

Forced Convection Oven

400 °C | 500 °C | High-Temperature

LAB1ST FCO400 and FCO500 High-Temperature Forced Air Ovens deliver industrial-grade performance with operating temperatures up to 400°C and 500°C respectively. Featuring a polished stainless steel interior with semi-circular corners for easy cleaning, these ovens incorporate advanced PID control with multi-segment programming (7 groups/63 steps) and independent over-temperature protection with auto shutoff.

Optional RS485 interface, built-in printer, and USB data storage enhance functionality. Ideal for demanding applications in research, mining, and industrial processing.



Features

- > **High-Temperature Design:** Maximum temp. 400°C (FCO400) or 500°C (FCO500)
- > **Polished Mirror-Finish Stainless Steel Chamber** with smooth semi-circular corners for easy cleaning. Shelves are freely adjustable and removable for flexible workspace organization.
- > **Advanced PID Fuzzy Logic Controller** ensures fast heating, precise temperature control, and exceptional stability.
- > **Ceramic Fiber Door Seal** offers superior high-temperature resistance and extended service life.
- > **Multi-Segment Programmable Controller** with intuitive menu-driven interface for simplified operation of complex experimental protocols.
- > **Programmable controller** supports up to 7 groups (63 segments total) with timer settings from 0 to 5999 minutes per segment, adjustable fan speed, and pre-set start/stop time and heating rate capabilities.
- > **Independent Over-Temperature Alarm System** automatically cuts off power when temperature exceeds the limit, ensuring safe and accident-free operation.

Options

FCO-RS485

RS485 interface and communication software



FCO-Printer

Embedded printer



FCO-DataExport

USB data storage and export



FCO-TestHole

Test hole (Ø25mm) for external probes or cabling



Specification

FCO400 Series >>>

Model	FCO400-50L	FCO400-100L	FCO400-200L	FCO400-760L
Temperature Range	RT+20 C ~400 C			
Display Resolution	0.1 C			
Temperature Stability	±0.5 C			
Ambient Temperature	+5~40 C			
Chamber Volume	50 L 1.77 cu ft	100 L 3.53 cu ft	220 L 7.77 cu ft	760 L 26.84 cu ft
Shelves	2 pcs	2 pcs	2 pcs	2 pcs
Internal Dimension (W×D×H, mm)	350×350×400	450×450×450	600×600×600	980×1000×780
External Dimension (W×D×H, mm)	890×700×920	990×790×990	1140×950×1140	1324×1263×1770
Power Consumption	3250 W	4050 W	4900 W	8500 W
Electrical Requirements	AC380V 50HZ			
Timing Range	0~5999min			

FCO500 Series >>>

Model	FCO500-50L	FCO500-100L	FCO500-200L	FCO500-760L
Temperature Range	RT+20 C ~500 C			
Display Resolution	0.1 C			
Temperature Stability	±0.5 C			
Ambient Temperature	+5~40 C			
Chamber Volume	50 L 1.77 cu ft	100 L 3.53 cu ft	220 L 7.77 cu ft	760 L 26.84 cu ft
Shelves	2 pcs	2 pcs	2 pcs	2 pcs
Internal Dimension (W×D×H, mm)	350×350×400	450×450×450	600×600×600	980×1000×780
External Dimension (W×D×H, mm)	890×700×920	990×790×990	1140×950×1140	1324×1263×1770
Electrical Requirements	AC380V 50HZ			
Power Consumption	4050 W	4900 W	6050 W	8500 W
Timing Range	0~5999min			

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