

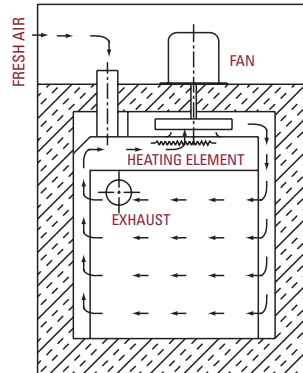
### ◆ LFC Class A Bench-top Oven

High performance laboratory oven for use with flammable solvents



The LFC Class A bench-top oven is specially designed to meet NFPA 86 requirements for applications that include flammable solvents or large amounts of moisture removal. They include a pressure relief panel, purge timer and exhaust fan. The LFC uses horizontal recirculating airflow to ensure uniform temperatures throughout the oven.

A high-volume fan circulates air through perforated, stainless steel walls to create a constant horizontal airflow across all sections of the oven. The result is proven reliability in demanding production and laboratory applications such as curing, drying, sterilizing, aging and other process-critical procedures.



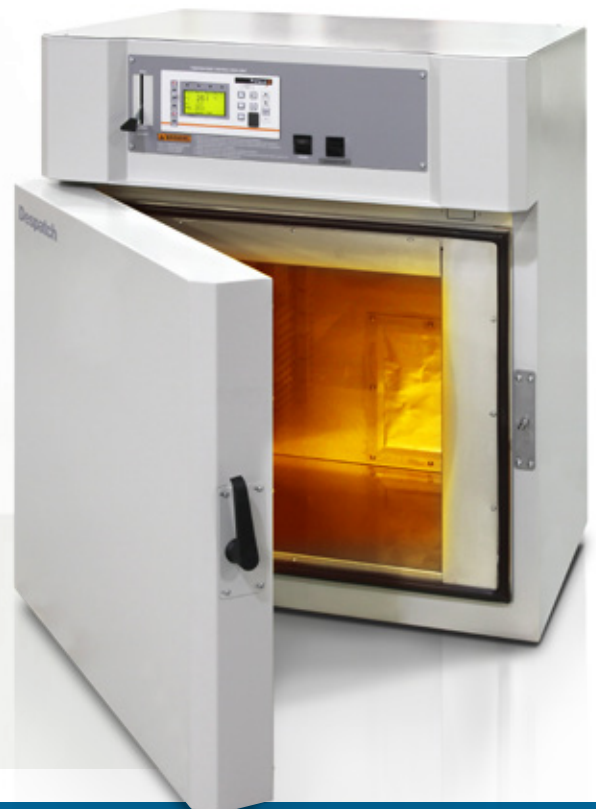
**Advanced control.** Protocol 3™ is a microprocessor-based temperature and hi-limit controller with large LCD display and real time clock for auto start capability. The LCD display shows temperature readings along with clear, detailed information on oven status. Data-logging functionality enables reporting and analyzing and data files can be exported via the controller's USB port. Modbus RS485 communications are included for easy data access.

**Easy to clean and service.** Cleaning is easy due to the scratch-resistant, baked enamel exterior, 304 stainless steel interior, and smooth door surface. Servicing is easy due to convenient top access to the heater and fan.

**Superior quality.** The Despatch LFC features sturdy, welded, double-wall construction, three inches (7.6cm) of glass fiber insulation and heavy-duty gaskets. Each oven receives a thorough quality and performance test before it is shipped. Heating elements carry a five-year warranty. All models have UL/C-UL listed 508A control panels

#### FEATURES AT A GLANCE

- ◆ 3.8 and 12 cu ft (105 and 340 liter)
- ◆ Maximum temperature of 260° C (500° F)
- ◆ Class A package meeting NFPA 86 requirements for flammable solvents
- ◆ High limit over-temperature protection
- ◆ Protocol 3™ control with large LCD display, integrated data logging capabilities and USB port for simple oven set-up and data export
- ◆ PC interface for remote input, monitoring and recording (RS485 connection)
- ◆ End-of-cycle and high-limit indicators
- ◆ Robust type 304 stainless steel interior



| LFC  | 1-38 (240V)                                   | 2-12                                    |
|--|---|---|
| <b>PHYSICAL SPECIFICATIONS</b>   |   |   |
| Chamber size (width x depth x height)<br>* Clear opening width is reduced by 3/4" (1.9 cm) due to 3/8" (.95 cm) shelf supports on each side. | 19* x 18 x 19 in.<br>48* x 45 x 48 cm         | 23.8* x 24 x 36 in.<br>61* x 61 x 91 cm |
| Capacity in cubic feet (liters)  | 3.8 (105)                                     | 12 (340)                                |
| Overall size (width x depth x height)  | 31 x 33 x 38 in.<br>(78 x 84 x 97 cm)         | 36 x 39 x 55 in.<br>91 x 100 x 139 cm   |
| Electrical single phase 50/60 HZ<br>* Operating at 208V will result in a 25% reduction in heater output. (Unless conversion kit is used)     | 240* volt<br>22.7 amp<br>Heater: 4.8 KW       | 240* volt<br>29.1 amp<br>Heater: 6.0 KW |
| Number of shelves provided   | 2   |   |
| Maximum number of shelves on 2 in. (5 cm) centers  | 9   | 17                                      |
| Exhaust diameter located on back   | 4 in (10.2 cm) opening                        |   |
| Cord and plug  | None - Hardwire                               |   |
| Number of doors  | 1   |   |
| Approximate net weight   | 185 lbs (84 kg)                               | 370 lbs (168 kg)                        |
| Approximate shipping weight  | 290 lbs (132 kg)                              | 490 lbs (222 kg)                        |
| <b>FUNCTIONAL SPECIFICATIONS</b>   |   |   |
| Time to temperature with no load (40°C to 100°C)   | 4 minutes                                     | 5 minutes                               |
| Time to temperature with no load (40°C to 200°C)   | 13 minutes                                    | 18 minutes                              |
| Time to temperature with no load (40°C to 260°C)   | 20 minutes                                    | 30 minutes                              |
| Recovery time after door open for 1 minute (100°C)   | 1 minute                                      | 1 minute                                |
| Recovery time after door open for 1 minute (200°C)   | 4 minutes                                     | 6 minute                                |
| Recovery time after door open for 1 minute (260°C)   | 8 minutes                                     | 9 minute                                |
| Temperature uniformity   | +/- 2% of setpoint                            |   |
| Operating range with 20° C ambient   | 40° C -260° C (104° F-500° F)                 |   |
| Control stability  | +/- 0.5° C                                    |   |
| Repeatability  | +/- 0.5° C                                    |   |
| Maximum load capacity  | 175 lbs. (79 kg)                              | 300 lbs. (136 kg)                       |
| Maximum shelf capacity   | 50 lbs. (23 kg)                               |   |
| Solvent handling capacity at 177° C (350° F)   | 0.02 G.P.H. (0.076 LPH) Toluene or equivalent |   |
| Exhaust capacity   | 20-50 CFM (9.4- 23.6lps)                      |   |
| Recirculating fan  | 1/4 HP 300 CFM (141 lps)                      | 1/2 HP (2-1/4 HP)<br>600 CFM (282 lps)  |

Notes: Uniformity figures are based on a nine-point test conducted in an empty oven after stabilization period. Uniformity can vary slightly depending on unit and operating conditions. Minimum operating temperature and cooling times are based on 20°C ambient temperature measured at the fresh air inlet. Specifications are subject to change without notice. If the existing specifications differ from yours, ask about our customizing capabilities.

## OPTIONS

- ◆ Door interlock switch turns off heater and fan when door is opened
- ◆ Chart recorders
- ◆ 2" and 4" access port for test wires
- ◆ Oven stand
- ◆ Extra shelves
- ◆ Reinforced shelves 200lb (91kg) capacity
- ◆ CE compliance
- ◆ 208V full performance package



## SERVICE AND TECHNICAL SUPPORT

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