

Leister LHS CLASSIC Air Heater



Please read operating instructions carefully before use and keep for further reference.

APPLICATION

The Leister Air Heater type LHS CLASSIC are suitable for building into machines, installations or appliances and are designed for continuous operation.

- Drying and heating processes of various types.
- Shrinking and welding packaging films and moulded parts.
- **Heating** conveyor ovens or heat tunnels.
- Activating and loosening solvent free adhesives and melt adhesives.
- Sterilizing packaging materials such as bottles, corks and containers.
- Separating and fusing synthethic fibres and fabrics.
- Soldering processes on thin metal parts.
- **Speeding up** mixing processes and **dissolving** foams which can arise during mixing and filling operations.
- Welding thermoplastic materials.
- Removing plastic mould flash.
- Putting a shine on plastic surfaces.



LHS CLASSIC 20S LHS CLASSIC 20L



LHS CLASSIC 40S LHS CLASSIC 40L



LHS CLASSIC 60S LHS CLASSIC 60L

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WARNING



Danger! When opening up the tool, live components and connections are exposed. The mains plug must be removed from the main socket before opening up the tool. **Caution separate source voltage.**



Incorrect installation and use of air heaters can present a **fire and explosion hazard**, particularly in the proximity of flammable materials and explosive gases.



Do not touch the element housing and nozzle when hot as they can cause **burns**. Do not point the hot air flow at people or animals.



CAUTION



The **voltage rating** stated on the tool should correspond to the mains voltage.

IEC/EN 61000-3-11; Z_{max} = 0.047 Ω + j 0.029 Ω . If necessary, consultate supply authority.



The tool with protection class I should be earthed using a protective conductor.



The tool must be operated **with supervision**. Warmth can reach combustible materials, which are out of sight.



Protect the tool from **dampness** and **wet**.

Technical Data	LHS CLASSIC 20S	LHS CLASSIC 40S	LHS CLASSIC 40L	LHS CLASSIC 60S	LHS CLASSIC 60L
Voltage V~	100 - 230	100 - 230	3×230-3×440	3×230-3×480	3×230-3×480
Frequency Hz	50/60	50/60	50/60	50/60	50/60
Power consumptionkW	1.0 / 2.0	2.0 / 4.0	2.0 / 4.0	4.0 / 6.0	8.0 - 16.0
Min. air flow I/min	. 200	300	300	400	600
Max. temperature°C	600	600	600	600	600
Ambient °C	< 65				
temperature					
Weight kg	0.55	0.85	0.95	3.15	3.65
Size mm	252×97×87	261×112×98	291×112×98	379×116×137	379×116×137
Mark of conformity	C€	Œ	Œ	Œ	C€
Mark of Approval	\$	\$	\$	\$	\$
Certification scheme	CCA	CCA	CCA	CCA	CCA
Protection class I				(1)	
Protection class II					

Installation

- When installing the tool, ensure that:
 - only cold air is supplied
 - no (hot air) back pressure develops
 - the tool is not subjected to a hot air flow from another tool
- The tool is protected against mechanical vibration and shaking.
- Installation dimensions on pages 5, 6 and 7.

Air supply

- To protect the tool and the heat element, the stipulated minimum air flow must under no circumstances fall short, and the maximum temperature (measured at the hotest point 3 mm in front of the element housing) must also not be exceeded. In the event that the minimum air flow falls short, the power must immediately be disconnected.
- The air heater should only be supplied with air up to a max. 80°C.
- Pay attention to the direction of the airflow.
- Leister blowers must be used for the air supply (pay attention to the direction of rotation and the electrical connection).
- For use in a dusty environment the tool should be fitted with a Leister stainless steel filter on the air intake connection. Where a particularly critical dust problem exists (eg metal, electrically charged or damp dust) special filters must be used to avoid short circuiting of the tool.

Operation

- The tool must be connected by a qualified electrician in accordance with the circuit diagram (Pages 5,6 or 7).
- Fit a nozzle appropriate to the use.
- It should be checked that the hot air can flow out freely, otherwise a back pressure of hot air may damage the tool (danger of fire!).
- Attention: Keep to the minimum air flow according to the technical details (Page 2).
- Switch on mains.
- Allow the tool to cool down after use.

Attention: Never operate tool without air supply!

Function: Heat element protection

If the heating element overheats, the alarm relay contact will open.

Function: Tool protection

If the tool overheats (air supply too warm or back pressure of hot air) the operating contact of the alarm relay will open.

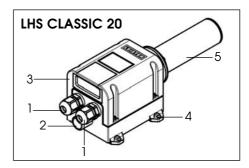
Measures to be taken if the heating element or tool protection cuts out

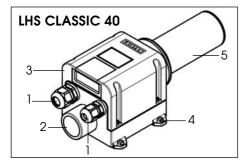
- Remove electronic control from the mains. After 10 seconds the electronics reset automatically.
- Check air supply.
- Check air volume.
- · Check air flow.
- Re-connect tool to the mains.

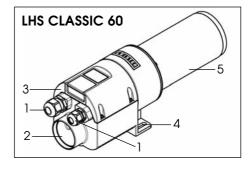
TOOL DESCRIPTION

Leister LHS CLASSIC

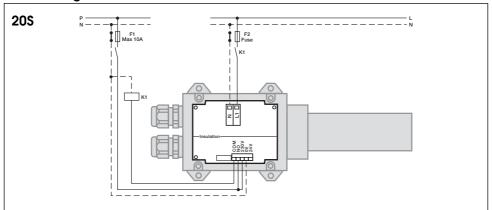
- 1. Screw type cable fitting
- 2. Air intake connection
- 3. Flange housing
- 4. Fitting plate
- 5. Element housing



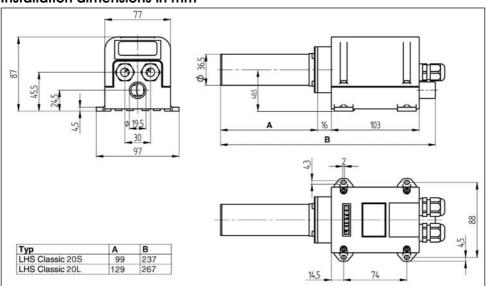




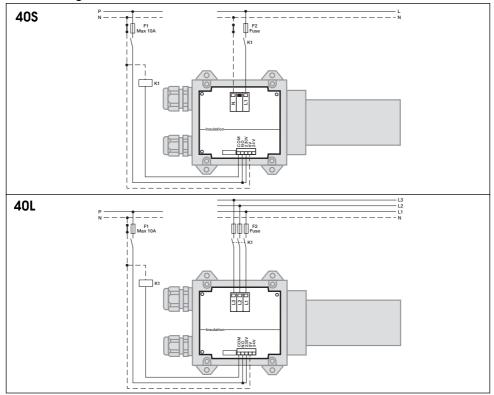
Circuit Diagram



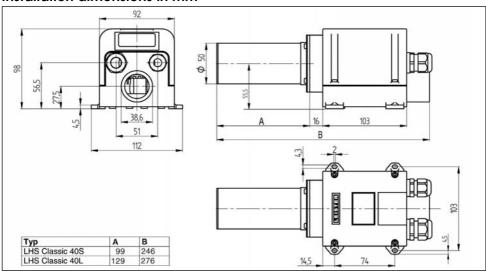
Installation dimensions in mm



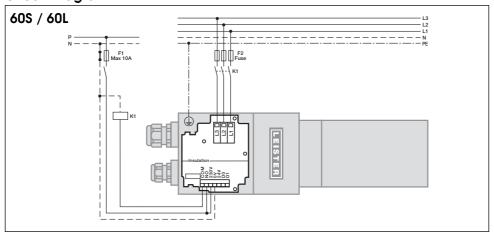
Circuit Diagram



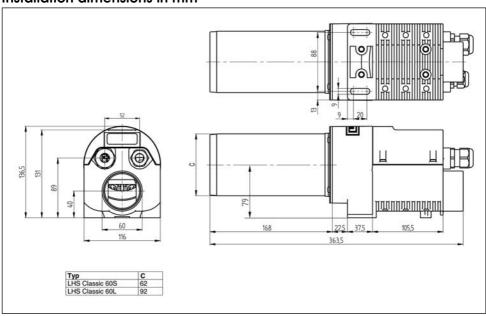
Installation dimensions in mm



Circuit Diagram



Installation dimensions in mm





TRAINING

Leister Process Technologies and its authorised Service Centres offer free of charge courses in the range of applications on page 1.

ACCESSORIES

- Only Leister accessories should be used.
- Let the tool cool down before changing the nozzle or reflector.

SERVICE AND REPAIR

Repairs should only be carried out by authorised Leister Service Centres. They
guarantee a correct and reliable repair service within 24 hours using original
spare parts in accordance with the circuit diagrams and spare parts lists.

WARRANTY

- For this tool, we generally provide a warranty of one (1) year from the date of purchase (verified by invoice or delivery document). Damage that has occurred will be corrected by replacement or repair. Heating elements are excluded from this warranty.
- Additional claims shall be excluded, subject to statutory regulations.
- Damage caused by normal wear, overloading or improper handling is excluded from the guarantee.
- Guarantee claims will be rejected for tools that have been altered or changed by the purchaser.

Technical data and specifications are subject to change without prior notice. Your authorized Service Centre is: