Despatch

Thermal Processing Technology

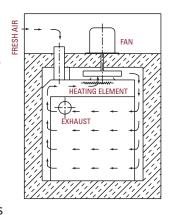
ITW EAE

♦ 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 haveUL/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
PHYSICAL SPECIFICATIONS		
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.	18.8* x 18 x 19 in. 48* x 46 x 48 cm	23.8* 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 34 x 38 in. (78 x 86 x 96 cm)	36 x 33 x 55 in. 91 x 84 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 20 amp Heater: 1.8 KW	240* volt 29.1 amp Heater: 4.8 KW
Number of shelves provided	2	
Maximum number of shelves on 2 in. (5 cm) centers	9	17
Exhaust diameter located on back †	1.75 x 2.75 in. (4.5 x 7 cm)	
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)
FUNCTIONAL SPECIFICATIONS		
Time to temperature with no load (40°C to 100°C)	6 minutes	7 minutes
Time to temperature with no load (40°C to 200°C)	25 minutes	30 minutes
Time to temperature with no load (40°C to 260°C)	45 minutes	55 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)	
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° 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.

† Optional 4 inch diameter exhaust connection available

OPTIONS

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



SERVIVE AND TECHNICAL SUPPORT

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