



LEISTER

ELECTRICAL HEATING SOLUTIONS

For coffee roasting machines

Identical
roasting quality
thanks to the electric
heating technology
from Leister

We know how.

Leister provides the right solutions


For more than 60 years, Leister Technologies AG has been the world market leader for electric hot air blowers and air heaters for use in trade and industry. As an experienced and reliable partner Leister offers you the perfect electric heating solution for a variety of applications, including coffee roasting. Leister electrical heating systems are the sustainable and environmentally friendly alternative for your gas heated coffee roasting machines.



Compact hot air blowers for Laboratories and Roasters

Leister offers a wide range of compact industrial hot air blowers that are perfectly suited for small roasters with batch sizes less than 1 kg. These compact heating devices are reliable, easy to install and precise operate.

Typical configurations	Batch size 0–200 g	Batch size 500 g	Batch size 1 kg
Power [kW]	1.5–2.3	3.4–4.5	<5.5
Hot air blower	MISTRAL 2/4/6 PREMIUM	MISTRAL 6 SYSTEM	HOTWIND

Leister hot air blower	Mistral 2/4/6 PREMIUM	MISTRAL 6 SYSTEM	HOTWIND	VULCAN
				
Power [kW]	2.3–4.5	1.5–4.5	2.3–5.4	6–11
Max. Air Outlet Temperature [°C]	430–650	650	650	650
Air Flow [l/min]	300–400	100–400	200–900	850/1500



Cutting-edge electrical heating solutions from Leister

Leister's state-of-the-art ceramic heating elements can generate air temperatures above 600 °C. This enables precise temperature control that aligns with the roasting curve.

Advantages of Leister Hot Air Solutions

- + Ceramic heating elements that enable heating temperatures between 650–900 °C
- + PID controller for precise control of temperature
- + 3-point temperature measurement for heating, beans and air outlet
- + System interface for control of the heating system from remote source
- + Integrated overheating protection
- + High quality product standards including CE, ROHS, EMC

Sustainable coffee roasting





All over the world, facilities are moving towards the use of sustainable energies to conserve natural resources and protect our environment. Roast masters are very interested in alternative heating solutions for their coffee roasting machines.







Powerful Hot Air Heating Systems for Shop roasters




Leister's experts provide you with tailored hot air solutions for shop roasters to accommodate batch sizes between 1 to 15 kg. In this category, Leister recommends that you configure a heating system around the design of the roaster.

Typical configurations	Batch size 1 kg	Batch size 5 kg	Batch size 12 kg
Air heater	LE 10000 DF	LE 10000 DF-C	2 x LE 10000
Power [kW]	5.5	17	34
Blower, Air Flow	Mono	2.2 m ³ /min	2.2 m ³ /min
Max. Air Outlet Temperature [°C]	600	620	620

Leister air heater	LHS 41-91	LHS 410	LE 5000 DF	LE 10000 DF
				
Power [kW]	2-32	2-5.5	4.5-11	4.5-17
Temperature [°C]	650	650	650-900	650-900
Air Flow [l/min]*	200 - 8000	200-1250	480-3500	420-5000
Versions	Integrated PID controller	SF/DF	HT high temperature	HT high temperature Clean Air

*Air Flow depending on application

Leister hot air blower	Mono	Robust	2.2m ³ /min	Airpack
				
Power [kW]	0.12	0.25	0.36	2.2
Max. air flow [l/min]	200-600	1300	2200	4500
Static pressure [kPa]	3.6	8	7.7	30

Accessories	Temperature controller	Solid state relay	Frequency converter
			
Voltage	100-240 V AC	3 x 600 V AC	1 x 200-240 V 3 x 380-480 V
Interface	RJ 45/4-20 mA Signal	PMW Signal	
Precision	0.2 %		

What roasting masters want



Electric heating solutions from Leister meet the requirements for environmentally friendly coffee roasting:

- + Sustainable, environmentally friendly and safe roasting
- + Organic, high-quality roasting (gas-free combustion)
- + Easy to install, reliable in operation and repeatable process parameters
- + Optimized control of roasting parameters (heating temperature, air flow, drum speed)
- + Consistent, high-quality roasts from batch to batch
- + Minimal operating, maintenance, and service costs
- + Installation in facilities that prohibit gas-powered equipment

Leister hot air solutions achieve identical roasting result

The electrically heated roaster may even provide improved quality and aroma of the coffee and allow roast masters to use the same recipes for gas roasting. The electric Leister heating solution ensures the signature brand taste of the coffee, which can be reproduced continuously and precisely.

Quality roasting results

- + Safer and environmentally friendlier electric heating with similar process results

Precise roasting process curve

- + Leister heating element ensures steep temperature rises after filling the beans

Identical roasting quality

- + Relevant quality parameters were precisely measured and compared
- + Identical roasting quality is achievable

Use existing recipes

- + Gas roasting recipes created with Arisatan or Cropster software deliver identical results on electrically heated roasters

Sustainable roasting

- + The sustainably generated electricity significantly reduces emissions from hydrocarbons, carbon dioxide, carbon monoxide and sulfur oxide
- + Consistent, high quality batches from roast to roast
- + Low operating, maintenance, and service costs
- + Can be installed in facilities where gas-powered machines are not permitted

«Leister is a Member of the German Coffee Association.»



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