

MACHINE

Manufacturer: DK-Roasters
 Model/Year: SpeedRoast 5 (2021)

AMBIENT

Temperature: 22°C (20 – 30°C / 68 – 86°F)
 Pressure: 1019 hPa (950 – 1050 hPa)

BEANS

Name: Santa Rita Bourbon Bulk density: 690 g/l (670 – 730 g/l)
Guatemala (washed arabica) Screen size: 17/18 (17/18 1/64")
 Moisture: 11,5% (10.5 – 11.5%) Temperature: 22°C (ambient temp.)

PRE-HEATING

		CF	CV (kWh/m ³)	Volume (m ³)	Energy (kWh)	CO ₂ (g)
Duration: <u>40:00</u>	LPG	/	/	/	/	/
	NG	0,8944	10,972	0,773	7,588	1370
	Elec	/	/	/	0,122	47
				Total	7,71	1417

CF: Correction Factor
CV: Calorific Value

ROASTING

end of preheat to end of 4th batch

Batch size: 4,5 kg

Batch	#1	#2	#3	#4		Volume (m ³)	Energy (kWh)	CO ₂ (g)
FCs @			10:00		LPG	/	/	/
FCs BT	194°C			193°C	NG	0,839	8,232	1486
DROP @			12:32		Elec	/	0,167	64
DROP BT					Total		8,399	1550

FCs @ 10:00 Drop @ 12:30 (+10°C/18°F)

TOTAL CONSUMPTION & CO2 EMISSIONS

preheating + 4 roast batches

Duration: 96:00 ENERGY: 0,895 kWh/kg CO₂: 164,8 g/kg

POLLUTANTS

average of readings taken over the full cycle

PM: 51 mg/m³

CO₂: 3,6 % CO: 401 mg/m³ NO_x: 48 mg/m³ SO₂: 58 mg/m³

Conducted by: _____ on _____