

# **SPECIFICATIONS**

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**FLOWMETER SETTINGS**

PROCESS GAS  
GAS1  Clean Dry Air   
GAS2  none

**INITIAL SETTINGS FOR SINGLE GAS MODEL**

Replenish Rate is the number of times/minute that the furnace (or a section of the furnace) evacuates its gas

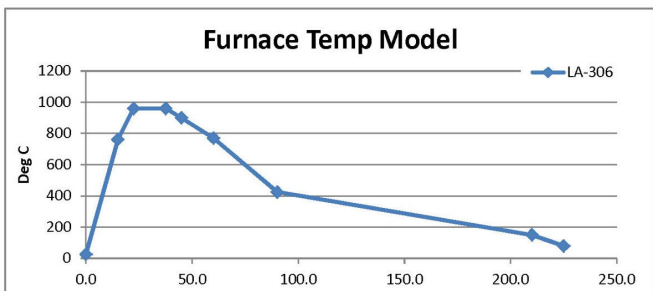
Replenish Rate	Furnace or Section Replenishes/Hour	Time to Refresh Furnace or Section
1 times/minute	60 times/hour	60 seconds
2 times/minute	120 times/hour	30 seconds
3 times/minute	180 times/hour	20 seconds
4 times/minute	240 times/hour	15 seconds

Different sections of the furnace can be replenished at different rates, if required  
Flowmeters graduated in: sL/m (lg=RMC flowmeters, sm=small RMA flowmeters)   
Belt Speed

**BALANCE**  
 scfh difference Balanced atmosphere in furnace  
 sL/m grad 0.0% incr (decr) of inflows over outflows

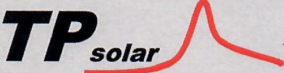
No.	Location	Label	Temps	Metered Gas	Flowmeter Size L/m	1 per Minute Replenish Rate Flow Setting sL/m grad	Desired Replenish Rate per Minute	Initial Flowmeter Setting scfh grad	Initial Flowmeter Setting sL/m grad
1	BESE Entrance barrier	ENTRANCE BAFFLE		CDA	200	8	3	21	10
2	Z1 Heating chamber 1	ZONE 1	960	CDA	200	16	11	44	21
3	Z2 Heating chamber 1	ZONE 2	960	CDA	200	17	6	48	23
4	Z3 Heating chamber 1	ZONE 3	900	CDA	200	9	6	25	12
5	TTSE Transition tunnel Ed	EXIT BAFFLE		CDA	200	7	3	21	10
6	CACT Cooling section	COOLING		CDA	200	24	5	69	32
7	HC Heat chamber sides	PLENUMS		CDA	200	30	3	85	40
8					1400				148

EXHAUST				distr %	scfh grad	sL/m grad
9	EEBE Entrance stack	ENTRANCE EXHAUST	CDA	100	19.4	9.2
10	EETT Transition tunnel	EXIT EXHAUST	CDA	100	2.2	1.0
				200	100%	10.3



Furnace Balance		scfh	sL/m
Gas Inflow to furnace		326.1	153.9
Gas to Eductors		21.7	10.3
Total Gas Required		347.8	164.1
- Stack Exhaust Flow (Net outflow)		347.8	164.1
		0	0.0
Furnace internal volume		cu ft	L
		2.6	72.3

PROCESS GAS SUPPLY REQUIREMENTS				Temp °C	Press psi	Gas	scfh	sL/m
1	Gas 1	All		21	70	CDA	347.8	164.1
2	Gas 2			21	70	none	0.0	0.0
				STP = 21C, 1 atm		Total	347.8	164.1



**TP**  
solar

**INNOVATIVE FURNACE TECHNOLOGIES**

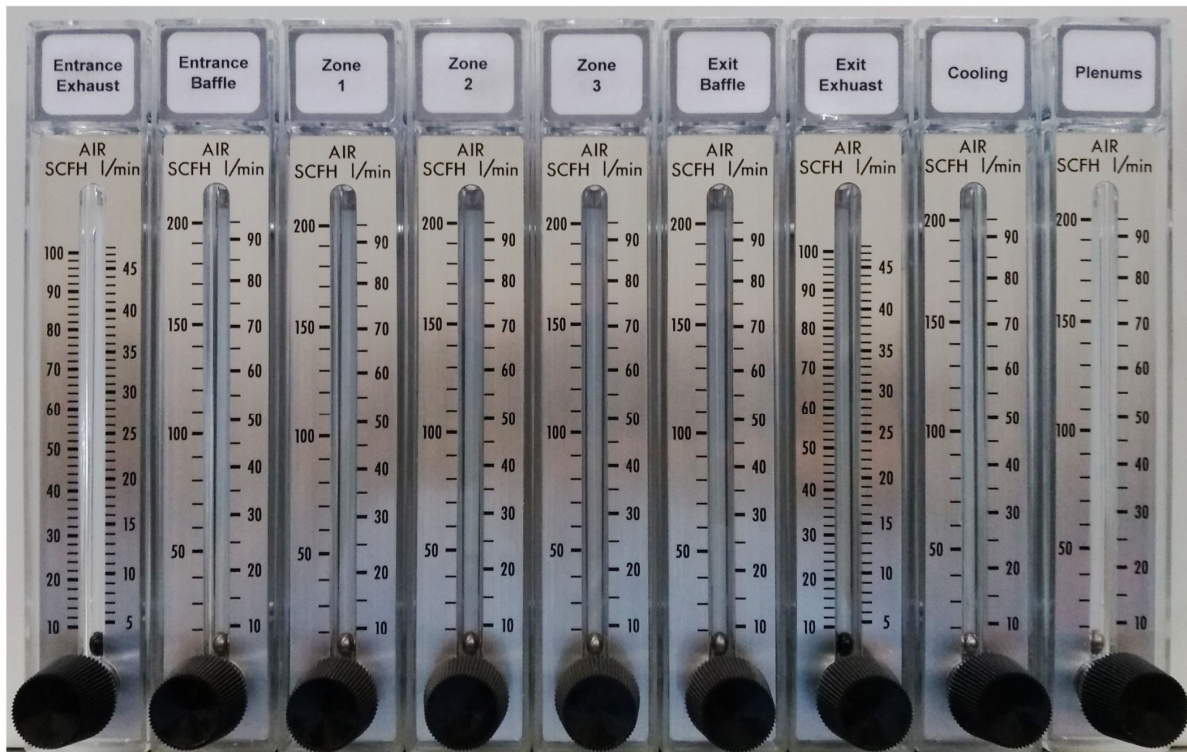
Serial Number	2019293
Model Number	LA-306-SiC
Input Service	400 Vac, 3 Wire / Neutral / Ground
Frequency	50 / 60 Hz
Peak Power	65 kW
Peak Current	80 A
CDA Max Input Pressure	75 PSI
Process Exhaust	2 at 10 LPS Each
Cabinet Exhaust	650 LPS
CDA Process Gas	800 LPM
Maximum Temperature	1150°C
Manufactured Date	09-2019

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## NAMEPLATE



## FLOWMETERS

