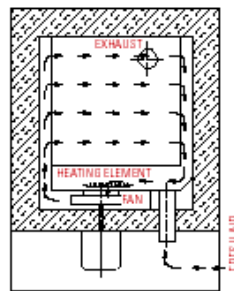


BENCHTOP OVENS

◆ **LAC high-performance bench-top oven with horizontal airflow for ultimate temperature uniformity**



The LAC high-performance bench-top oven 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.



FEATURES AT A GLANCE

- ◆ Six sizes: 1 to 18 cu ft (28 to 504 liter)
- ◆ Maximum temperature of 260°C (500°F)
- ◆ Horizontal recirculating airflow
- ◆ High limit over-temperature protection
- ◆ Protocol Plus™ microprocessor control
- ◆ Password security controls operator access to program parameters
- ◆ End-of-cycle and high-limit indicators
- ◆ Stainless steel interior

Easy to use controls. Improved controls make simple or complex applications easy. Single and multiple temperature applications can be started with the push of a button. Multiple temperature operations are controlled by up to eight programs, with eight ramp and soak segments in each program. Other features include a large, bright LED temperature display, a 32 character LCD status panel and high-limit temperature protection.

Easy to clean and service. Cleaning is easy due to the scratch-resistant, baked enamel exterior, stainless steel interior, and smooth door surface. Servicing is easy due to convenient access to the heater and fan. The reversible door can be mounted to open from either the left or right, permitting easy access when the oven is placed in a corner.

Superior quality. The LAC features sturdy, welded, double-wall construction, three inches 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 are UL/C-UL listed.





OPTIONS

- ◆ PC interface for remote input, monitoring and recording (RS485/422/232)
- ◆ Real time clock for programmed cycle or profile start
- ◆ Door interlock switch turns off heater and fan when door is opened
- ◆ Chart recorders
- ◆ Forced exhaust
- ◆ Door with window
- ◆ Door lock
- ◆ Interior light
- ◆ Access ports for test wires
- ◆ Base cabinets and stands
- ◆ Extra shelves
- ◆ Reinforced shelves (200lb capacity)
- ◆ Hardware for stacking ovens
- ◆ Door with hinge on right
- ◆ CE Conformance
- ◆ SEMI S2 conformance

Warning: LAC Ovens are not to be used with flammable solvents, combustible materials or enclosed containers. If your process involves flammable solvents, consult the factory about modifications.

	LAC 1-10	LAC 1-38A	LAC 1-38B	LAC 1-67	LAC 2-12	LAC 2-18
PHYSICAL SPECIFICATIONS						
Chamber size (width x depth x height) <i>* Clear opening width is reduced by 3/4" (1.9 cm) due to 3/8" (.95 cm) shelf supports on each side.</i>	13.8" x 12 x 12 in. 35" x 31 x 31 cm	18.8" x 18 x 19 in. 48" x 46 x 48 cm	18.8" x 18 x 19 in. 48" x 46 x 48 cm	23.8" x 20 x 24 in. 61" x 51 x 61 cm	23.8" x 24 x 36 in. 61" x 61 x 91 cm	35.3" x 24 x 36 in. 90" x 61 x 91 cm
Capacity in cubic feet [liters]	1 (33)	3.7 (105)	3.7 (105)	6.6 (187)	12 (336)	18 (500)
Overall size (width x depth x height)	23" x 19 x 29.5 in. 58" x 48 x 75 cm	28" x 25 x 35.5 in. 71" x 64 x 90 cm	28" x 25 x 35.5 in. 71" x 64 x 90 cm	36" x 27 x 40.5 in. 91" x 69 x 103 cm	36" x 31 x 52.5 in. 91" x 79 x 133 cm	48" x 31 x 52.5 in. 122" x 79 x 133 cm
Electrical single phase 50/60 HZ <i>* Operating at 208V will result in a 25% reduction in heater output. (Unless conversion kit is used)</i>	120 volts 10 amps Heater: 1 KW	120 volts 16 amp Heater: 1.6 KW	240* volt 9.2 amp Heater: 1.8 KW	240* volt 11.7 amp Heater: 2.4 KW	240* volt 18.4 amp Heater: 3.6 KW	240* volt 23.4 amp Heater: 4.8 KW
Number of shelves provided	2	2	2	2	2	2
Maximum number of shelves on 2 in. (5 cm) centers	5	9	9	11	17	17
Exhaust diameter located on back	1 in. 2.5 cm	2.5 in. (6.4 cm)	2.5 in. 6.4 cm	2.5 in. (6.4 cm)	2-2.5 in. 6.4 cm	2-2.5 in. 6.4 cm
Cord and plug	NEMA 5-15	NEMA 5-20	NEMA 6-15	NEMA 6-15	None - Hardwire	None - Hardwire
Approximate net weight	110 lbs (50 kg)	185 lbs (84 kg)	185 lbs (84 kg)	255 lbs (115 kg)	360 lbs (164 kg)	450 lbs (205 kg)
Approximate shipping weight	175 lbs (80 kg)	270 lbs (124 kg)	270 lbs (124 kg)	360 lbs (163 kg)	480 lbs (217 kg)	600 lbs (271 kg)
FUNCTIONAL SPECIFICATIONS						
Time to temperature with no load (40°C to 100°C)	8 minutes	9 minutes	6 minutes	6 minutes	6 minutes	4 minutes
Time to temperature with no load (40°C to 200°C)	25 minutes	35 minutes	25 minutes	26 minutes	20 minutes	18 minutes
Time to temperature with no load (40°C to 260°C)	40 minutes	70 minutes	40 minutes	45 minutes	35 minutes	30 minutes
Recovery time after door open for 1 minute (100°C)	1 minute	1 minute	1 minute	1 minute	1 minute	1 minute
Recovery time after door open for 1 minute (200°C)	3 minutes	6 minutes	4 minutes	3 minutes	6 minutes	4 minutes
Recovery time after door open for 1 minute (260°C)	7 minutes	14 minutes	8 minutes	5 minutes	9 minutes	8 minutes
Temperature uniformity	+/- 1°C at 100°C, +/- 2°C at 200°C, +/- 2.5°C at 260°C for all models					
Operating range with 20°C ambient	40°C-260°C (104°F-500°F) for all models					
Control stability	+/- 0.5°C/5°C Δ on all models (Δ represents the change in ambient temperature.)					
Repeatability	+/- 0.5°C	+/- 0.5°C	+/- 0.5°C	+/- 0.5°C	+/- 0.5°C	+/- 0.5°C
Maximum load capacity	68 kg (150 lbs.)	79 kg (175 lbs.)	79 kg (175 lbs.)	113 kg (250 lbs.)	136 kg (300 lbs.)	136 kg (300 lbs.)
Maximum shelf capacity	23 kg (50 lbs.)	11kg (25 lbs.)	11kg (25 lbs.)	11kg (25 lbs.)	11kg (25 lbs.)	11kg (25 lbs.)
Exhaust capacity	Adj. to 5 CFM	Adj. to 12 CFM	Adj. to 12 CFM	Adj. to 12 CFM	Adj. to 30 CFM	Adj. to 40 CFM
Recirculating fan	1/25 HP 150 CFM (71 lps)	1/4 HP 300 CFM (141 lps)	1/4 HP 300 CFM (141 lps)	1/4 HP 300 CFM (141 lps)	1/2 HP (2-1/4 HP) 600 CFM (282 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.



MODEL LAC1-67
Our most popular oven



Close up view of controller

Units also include:

- **ISO 17025 Accredited Calibration Certificate**
- Detailed user manual
- One year warranty
- Free technical support
- Packing, packaging & handling



ED&D is accredited by the ANSI-ASQ National Accreditation Board under their brand "ACCLASS", an ILAC Member. All calibrations are also NIST-traceable.



ED&D is recognized as the world's most highly awarded product safety test equipment manufacturer. ED&D is a multi-winner of the Deloitte & Touche Fast 50 award as well as an **Inc. 5000** award winning company!



MADE IN USA

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