

## EQUIPMENT SPECIFICATIONS

DOC NBR:	STD	- 80	2-101401	R3				
MODEL:	LA-306	STD 8	R HIGH POWE	R				
SERIAL NBR:	ALL	SIXE	Α	SHT	1	OF	1	

<b>Equipment Mo</b>	del									
Model	Base Equipment			Control Zones		Furnace Heated Length		Nominal Furnace Belt Width		
LA-306	Continuous B Furnace	elt Controlled	Atmosphere	;	3		762 mm	6.0 in 152 m		
Equipment Arr	rangement			•						
Phase	Process				Max	Ler	ngth	Process Gas	Temperature (typ	
Phase 1	IR Furnace, 3 Zones		1000 °C		30 in 762 mm		CDA, N2, FG 450-95			
Phase 2	ise 2 Gas Convective Cooling, Exterior Fa		xterior Fan He	n Heat Removal		45 in 1143 mm		CDA or N2 350-40		
	(includes tran	sition tunnel)								
Process Section	ons									
Function	Name			Location		Length		Process Gas	Gas Temperature (typ)	
Product Load	Load Station			Entrance load area		15 in 381 mm		none	ambient	
İ	Entr Baffle/En	trance Educto	or Entrance barrier		15 in 381 mm		CDA or N2			
IR Furnace	Zone 1		Heating chamber 1		7.5 in	191 mm	N2 or FG	80-975 C		
	Zone 2			Heating cham		15 in		N2 or FG	80-975 C	
	Zone 3			Heating cham	nber 1	7.5 in	191 mm	N2 or FG	80-975 C	
Cooling Section	Transition Tu	nnel		Heat/cool bar	rier	15 in	381 mm	CDA or N2	625 °C	
Cooling Section	Gas Convection Cooling			Cooling section		30 in	762 mm	CDA or N2	55-360 C	
Product Unload	Unload Statio	n		Exit unload a	rea	15 in	381 mm	none	ambient	
	Frame Adjust	ment				1 in	21 mm			
	Total					121 in	3070 mm			
Process Gas	(If Single Gas	combine GAS	1 & GAS2. Dua	I Gas: GAS 2 =	CDA, N2 or FG	to furnace hea	ting zones, GA	S1=N2 or CDA to all	except zones)	
	Ì	Actual Conditions			CDA operation		ow O2 operation		meters open)	
Furnace Replenish	nment Rate				rep/min	3.0	rep/min		rep/min	
	Temp	Press		Typical		, , ,	• • • • • • • • • • • • • • • • • • • •		Max Compress	
Cool Supply	°C 21	ps 70		scfh 212			sL/m 80	scfh		
Gas1 Supply	-			212	100			662	3	
Gas2 Supply	21	70				83	39	417	1	
	PROCESS G	AS		212	100	253	119	1,078	5	
Exhaust Gas										
	Temp °C	Press in H <sub>2</sub> C		Typical scfh		7.	Typical sL/m		Maximum Exha	
GAS 1 & 2, MIX 200 6			212	100		94	348	1		
Cabinet Ventila				212	100	200	5-	040	'	
Cabinet Ventilation			Flowrate			550 cfm	930 m3/h	550 cfm	930 m3/h	
(vent to room or ex		1	Temperature	ure		<86°F	<30°C	<122°F	<50°C	
, , , , , ,		Flowrate			212 cfm		212 cfm	360 m3/h		
(vents to room)			Temperature			<86°F <30°C		<104°F <40°C		
Transport Sys	tem									
Belt width			6.0 in	152.4 mm	<u> </u>	Belt E	dge Heater(s):	none		
Belt type			Balanced spi	ral weave						
Product height				n) above belt le	evel.	Baffle plate clearance: 0.5" above belt				
Belt speed range	-					25-500 mm/m			beit	
			1-20 lpm				25-500 mm/m		e Deit	
Conveyor height			36.0 in	+/- 1.5 in	adjustable		25-500 mm/m 914.4 mm	+/-38.1 mm	adjustable	
	tem		36.0 in		adjustable		914.4 mm	+/-38.1 mm		
Electrical Syst		208 Vac	36.0 in <b>Sta</b> n	dard		208 Vac	914.4 mm	+/-38.1 mm ligh Power	adjustable	
Electrical Syst		208 Vac 50/60	36.0 in <b>Stan</b> 220 Vac	dard 230 Vac	240 Vac	208 Vac	914.4 mm <b>F</b> 220 Vac	+/-38.1 mm ligh Power 230 Vac	adjustable 240 Vac	
		208 Vac 50/60	36.0 in <b>Sta</b> n	dard		208 Vac 50/60	914.4 mm	+/-38.1 mm ligh Power	adjustable	
Electrical Syst Voltage (as configuency, Hz	ured)	50/60	36.0 in  Stan  220 Vac  50/60	230 Vac 50/60	240 Vac 50/60	50/60	914.4 mm F 220 Vac 50/60	+/-38.1 mm ligh Power 230 Vac 50/60	adjustable  240 Vac  50/60	
Electrical Syst Voltage (as configi Frequency, Hz Phase Power, maximum,	ured)	50/60 1	36.0 in  Stan  220 Vac  50/60  1	230 Vac 50/60	240 Vac 50/60	50/60 1	914.4 mm F 220 Vac 50/60 1	+/-38.1 mm ligh Power 230 Vac 50/60 1	adjustable  240 Vac  50/60  1	
Electrical Syst Voltage (as configi Frequency, Hz Phase Power, maximum, Current, maximum	kW	50/60 1 14.2	36.0 in  Stan  220 Vac  50/60  1  14.2	230 Vac 50/60 1 14.5	240 Vac 50/60 1 14.8	50/60 1 17.2	914.4 mm  P 220 Vac 50/60 1 17.2	+/-38.1 mm ligh Power 230 Vac 50/60 1 17.2	adjustable  240 Vac  50/60  1  17.2	
Electrical Syst Voltage (as configi Frequency, Hz Phase Power, maximum, Current, maximum Power,kW, operati	kW n, A ing @ 950 C	50/60 1 14.2 67 Hz	36.0 in  Stan  220 Vac  50/60  1  14.2  64.4	230 Vac 50/60 1 14.5 62.9	240 Vac 50/60 1 14.8 61.6	50/60 1 17.2 82.7	914.4 mm  P  220 Vac  50/60  1  17.2  78.1	+/-38.1 mm ligh Power 230 Vac 50/60 1 17.2 75.4	adjustable  240 Vac  50/60  1  17.2  72.3	
Electrical Syst Voltage (as configi Frequency, Hz Phase Power, maximum, Current, maximum Power,kW, operati Current, A, operati	kW n, A ing @ 950 C ing @ 950 C	50/60 1 14.2 67 Hz 7.8	36.0 in  Stan  220 Vac  50/60  1  14.2  64.4  8	230 Vac 50/60 1 14.5 62.9 8.1	240 Vac 50/60 1 14.8 61.6 8.3	50/60 1 17.2 82.7 9.6	914.4 mm  P  220 Vac  50/60  1  17.2  78.1  9.6	+/-38.1 mm ligh Power 230 Vac 50/60 1 17.2 75.4 9.6	adjustable  240 Vac  50/60  1  17.2  72.3  9.6	
Electrical Syst Voltage (as configion Frequency, Hz Phase Power, maximum, Current, maximum Power,kW, operati Current, A, operati Power, kW, operati	kW n, A ing @ 950 C ing @ 950 C ting @ 425 C	50/60 1 14.2 67 Hz 7.8 37.5	36.0 in  Stan  220 Vac  50/60  1  14.2  64.4  8  36.3	230 Vac 50/60 1 14.5 62.9 8.1 35.4	240 Vac 50/60 1 14.8 61.6 8.3 34.6	50/60 1 17.2 82.7 9.6 46.3	914.4 mm  P  220 Vac  50/60  1  17.2  78.1  9.6  43.8	+/-38.1 mm ligh Power 230 Vac 50/60 1 17.2 75.4 9.6 41.9	adjustable  240 Vac  50/60  1  17.2  72.3  9.6  40.1	
Electrical Syst Voltage (as configing Frequency, Hz Phase Power, maximum, Current, maximum Power,kW, operati Current, A, operati Power, kW, operati Current, A, operati	kW n, A ing @ 950 C ing @ 950 C ting @ 425 C ing @ 425 C	50/60 1 14.2 67 Hz 7.8 37.5 5.8 27.8	36.0 in  Stan  220 Vac  50/60  1  14.2  64.4  8  36.3  5.9	230 Vac 50/60 1 14.5 62.9 8.1 35.4 6.0	240 Vac 50/60 1 14.8 61.6 8.3 34.6	50/60 1 17.2 82.7 9.6 46.3 7.1	914.4 mm  P  220 Vac  50/60  1  17.2  78.1  9.6  43.8  7.1	+/-38.1 mm  ligh Power  230 Vac  50/60  1  17.2  75.4  9.6  41.9  7.1	adjustable  240 Vac  50/60  1  17.2  72.3  9.6  40.1  7.1	
Electrical Syst Voltage (as configing Frequency, Hz Phase Power, maximum, Current, maximum Power,kW, operati Current, A, operati Power, kW, operati Current, A, operati Current, A, operati Current, A, operati Current, A, operati	kW n, A ing @ 950 C ing @ 950 C ting @ 425 C ing @ 425 C	50/60 1 14.2 67 Hz 7.8 37.5 5.8 27.8	36.0 in  Stan  220 Vac  50/60  1  14.2  64.4  8  36.3  5.9  26.9	230 Vac 50/60 1 14.5 62.9 8.1 35.4 6.0	240 Vac 50/60 1 14.8 61.6 8.3 34.6 6.2 25.6	50/60 1 17.2 82.7 9.6 46.3 7.1	914.4 mm  P  220 Vac  50/60  1  17.2  78.1  9.6  43.8  7.1	+/-38.1 mm  ligh Power  230 Vac  50/60  1  17.2  75.4  9.6  41.9  7.1	240 Vac 50/60 1 17.2 72.3 9.6 40.1 7.1 29.6	
Electrical Syst Voltage (as configi Frequency, Hz Phase Power, maximum, Current, maximum Power,kW, operati Current, A, operati Power, kW, operati Current, A, operati Materials of Co Heating Chamber	kW n, A ing @ 950 C ing @ 950 C ting @ 425 C ing @ 425 C onstruction 304 Stainless	50/60 1 14.2 67 Hz 7.8 37.5 5.8 27.8	36.0 in  Stan  220 Vac  50/60  1  14.2  64.4  8  36.3  5.9  26.9	230 Vac 50/60 1 14.5 62.9 8.1 35.4 6.0 26.2  Aluminum, aii	240 Vac 50/60 1 14.8 61.6 8.3 34.6 6.2 25.6	50/60 1 17.2 82.7 9.6 46.3 7.1	914.4 mm  P 220 Vac 50/60 1 17.2 78.1 9.6 43.8 7.1 32.3	+/-38.1 mm  ligh Power  230 Vac  50/60  1  17.2  75.4  9.6  41.9  7.1  30.9  Nichrome V, 80%Ni,	adjustable  240 Vac 50/60 1 17.2 72.3 9.6 40.1 7.1 29.6  20%Cr, <1% Fe	
Electrical Syst Voltage (as configi Frequency, Hz Phase Power, maximum, Current, maximum Power,kW, operati Current, A, operati Power, kW, operati Current, A, operati Materials of Co Heating Chamber Baffle & Eductor	kW n, A ing @ 950 C ing @ 950 C ting @ 425 C ing @ 425 C onstruction 304 Stainless 304 Stainless	50/60 1 14.2 67 Hz 7.8 37.5 5.8 27.8 steel	36.0 in  Stan  220 Vac  50/60  1  14.2  64.4  8  36.3  5.9  26.9  Cooling  Belt support	230 Vac 50/60 1 14.5 62.9 8.1 35.4 6.0 26.2 Aluminum, air	240 Vac 50/60 1 14.8 61.6 8.3 34.6 6.2 25.6	50/60 1 17.2 82.7 9.6 46.3 7.1	914.4 mm  P  220 Vac  50/60  1  17.2  78.1  9.6  43.8  7.1  32.3  Belt  Frame	+/-38.1 mm  ligh Power 230 Vac 50/60 1 17.2 75.4 9.6 41.9 7.1 30.9  Nichrome V, 80%Ni, Steel, epoxy or pow	adjustable  240 Vac 50/60 1 17.2 72.3 9.6 40.1 7.1 29.6  20%Cr, <1% Fe	
Electrical Syst Voltage (as configi Frequency, Hz Phase Power, maximum, Current, maximum, Power,kW, operati Current, A, operati Power, kW, operati Current, A, operati Materials of Co Heating Chamber Baffle & Eductor Heating element	kW n, A ing @ 950 C ing @ 950 C ting @ 425 C ing @ 425 C onstruction 304 Stainless 304 Stainless Quartz, near i	50/60 1 14.2 67 Hz 7.8 37.5 5.8 27.8 steel	36.0 in  Stan  220 Vac  50/60  1  14.2  64.4  8  36.3  5.9  26.9	230 Vac 50/60 1 14.5 62.9 8.1 35.4 6.0 26.2  Aluminum, aii	240 Vac 50/60 1 14.8 61.6 8.3 34.6 6.2 25.6	50/60 1 17.2 82.7 9.6 46.3 7.1	914.4 mm  P 220 Vac 50/60 1 17.2 78.1 9.6 43.8 7.1 32.3	+/-38.1 mm  ligh Power  230 Vac  50/60  1  17.2  75.4  9.6  41.9  7.1  30.9  Nichrome V, 80%Ni,	adjustable  240 Vac 50/60 1 17.2 72.3 9.6 40.1 7.1 29.6  20%Cr, <1% Fe	
Electrical Syst Voltage (as configi Frequency, Hz Phase Power, maximum, Current, maximum, Power,kW, operati Current, A, operati Power, kW, operati Current, A, operati Materials of Co Heating Chamber Baffle & Eductor	kW n, A ing @ 950 C ing @ 950 C ing @ 425 C ing @ 425 C onstruction 304 Stainless Quartz, near i	50/60 1 14.2 67 Hz 7.8 37.5 5.8 27.8 steel	36.0 in  Stan  220 Vac  50/60  1  14.2  64.4  8  36.3  5.9  26.9  Cooling  Belt support  Belt Return	230 Vac 50/60 1 14.5 62.9 8.1 35.4 6.0 26.2 Aluminum, air	240 Vac 50/60 1 14.8 61.6 8.3 34.6 6.2 25.6 rcraft	50/60 1 17.2 82.7 9.6 46.3 7.1 34.2	914.4 mm  P 220 Vac 50/60 1 17.2 78.1 9.6 43.8 7.1 32.3  Belt Frame Cover Panels	+/-38.1 mm  ligh Power  230 Vac  50/60  1  17.2  75.4  9.6  41.9  7.1  30.9  Nichrome V, 80%Ni, Steel, epoxy or pow	adjustable  240 Vac 50/60 1 17.2 72.3 9.6 40.1 7.1 29.6  20%Cr, <1% Fe wder coated coated	
Electrical Syst Voltage (as configi Frequency, Hz Phase Power, maximum, Current, maximum, Power,kW, operati Current, A, operati Power, kW, operati Materials of Co Heating Chamber Baffle & Eductor Heating element Furnace Dimer	kW n, A ing @ 950 C ing @ 950 C ting @ 425 C ing @ 425 C onstruction 304 Stainless 304 Stainless Quartz, near i	50/60 1 14.2 67 Hz 7.8 37.5 5.8 27.8 steel	36.0 in  Stan  220 Vac  50/60  1  14.2  64.4  8  36.3  5.9  26.9  Cooling  Belt support	230 Vac 50/60 1 14.5 62.9 8.1 35.4 6.0 26.2 Aluminum, air	240 Vac 50/60 1 14.8 61.6 8.3 34.6 6.2 25.6 rcraft Quartz tube	50/60 1 17.2 82.7 9.6 46.3 7.1 34.2	914.4 mm  220 Vac 50/60 1 17.2 78.1 9.6 43.8 7.1 32.3  Belt Frame Cover Panels	+/-38.1 mm  ligh Power  230 Vac  50/60  1  17.2  75.4  9.6  41.9  7.1  30.9  Nichrome V, 80%Ni, Steel, epoxy or pow 18GA steel, epoxy or	adjustable  240 Vac 50/60 1 17.2 72.3 9.6 40.1 7.1 29.6  20%Cr, <1% Fe	
Electrical Syst Voltage (as configi Frequency, Hz Phase Power, maximum, Current, maximum, Power,kW, operati Current, A, operati Power, kW, operati Current, A, operati Materials of Co Heating Chamber Baffle & Eductor Heating element	kW n, A ing @ 950 C ing @ 950 C ing @ 425 C ing @ 425 C onstruction 304 Stainless 304 Stainless Quartz, near i	50/60 1 14.2 67 Hz 7.8 37.5 5.8 27.8 steel	36.0 in  Stan  220 Vac  50/60  1  14.2  64.4  8  36.3  5.9  26.9  Cooling  Belt support  Belt Return	230 Vac 50/60 1 14.5 62.9 8.1 35.4 6.0 26.2 Aluminum, air	240 Vac 50/60 1 14.8 61.6 8.3 34.6 6.2 25.6  rcraft Quartz tube  Height (floor to st	50/60 1 17.2 82.7 9.6 46.3 7.1 34.2	914.4 mm  P 220 Vac 50/60 1 17.2 78.1 9.6 43.8 7.1 32.3  Belt Frame Cover Panels	+/-38.1 mm  ligh Power  230 Vac  50/60  1  17.2  75.4  9.6  41.9  7.1  30.9  Nichrome V, 80%Ni, Steel, epoxy or pow	adjustable  240 Vac 50/60 1 17.2 72.3 9.6 40.1 7.1 29.6  20%Cr, <1% Fe vder coated coated	