





Hot Gas Welder

OPERATING INSTRUCTIONS¹ HOT GAS WELDER

EXOTHERM

Provided by: Wegener International GmbH

Ernst-Abbe-Str. 30 D-52249 Eschweiler \$\infty\$+49 2403 70484-0 \$\infty\$+49 2403 70484-99 \$\overline{o}\$ info@wegenerwelding.de

¹ V1.1

Exotherm ====

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EC - Declaration of Conformity

We, Company

Wegener International GmbH, Ernst-Abbe-Str. 30, 52249 Eschweiler

declare within the meaning of the EC - rules

2006/95/EG, Niederspannungsrichtlinie 2004/108/EG, EMV-Richtlinie

that the product

Device designation Hot Gas Welder

Type: Exotherm

to what this declaration refers, confirms with the following EC – guidelines and norms or other norminative documents:

EN 55014-1: 2006 + A1:2009

EN 55014-2:1997 + Corrigendum 1997 + A1: 2001 + A2: 2008

EN 61000-3-2:2006 + A1:2009 + A2:2009

EN 61000-3-3: 2008

Subscriber information:

Name: Dietrich Prename: Michael

Position: General Manager & Techn. Director

Eschweiler, 1.8.2014

CORRECT USE

The **WEGENER Exotherm** may only be used for its intended purpose as described in these operating instructions. Any other use will be deemed to be not in accordance with its intended use. The manufacturer cannot be held liable for any resulting damages.

Applications:

- welding of thermoplastics parts e.g. sheets, pipes etc.
- pheating of plastic parts prior to forming or bending
- drying of non-flammable, wet surfaces
- removing paint and varnishes
- break down of solvent-free glue connections
- generating of hot air in machines and equipment

Safety instructions

- Unplug from the mains before opening the device!
- Risk of explosion and fire if used incorrectly!
- Do not place device on flammable surfaces! Risk of burns from hot burner pipe, nozzle and hot air jet!
- Only operate the device with the rated mains voltage!
- Protect the device against moisture and damp!

Symbols used



This symbol indicates a possible material and/or environmental damage.



Warning about hot surfaces.

Description of the device

The **WEGENER Exotherm** hot gas welder has been specially developed for high-precision and top-quality welds. It is easy to use and reliably provides excellent results.

The **WEGENER Exotherm** has a temperature regulation and an own air supply this enables a constant air temperature an air flow.

Operating the device

After plug in the main, the current heating element temperature and "off" appear alternately in the LCD display and the integrated air supply starts.



The power supply must be maintained for at least 3 min. after the device is switched off to cool down by the own air supply to prevent the device from overheating. Otherwise the handle or control electronics may be damaged by the residual heat in the heating element!

CAUTION! Do not operate the device without air supply!

You can now call the following functions with the push buttons:

Switching on

Keep the upper key pressed for a moment. The "set" and "on" displays appear in succession.

If the device has been switched off by unplugging the mains or by pressing and holding the lower button, the last set value will be saved. After having connected the device again, it has to be started with the "set on"—function.

Temperature adjustment

Press the lower or upper key briefly to change the set temperature. "set" appears in the display and then the last set value that was entered. You can now raise the set temperature with the upper key or lower it with the lower key. Press the key repeatedly at short

intervals to change the value in steps, press for slightly longer to change it faster and keep pressed for a very fast adjustment. The value will be accepted around 3 sec. after you release the key.

Lack of air

If the quantity of air falls below a minimum value (depending on the heating temperature) the heating is switched off and "E001" appears in the display. The fault message has to be reset once the quantity of air returns to within the permissible range. Press the lower key until "set" and then "quit" appear. You can then continue working with the device by switching it on (see above).

Switching off

The device can be switched off by pressing the lower key for a moment ("set" appears, followed by "off"). All values that were last set will be saved.



It has to be ensured that the air supply keeps connected during cooling down the device. After the device has cooled down, the electrical power supply has to be disconnected (unplug power cable!).

Display Celsius/Fahrenheit

The temperature can be shown in either degrees Celsius or degrees Fahrenheit. Keep the upper key pressed before connecting the device to the power supply and then connect to the mains. The display then shows the temperature in Celsius. Doing the same with the lower key will show the temperature in Fahrenheit

Setup

- Check the device and the connections for damage.
- Fit the corresponding welding nozzle (size 14 open-end spanner) and align by turning the device cover.
- Connect to the mains.
- Switch on the device (see chapter Operating the device).
- Adjust the air temperature with the push buttons.
- 2 Let the device heat up a few minutes.

The necessary welding temperatures can be found in DVS Guideline 2207 Part 3. Leave the device to heat up for a few minutes.



The WEGENER Exotherm is fitted with a safety cutout that conditionally protects the device against damage if the air supply fails. Nevertheless, the device may not be operated over a longer period of time without air!

Leave the device to cool down before switching the air supply off ("Off" switch)!

Do not place the device on flammable surfaces, use a suitable holder!

Changing the nozzle

Leave the device to cool down, change the nozzle using a size 14 openend spanner and align by turning the device cover.



Risk of burns!

Risk of burning together when a cold nozzle is screwed into a hot device!

Do not place hot nozzles on flammable surfaces!

There is an extensive nozzle program for your WEGENER Exotherm.

Warning notices



The burner pipe can become very hot during operation even when used correctly! Risk of burns!



The air escaping from the welder can reach a temperature of several hundreds of degrees Celsius so that you must take great care when working with the device, storage during use and servicing work so as to avoid any accidents. It should be pointed out that

- the hot air should never be pointed directly at parts of the body, the face or eyes;
- the hot air should never be pointed directly at highly flammable or even explosive substances;
- great care must be taken adjusting the temperature when working with critical plastics (PVC on account of toxic vapors).
- the device must be left to cool down before changing the nozzle.
- the burner pipe may still be very hot near the nozzle thread quite a while after the end of work.

Faults

The following list should make it easier for you to find and remedy the cause of faults:

Fault	Cause	Remedy
The device does not	Air/power switched off Device not switched on Power supply defective Incorrect quantity of air (Error E0001)	Switch on Switch on Check Decrease temperature or
heat up after 2- 3 min.	incorrect quartity of all (Effor E0001)	send unit for repair
	Faulty heating element Faulty sensor (Error E002) Faulty control (Error E003)	Check (see maintenance) Send unit for repair Send unit for repair

Maintenance

Keep the device clean, to extend the lifetime.

Please make sure that repairs on your own will exclusively be realized by authorized personnel and using original **WEGENER** spare parts.

Replacing the heating element



Assembly work may only be carried out after the device has cooled down and when this has been

unplugged from the mains!

Removal:

Remove the screw at the upper end of the handle

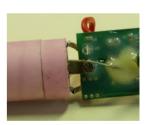
Pull out the cover complete with control system and heating element

Bend the thermal sensor **carefully** with pointed pliers until it is straight

Disconnect the heating element feed line

Unscrew the heating element fastening screw

Pull the heating element out from the front



Installation:

Push the thermal sensor through the round bore of the element

Align and screw the element tight. Do not bend the photodiode!

Disconnect the feed line



Bend the thermal sensor **<u>carefully</u>** (see top photo).

Re-insert the complete unit into the handle

Tighten fastening screw on handle



Make sure that the element terminal lugs do not touch any components! Risk of short-circuits!

You must also make sure to restore the original position of the sensor, otherwise there is the risk of large temperature fluctuations!

Warranty

The warranty time is 12 months from date of purchase. During this time we eliminate all defects due to material or fabrication failures free of charge². Parts subject to wear and tear such as heating element and damages due to inappropriate use are excluded.

NOTE:

We decline any liability and warranty when using non original WEGENER spare parts, self-repair or modification of the device!

 2 Our general terms for delivery and sales incl. warranty terms can be found on our website www.wegenerwelding.de.

Technical data

Name:	Hot gas welder	
Туре:	Exotherm	
Serial number:		
Tested by:		
Models: Hose length: Mass (incl. hose) approx.: Nozzle adapter: Heating capacity: 1000 W	#25556 10 m 0,86kg M 10 1000 W	
Electric power supply:		
Voltage: Frequency:	120V 1/N 60 Hz	
Power control: Protective class:	Loss free through wave pack control, temperature sensor in air flow	
	Eschweiler, 1.8.2014	

Spare parts and accessories

Our complete range of nozzles you find on our website www.wegenerwelding.de => products => welding => hot air welding => welding nozzles.

Also there is the possibility for customized nozzles. Ask us for information about customized nozzles.

On our website you will find all our blowers.

www.wegenerwelding.de => products => welding=> hot air welding => blowers.

On our website you will find a lot of accessories for the hot air welders

<u>www.wegenerwelding.de</u> => products => welding => hot air welding => accessories.

A complete spare part list is on our website www.wegenerwelding.de => products => welding => hot air welding => Exotherm.

See register Downloads.