

## **EQUIPMENT SPECIFICATIONS**

DOC NBR:		-	80	2-1	01	1401 <sub> </sub> R0	
MODEL:	RTC LA-306		cus	TOME		Ametek	
SERIAL NBR:	1306039101	SHT	1	OF	1	PRNT 12/01/21	

Equipment Mo	odel		Application:	Low O2 Glass	Plate			
Model	Base Equipment		Control			eated Length	Nominal Furnace Belt Width	
RTC LA-306	Continuous Belt Controlled Atmosphere Furnace		3		28 in 70 cm		6.0 in	
Equipment Arı	rangement		•					
	<u> </u>							
Phase	Process			Max		ength	Process Gas	Temperature (range)
Phase 1	IR Furnace, 3 Zones		1000 °C		28 in		N2	100-960 C
Phase 2	Transition Tunnel				15 in		N2	100-850 C
Gas Convective Cooling, Exterior Fa			an Heat Remova	al	30 in	76 cm	N2	25-360 C
Process Section	ons							
Function	Name		Location		l e	ength	Process Gas	Temperature (typ)
	Load Station		Entrance load	area	9.5 in 24 cm			ambient
	ENTRANCE BAFFLE		Entrance barri		6.3 in		N2	360 °C
	ZONE 1		Heating chamb	-	6.6 in			300 °C
IR Furnace	ZONE 2		Heating chamber 1		14.3 in		N2	350 °C
	ZONE 3		Heating chamber 1		6.6 in		N2	675 °C
TRANS TUNNEL, NO		ED	Heat/cool barrier, single ed		6.3 in			575 °C
Cooling CACT-COOLING TUNN			Cooling section		40.0 in		N2	260 °C
Product Unload	Unload Station		Exit station		9.5 in			ambient
	Frame Adjustment				1.0 in			l
	Total				100.0 in	254 cm		
Process Gas	1			'				
	Actual Conditons			ical	Typ Annealing (pos atmos)		Max (all flowmeters open)	
Furnace Replenish			2.0	rep/min	3.5 rep/min		7.7 rep/min	
	Temp Press		Min Flow		Typical			Max Compressor
N2 Supply	°C psi		scfh 199	sL/m 94	scfh 346	sL/m 163	1,547	sL/m 730
	AL PROCESS GAS		202	95	346	163	1,547	730
Exhaust Gas	NOOLOG OAG		202	93	340	103	1,547	730
LAHaust Gas	Temp Press		Min Flow	Min Flow	Typical	Typical		Maximum Exhaust
	°C in H <sub>2</sub> O		scfh	sL/m	scfh		scfh	sL/m
N2 & CDA mix	200 6		101	48	213	101	3,477	1 641
<b>Cabinet Ventil</b>	ation							
Cabinet Ventilation		Flowrate			550 cfm	930 m3/h		
(vent to room or exhaust system) Temperatur		Temperature	!		<86°F	<30°C		
<b>Transport Sys</b>	tem							
Belt width	6.0 in 15.2 cm					Belt Edge Hea	ter(s):	none
Belt type Balanced spi						Motor:	Bodine 1/50 HP	
		above belt leve	l		Baffle plate cle	earance: 0.25" above belt		
		es per minute			1.27 - 25.4 cm	per minute		
Conveyor height		36.0 in	+/- 1.5 in	adjustable		91.4 cm	+/-3.8 cm	adjustable
Electrical Syst	tem							
Voltage required		208 Vac, 60	,					
Maximum power required 13.9 kW, 66.								
Typical (operating)	<u>'' '</u>	Α						
Materials of Co								
Heating Chamber	Aluminum, aircraft	Cooling	Aluminum, airc			Belt		/, 80%Ni,20%Cr, <1% Fe
Baffle & Eductor	Aluminum, aircraft	Belt support	Quartz rod, Qu	artz tube		Frame	•	irethane or powder coated
Heating element	Quartz, near infrared	Belt Return	UHMW-PE			Cover Panels	18GA Steel,	urethane or powder coated
Furnace Dime	nsions			11		12		
Furnana Fastish	Not	Length		Height (floo		Furnace Sect	Coolg Sectn	Weight
Furnace, English	Net	102 in			+/- 1.5 in	800 LB		800 LB
Furnace, Metric	Net	2.59 m			+/- 0.04 mm	363 kg	70.05	370 kg
Standard Condi	tions	Pressure	14.7 psia	101.3 kPa		Temperature	70 °F	21 °C