, hospitals, and manufacturing.

Industries that use hot air ovens Pharmaceuticals, Food processing, Laboratories, and Microbiology.

How they work

- * Hot air ovens circulate hot air inside an insulated chamber
- * They control temperature for even heating
- * They use conduction to sterilize items by heating the outside surfaces of the item.

Sterilization

- * Used to sterilize medical instruments, glassware, and other medical tools
- * Used to sterilize pharmaceutical products
- * Used to kill bacteria from products.

Drying

- * Used to dry food, chemical compounds, and other materials
- * Used to dry samples in laboratories

Curing

- * Used to cure paints and coatings in manufacturing
- * Used to increase the toughness and quality of finishing on the final product

Testing

- * Used to test food items, pharmaceutical products, and consumable materials
- * Used to assess the heat resistance of microorganisms
- * Used to evaluate bacterial spores
- * Used to detect alterations in material properties
- * Used to determine durability under elevated temperatures

Other applications Used to preserve microbial cultures, Used to prepare materials, and Used to heat treat products.

Hot air ovens use precise temperature control and forced air circulation to ensure consistent and precise testing conditions.

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Proprietary Designs Disclaimer – LuxMed[®] all product and engineering solutions are proprietary designs for software, control, operational process, colour, electronics design, shelves arrangement physical constructions and form factor.

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Features

- **Designed for critical laboratory applications for controlled temperature range up to 300°C with an accuracy of $\pm 0.5^\circ\text{C}$.**
- **Integrated built-in see-thru toughened glass window in the double-walled door.**
- **Forced convection model accounts for temperature uniformity and higher control accuracy.**
- **Auto cut-off of blower and heaters on door open position.**
- **Seamless rounded back edges of internal work chamber and semicircular arcs at corners ensures easy clean up and uniformities.**
- **Temperature Range : Upto 300 ° C**
- **Temperature Accuracy : $\pm 0.5^\circ\text{C}$**
- **Microprocessor Based Autotune PID temperature controller for PV/SV indication, timer, and cycle end alarm.**
- **Temperature Controller : Microprocessor Based Digital Temperature Indicator-Cum-Controller with LED OR LCD Display OR TFT Touch Screen Display Controller (Option).**
- **Inner chamber and adjustable trays are made of Stainless Steel (SS-304 grade).**
- **Outer body made of CRC Sheet duly powder coated.**
- **Horizontal on face cross-flow air circulation accounts for tighter uniformities and accuracy.**
- **Specially designed silicone door gaskets accounts for minimal heat dissipation and leakages thus accounts in electrical energy servings.**
- **To work on 220/230V AV, 50/60 Hz supply.**

MICROPROCESSOR DIGITAL CONTROLLER WITH LCD DISPLAY

Model	Display Type	Internal Dimension (WxDxH) (in mm)	Capacity	Heat Load	No of shelves
#LM-HAOM-28(HO-LCD)	LCD	300x300x300	28 ltrs.	0.75 KW	2
#LM-HAOM-45(HO-LCD)	LCD	355x355x355	45 ltrs.	0.75 KW	2
#LM-HAOM-95(HO-LCD)	LCD	455x455x455	95 ltrs.	1.50 KW	2
#LM-HAOM-125(HO-LCD)	LCD	455x455x605	125 ltrs.	1.50 KW	2
#LM-HAOM-224(HO-LCD)	LCD	605x605x605	224 ltrs.	2.25 KW	2
#LM-HAOM-252(HO-LCD)	LCD	605x455x910	252 ltrs.	2.25 KW	3
#LM-HAOM-336(HO-LCD)	LCD	605x605x910	336 ltrs.	2.25 KW	3
#LM-HAOM-500(HO-LCD)	LCD	600x900x910	500 ltrs.	3.75 KW	3

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