

EQUIPMENTSPECIFICATIONS

DOC NBR:	STD	- 80	2-101401-03	ı R	2			
MODEL:	RTC LA-306	WIT	H CXX30, ST	POW	ER			
SERIAL NBR:	ALL	SIXE	Δ	SHT	1	OF	1	

OOMII	NOOUS BEL	-1 1101 01010	TOL							
Equipment M	lodel							1		
Model	Base Equipment		Control Zones		Furnace Heated Length		Nominal Furna	ce Belt Width		
RTC LA-306	Continuous Belt Controlled Atmosphere Furnace		3		28 in 699 mm		6.0 in	152 mm		
Equipment A	rrangeme	nt								
Phase	Process			Max		Length		Process Gas	Temperature (typ)	
Phase 1	•		Hant Dames	1000 °C	28 in		CDA, N2, FG	450-950 C		
Phase 2	Gas Convective Cooling, Exterior Fan (includes transition tunnel)		Heat Removal		6 in	159 mm	CDA or N2	350-40 C		
Process Sect	1,	ansidon tunn	<u> </u>							
Function	Name			Location		1 -	41-	Process Gas	Temperature (typ)	
Product Load	Load Table Extension		Entrance load area		Length 30.0 in 762 mm		none	ambient		
Product Load	Load Station		Entrance load area		9.5 in 241 mm		none	ambient		
1 Toddot Lodd	Entr Baffle/Entrance Stack with Eductor					6.25 in				
ID E	Zone 1			Furnace chamber 1		6.6 in		N2 or FG	80-975 C	
IR Furnace	Zone 2				Furnace chamber 1		363 mm	N2 or FG	80-975 C	
	Zone 3		Furnace chamber 1		6.6 in	168 mm	168 mm N2 or FG			
Cooling Section	Trans Tunn	el		Heat/cool barrier		6 in	159 mm	none	360 °C	
Cooling Section	Gas Convection Cooling		Cooling section		40 in	1016 mm	N2	55-360 C		
Product Unload	Unload Stat	ion		Exit unload area		9.5 in	241 mm none		ambient	
	Frame Adju	stment				3.0 in	76 mm			
	Total					132.0 in 3353 mm				
Process Gas	(If Single Ga	s combine G	AS1 & GAS2.			or FG to furnac	e heating zone	s, GAS1=N2 or CDA to	all except zones)	
		Actual Condito		Typical 425 C	CDA operation	Typical 950 C,	low O2 operation	Max (all flowr	neters open)	
Furnace Replenis					rep/min		rep/min		rep/min	
	Temp °C	Press psi		Typical scfh		Typical scfh			Max Compressor sL/m	
Gas1 Supply	21	70		138	65	238	113	838	395	
Gas2 Supply	21	70		32	15	70	33	375	177	
TOTAL PROCESS GAS			170	80	308	146	1,213	572		
Exhaust Gas								,		
	Temp	Press		Typical	Min Flow	Typica	l Typical		Maximum Exhaus	
	°C in H ₂ O		scfh sL/m					sL/m		
GAS 1 & 2, MIX				170 80		202 95		348		
Cabinet Vent			le				200 0"		000 0#	
Cabinet Ventilation		om)	Flowrate Temperature			550 cfm <86°F	930 m3/h <30°C	550 cfm <122°F	930 m3/h <50°C	
(vent to room or exhaust system) Control Cabinet Ventilation Fans				212 cfm			360 m3/h			
(vents to room)			Temperature	•		<86°F <30°C		<104°F	<40°C	
Transport Sy	stem		· · · · ·					1		
Belt width	Otom		6.0 in	152.4 mm		Belt Edge He	eater(s):	none		
Belt type			Balanced spi			2011 2490 1 104101 (0).		110110		
,			2 in (50.8 mr	n) above belt	level.	Baffle plate clearance:		0.5" above belt		
Belt speed range)		1-20 ipm or 2	2-40 ipm			25-500 mm/m	or 50-500 mm/min		
Conveyor height 36.0 in			+/- 1.5 in	adjustable	914.4 mm		+/-38.1 mm	adjustable		
Electrical Sys	stem		Single	Phase				3-Phase		
Voltage (as confi	gured)	208 Vac	220 Vac	230 Vac	240 Vac	208 Vac	220 Vac	380 Vac	415 Vac	
Frequency, Hz		50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60	
Power, maximum		14.0	14.3	14.6	15.0	14.0	14.3	14.3	15.0	
Current, maximu		67.3	65.2	63.7	62.3	38.9	37.7	37.7	36.0	
Power, kW @ 42		6.3	6.5	6.6	6.7	6.3	6.5	6.5	6.7	
Current, A @ 425		30.4	29.5	28.7	28.1	17.6	17.0	17.0	16.2	
Power, kW @ 95 Current, A @ 950		8.3 40.1	8.6 38.9	8.7 37.9	8.9 37.1	8.3 23.2	8.6 22.4	8.6 22.4	8.9 21.4	
Materials of C			30.9	37.9	37.1	25.2	22.4	22.4	21.4	
Heating Chamber			Cooling	Aluminum, ai	ircraft		Belt	Nichrome V, 80%Ni,2	20%Cr <1% Fe	
		l	<u>-</u>				Steel, epoxy or powder coated			
Baffle & Eductor 304 Stainless steel Belt support Heating element Quartz, near infrared Belt Return		Quartz rod, Quartz tube				18GA steel, epoxy coated				
Heating element		i illilared	Belt Return	UHMW-PE			Cover Panels	roga steet, epoxy c	valeu	
Furnace Dime	ensions Length		Width		Height (floor to o	tack)	Furnace Sect	Coolg Sectn	Total Net Wt	
U.S. 132 in		18 in	Height (floor to si		+/- 1.5 in 880 LB		none	880 LB		
Metric 3.4 m		46 cm		203 cm		400 kg	none	400 kg		
Standard Conditions		Pressure	14.7 psia	101.3 kPa		Temperature	70 °F	21 °C		
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