LEISTER Diode S, Diode PID ▣
Hot Air Tool

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

APPLICATION

- **The LEISTER Hot Air Pistol Diode S, Diode PID is designed for continuous operation and is suitable as a hand tool or for building into machines, installations and appliances**
- **Welding** of thermoplastic materials and also single-ply flexible plastics and modified bitumen in the form of boards, tubes, profiles, lining membranes, coated materials, films, foams, tiles, and sheets. The following procedures are possible: overlap welding, welding with rod, with tape, butt welding and melt welding
- **Heating-up** for forming, bending and sealing of thermoplastic semi-finished materials and plastic granules
- **Drying** of water-damp surfaces
- **Shrinking** of heat-shrink sleeves, films, tapes, solder sleeves and moulded parts.
- **Soldering** copper pipes, solder joints and metal foils
- **Activating/dissolving** of solvent free adhesives and fusion adhesives.
- **Separating and fusing** synthethic fibres and fabrics
- **Removing** plastic mould flash and putting a **shine** on plastic surfaces

LEISTER Diode PID
- Temperature electronically steplessly controlled
- Digital display of SET and ACTUAL value °C (in °F on request)
- Air flow monitoring
- Element protection
- Heat protection tube

LEISTER Diode S
- Temperature steplessly adjustable
- Element protectoion
- Heat protection tube

LEISTER Process Technologies, Riedstrasse, CH-6060 Sarnen / Switzerland
Tel. +41 - 41 662 74 74 Fax +41 - 41 662 74 16 www.leister.com sales@leister.com

WARNING

Danger to life when opening the tool, as live components and connections ar exposed. Unplug the tool before opening it.

Incorrect use of hot air blowers can cause **fire and explosion hazard**, especially near combustible materials and explosive gases.

Do not touch the element housing and nozzle when they are hot as they can cause **burns**. Let the tool cool down. Do not point hot air flow in the direction of people or animals.

CAUTION

The **voltage rating** stated on the tool must correspond to the line/mains voltage.

For personal protection on building sites we **strongly recommend** the tool be connected to a **GFCI** (**G**round **F**ault **C**ircuit **I**nterrupter) or a **RCCB** (**R**esidual **C**urrent **C**ircuit **B**reaker) .

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

Protect tool from **damp** and **wet**.

TEST SIGNS

This tool is **CCA** certificated (**C**ENELEC **C**ertification **A**greement).

TECHNICAL DATA

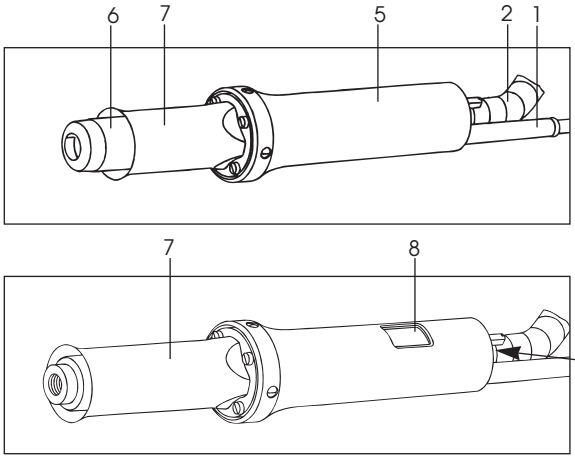
Electrical safety: ⧈ **double insulated**

Voltage	**V~**	42, 100, 120, 230
Capacity	**W**	900, 1350, 1600, 1600
Frequency	**Hz**	50/60
Temperature	**°C**	20 – 600
Air flow	**l/min.**	min. 40
Air pressure	**Pa**	max. 10^5 (dynamic)
Weight	**g**	425, 1150 with 3 m cord and 3 m air hose
Size	**mm**	265 x Ø 40

Mains voltage cannot be switched ove

10^5 Pa = 1 bar

Description of tool



1. Cord to mains
2. Air hose internal Ø 14 mm
3. Potentiometer for temperature adjustment
4. Hose clamp
5. Handle
6. Tapered element housing
7. Heat protection tube
8. Digital display of SET and ACTUAL value

Operating Condition

- Air supply
  The Hot Air tool Diode «S», Diode «PID» needs either the High Pressure Blower LEISTER Minor, Longlife or Robust for air supply. In dusty air, air filter must be fitted. When using compressed air, an oil and water filter must be connected. The air flow can be steplessly adjusted with the LEISTER air flow adjuster attached to the blower.
- As required, fit appropriate nozzle.
- Connect tool to the mains.
- Adjust the hot air temperature by use of the **potentiometer (3)**.
  The themperature can be checked with a thermocouple about 5 mm inside the nozzle, when using round nozzles in the centre of the nozzle, when using draw nozzles in the main nozzle opening. The diameter of the thermocouple must not be more than 1 mm max. (in accordance with DVS 2208 part II).

ATTENTION

- The Hot Air tool should be placed on a heat resistant surface or use LEISTER tool stand . The tool must not be operated without air supply.
- Allow the Hot Air tool to warm up for about 3 min.

Digital-display (8)

ACTUAL value

SET value

Resolution 2/3 °C / 5 °F

Air-Error
when air flow falls below minimum

Sensor Error
when max. temperature is exceeded in build-up phase

Operation

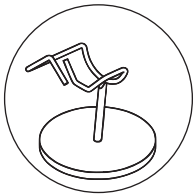
- The LEISTER Company, as well as the Service Centres, offer free training courses and advice in all areas of application (see page 1).
- Allow the tool to cool down after use.

Change of nozzles

- Before changing nozzles, allow the tool to cool down, or use only combination pliers/spanner.
- Do not touch hot nozzle and make sure to put it only on a heat resistant surface, because of the **fire hazard**.

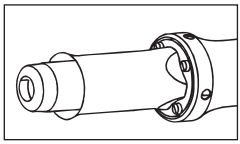
ACCESSORIES

- Only LEISTER nozzles should be used.
- Tool stand
- PVC air hose Ø 14 mm
- Hose clamp for air hose Ø 14 mm

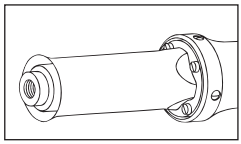


Tool stand

TYPES



Tapered element housing with heat protection tube for push-fit LEISTER nozzles.



Element housing with heat tube protection for screw-on LEISTER nozzles

SERVICE AND REPAIR

- Repairs should only be carried out by authorised **LEISTER Service Centres**. They guarantee a specialised and reliable **Repair Service within 24 hours** using original spare parts lists.

GUARANTEE AND LIABILITY

- Guarantee and liability will be in accordance with the guarantee certificate as well as the current valid general business and sales conditions.
- The LEISTER Company rejects any guarantee claims for tools which are not in their original condition. The tools must never be altered or changed.

Technical data and specifications are subject to change without prior notice.

Your authorised Service Centre is:

LEISTER Process Technologies, Riedstrasse, CH-6060 Sarnen / Switzerland
Tel. +41 - 41 662 74 74 Fax +41 - 41 662 74 16 www.leister.com sales@leister.com