

## 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               |
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