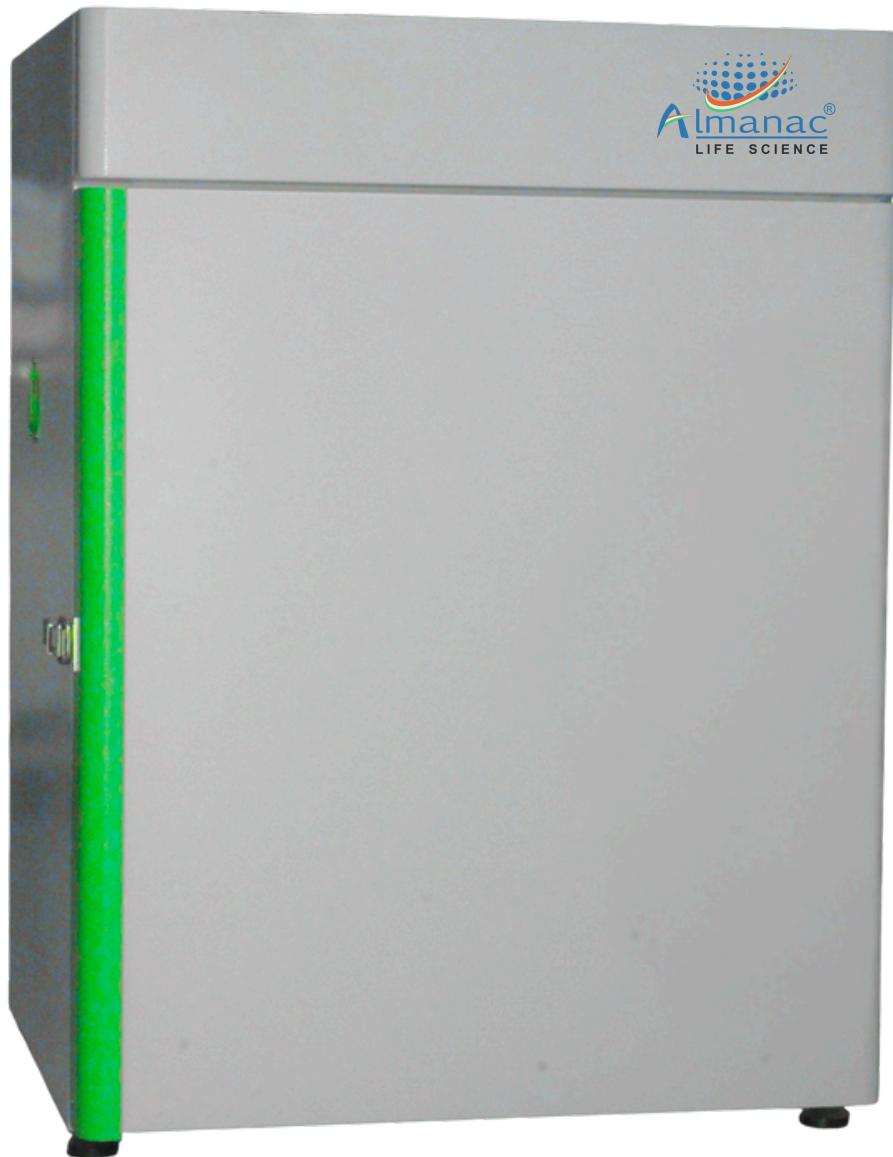


## HOT AIR OVEN

### ALS-INS056



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## 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

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

