

Hot Air Oven



+91 800 800 1805

info@labiconics.com

www.labiconics.com

Hot Air Oven

Lab Iconics Hot Air Ovens are designed to meet the requirement of temperature range from Above **50°C to 250°C** with forced air circulation for uniform temperature. These Ovens offer excellent temperature control and comes with number of optional features that assist you in making your research comfortable and reliable and widely used in life science, microbiology and many research applications.

A range of sizes are available from **42 litres to 324 litres**, and we can customize any size based on request with either single or double outer doors. All models are constructed with powder coated mild steel (stainless Steel optional) and stainless-steel interiors and each have high and low temperature audible alarms.



Features:

- *Microprocessor based, PID Digital Temperature Indicator and Controller.*
- *Temperature Range: 50°C up to 280°C (other range on request can be customized)*
- *Accuracy: $\pm 2.0^{\circ}\text{C}$*
- *Resolution: $\pm 0.1^{\circ}\text{C}$*
- *Capacity from 42 to 324 Litres (above 324 Litres on request)*
- *Forced air circulation for uniform temperature.*
- *Inner chamber made of Stainless Steel 304*
- *Outer surface made of Mild Steel with 7 Cycle powder process coats; SS Optional*
- *Safety Features: Low & high temperature cut-off settable thermostats.*
- *Superior everlasting glass wool insulation.*
- *Stainless steel adjustable trays*
- *Heavy duty castor wheels for easy movement for floor models.*
- *Micro PLC controller and 21 CFR Part 11 Compliance software - optional*

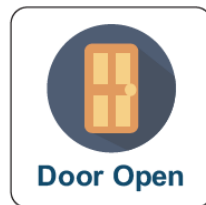
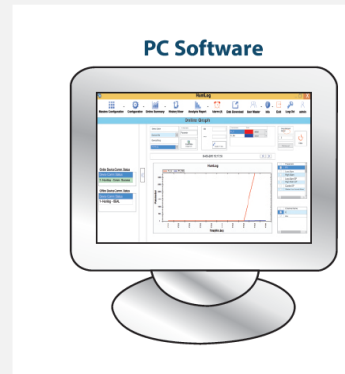
Technical Specification

Models	LIT-HAO-42	LIT-HAO-90	LIT-HAO-121	LIT-HAO-216	LIT-HAO-324
Capacity in Litres	42	90	121	216	324
Inner Chamber Size W x H x D in mm	350 x 350 x 350	450 x 450 x 450	450 x 600 x 450	600 x 600 x 600	600 x 900 x 600
No. of Shelves	2	3	3	3	4
Construction	Exterior: Powder Coated Mild Steel / SS (Optional); Interior: Stainless Steel				
Temperature Range	+50°C to 280°C (Other range on request can be customized)				
Temperature Accuracy	±2.0°C				
Temperature Resolution	0.1°C				
Controller	Microprocessor based Controller				
Heater	U Shaped Tubular Heater				
Sensor	PT 100				
Alarms	Audio Visual Alarms for Temperature Deviations				
Safety Features	Safety standby thermostat to cut off heater supply in case of overshoot of Temperature				
Fuse	Equipped with Slow Blow Fuse for protection				
Door	Standard hinged Single / Double doors with magnetic gasket with lock and key				
Insulation	Superior everlasting glass wool Insulation				
Trays	Perforated trays made of stainless steel				
Air Circulation	Forced air circulation				
Power	Single Phase 230 Volts AC, 50 Hz				

Optional Accessories

- Stainless Steel exterior
- Inbuilt Thermal Printer
- Chart Recorder
- Voltage stabilizer
- Digital Timer
- Datalogger with inbuilt storage.
- Micro PLC Controller and 21 CFR PART 11 Compliance Software


Micro PLC Controller and 21 CFR Part 11 Software



Features

- 7" TFT, 65536 Color Touch Screen Display
- 5 Temperature Channels for Control & Mapping
- Universal Input: Thermocouples, RTD Pt100, mA, V
- On-Off & Self Tune PID Temperature Control
- Settable 'Heat - Only', 'Cool - Only' & 'Heat + Cool' Control
- SSR or DC LINEAR (V / mA) Control Outputs
- Programmable Timer Delay for Compressor Switching
- In-built Programmable Timer
- Comprehensive Alarm System (Process Deviations, Door Open, Mains Fail)
- Standby Control Gadgets Interface (Optional Digital Outputs)
- Date / Time Stamped Process & Event Data Recording
- Password Protected Door Opening & Status Monitoring
- (Digital Input for Door Switch & Digital Output for Door Lock Solenoid)
- Mains-Fail Detection & Automatic Change Over to Battery / Inverter
- Serial Port for PC Interface with 21 CFR Compliant Software
- Optional GSM Interface Module for SMS Alert

PC Interface with 21 CFR Compliant Software

Supported Operating Systems (OS)	<ul style="list-style-type: none"> • Windows Vista, Windows 7, Windows 10 • 32 bit / 64 bit Windows 8 32 bit / 64 bit Pentium Dual Core
Minimum PC Configuration Requirements	<ul style="list-style-type: none"> • 2.8 GHz Clock Speed 2 GB RAM • 40 GB Hard Disk
PC Software Features (21 CFR Part 11 Compliant) 	<ul style="list-style-type: none"> • Supports Multiple Equipment on Single Installation • Auto Start-up on PC Power-up • Online Display of Process Values & Stored Records in Graphical & Tabular Forms with Alarm Indications • SMS and/or Email Alerts on Alarm Conditions • Mean Kinetic Temperature (MKT) Computation • Automatic Periodic Downloading of Records Stored in controller • Access Control According to Authority Level • User Actions with Signing & Authorization • Automatic Password Expiry • Manual & Auto Back-up Facility with Archiving • Data Log Reports with User Configurable Title, Footer & Header • Data Log Report, Alarm Log Report, History Graph & Audit Trail • Report in PDF & EXCEL formats • Audit Trail History of Critical Events & User Actions
Data Recording	
Storage Device	<ul style="list-style-type: none"> • In-built Flash Memory
Record Capacity	<ul style="list-style-type: none"> • 5,000 Records
Recording Interval	<ul style="list-style-type: none"> • User Programmable (1 to 250 Minutes)
Recording Data (Date/Time Stamped)	<ul style="list-style-type: none"> • Process Values <ul style="list-style-type: none"> • Measured Control & Mapping Temperatures • Events <ul style="list-style-type: none"> • Power-up • Process Value Alarm Toggle • Change in Control SP • Change in Date/Time Settings • Change in Recording Interval • Equipment Door Open/Close • Mains Power Fail/Resumption

Note: The product design and specification are subject to change.

For details, please contact:



LAB ICONICS TECHNOLOGIES LLP

Flat No.412 Emerald Block
My Home Jewel Apartments
Madinaguda, Hyderabad – 500049
India

M: +91 800 800 1805

L: +91 40 4012 0110

E: info@labiconics.com

W: www.labiconics.com