EN

NEXHEAT 300 A-LP

Operating Instructions

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Congratulations on your purchase of NEXHEAT 300 A-LP.
You have chosen a first-class battery-powered hot-air hand tool.
It has also been manufactured using high-quality materials.

Please always store these operating instructions with the device.

NEXHEAT 300 A-LP
Battery-powered hot-air hand tool

To learn more about the NEXHEAT 300 A-LP, visit leister.com

1. Application

1.1 Intended use

The battery-powered hot-air hand tool was developed for professional use in the area of shrinking and shaping themoplastic plastics, plastic welding, as well as for heating and drying.

The legal provisions on health protection applicable in the respective country must be observed. Never use the battery-powered hot-air hand tool in an explosive or highly flammable environment and always keep away from flammable materials or explosive gases. Read the material safety data sheet from the material manufacturer and follow the instructions. Be careful not to burn the material during the welding process. Observe 📖 general safety instructions [1.3].

1.2 Non-intended use

Any other use or any use beyond the type of use described is deemed non-intended use.

1.3 General safety information

Please observe the safety instructions provided in the individual chapters of these operating instructions as well as the following safety instructions.

Warning

Risk of improper use of Li-ion batteries
Lithium-ion batteries are intended to operate this equipment. The appropriate precautions in accordance with the battery manufacturer's safety and warnings when handling these batteries must be observed.

Danger when using **unintended and damaged batteries**
- Use only original, undamaged batteries (AMPShare Allianz or Bosch Professional 18V line).

Fire and Explosion Hazard – Be aware of the hazard when used improperly in the presence of flammable materials and/or explosive gases.
- There is a risk of fire and explosion if hot air equipment is used improperly, especially near flammable materials and explosive gases.
- Do not point the hot air jet at the same location for a long time. Heat may be introduced to flammable materials out of sight.

Risk of burns – Be aware of the risk of hot parts or hot air jet
- Do not touch the heating element tube and nozzle when they are hot.
- Never point the hot air flow at people or animals.
- Allow the unit to cool before decommissioning.
- Only use the device on horizontal and fireproof surfaces.
- Allow the unit to cool completely before changing the nozzle or storing it after use.

Health Risk – Protect Yourself When Machining Plastics
- When welding with incorrect materials or when welding at too high a temperature, a risk of harmful gases/vapors can arise.
- Avoid breathing vapors.
- Follow the material manufacturer's specification.
- Always ensure good ventilation of the workplace when working.

Glare Hazard – Be aware of LED ray hazard
- Avoid direct eye contact with the LED light beam.

Risk of injury from improperly repaired equipment
- Repairs must only be carried out by an authorized service center.
- Only original accessories and spare parts may be used.

Caution

- Only operate the device **under supervision** as waste heat can reach flammable materials.
- The device should only be operated by **trained specialists** or under their supervision.
- Children are not permitted to operate the device.

- Protect the device from moisture and wet conditions.

2. Functions

Operating option	ON operation (device will only run as long as the start button is pressed) ON/OFF operation (runs until the start button is pressed again)	[7.3]
Readiness	Display in case of temperature deviation from the set target value	
Temperature	Regulated temperature in 5°C/10°F increments Cold Step (Heating Off, OFF)	[7.2.1] [7.3.1]
Airflow	Five Level Selection	[7.2.2] [7.3.2]
Workspace Restriction	Range can be defined for temperature and air volume. This helps prevent errors in the application.	[9.2.2]
Battery (**8**) Protection	Detection of undervoltage, overheating and overcurrent. Device switches off automatically / cannot be switched on.	

3. Technical data

		NEXHEAT 300 A-LP
Voltage	Vdc	18
Temperature	°C °F	OFF, 50 – 500 OFF, 120 – 930
airflow	%	40 – 100 (5 levels)
Noise level	dB (A)	<67
Weight	kg lbs	0.560 1.23
Length (without battery)	mm in	178 7.00
Height (without battery)	mm in	201 7.91
Recommended ambient temperature when charging the battery	°C °F	0 … 35 32 ... 195
Environmental condition for battery operation and storage	°C °F	-20 … 50 -4 ... 122
Compatible Batteries		EXBA18 V… GBA 18V... ProCORE18V...
Recommended Capacity		8 Ah (operable from 4 Ah)
Recommended chargers		GAL 18… GAX 18… GAL 36…
Approvals, protection class		CE
Country of origin		Switzerland

We reserve the right to make technical changes.

4. Transport

Fire hazard when transporting while hot
- Before transporting, make sure to allow the hot air hand tool to cool sufficiently.
- Never store flammable materials (such as plastic or wood) in the transport box.
- Remove the **battery (8)** from the handheld hot air tool before transporting.

During transport, the device must be stored and secured in such a way that no mechanical damage can occur.

If the **battery (8) must be transported**, the following points must be observed:
- The **battery (8)** must be disconnected from the device for transport.
- The recommended Li-ion batteries are subject to the regulations of the Dangerous Goods Act. They may be transported by the user on the road without additional restrictions.
- Special packaging and labeling requirements must be observed when shipping by third parties (e.g. by air transport or freight forwarder). A Dangerous Goods Expert must be consulted to prepare the shipment.
- Ship batteries only if the case is undamaged. Carefully tape open contacts and pack the **battery (8)** so that it cannot move inside the package. In addition, observe applicable national regulations for the shipment of Li-ion batteries.

5. Power supply / battery

The device is operated with Li-ion batteries from the AMPShare Allianz or from the Bosch Professional 18 V line.
Use only original and undamaged batteries.

Li-ion batteries with a capacity of 4 Ah or higher are accepted. For optimal performance, use of 8 Ah ProCORE battery packs is recommended (Note: battery packs with lower capacity or older cell technology may result in reduced performance or reduced run time).

Also observe the instructions in the 🕮Transport section [4].

5.1 Charging the battery

Only use the chargers listed in the technical data.
Only these chargers are matched to the Li-ion battery used in your device.

Note during initial commissioning: Li-ion batteries are shipped partially charged according to international transport regulations. To ensure full **battery (8)** power**,** fully charge the **battery (8)** before first use.

5.2 Inserting the battery

Do not use force when inserting the battery.
The **battery (8)** is designed to be inserted into the unit only in the correct position.
Slide the charged **battery (8)** into the battery holder until it clicks into place.

5.3 Removing the battery

The **battery (8)** has two locking stages that prevent the **battery (8)** from falling out when the release button is pressed unintentionally. To remove the **battery (8),** press the battery release button and pull out the **battery (8). Do not apply any force.**

5.4 Battery charge level indicator

The green LEDs on the battery charge indicator indicate the current charge level of the **battery (8).** If the battery is inserted in the device, the display can only be used when the device is switched off.

Press the State of Charge button On or to view the state of charge. If there is no **LED (7)** after pressing the charge indicator button, the **battery (8)** is defective and must be replaced.

Battery type ProCORE 18V...

LED	Capacity
Continuous light 5 × green	80-100%
Continuous light 4 × green	60-80%
Continuous light 3 × green	40-60%
Continuous light 2 × green	20-40%
Continuous light 1 × green	5-20%
Flashing light 1 x green	0-5 %

Battery type ProCORE 18V...

LED	Capacity
Continuous light 3 × green	60-100%
Continuous light 2 × green	30-60%
Continuous light 1 × green	5-30%
Flashing light 1 x green	0-5%

5.5 Instructions for optimal handling of the battery

Protect the **battery (8)** from moisture and water. Store the **battery (8)** only in the temperature range of -20°C to +50°C. (Example: Do not leave the **battery (8)** in the car in the summer.)

A significantly shortened operating time after charging indicates that the **battery (8)** is depleted and needs to be replaced. Observe the disposal instructions [17].

6. Your NEXHEAT 300 A-LP

6.1 Type plate and identification

The model and serial number are indicated on your device's **name plate (9)**.
Transfer this information to your operating instructions; in the event of any inquiries to our country subsidiary or your authorized Leister sales and service partner, please always refer to this information.

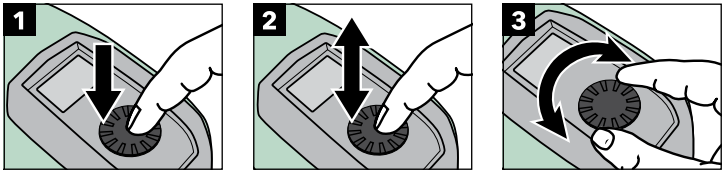
Model: .....
Serial no.: .....

Example:

6.2 Overview of device parts

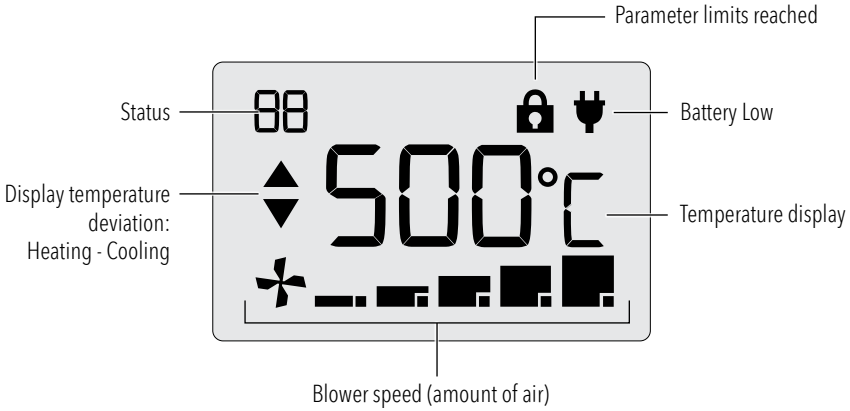
1. Heating tube
2. Operating/display module
3. Display
4. e-Drive
5. Unlock
6. Start / trigger
7. LED
8. Battery
9. Type plate

6.3 Control (e-Drive)



long press (>1 sec) | press briefly (<1 sec) | rotate

6.4 Display display



6.5 LED indicator

Various states are also output via the **LED (7**).

LED "dimmed"	Standby state (change parameters already possible)
Light LED	Operating condition (blower running, heating possible)
LED cyclically short off	Operating Warning (Battery soon empty/hot)
Fast, short flashing LED, OFF	Undervoltage shutdown
LED swelling and decongesting	Fault state (indicate the fault number in the **display (3)**)

7. Commissioning NEXHEAT 300 A-LP

Smoke development during initial commissioning: The metal surfaces are protected from corrosion by a coating from the factory. This protective layer evaporates during initial commissioning.
Through the manufacturing process, the hot-air blower can show discolorations on the nozzle. This is not damage; the function of the hot-air blower is not affected.

7.1 Inserting the battery

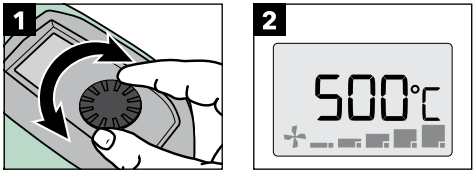
See Inserting the 🕮 battery [5.2].

7.2 Turn on device (standby/configuration)

Pressing the **e-Drive (4)** or the **release button (5)** puts the device in standby (the **LED working light (7)** is on, the blower is not running and is not being heated). In this state, the operating parameters can already be changed and the configuration menu can be accessed. After a period of time without further input, the device switches off automatically (**display (3)** and **LED (7)** turn off).

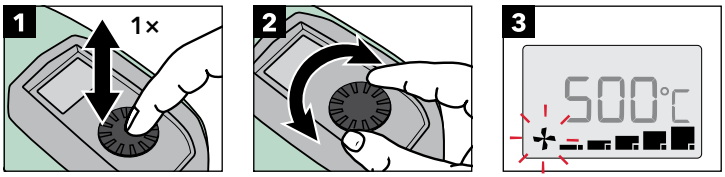
7.2.1 Set temperature

The target temperature can be set by turning the **e-Drive (4).**



7.2.2 Adjust air volume

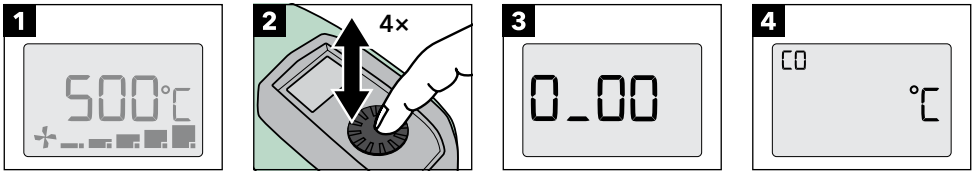
Briefly pressing the **e-Drive (4)** will cause the air volume indicator to flash. By turning the **e-Drive (4),** the desired air volume level can now be adjusted. If no further input is made within four seconds, the input mode is automatically terminated.



press briefly (<1 sec) rotate 4 s

7.2.3 Configuration Menu

Pressing the **e-Drive (4)** four times briefly brings up the menu (for details, see 📖 configuration menu [9]).
The software version is displayed for a short time before the first parameter C0 is displayed.

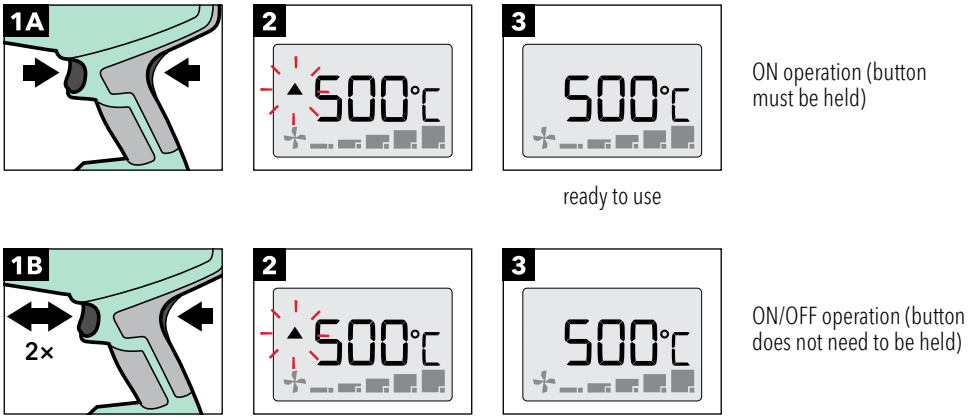


7.3 Switch on the device (operation)

1A: Pressing the **release button (5)** and the **start button (6)** simultaneously puts the device into operating mode (ON mode, switches off again after releasing the **start button (6).**

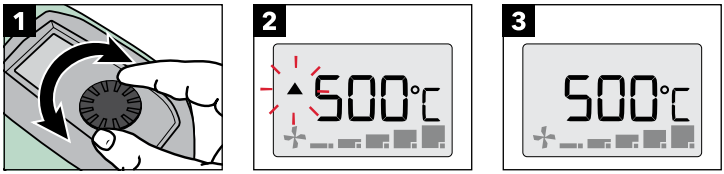
1B: If the **start button (6)** is pressed twice in a row while pressing the **release button (5),** the device starts in ON/OFF mode (**start button (6)** no longer needs to be pressed, switch off by pressing and releasing again).

At power-up, the device will start automatically with the last parameters used. A target temperature that has not yet been reached is indicated in the **display (3)** by one of the two arrows "Heating" or "Cooling".



7.3.1 Set temperature

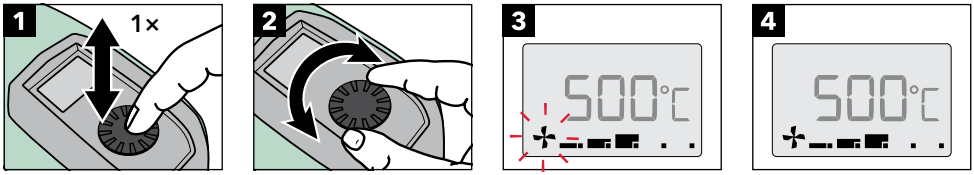
The target temperature can be adjusted by turning the **e-Drive (4).** As soon as the temperature deviation is no longer displayed (flashing arrow), the device is ready for use.



ready to use

7.3.2 Adjust air volume

Briefly pressing the **e-Drive (4)** activates the air volume indicator – it will start flashing. The air volume level can now be adjusted by turning the **e-Drive (4).** If no further input is made within four seconds, the input mode is automatically terminated.



press briefly (<1 sec) | rotate | 4 s | ready to use

8. Decommissioning NEXHEAT 300 A-LP

Risk of fire and burns

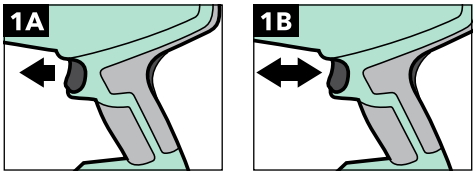
- Do not touch the **heater tube (1)** and nozzle in the hot state as there is a risk of burns.
- Allow the device to cool after use.
- Note: Remove the **battery (8)** before changing accessories or putting the hot-air blower away. This precaution prevents unintentional starting of the device.

8.1 Manual cooling

To actively cool the unit before switching off, reduce the temperature in operation until the **display (3)** shows "OFF". Then wait until the device has cooled down.

8.2 Switch off the device

1A Releasing the **start button (6)** in ON mode or pressing and releasing it briefly **1B** again in ON/OFF mode will interrupt the heating output and turn off the blower.



8.3 Automatic Power Off

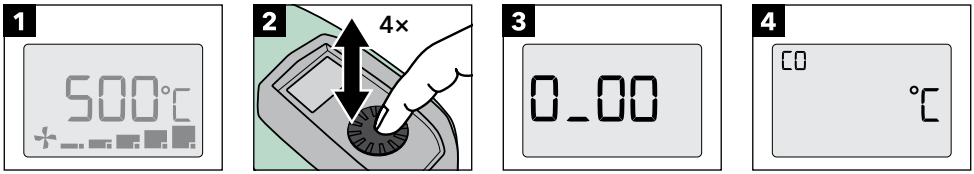
An automatic shut-off occurs to protect the **battery (8)** if the voltage is too low, the temperature is too high or the current is too high.

If the battery voltage is low or the battery temperature is high, brief interruptions in the light will alert you to an imminent shutdown.

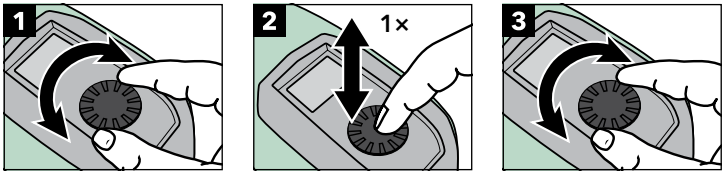
9. Configuration Menu

9.1 Accessing the Menu

Pressing the **e-Drive (4)** four times in standby mode briefly will bring up the menu.
The software version is displayed for a short time before the first parameter C0 is displayed.



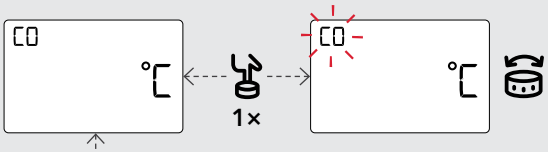
9.2 Navigation in the menu



Change Parameters | Select/confirm parameters | Change Parameters

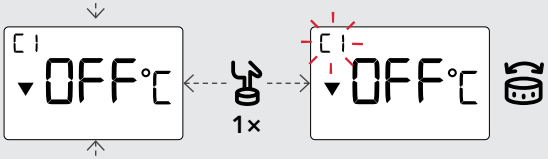
9.2.1 Define temperature unit [C0]

Temperature unit
°C = Celsius
°F = Fahrenheit

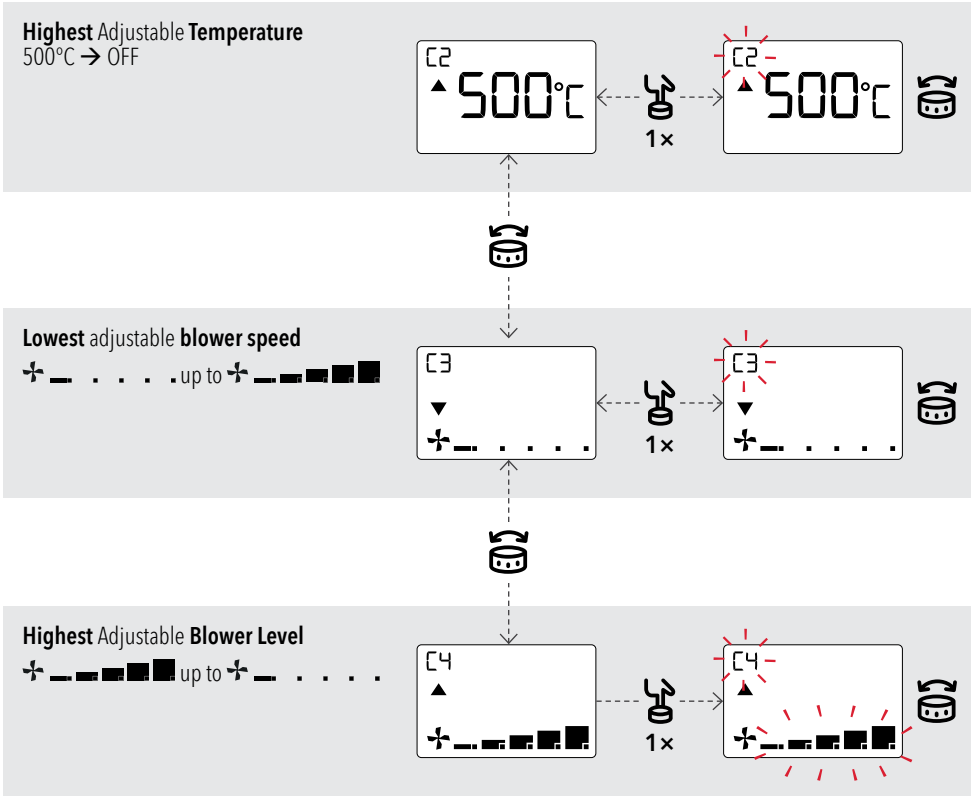


9.2.2 Define work area [C1-C4]

Lowest Adjustable **Temperature**
OFF → 500°C

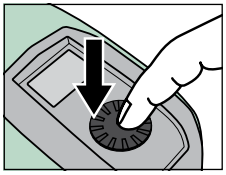


Continue to next page



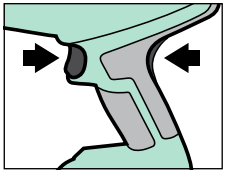
9.3 Exiting the Menu

Long press of the **e-Drive (4)** exits the menu (standby state).



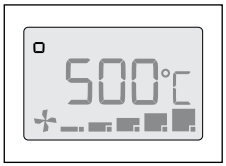
long press (>1 sec)

Pressing the release and start buttons can exit the menu and put the unit into operation.



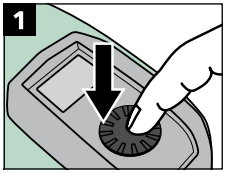
9.4 Display of a modified basic configuration

Device with changed basic configuration.

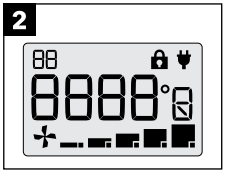


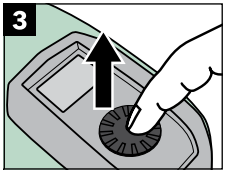
9.5 Reset to Basic Configuration (Reset)

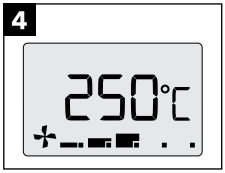
When resetting to the basic configuration, a restricted workspace is removed. The temperature unit is not changed. While in standby, press and hold **e-Drive (4)** until all segments of **display (3)** light up.



long press (approx. 5 s)







Basic Configuration Device

10. Warnings

Behavior	Description, measures
LED (7) turns off cyclically for a short time during operation	**Note that operation is not possible for long.** Undervoltage or overtemperature shutdown of the battery is imminent.

11. Faults and Error Codes

An error is generally indicated by the changing brightness of the **LED (7)** as well as by the error number in the **display (3)** for a certain time. After a fault occurs, the **battery (8)** should be disconnected from the device and proceed according to the fault list.

"Function" is understood below to mean the activation of the device (standby state).
"Operating" is defined below as the condition with the blower/heater active.

Behavior	Display, error number	Description, measures
Unable to function/activate the device (Unable to activate the device by pressing the unlock or e-Drive button)	**no display**	The **battery (8)** may not be **inserted correctly.** ▪ Check that the **battery (8)** is correctly engaged in the device.
		If a **full battery (8) is correctly inserted,** the **device is defective.**
	E100/LED flashes quickly. Display goes out again immediately.	**Too low battery voltage** prevents the device from being activated. ▪ Please check the charge level of the **battery (8),** charge it if necessary or use a replacement battery.
Unable to operate the device (Error immediately after activating the device)	**E101**	**Too much battery voltage** prevents the device from operating.
	No change in display	Defective **release or start button.**
	E102	Battery **temperature monitoring (8) faulty/ not possible.** ▪ Try reinserting the **battery (8).** If repeated, use a replacement battery.

Behavior	Display, error number	Description, measures
Unable to operate the device (Error immediately after activating the device)	**E103**	**Too high a battery temperature** prevents the device from operating. ▪ Allow the **battery (8)** to cool down first or use a replacement battery before continuing operation.
	E104	**Battery type not detected or not supported** for operation. ▪ See supported battery types in the 📖 technical data [3].
Device **switches off during operation**	**E100**/LED flashes quickly. Display goes out again immediately.	**Battery (8) Undervoltage** Shutdown (Battery Protection). ▪ Charge the **battery (8),** use a replacement battery.
	E102	Shutdown due **to battery (8) temperature monitoring failure.** ▪ Try reinserting the **battery (8).** If repeated, use a replacement battery.
	E103	**Battery (8) overtemperature** shutdown (battery protection). ▪ Allow the **battery (8)** to cool down first or use a replacement battery before continuing operation.
	E004	Trigger overcurrent **detection of the electronics.** ▪ If the error recurs, the device is defective.
	E005	**Blower** Error ▪ If **no air flow is** generated, a defect in the blower/control before the → device is no longer used, defective.
	E008	Shutdown due to electronics **overtemperature.** ▪ Allow the unit to cool down. After a short period of time, operation should be possible again - use the cold stage (temperature OFF) and the highest air volume level to actively lower the temperature before re-operation.

Behavior	Display, error number	Description, measures
Device **switches off during operation**	**E019**	**Exit temperature** error **(too high)** ▪ Possible cause is an excessive reduction of the air volume at high temperature (blocking of the air outlet opening). ▪ If the problem occurs even without manipulation of the air quantity/exhaust opening, a defect is not possible when controlling the heating output in front of the → device, is defective.
	E020	**Exit temperature** error **(too low)** Possible causes include blower failure, device protection (fuse) response, or heater failure. ▪ If **no air flow is** generated, the blower/control in front of the → device is defective ▪ If the air flow remains cold despite the high target temperature, a defect in front of the → device is defective
Temperature is not reached during operation	Up arrow blinks continuously	**Too much air, too little heating power.** Please check whether the maximum recommended air volume level is set for the selected target temperature (temperature cannot be reached if the air volume is too high/exhaust opening is too large). ▪ If **no air flow is** generated, the blower/control in front of the → device is defective ▪ If the temperature is not reached even at a small air volume level, the heating coil can be visually checked. If only half of the coil (half circle) glows, the heater is defective in front of the → unit.

12. Quick Start Guide NEXHEAT 300 A-LP

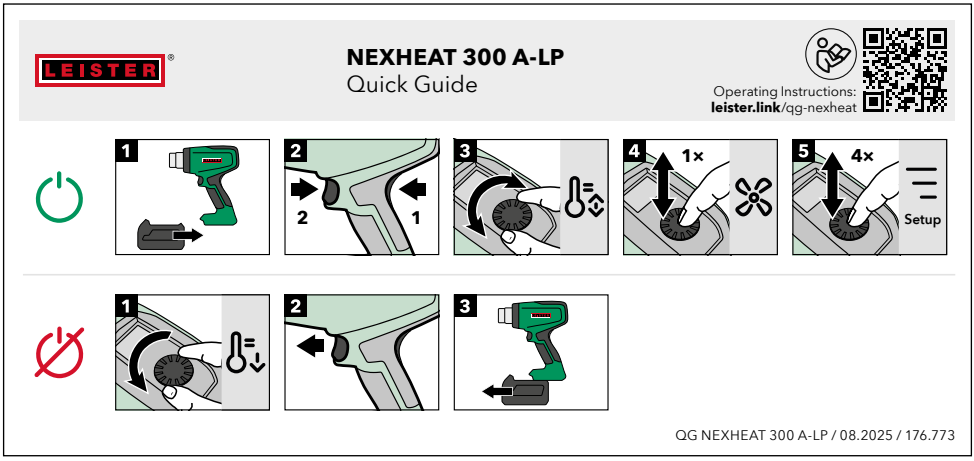
Observe the safety instructions and warnings in the individual sections of these operating instructions.

12.1 Switching on/Starting

1. Insert fully charged **battery (8)**
2. ON operation: Press **release button (5)** and **start button (6).** Press and hold **start button (6).**
   ON/OFF operation: Press and hold **release button (5)** and press **start button (6)** twice in a row – the device will remain on without holding a button.
3. By turning the **e-Drive (4),** the set temperature can be changed and the air volume level can be changed after pressing the **e-Drive (4).**

12.2 Switching off

1. If the device is no longer to be used, active cooling with the "OFF" temperature setting is recommended
2. ON operation: Release **start button (6)**
   ON/OFF operation: Press and release **start button (6) again**
3. Remove **battery (8)** from device.



13. Accessories

For more information please visit leister.com.

14. Service and repair

Remove the **battery pack (8)** from the device/power tool before working on the device/power tool and transporting and storing it.
There is a risk of injury/fire if the controls are inadvertently operated.

Keep the unit/electric tool and vents clean to work well and safely.

Repairs shall be performed exclusively by authorized Leister sales and service partners.
You can find the address of your authorized Leister sales and service partner on the last page of this manual.

For more information please visit leister.com.

15. Training

The Leister Academy and its authorized Leister sales and service partners offer welding courses and product and service application training.

For more information please visit leister.com.

16. Declaration of Conformity

The declaration of conformity is available on the website at leister.link/doc-nexheat

17. Disposal

Do not throw power tools or batteries in household trash.
Power tools, batteries, accessories and packaging must be recycled in an environmentally friendly manner. When disposing of our products, consider national and local Regulations.

For the disposal of batteries, observe the 📖 general safety instructions [1.3].

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Warranty

- The guarantee or warranty rights granted for this device by the direct distribution partner/salesperson apply from the date of purchase. In the event of a guarantee or warranty claim (verification by invoice or delivery note), manufacturing or processing errors will be rectified by the sales partner through replacement delivery or repair. Heating elements are excluded from warranty obligations or guarantees.
- Other guarantee or warranty claims are excluded within the framework of mandatory law.
- Damage resulting from natural wear, overload, or improper handling is excluded from the warranty.
- Devices that have been converted or modified by the purchaser are not covered by any warranty or guarantee.
- Only use original Leister spare parts and accessories; otherwise, any warranty or guarantee claims will be invalidated.

Find a nearby dealer

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