

## EQUIPMENT SPECIFICATIONS

DOC NBR:	STD		2-101401-02	1	R2			
MODEL:	RTC LA-306	STD	POWER					
SERIAL NBR:	ALL	SIXE	Α	,	<sup>внт</sup> 1	OF	1	

CONTI	NUUUS BEL	I IK FUKN	ACE				ALL	$\Lambda$	' '	
Equipment M	lodel									
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		
<b>Equipment A</b>	rrangeme	nt								
Phase	Process				Max	Lei	ngth	Process Gas	Temperature (typ)	
Phase 1	IR Furnace, 3 Zones		1000 °C		28 in 699 mm		CDA, N2, FG	450-950 C		
Phase 2	Gas Convective Cooling, Exterior Fan		Heat Removal		6 in	159 mm	CDA or N2	350-40 C		
	(includes tra	ansition tunn	el)							
Process Sec	tions									
Function	Name			Location		Length		Process Gas	Temperature (typ)	
Product Load	Load Station		Entrance load area		9.5 in 241 mm		none	ambient		
Entr Baffle/Entrance Stack with			ck with Educt	Entrance ba	rrier	6.25 in	159 mm	CDA or N2	80-250 C	
IR Furnace Zone 1				Furnace cha	Furnace chamber 1		168 mm	N2 or FG	80-975 C	
	Zone 2			Furnace chamber 1		14.3 in 6.6 in		N2 or FG	80-975 C	
	Zone 3	Zone 3			Furnace chamber 1			N2 or FG	80-975 C	
Cooling Section	Trans Tunn	Trans Tunnel			Heat/cool barrier		159 mm	none	360 °C	
Journal Decitori	Gas Convection Cooling		Cooling section		40 in		N2	55-360 C		
Product Unload	Unload Stat	ion	Exit unload area		9.5 in		none	ambient		
	Frame Adju	stment				3.0 in	76 mm			
	Total				102.0 in					
Process Gas								, GAS1=N2 or CDA to		
F		Actual Condito	ns		C CDA operation		low O2 operation	Max (all flown	. ,	
Furnace Repleni					) rep/min  Min Flow		rep/min		rep/min  Max Compressor	
	Temp °C	ps		Typica scfl					wax Compressor sL/m	
Gas1 Supply	21	70		138			113	838	395	
Gas2 Supply	21	70		32	15	70	33	375	177	
,	PROCESS G	SAS		170	80	308	146	1,213	572	
Exhaust Gas								, -		
	Temp	Press	<u> </u>	Typica	al Min Flow	Typical	Typical		Maximum Exhaus	
°C in H₂O		)	scfl	h sL/m	scfh	sL/m	scfh	sL/m		
GAS 1 & 2, MIX	200	6	i	170	80	202	95	348	164	
<b>Cabinet Vent</b>	ilation									
Cabinet Ventilati			Flowrate			550 cfm	930 m3/h		930 m3/h	
`	` '		<del>-</del>	emperature		<86°F	<30°C	<122°F	<50°C	
(vents to room)	Control Cabinet Ventilation Fans Flowrate					212 cfm	360 m3/h	212 cfm	360 m3/h	
( ,			Temperature	<del>!</del>		<86°F	<30°C	<104°F	<40°C	
Transport Sy	stem			450.4						
Belt width			6.0 in	152.4 mm	1	Belt Edge He	eater(s):	none		
Belt type	Balanced spiral weave qht 2 in (50.8 mm) above be				lovol	Baffle plate c	logranco:	0.5" above belt		
Š			,	20 ipm or 2-40 ipm				or 50-500 mm/min		
Conveyor height			36.0 in	+/- 1.5 in	adjustable		914.4 mm		adjustable	
Electrical System			Single Phase				min	3-Phase		
Voltage (as conf		208 Vac	220 Vac	230 Vac	240 Vac	208 Vac	220 Vac	380 Vac	415 Vac	
Frequency, Hz	igui cu)	50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60	
Power, maximur	n, kW	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 @ 42		30.4	29.5	28.7	28.1	17.6	17.0	17.0	16.2	
Power, kW @ 95		8.3	8.6	8.7	8.9	8.3	8.6	8.6	8.9	
Current, A @ 95		40.1	38.9	37.9	37.1	23.2	22.4	22.4	21.4	
Materials of 0	Constructi	on								
Heating Chamber 304 Stainless steel		Cooling	Aluminum, aircraft			Belt	Nichrome V, 80%Ni,20%Cr, <1% Fe			
Baffle & Eductor 304 Stainless steel		Belt support	Quartz rod, Quartz tube			Frame	Steel, epoxy or powder coated			
Heating element Quartz, near infrared Belt Return		l	UHMW-PE			Cover Panels	18GA steel, epoxy coated			
Furnace Dim			1				11			
	Length		Width		Height (floor to s	stack)	Furnace Sect	Coolg Sectn	Total Net Wt	
U.S. 102 in			18 in	• '		+/- 1.5 in 800 LB		none	800 LB	
Metric 2.6 m			46 cm			+/- 3.8 cm 370 kg		none	370 kg	
Standard Conditions			Pressure	14.7 psia	101.3 kPa		Temperature	70 °F	21 °C	