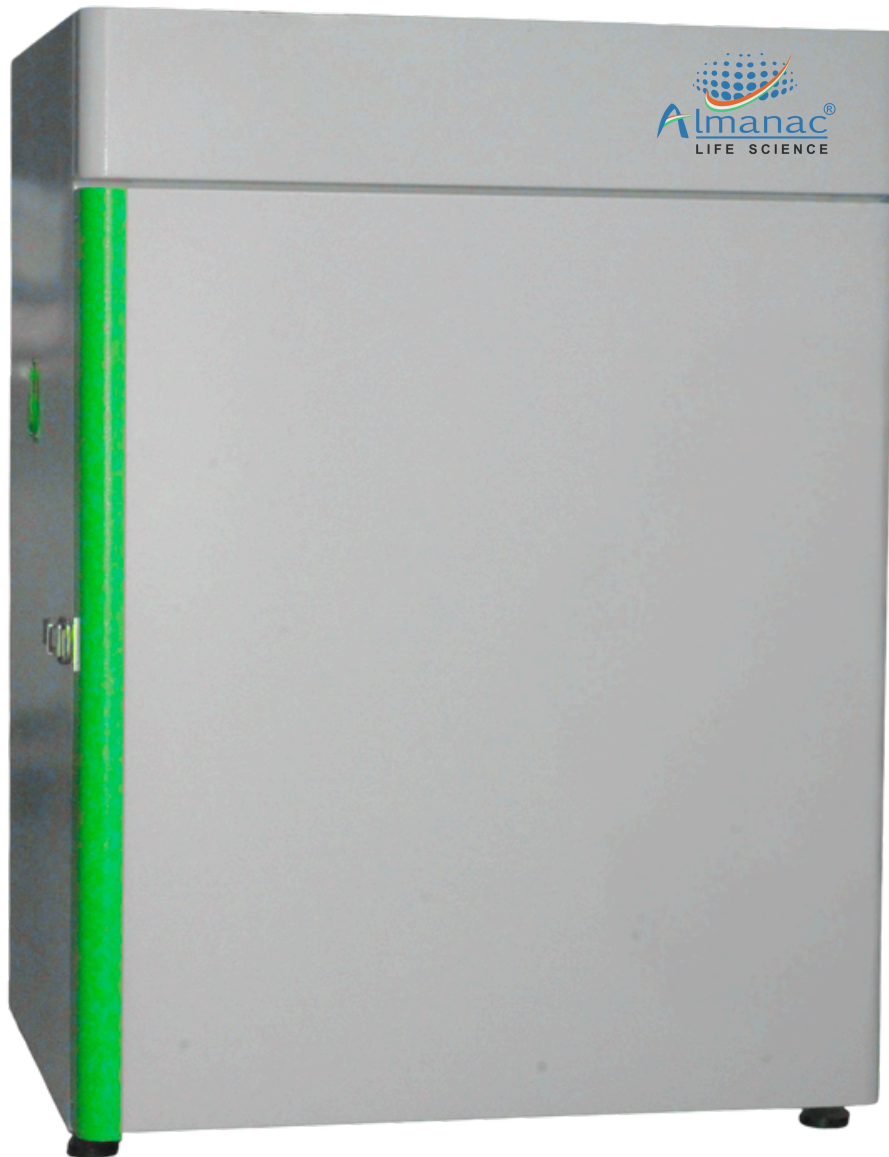


HOT AIR OVEN

ALS-INS056



DESCRIPTION

The Hot Air Oven is your go-to laboratory solution for sterilization and drying, engineered to ensure precision and safety. By circulating controlled hot air, it effectively eliminates moisture and destroys microorganisms on lab instruments, glassware, and heat-resistant materials. Equipped with customizable temperature settings, a timer, and advanced safety features, it guarantees consistent, reliable results every time. Perfect for research labs, pharmaceutical applications, and industrial settings, this oven is essential for maintaining sterile, contamination-free environments.

KEY FEATURES

- **Wide Temperature Range:** Operates from Ambient +5°C to 250°C (with optional extensions up to 350°C), making it perfect for both low-temperature drying and high temperature curing tasks.
- **Uniform Air Circulation:** Designed to ensure even airflow across the chamber, eliminating temperature fluctuations and delivering perfectly balanced heat distribution—no more hot or cold spots.
- **Smart Digital Control:** Equipped with a precision PID controller displaying both Set Value (SV) and Process Value (PV) for effortless monitoring and control, ensuring your processes stay accurate and on track.
- **Superior Temperature Uniformity:** Exceptional performance at high temperatures ensures that the entire chamber heats uniformly, delivering reliable results with every use.
- **Durable, Corrosion-Resistant Build:** The inner chamber is made from premium SS 304 stainless steel, ensuring durability, easy cleaning, and corrosion resistance. The exterior, constructed from powder-coated mild steel, GI sheet, or stainless steel, is designed to withstand harsh chemicals and environmental exposure, extending the oven's lifespan.
- **Fume Ventilation Points:** Strategically placed ventilation points on both sides releases fumes and gases safely, enhancing air quality and ensuring a safer working environment.
- **Stainless Steel Cable Trays:** Corrosion-resistant stainless-steel trays provide a solid and durable platform for your materials inside the oven.
- **Over-Temperature Protection:** Built-in safety mechanism that prevents overheating, safeguarding both the equipment and your samples.
- **Optional Accessories:** Customize your oven with explosion-proof heaters, digital timers, data loggers, circular chart recorders, HEPA filters, Touch screen control panel and caster wheels with lock for added flexibility.

TECHNICAL SPECIFICATION

Temperature range	Ambient +5°C to 250°C
Temperature accuracy	±1°C
Display	Digital display
Temperature sensor	PT100
Temperature controller	Microprocessor PID controller Display of SV & PV
Construction	Double walled
Inner chamber	Stainless steel 304 or Mild steel powder coated
Exterior Chamber	GI powder coated
Insulation	Glass Wool
Shelves	SS wire mesh cable trays(removable)
Door	Insulated solid door with clamp
Door gasket	Synthetic rubber gasket
Air circulation	Motor-driven blower assembly
Vent port	1 or 2 depending upon chamber size
Temperature variation and readability	±5°C
Safety feature	Over temperature protection
Circulation	Aero dynamic internal design for achieving horizontal air circulation

CONTROLLER FEATURES

- **Microprocessor PID Temperature Controller:** Equipped with a precise microprocessor-based PID temperature controller, providing clear display of both set value (SV) and process value (PV) for accurate monitoring and control.
- **Over-Temperature Alarm:** Includes an over-temperature alarm to alert users of any deviations, ensuring the protection of samples and maintaining safe operation within set parameters.
- **Auto-Tuning Function:** Features an auto-tuning capability, which optimizes temperature control settings automatically for consistent performance.
- **Timer Functionality:** The controller allows users to set operational timing, specifying how long the oven will be active, which enhances efficiency and conserves energy during scheduled use.
- **Password-Protected Temperature Settings:** Temperature adjustments are secured with password protection, ensuring that set parameters cannot be modified without authorization, adding a layer of security to critical settings.



ORDERING INFORMATION

MODEL NO.	SIZE (INCH) (LxDxH)	CAPACITY (LITRES)
ALS-28HAO	12" X 12" X 12"	28 L
ALS-45HAO	14" X 14" X 14"	45 L
ALS-95HAO	18" X 18" X 18"	95 L
ALS-125HAO	18" X 18" X 24"	125 L
ALS-160HAO	24" X 18" X 24"	160 L
ALS-216HAO	24" X 24" X 24"	216 L
ALS-250HAO	24" X 24" X 30"	250 L
ALS-340HAO	24" X 24" X 36"	340 L
ALS-500HAO	28" X 38" X 40"	500 L
ALS- 540HAO	30" x 40" x 48"	540 L
ALS-768HAO	32" X 32" X 48"	768 L
ALS-1000HAO	34" X 40" X 50"	1000 L
ALS-1600HAO	36" X 48" X 60"	1600 L

