



## PRODUCT BULLETIN

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# LAC HIGH PERFORMANCE BENCH TOP OVEN

The LAC bench-top oven features horizontal recirculating airflow and exceptional temperature uniformity. The result is proven reliability in demanding production and laboratory applications, such as curing, drying, sterilizing, aging, and other process-critical procedures.

The high-performance oven delivers temperatures up to 260° C (500° F).

### **Horizontal airflow for ultimate temperature Uniformity**

The LAC 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.

### **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.

### **Key Features**

- ***Horizontal recirculating airflow***
- ***Maximum temperature of 260° C (500° F)***
- ***New Protocol Plus microprocessor control***
- ***Stainless steel interior***
- ***Six models available (1-18 cu. ft.)***
- ***UL and C-UL listed***



### **New controls are easy to use**

Improved controls are easy to use for both simple and complex applications. 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.

### **Superior quality**

The Despatch LAC features a 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 JIL listed.

# LAC HIGH PERFORMANCE BENCH TOP OVEN

## LAC Functional Specifications

MODEL	TIME TO TEMP (minutes, w/ no load)			RECOVERS TIME IN MINUTES <sup>1</sup>			TEMPERATURE UNIFORMITY AT <sup>2</sup>			OPERATING RANGE W/20°C AMBIENT <sup>3</sup>	CONTROL STABILITY <sup>4</sup>	REPEAT- ABILITY	MAX LOAD CAPACITY	MAX SHELF CAPACITY	EXHAUST CAPACITY	RECIRCULATING FAN		APPROX. WEIGHT	
	40-100°C	40-200°C	40-260°C	100°C	200°C	260°C	100°C	200°C	260°C							CFM	R.P.	lbs. (kg) NET	lbs. (kg) SHIPPING
LAC 1-10	8	25	40	1	5	7	+1.5°C	+3°C	+4°C	40-260°C	±0.5°C/ 5°CΔ	±0.5°C	100 lbs.	50 lbs.	Adj. to 5 CFM	150	1/25	110 (50)	175 (80)
LAC 1-38A	9	52	60	1	6	14	+1°C	+2°C	+2.5°C				125 lbs.	25 lbs.	Adj. to 12 CFM	300	1/4	185 (84)	270 (124)
LAC 1-38B	6	22	36	1	4	8	+1°C	+2°C	+2.5°C				125 lbs.	25 lbs.	Adj. to 12 CFM	300	1/4	185 (84)	270 (124)
LAC 1-67	6	20	34	1	5	5	+1°C	+2°C	+2.5°C				150 lbs.	25 lbs.	Adj. to 12 CFM	300	1/4	255 (115)	360 (163)
LAC 2-12	6	19	31	1	6	9	+1°C	+2°C	+2.5°C				175 lbs.	25 lbs.	Adj. to 30 CFM	600	1/2 (2-1/4)	360 (164)	480 (217)
LAC 2-18	4	17	29	1	4	8	+1°C	+2°C	+2.5°C				200 lbs.	25 lbs.	Adj. to 40 CFM	600	1/2 (2-1/4)	450 (205)	600 (271)

- Time required to return to temperature after door is open for one minute. Actual results may vary slightly depending on unit and operating conditions.
- Uniformity figures are based on a nine-point test conducted in an empty oven. Uniformity can vary slightly depending on unit and operating condition.
- Minimum operating temperature is based on 20°C ambient temperature measured at the fresh air inlet with the fresh air damper fully open.
- Δ in control stability figures represents the change in ambient temperature.

Note: Specifications are subject to change without notice.

## LAC Physical Specifications

MODEL	CHAMBER SIZE INCHES (CM)			CAPACITY IN CL. FL. (LITERS)	OVERALL SIZE INCHES (CM)			ELECTRICAL SINGLE PHASE				SHELVES PROVIDED ON SHELF CENTERS	MAX. # OF SERIES	EXHAUST DIA. LOCATED ON BACK	CORD & PLUG	# OF DOORS
	W*	D	H		W	D	H	VOLTS	AMPS	HERTZ	HEATER KW					
LAC 1-10	13.75(35)	12(31)	12(31)	1(35)	25(64)	19(49)	29.5(75)	120	10.0	50/60	1	2 on 2"	5	1"	Included NEMA 5-15	1
LAC 1-38A	18.75(48)	18(46)	19(49)	5.7(150)	28(71)	25(64)	35.5(90)	120	16.0	50/60	1.6	2 on 2"	9	2.5"	Included NEMA 5-20	1
LAC 1-38B	18.75(48)	18(46)	19(49)	5.7(150)	28(71)	25(64)	35.5(90)	240*	9.2	50/60	1.8	2 on 2"	9	2.5"	Included NEMA 6-15	1
LAC 1-67	25.75(66)	20(51)	24(61)	6.6(167)	36(92)	27(69)	40.5(103)	240*	11.7	50/60	2.4	2 on 2"	11	2.5"	Included NEMA 6-15	1
LAC 2-12	25.75(66)	28(71)	36(91)	12(304)	36(92)	31(79)	52.5(133)	240*	18.4	50/60	3.6	2 on 2"	17	2-2.5"	None Hardwire	1
LAC 2-18	35.25(90)	24(61)	36(91)	18(456)	48(122)	31(79)	52.5(133)	240*	23.4	50/60	4.8	2 on 2"	17	2-2.5"	None Hardwire	2

\* Operating at 208V will result in a 25% reduction in heater output. A conversion kit is available to restore full heater capacity at 208V.

\*\* Chamber width includes 3/8 inch shelf supports.

## Standard features

- Horizontal recirculating airflow
- Protocol PlusTh4 micro-processor control system
- Two levels of password security can limit operator access to program parameters
- End-of-cycle and high-limit indicators
- Stainless steel interior
- UL and C-UL listed

- Access ports for test wires
- Base cabinets and stands
- Hardware for stacking ovens
- Interlock switch to turn off heater
- Extra shelves
- Door with hinge on right
- European Community CE Conformance available

## Options

- PC interface for remote input, monitoring and recording (RS485/422/232)
- Round and strip chart recorders
- Real-time clock for programmed oven startup
- Door with window
- Interior light

