



GEMMA 30[®]

INDUCTION

the first range
of roasting
machines with an
induction system

Sweet Coffee's
roasting machines
a completely
green solution

cut down
energy consumption
by more
than 60% - no CO₂



PATENT n° 22211884.6



GEMMA 30[®]

INDUCTION

Roasting machine equipped with induction heating

Induction heating is achieved through a coil placed outside the container cylinder of the roasting chamber, induced currents in the drum created by the Joule effect power heat in the drum itself, which in turn transfers heat to the rotating drum by radiation and convection

Heating of the rotating drum is deliberately indirect to avoid overheating of the rotating drum called the coil conformed in such a way as to allow the entry of a flow of air from below for the extraction of volatile products that are produced during the roasting process and escape from above

An insulating layer is placed on the outside of the container drum to the protection of the induction coil

Power control over the coil is achieved by referring to the temperature of the air inside the drum rotating and detected utilizing a thermocouple placed inside the rotating drum and placing a limit on the maximum temperature of the outer cylinder detected through the thermocouple

The airflow is regulated utilizing a regulating valve of the exhaust airflow

It is controlled according to the error of the temperature inside referred to as the thermocouple



technical specifications

Model

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Capacity	Kg	26-30
Control unit	mod.	Gefran G-Vision
Drum diameter	mm	590
Drum length	mm	668
Calculated loading volume	cm ³	90.000
Roasting cycle time	min.	15/18
Roasting cycles	h	4
Maximum load capacity	gr	30.000
Maximum drum rotation speed	r/min.	78
Maximum driving torque of drum shaft	Nm	300
Maximum drive torque of the cooler shaft	Nm	100
Displayed zones	n°	4
Thermoregulated zones	n°	2
Total heater power	Watt	30.000
Air requirement for cooling	cm ³	-
Oil content	l	No
Cooler motor group power	Watt	3.000
Drum motor group power	Watt	1.800
Toasting cycle average power	Watt	6.500/7.000
Total installed power	Watt	35.000
Power supply 3F+N+Earth	Volt	400
Power Supply (Current)	A	50
Total net weight	Kg	1.700
Maximum overall dimensions (LxHxP)	mm	3.020 x 2.380 x 1.320



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PARTNER

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