

EQUIPMENT SPECIFICATIONS

 DOC NBR:
 STD
 - 802-101401-309N
 R3

 MODEL:
 LA-309N
 STANDARD DENTAL FURNACE

 SERIAL NBR:
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Equipment Mo	odel								
Model	Base Equipment			Control Zones		Furnace Heated Length		Nominal Furnace Belt Width	
LA-309N	Continuous Belt Controlled Atmosphere Furnace			3		30 in 762 mm		9.5 in 241 mm	
Equipment Ar	rangement			•		•			
Phase	Process				Max	Le	ength	Process Gas	Temperature (typ)
Phase 1	1 IR Furnace, 3 Zones				1000 °C	30 ir	n 762 mm	CDA, N2, FG	450-950 C
Phase 2	Gas Convective Cooling, Exterior Fan Hea			at Removal		45 ir	n 1143 mm	CDA or N2	350-40 C
	(includes transition tunnel)								
Process Secti	ions	,							•
Function	Name			Location		Le	ength	Process Gas	Temperature (typ)
Product Load	oad Load Station			Entrance load area		15 ir			ambient
	Entr Baffle/Entrance Eductor			Entrance barrier		15 ir			80-250 C
	Zone 1			Heating chamber 1		7.5 ir			80-975 C
IR Furnace	Zone 2			Heating chamber 1		15 ir			80-975 C
	Zone 3			Heating chamber 1		7.5 ir			80-975 C
	Trans Tunnel			Heat/cool barrier		15 ir			80-450 C
Cooling Section									
	Gas Convection Cooling			Cooling section		30 ir			55-360 C
Product Unload	Unload Station			Exit unload area		15 ir			ambient
	Frame Adjustment					2 ir			
	Total			122			n 3090 mm		
Process Gas	(If Single Gas				•			S1=N2 or CDA to all	
Actual Conditons			S		Opertion	Typical (low O2 operation)		Max (all flowmeters open)	
Furnace Replenishment Rate				2.0 rep/min		2.6 rep/min		10.4 rep/min	
	Temp Press			Typical			• • • • • • • • • • • • • • • • • • • •		Max Compressor
Cool Supply	°C			scfh 245					
Gas1 Supply 21 70 TOTAL PROCESS GAS			<u> </u>		116			,	
	L PROCESS G	AS		245	116	229	108	2,562	1 20
Exhaust Gas									
Temp Press				Min Flow Min Flow scfh sL/m		Typical Typical scfh sL/m			
°C in H ₂ O GAS 1 & 2, MIX 200 6				357	169				
Cabinet Venti			<u> </u>	001	100	200		0,004	0 20.
			Flowrate			1100 cfm	1870 m3/h	1100 cfm	1870 m3/h
(vent to room or exhaust system)			Temperature			<86°F	<30°C <122°F <50°C		<50°C
Control Cabinet Ventilation Fans			Flowrate			0 cfm	0 m3/h	0 cfm	0 m3/h
(vents to room)			Temperature			<86°F	<30°C	<104°F	<40°C
Transport Sys	stem								
Belt width			9.5 in	241.3 mm		Belt E	dge Heater(s):	none	
Belt type			Balanced spi	ral weave					
				n) above belt le	vel.	Baffle plate clearance: 0.5" above belt			
3			1-20 ipm				25-500 mm/m		
Conveyor height			36.0 in +/- 1.5 in adjustable				914.4 mm	+/-38.1 mm	adjustable
Electrical Sys	tom		10000		,				- ajaratara
Voltage (as config		240 Vac	208 Vac	220 Vac	380 Vac	400 Vac	415 Vac	480 Vac	500 Vac
Frequency, Hz	jui cu j	50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60
Phase		1	3	3	3	3	3	3	3
Power, maximum,	k\M	27.6	25.7	27.3	19.4	21.0	22.3	25.5	26.2
Current, maximum		114.9	71.3	71.6	29.5	30.4	31.0	30.6	30.3
Power,kW, operat	·	14.1	13.1	13.9	10.0	10.8	11.4	13.0	13.4
Current, A, operat		58.6	36.4	36.5	15.2	15.6	15.9	15.6	15.4
Materials of C			30.4	30.0	13.2	13.0	10.8	13.0	10.4
			0 "	Alumainuma air	-avalt		Б. и	Niehaene V 000/N	: 000/ C= -40/ E=
Heating Chamber 304 Stainless steel		Cooling	Aluminum, air			Belt Nichrome V, 80%Ni,20%Cr, <1% Fe			
	Baffle & Eductor 304 Stainless steel		Belt support	Quartz rod, Q	uartz tube		Frame Steel, epoxy or powder coated		wder coated
Baffle & Eductor	Quartz, near i	nfrared	Belt Return	UHMW-PE			Cover Panels	18GA steel, epoxy	/ coated
Baffle & Eductor Heating element									
Heating element Furnace Dime			Width		Height (floor to s	tack)	Furnace Sect	Coolg Sectn	Total Net Wt
Heating element	ensions		Width 37 in			tack) +/- 1.5 in	Furnace Sect 1600 LB	Coolg Sectn none	Total Net Wt 1600 LB
Heating element Furnace Dime	ensions Length				80 in				