

# LAB OVEN

## Construction & Design Features

- Laboratory Ovens are Precisely Constructed and fabricated thereby giving consistency in performance and an aesthetic look.
- Unique air circulation system, heating system .
- Resin bonded glass wool insulation ensures temperature stability and reduced energy consumption.

## Control Panel Features

- Microprocessor-based PID controller with auto tuning for accurate control of temperature with printer interface module to store data with on line and off line printer option as per print time interval..
- Resistive type temperature sensor ( PT 100).
- A multiple 4 point temperature scanner with printer interface and PC interface facility for online mapping purpose.

## Safety Interlock Features

- Thermostatic/Digital safety system is provided as an additional safety feature.
- Dedicated Safety system to cutt off the heating system and chamber shut down in case of overshoot or undershoot of temperature with audio visual alarm.
- Ovens are provided with safety cut offs and alarms at centralised alert & security gate area.
- Electrical Safety fuses for short circuit protection.

## Software Features

- PC Communication Software for On line data logging .
- Records in graphical and in tabular form.

Complete documentation with extensive DQ, IQ, OQ and PQ protocols as per the International guidelines along with calibration certificates.

## Technical Data

- Standard Model(S):Inside S.S.304 with mirror polish & outside mild steel powder coated.
- GMP Model(G): Inside S.S. 316 with mirror polish (with white coating) & outside with S.S. 304 matt buff.
- Temp Range : 50°C To 250°C
- Temperature Accuracy :  $\pm 0.2^{\circ}\text{C}$

Optional Extras / Accessories
a) Digital PID controller with printer interface to connect EPSON Dot matrix line printer. Print interval programmable, can print date, time, temperature
b) PC interface for above controller with software on CD & hardware
d) Data logger: 4 point temp. + 4 point humidity data logger with sensors placed at specific points in chamber with printer interface and memory of 5000 readings per channel
e) PC interface for above controller with software on CD & hardware

MODEL	CAPACITY CU.FT/LTRS	INNER SIZE
IEC-EO/43	1.5 / 43	35 X 35 X 35 CM
IEC-EO/90	3 / 90	45 X 45 X 45 CM
IEC-EO/214	8 / 216	60 X 60 X 60 CM
IEC-EO/729	27 / 729	90 X 90 X 90 CM