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Model 1420SA Shown

300°C Mechanical Convection Ovens, Deluxe Series

Lindberg/Blue M Deluxe 300°C Mechanical Convection Ovens feature internal blowers which circulate heated air throughout the chamber for maximum temperature uniformity. All Lindberg/Blue M 300°C models have microprocessor based digital temperature controllers which automatically optimize control parameters. Choose from painted or stainless steel exterior finish four popular bench models, from 1.2 cu.ft. to 4.9 cu.ft. All models are UL and CUL listed for safety and performance.

General Features

Temperature Range. +40°C to +300°C.
Temperature Uniformity. ±1% at +100°C. Actual performance may vary depending on load, chamber size, sample placement, ambient temperature and environmental conditions.
Air Flow. Horizontal air flow; multiblade blower circulates heated air across all shelf levels for maximum uniformity.
Controller. Single setpoint with simultaneous LED display of actual temperature vs. setpoint. May be configured to display temperature in °C and °F. Digital instrumentation allows precise temperature setpoint and display. Microprocessor automatically optimizes control parameters during operation. Main power on/off switch on control panel.
Control Accuracy. ±0.5%, typical.
Overtemperature Control Safety. Independent, factory set; interrupts power to oven until manual reset.
High Limit Overtemp. Adjustable high limit protection.
Heating Elements. Low-watt density elements, enclosed.
Door Latch. Flush mounted, convenient one-hand operation; door closes gently against cabinet without slamming.
Interior Construction. Stainless steel.
Exterior Construction. Double-wall, stainless steel or heavy gauge steel with painted finish.

Insulation. Fiberglass, minimum 3" in all sides and door; peripheral silicon door gasket to minimize heat loss.
Ports and Vents. Adjustable intake left side; exhaust, top right, 1.75" diameter.
Shelves. Two (2) standard open wire shelves, adjustable. Stainless exterior ovens have stainless wire shelves; painted exterior models include nickel plated shelves. Extra shelves are available.
Electrical. See specifications for details. 10' power cord included.

Specifications

300°C Mechanical Convection Oven, Deluxe, Painted or Stainless Finish

Model	Electrical Volts,Hz,1Ø	Watts	Cabinet Finish	Air Changes	Shelf Pos.	Interior Dimensions W X F-B X H in" (mm)	Exterior Dimensions W X F-B X H in" (mm)	Ship Weight lbs (kg)
1.2cu.ft (34.3 liters)								
MO1420A	120V, 50/60 Hz	1000	Painted	180/hr	5	13"(330)x16"(406)x10"(254)	25"(640)x22.5"(572)x32"(810)	130 (59)
MO1420SA	120V, 50/60 Hz	1000	Stainless	180/hr	5	13"(330)x16"(406)x10"(254)	25"(640)x22.5"(572)x32"(810)	130 (59)
1.8cu.ft (51.4 liters)								
MO1430A	120V, 50/60 Hz	1300	Painted	125/hr	7	13"(330)x16"(406)x15"(381)	25"(640)x22.5"(572)x37"(940)	180 (82)
3.0cu.ft (85.8 liters)								
M01440A	120V, 50/60 Hz	1900	Painted	75/hr	7	22"(559)x16"(406)x15"(381)	34"(920)x22.5"(572)x37"(940)	200 (91)
MO1440C	208/240V, 50/60Hz	1900	Painted	75/hr	7	22"(559)x16"(406)x15"(381)	34"(920)x22.5"(572)x37"(940)	200 (91)
MO1440SA	120V, 50/60 Hz	1900	Stainless	75/hr	7	22"(559)x16"(406)x15"(381)	34"(920)x22.5"(572)x37"(940)	200 (91)
MO1440SC	208/240V, 50/60Hz	1900	Stainless	75/hr	7	22"(559)x16"(406)x15"(381)	34"(920)x22.5"(572)x37"(940)	200 (91)
4.9cu.ft (140.1 liters)								
MO1450A	120V, 50/60 Hz	2100	Painted	46/hr	12	22"(559)x16"(406)x24"(610)	34"(920)x22.5"(572)x46.5"(1180)	220(100)
MO1450C	208/240V, 50/60Hz	2100	Painted	46/hr	12	22"(559)x16"(406)x24"(610)	34"(920)x22.5"(572)x46.5"(1180)	220(100)
MO1450SA	120V, 50/60 Hz	2100	Stainless	46/hr	12	22"(559)x16"(406)x24"(610)	34"(920)x22.5"(572)x46.5"(1180)	220(100)

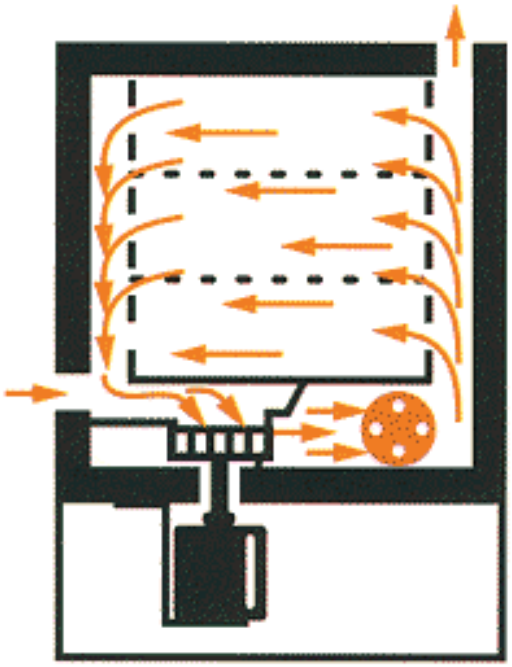
Warning: Ovens are not suitable for use with hazardous vapor.

Heat-Up/Cool-down Rates
300°C Mechanical Convection Oven, Deluxe
At Chamber Center, Vents Open

Heat-Up Rate	Minutes
ambient to +100°C	15
ambient to +200°C	44
ambient to +300°C	115
+100°C to +200°C	19
+200°C to +300°C	35

Cool-Down Rate	Minutes
+300°C to +200°C	35
+300°C to +100°C	110
+300°C to +50°C	215

Actual performance may vary depending on application and environmental conditions.



Positive horizontal air flow creates uniform temperatures at all shelf levels.
For air changes/hr see chart.

Accessories
Floor Stand. Cabinet style painted white, with one shelf, door, latch and lockable casters. See Chart.

Shelves. Each model includes 2 shelves standard; additional shelves may be ordered. See Chart. Maximum shelf capacity with evenly distributed load, 25 lbs. (11.3 kg).

Ordering Information, Shelves, Floor Stand

Model	Shelf	Floor Stand	Stand Dim. WxF-BxH in" (mm)
MO1420A	6808	6802	25"x23"x32" (635x584x813)
MO1430A	6808	6802	
MO1420SA	6809	6802	
MO1440A	6810	6804	34"x23"x22" (864x584x559)
MO1440C	6810	6804	
MO1440SA	6811	6804	
MO1440SC	6811	6804	
MO1450A	6810	6804	
MO1450C	6810	6804	
MO1450SA	6811	6804	

Glass Viewing Window. Factory intalled, door center. Specify **Option GPA** when ordering.

Model	Viewing Area Size
MO1420,MO1430	7.875"Wx6.375"H
MO1440,MO1450	11.625"Wx9.125"H

Timer. Digital programmable timer for variable time operation. Specify **Option T** when ordering.

Lead in Port. Access port, 2.875" interior diameter, located at right side wall of cabinet. Specify **Option P3** when ordering.

Reverse Hinge Door. Standard door swing is left hand hinge. For reverse hinge specify **Option RHD** when ordering.

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Programmer. Digital, 16 multi-segment programmable control, 8 ramps/8 dwells. Factory installed; specify **Option P** when ordering.

Recorder. 10" chart, factory installed and side mounted. Specify 24-hour or 7-day chart. Specify **Option R10** when ordering.

Recorder. 10" chart, free-standing. Order accessory number CABR10A (120v) or CABR10C (208/230v).

Optional RS485 Digital Communications Port. RS485 Digital communications port available as an option. Allows controller to be connected to a PC for remote monitoring and control of the oven. Up to 30 units can be connected to one PC. Please see page 14 for ordering information and additional options.

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