

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/m³)	Volume (m³)	Energy (kWh)	CO ₂ (g)
Duration: <u>40:00</u>	LPG	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>
	NG	<u>0,8944</u>	<u>10,972</u>	<u>7,588</u>	<u>1370</u>
	Elec	<u>/</u>	<u>/</u>	<u>0,122</u>	<u>47</u>
CF: Correction Factor CV: Calorific Value				Total	<u>7,71</u> <u>1417</u>

ROASTING

end of preheat to end of 4th batch

Batch size: 4,5 kg

Batch	#1	#2	#3	#4	Volume (m³)	Energy (kWh)	CO ₂ (g)
FCs @	<u>9:52</u>	<u>10:10</u>	<u>10:00</u>	<u>9:50</u>	LPG	<u>/</u>	<u>/</u>
FCs BT	<u>194°C</u>	<u>194°C</u>	<u>194°C</u>	<u>193°C</u>	NG	<u>0,839</u>	<u>8,232</u> <u>1486</u>
DROP @	<u>12:25</u>	<u>12:35</u>	<u>12:32</u>	<u>12:30</u>	Elec	<u>/</u>	<u>0,167</u> <u>64</u>
DROP BT	<u>204°C</u>	<u>204°C</u>	<u>204°C</u>	<u>204°C</u>	Total	<u>8,399</u>	<u>1550</u>

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: Max Mustermann on 20.12.2021