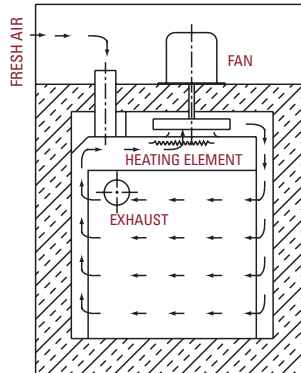


### ◆ LFC Class A Bench-top Oven

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)
- ◆ Robust type 304 stainless steel interior
- ◆ 5 year heater warranty



LFC	1-38 (240V)	2-12
<b>PHYSICAL SPECIFICATIONS</b>		
Chamber size (width x depth x height) * 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. 48* x 45 x 48 cm	24* x 24 x 36 in. 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. (78 x 84 x 97 cm)	36 x 39 x 55 in. 91 x 100 x 139 cm
Electrical single phase 50/60 HZ * Operating at 208V will result in a 25% reduction in heater output. (Unless conversion kit is used)	240* volt 22.7 amp Heater: 4.8 KW	240* volt 29.1 amp Heater: 6.0 KW
Number of shelves provided	2	
Maximum number of shelves on 2 in. (5 cm) centers	9	17
Shelf dimensions (width x depth)	18.75 x 17.75 in. 48.6 x 45 cm	23.75 x 23.75 in. 60.3 x 60.3 cm
Exhaust diameter located on back	4 in (10.2 cm) opening	
Cord and plug	None - Hardwire	
Number of doors	1	
Approximate domestic shipping weight (export adds weight)	185 lbs (84 kg)	370 lbs (168 kg)
Approximate domestic shipping weight (export adds 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
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) 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° 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. \* Recovery time as measured at control thermocouple.

## 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 (LFC2-12 only)
- ◆ CE compliance
- ◆ 208V full performance package
- ◆ End-of-cycle and high-limit indicators



## SERVICE AND TECHNICAL SUPPORT

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# Despatch

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