

1.5. Specifications

1.5.1. Model Numbering and Naming Conventions

Table 1 lists the model numbers and follows these conventions:

Model Number	L			1	-					-	3
Position in Number	1	2	3	4		5	6	7	8		

Table 1. Model Number Key.

Position in Model Number	Letter / Number	Letter Meaning
2	C	Model has a HEPA filter
2	L	Model does not have a HEPA filter
3	C	Model operates at 260°C
3	D	Model operates at 350°C
5 & 6	16	1.6 cubic foot model
5 & 6	51	5.1 cubic foot model
7 & 8	N	Model uses a nitrogen atmosphere
7 & 8	V	Model uses Viton [®] synthetic rubber (Silicone-free option)


Example: **LLD1-51NV-3**

This 5.1 ft³ model does not have a HEPA filter, operates at 350°C, uses nitrogen and is silicone-free.

1.5.2. Dimensions

Models	Chamber Size inches (cm)			Capacity ft ³ (liters)	Overall Size inches (cm)			Maximum number of Shelves
	W	D	H		W	D	H	
LCC1-16-3 LCD1-16-3 LCC1-16N-3 LCD1-16N-3	15 (38)	14 (36)	14 (36)	1.6 (45)	32.5 (83)	35.5 (90)	20.75 (53)	5
LCC1-51-3 LCD1-51-3 LCC1-51N-3 LCD1-51N-3	23 (58)	20 (51)	20 (51)	5.1 (144)	40.5 (103)	42.5 (108)	27 (69)	8

*LLC & LLD models have same dimensions.

	<i>The LCC/LCD oven is not intended to process solvents or other volatile or flammable materials. Oven exhaust is intended for cooling purposes only.</i>
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1.5.3. Capacities

Model	LCC1-16-3 & LCD1-16-3 LCC1-16N-3 & LCD1-16N-3	LCC1-51-3 & LCD1-51-3 LCC1-51N-3 & LCD1-51N-3
Maximum Load (Lbs)	200	200
Maximum shelf load (Lbs)	50	25
Recirculating fan (CFM) (H.P.)	240 1/4	435 1/4
Net weight (Approximate) (Lbs) (KG)	250 114	380 172
Shipping weight (Approximate) (Lbs) (KG)	350 159	525 238
Exhaust capacity (forced exhaust) (CFM)	35	73
Exhaust Outlet (Inch) (mm)	1.88 x 2.88 (48.0 x 73.4)	1.88 x 2.88 (48.0 x 73.4)

1.5.4. Power

If the line voltage for your LCC/LCD Oven varies more than 10% from the oven voltage rating, electrical components such as relays and temperature controls may operate erratically.

- If the line voltage is lower than the oven voltage rating, heat-up time may be significantly longer and motors may overload or run hot
- If the line voltage is higher than the nameplate rating, motors may run hot and draw excessive amperage

Model	Volts *	Amps	Hertz	Heater Phase	KW	Cord and Plug
LCC1-16-3 LCD1-16-3	240	14.8	50/60	1	3	None, hardwired
LCC1-16N-3 LCD1-16N-3	240	14.0	50/60	1	3	None, hardwired
LCC1-51-3 LCD1-51-3	240	27.7	50/60	1	6	None, hardwired
LCC1-51N-3 LCD1-51N-3	240	27.7	50/60	1	6	None, hardwired

*The LCC/LCD Oven is designed for 240 volts (see oven nameplate) will operate satisfactorily on a minimum of 208 Volts, but will result in 25% reduced heater output. If your power characteristic is lower, contact Despatch Industries.

1.5.5. Temperature

Model		LCC1-16-3 LCD1-16-3	LCC1-16N-3 LCD1-16N-3	LCC1-51-3 LCD1-51-3	LCC1-51N-3 LCD1-51N-3
Time to Temperature (approximate minutes) (no load)	40°C – 100°C	7 min.	7 min.	5 min.	5 min.
	40°C – 200°C	30 min.	30 min.	27 min.	27 min.
	40°C – 260°C	45 min.	45 min.	35 min.	35 min.
	40°C – 350°C†	60 min.	60 min.	50 min.	50 min.
Cooling Time to Temp Minutes (No Load)‡	100°C – 55°C	35 min.	30§ min.	40 min.	25§ min.
	200°C – 55°C	65 min.	55§ min.	75 min.	40§ min.
	260°C – 55°C	75 min.	60§ min.	85 min.	45§ min.
	350°C – 55°C†	130 min.	80§ min.	115 min.	50§ min.
Temperature Uniformity at**	100°C	±1°C	±1°C	±1°C	±1°C
	200°C	±2°C	±2°C	±2°C	±2°C
	260°C	±3°C	±3°C	±3°C	±3°C
	350°C	±4°C	±4°C	±4°C	±4°C
Maximum Operating Temperature	LCC	260°C	260°C	260°C	260°C
	LCD	350°C	350°C	350°C	350°C
Operating Range w/20°C Ambient	LCC	40°C-260°C	35°C-260°C††	45°C- 260°C	35°C-260°C††
	LCD	40°C-350°C	40°C-350°C††	40°C-350°C	40°C-350°C††
Control Stability		+/- 0.5°C	+/- 0.5°C	+/- 0.5°C	+/- 0.5°C

† For LCD & LLD only, LCC & LLC maximum temperature: 260°C.

‡ Minimum operating temperatures and cooling times are based on a 20°C ambient temperature measured at the fresh air inlet.

§ Based on cooling water supplied at 2 GPM (7.6 LPM), 16°C for nitrogen atmosphere units.

** Uniformity figures are based on a nine-point test conducted in an empty oven with thermocouples connected at 3 inches (7.6 cm) from walls after the oven temperature has reached stabilization. Uniformity can vary slightly depending on unit and operating conditions. Class 100 HEPA filtration will limit ramp rates.

†† Requires water cooling be activated for minimum temp rating and operation below 85°C.

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