

GEMMA O



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



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

CapacityKg6-8Control unitmod.Gerran 3850 TDrum diametermm3 40Drum lengthmm420Calculated loading volumecm³19,000Roasting cycle timemin.15/18Roasting cyclesh4Maximum load capacitygr10,000Maximum driving torque of drum shaftNm2,4Maximum driving torque of the cooler shaftNm2Displayed zonesn°4Thermoregulated zonesn°2Total heater powerWatt12,000Air requirement for coolingcm³93Oil contentINoCooler motor group powerWatt1,000Drum motor group powerWatt1,000Drum motor group powerWatt1,700/2,200Total installed powerWatt1,700/2,200Total installed powerWatt1,3750Power supply 3F+N+EarthVolt400Power Supply (Current)A20Total net weightKg350Maximum overall dimensions (LxHxP)mm1,800 x 1,820 x 1,100	Model		GEMPE (S)
Drum diametermm340Drum lengthmm420Calculated loading volumecm³19,000Roasting cycle timemin.15/18Roasting cyclesh4Maximum load capacitygr10,000Maximum drum rotation speedr/min.78Maximum driving torque of drum shaftNm2,4Maximum drive torque of the cooler shaftNm2Displayed zonesn°4Thermoregulated zonesn°2Total heater powerWatt12,000Air requirement for coolingcm³93Oil contentINoCooler motor group powerWatt1,000Drum motor group powerWatt1,000Toasting cycle average powerWatt1,700/2,200Total installed powerWatt13,750Power supply 3F+N+EarthVolt400Power Supply (Current)A20Total net weightKg350	Capacity	Кд	6-8
Drum lengthmm420Calculated loading volumecm³19,000Roasting cycle timemin.15/18Roasting cyclesh4Maximum load capacitygr10,000Maximum drum rotation speedr/min.78Maximum driving torque of drum shaftNm2,4Maximum drive torque of the cooler shaftNm2Displayed zonesn°4Thermoregulated zonesn°2Total heater powerWatt12,000Air requirement for coolingcm³93Oil contentINoCooler motor group powerWatt1,000Drum motor group powerWatt1,000Toasting cycle average powerWatt1,700/2,200Total installed powerWatt13,750Power supply 3F+N+EarthVolt400Power Supply (Current)A20Total net weightKg350	Control unit	mod.	Gefran 3850 T
Calculated loading volumecm³19,000Roasting cycle timemin.15/18Roasting cyclesh4Maximum load capacitygr10,000Maximum drum rotation speedr/min.78Maximum driving torque of drum shaftNm2,4Maximum drive torque of the cooler shaftNm2Displayed zonesn°4Thermoregulated zonesn°2Total heater powerWatt12,000Air requirement for coolingcm³93Oil contentlNoCooler motor group powerWatt1,000Drum motor group powerWatt1,700/2,200Toasting cycle average powerWatt1,700/2,200Total installed powerWatt13,750Power supply 3F+N+EarthVolt400Power Supply (Current)A20Total net weightKg350	Drum diameter	mm	340
Roasting cycle timemin.15/18Roasting cyclesh4Maximum load capacitygr10.000Maximum drum rotation speedr/min.78Maximum driving torque of drum shaftNm2.4Maximum drive torque of the cooler shaftNm2Displayed zonesn°4Thermoregulated zonesn°2Total heater powerWatt12.000Air requirement for coolingcm³93Oil contentINoCooler motor group powerWatt1.000Drum motor group powerWatt1.700/2.200Toasting cycle average powerWatt1.700/2.200Total installed powerWatt13.750Power supply 3F+N+EarthVolt400Power Supply (Current)A20Total net weightKg350	Drum length	mm	420
Roasting cyclesh4Maximum load capacitygr10.000Maximum drum rotation speedr/min.78Maximum driving torque of drum shaftNm2,4Maximum drive torque of the cooler shaftNm2Displayed zonesn°4Thermoregulated zonesn°2Total heater powerWatt12.000Air requirement for coolingcm³93Oil contentINoCooler motor group powerWatt1.000Drum motor group powerWatt750Toasting cycle average powerWatt1.700/2.200Total installed powerWatt1.3.750Power supply 3F+N+EarthVolt400Power Supply (Current)A20Total net weightKg350	Calculated loading volume	cm³	19.000
Maximum load capacitygr10.000Maximum drum rotation speedr/min.78Maximum driving torque of drum shaftNm2,4Maximum drive torque of the cooler shaftNm2Displayed zonesn°4Thermoregulated zonesn°2Total heater powerWatt12,000Air requirement for coolingcm³93Oil contentINoCooler motor group powerWatt1,000Drum motor group powerWatt750Toasting cycle average powerWatt1,700/2,200Total installed powerWatt13,750Power supply 3F+N+EarthVolt400Power Supply (Current)A20Total net weightKg350	Roasting cycle time	min.	15/18
Maximum drum rotation speedr/min.78Maximum driving torque of drum shaftNm2.4Maximum drive torque of the cooler shaftNm2Displayed zonesn°4Thermoregulated zonesn°2Total heater powerWatt12.000Air requirement for coolingcm³93Oil contentINoCooler motor group powerWatt1.000Drum motor group powerWatt750Toasting cycle average powerWatt1.700/2.200Total installed powerWatt13.750Power supply 3F+N+EarthVolt400Power Supply (Current)A20Total net weightKg350	Roasting cycles	h	4
Maximum driving torque of drum shaftNm2.4Maximum drive torque of the cooler shaftNm2Displayed zonesn°4Thermoregulated zonesn°2Total heater powerWatt12.000Air requirement for coolingcm³93Oil contentINoCooler motor group powerWatt1.000Drum motor group powerWatt750Toasting cycle average powerWatt1.700/2.200Total installed powerWatt13.750Power supply 3F+N+EarthVolt400Power Supply (Current)A20Total net weightKg350	Maximum load capacity	gr	10.000
Maximum drive torque of the cooler shaftNm2Displayed zonesn°4Thermoregulated zonesn°2Total heater powerWatt12.000Air requirement for coolingcm³93Oil contentINoCooler motor group powerWatt1.000Drum motor group powerWatt750Toasting cycle average powerWatt1.700/2.200Total installed powerWatt13.750Power supply 3F+N+EarthVolt400Power Supply (Current)A20Total net weightKg350	Maximum drum rotation speed	r/min.	78
Displayed zonesn°4Thermoregulated zonesn°2Total heater powerWatt12.000Air requirement for coolingcm³93Oil contentINoCooler motor group powerWatt1.000Drum motor group powerWatt750Toasting cycle average powerWatt1.700/2.200Total installed powerWatt13.750Power supply 3F+N+EarthVolt400Power Supply (Current)A20Total net weightKg350	Maximum driving torque of drum shaft	Nm	2,4
Thermoregulated zonesn°2Total heater powerWatt12.000Air requirement for coolingcm³93Oil contentINoCooler motor group powerWatt1.000Drum motor group powerWatt750Toasting cycle average powerWatt1.700/2.200Total installed powerWatt13.750Power supply 3F+N+EarthVolt400Power Supply (Current)A20Total net weightKg350	Maximum drive torque of the cooler shaft	Nm	2
Total heater powerWatt12.000Air requirement for coolingcm³93Oil contentINoCooler motor group powerWatt1.000Drum motor group powerWatt750Toasting cycle average powerWatt1.700/2.200Total installed powerWatt13.750Power supply 3F+N+EarthVolt400Power Supply (Current)A20Total net weightKg350	Displayed zones	n°	4
Air requirement for coolingcm³93Oil contentINoCooler motor group powerWatt1.000Drum motor group powerWatt750Toasting cycle average powerWatt1.700/2.200Total installed powerWatt13.750Power supply 3F+N+EarthVolt400Power Supply (Current)A20Total net weightKg350	Thermoregulated zones	n°	2
Oil content/NoCooler motor group powerWatt1.000Drum motor group powerWatt750Toasting cycle average powerWatt1.700/2.200Total installed powerWatt13.750Power supply 3F+N+EarthVolt400Power Supply (Current)A20Total net weightKg350	Total heater power	Watt	12.000
Cooler motor group powerWatt1.000Drum motor group powerWatt750Toasting cycle average powerWatt1.700/2.200Total installed powerWatt13.750Power supply 3F+N+EarthVolt400Power Supply (Current)A20Total net weightKg350	Air requirement for cooling	cm³	93
Drum motor group powerWatt750Toasting cycle average powerWatt1.700/2.200Total installed powerWatt13.750Power supply 3F+N+EarthVolt400Power Supply (Current)A20Total net weightKg350	Oil content	1	No
Toasting cycle average powerWatt1.700/2.200Total installed powerWatt13.750Power supply 3F+N+EarthVolt400Power Supply (Current)A20Total net weightKg350	Cooler motor group power	Watt	1.000
Total installed powerWatt13.750Power supply 3F+N+EarthVolt400Power Supply (Current)A20Total net weightKg350	Drum motor group power	Watt	750
Power supply 3F+N+EarthVolt400Power Supply (Current)A20Total net weightKg350	Toasting cycle average power	Watt	1.700/2.200
Power Supply (Current)A20Total net weightKg350	Total installed power	Watt	13.750
Total net weight Kg 350	Power supply 3F+N+Earth	Volt	400
•	Power Supply (Current)	Α	20
Maximum overall dimensions (LxHxP)mm1.800 x 1.820 x 1.100	Total net weight	Кд	350
	Maximum overall dimensions (LxHxP)	mm	1.800 x 1.820 x 1.100



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