Leister's air heaters: From mini to giant.



Picture: LHS 21S SYSTEM (p. 28-29)

7 Professional integration or controlled stand-alone operation

Operation modes LHS SYSTEM	Control mode	Adjustment mode
Internal (potentiometer) set point.	Temperature set point by potentiometer. Display shows temperature set point and actual temperature.	Capacity set point by potentiometer. Display shows capacity set point in % and actual temperature.
External (interface) set point.	Temperature set point by external controller. Display shows temperature set point and actual temperature.	Capacity set point by external controller. Display shows capacity set point in % and actual temperature.



The LHS air heater family

The LHS air heater family covers an impressive power range from 550 W to 40 kW. The diversity of this portfolio makes it ideal for practically all hot-air applications. By choosing LHS air heaters, you are investing in devices that are manufactured using state-of-the-art technology. Between them, the CLASSIC, PREMIUM and SYSTEM models offer the ideal solutions for users' differing requirements.

Features	CLASSIC	PREMIUM	SYSTEM
Easy to integrate (mounted from above)	\checkmark	\checkmark	\checkmark
Overheat detection with alarm output for the heating element	\checkmark		
Tool overheat detection with alarm output	\checkmark		
Overheat protection with alarm output for the heating element		\checkmark	\checkmark
Tool overheat protection with alarm output		\checkmark	\checkmark
Infinitely adjustable heating capacity via potentiometer		\checkmark	\checkmark
Remote control via analogue interface $(4 - 20 \text{ mA or } 0 - 10 \text{ V})$			\checkmark
Various open-loop and closed-loop control modes available for selection			√ *
LED display (target/actual value display)			√ *
* = except the LHS 91 SYSTEM			

Alongside its optimised design and traditional Leister quality, the patented heating element protection guarantees yet another increase to the service life of the heating element. Thanks to their built-in temperature probes and controllers, integrating the LHS SYSTEM air heaters has never been easier. The integrated power electronics make external power controls a thing of the past and even simplify the wiring.

Model	LHS 15	LHS	21	LHS 41		LHS 61		LHS 91
		S	L	S	L	S	L	
Power Range from – to	550 W 800 W	1000 W 2000 W	3.3 kW 3.3 kW	2.0 kW 3.6 kW	2.0 kW 5.5 kW	4.0 kW 9.0 kW	5.0 kW 16 kW	11 kW 40 kW
Catalogue page	26	2	8	3	0	3	2	34



LHS 15: Tiny and reliable.

The tiny air heater provides hot-air up to 650 °C. All prominent features of Leister air heaters also are offered with this tiny heater: long-life heating element, reliable protection systems, standard interfaces. Simply summarizing – the same Leister quality as usual. This makes it a perfect tool for applications in Semiconductor, Electronics, Automotive and other industries.

Air heater



Technical data

Max. air outlet temperature	°C	650
Max. air inlet temperature	°C	65
Max. ambient temperature	°C	65
Min. air flow		As per diagram page 27
Relative humidity	%	5 – 95 non condensing
Max. inlet pressure	kPa	100
Weight	kg	0.48
Conformity mark		CE
Approval mark		\$
Protection class II		

Installation dimensions in mm



Combination possibilities

- Leister air heater at maximum heat power and without nozzle with Leister blower at 50 Hz, 1.5 m hose length and unimpeded air outflow.
- Hot-air temperature 3 mm after air outlet, measured at the hottest point.
- Air flow at 0 °C, 101.3 kPa compliant with DIN 1343.

Power Typ	Number LHS 15 x power cons. W	Air flow I/min.	Temperatur °C
ROBUST	1 × 800	1 × 150	420
ROBUST	2 × 800	2 × 130	460

Air flow and temperature values may deviate from those above based on the design of the entire hot-air system (including nozzles, air hoses, environmental conditions).







Deflashing foil sleeves from charcoal filter elements

Air heater LHS 15 CLASSIC



Heating power not adjustable

Detection of heating element and device overheating with alarm output

Air heater LHS 15 PREMIUM



Heating power steplessly adjustable with potentiometer

Protection against heating element and device overheating with alarm output

Air heater



Air Heaters Controllers

Heating power or temperature steplessly adjustable with potentiometer or remote control interface

Protection against heating element and device overheating with alarm output

Remote control interface for external temperature controllers (Leister CSS, or PLCs)



Order no.:	CLASSIC	PREMIUM	SYSTEM
LHS 15 0.55 kW/120 V	139.873	139.908	139.894
LHS 15 0.8 kW/230 V	139.874	139.893	139.895

Contact a Leister sales partner in your region for professional advice and information on our other air heaters and blowers.







Accessories LHS 21 (Ø 36.5 mm)

Air heater and blower for drying labels. Fast drying allows for high throughput speeds.

Accessories LHS 15 (Ø 21.3 mm)

a	107.282	Flange connector, push-fit a = 40 mm		107.261 108.078 105.982	Wide slot nozzle, push-fit (a × b) 70 × 4 mm 100 × 4 mm 150 × 4 mm
	107.144 107.145	Round nozzle, push-fit Ø 5 mm Ø 10 mm	<u>Þ</u>	107.308 107.309	Sieve reflector, push-fit (a \times b) 35 \times 50 mm 20 \times 35 mm
R	107.152	Round nozzle, push-fit \varnothing 12 mm	b a	107.314	Spoon reflector, push-fit (a × b) 25 × 30 mm
	107.310 107 311	Sieve reflector, push-fit (a \times b) 20 \times 35 mm 50 \times 35 mm		107.319	Sieve reflector «Douche», push-fit
	Tornorr				Ø 65 mm
	107.324	Sieve reflector, push-fit on round nozzle \emptyset 5 mm a = 10 mm		106.132	Shell reflector, push-fit (a × b) 150 × 25 mm
b Wid 105.549 10 105.559 20 105.548 40 105.547 50	Wide slot nozzle, push-fit (a × b) 10 × 2 mm, angled 20 × 2 mm, length 55 mm 40 × 5 mm 50 × 8 mm		142.230	Adapter plate LHS 21 instead LHS 20	
			143.480	Adapter plate LHS 21 instead LE 3000	
	144.035	Compressed air connection		133.515	Thermocouple holder
			144.037	Compressed air connection	
	143.533 Adapter plate LHS 15 instead LE 700				
			a	125.316	Flange connector, push-fit a = 62 mm
			b_())	107.251	Extension nozzle, push-fit (a \times b) 210 \times 36.5 mm
			\wedge	107.003	Round nozzle, push-fit

Ø 12 mm

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