

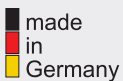


# Fflame<sup>100</sup> Safety Bunsen

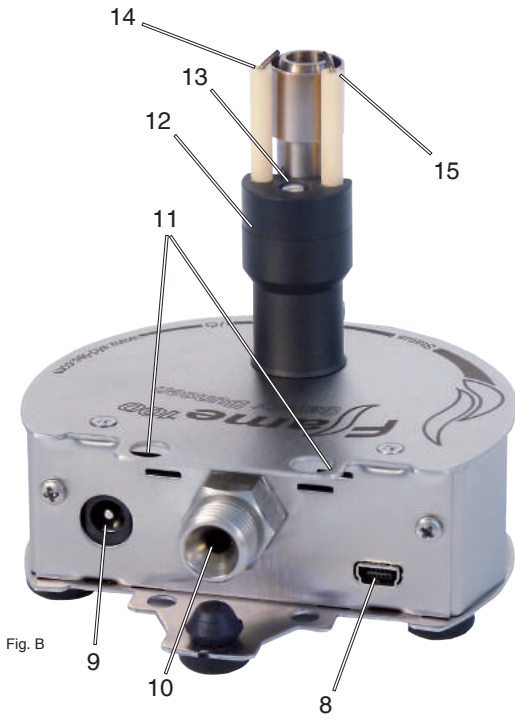
Sicherheits-Bunsenbrenner

Safety Bunsen Burner

Bec des Bunsen de sécurité



- 1 - Function knob
- 2 - Gas adjustment
- 3 - Air adjustment
- 4 - Status-LED
- 5 - Burner tube
- 6 - Flame orifice
- 7 - Active nozzle (inside the burner tube)



- 8 - Connector for foot pedal
- 9 - Power connector
- 10 - Gas inlet R 1/4" L gas adapter (left hand thread)
- 11 - Holding device for inoculation loop holder
- 12 - Electrode holder
- 13 - Screw for Electrode holder
- 14 - Monitor electrode
- 15 - Ignition electrode

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Read these instructions carefully to familiarize yourself with the product. Please retain these operating instruction for future reference.

## Use

**Safety Bunsen Burner for Microbiology, Cell Biology, Dental Labs, etc. Ideal for heating and flame sterilizing.**



All users who have been assigned to use this device must have read and understood these operating instructions or have been instructed by an expert user so that this device can be used safely without causing danger.

**ATTENTION: OPERATE THIS SAFETY BUNSEN BURNER UNDER CONSTANT SUPERVISION ONLY!**

## Safety Precautions

- **On unpacking the unit, check for possible transportation damages. Do not operate the unit if damages are visible.**
- **After use or for any longer period of time without attendance, turn the main gas supply off. To depressurize gas hose keep the main gas supply off and activate the burner again until the flame extinguishes in order to burn the residual gas. Afterwards turn off the gas burner at the function knob (1).**
- **All gas connections must be adequately tightened (left-hand thread). Ensure gas proofness with suitable test equipment. DO NOT seal up the thread of the gas connection (10) of the safety bunsen burner with Teflon tape, etc.**
- **BEFORE using the device carefully check the gas feed tube for leaks. Check this even if the device has been installed by your distributor. To do this, carry out all the procedures mentioned in these operating instructions (see paragraph 1.).**
- **In the event that gas can be smelled: immediately turn off the gas supply to the device. Extinguish any open flames. Pull out the mains plug. Check all gas connections for gas proofness. If the smell of gas persists, the appropriate authorities must be notified (janitor, gas utility company, Fire Brigade).  
LEAKING GAS CAN CAUSE A FIRE OR AN EXPLOSION. THIS MAY RESULT IN SEVERE INJURIES, FATAL ACCIDENTS AND DAMAGE TO PROPERTY.**
- **The device can be dangerous if operated or used in an incorrect manner by untrained staff.**

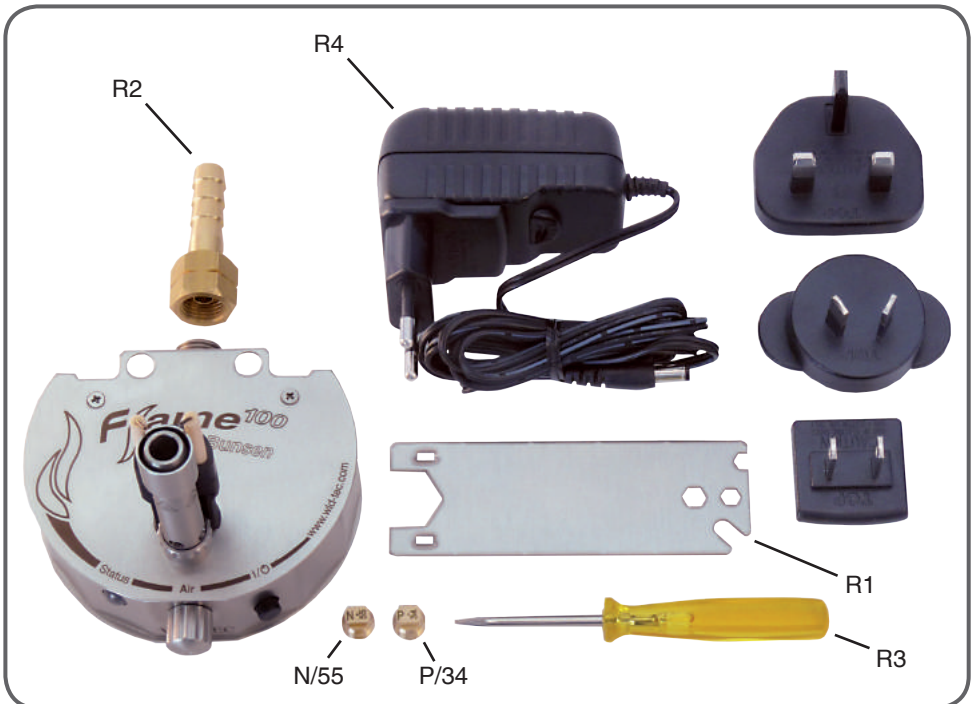
- An incorrect gas connection may create a hazard. Observe the installation instructions in the manual.
- Do not store spare or unconnected gas cartridges / gas bottles in the vicinity of this device.
- Even in an apparently empty gas cartridge / gas bottle, some gas may still remain. Gas cartridges / gas bottles should be transported and stored accordingly. Empty gas cartridges should be properly disposed.
- Do not use the device if there is a smell of gas or if there is a leak.
- NEVER try to loosen or unfasten gas connections while the gas supply is turned on and the device is in operation.
- Pay attention to your relevant rules for using liquid gas.
- Only use DVGW safety tubings with thread or tubing connectors. Check the condition of the tube / hose frequently. Depending upon type of tube / hose, hose clamps are required.
- NEVER use an open flame to look for leaks.
- Do not smoke if you are searching for leaks.
- Keep hands or other parts of the body away from the burner orifice (6).
- Do not operate the unit near flammable liquids or hazardous materials.
- Unattended operation of the unit is not permissible.
- Always work in a well-ventilated area.
- Note that the flame orifice (6) and burner tube (5) remains hot after the flame has been extinguished. Do not touch. Can cause burns.
- Allow sufficient time for flame orifice (6) to cool down prior to cleaning, disinfecting, servicing or transport. Ensure that the unit and the gas supply are turned off.
- Because of the connectors at the back of the unit the backside should not be sterilized with a flame.
- Allow sufficient time for burner tube (5) to cool down prior to disassembling.
- Operate the unit with assembled burner head (5) only.
- After cleaning the burner tube (5) allow sufficient time to dry before assembling again.
- Do not allow anything to fall into the flame orifice (6).
- When working with this device, always wear protective glasses.

## The range

### Flame 100

Art.-No. 2.100.000

- With button function
- SCS (Safety Control System)
- BHC (Burner Head Control)
- Removable burner tube
- Holding device for 2 inoculation loop holders (**11**)
- Nozzles for natural gas (**N/55**), propane/butane gas (**P/34**)
- Wrench SW17 mm (**R1**) for gas connection and changing nozzle
- Screwdriver (**R3**) for electrode holder
- Tubing connector with swivel nut for 10 mm pipe spout tubing (**R2**)
- Power connection with 4 adapter (**R4**), global (level 6)
- Instruction manual
- 2-year warranty



## 1. Set up

Initial operation is to be carefully carried out as described in the following paragraphs.



Failure to observe the instruction manual **may give rise to hazards from leaks and / or bursts of flame.**

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### 1.1 Choice of nozzle

Nozzles, gas type and pressure:

**N/Ø 0.55 mm:** Natural gas for a pressure of 18-25 mbar

**P/Ø 0.34 mm:** Propane / butane gas for a pressure of 47.5 - 57.5 mbar



**The device is supplied from factory with a nozzle (7) for natural gas (N/55) pre-installed.**

It may be necessary to adapt the nozzle in use (7) in the appliance to the type of gas; to do so, proceed as follows:

Loosen the screw for the electrode holder (13) with the flat head screwdriver supplied (R3). Slightly tilt the electrode holder (12) backwards and away from you. Turn down the air adjustment (3) as far as necessary so that the flat head screwdriver (R3) can be inserted through the airholes in the burner tube (5). Using the screwdriver (R3), loosen the burner tube (5) by turning counter-clockwise and unscrew it completely. Loosen the nozzle N/55 (7) for natural gas with the wrench (R1) supplied by turning counter-clockwise, unscrew completely and remove. Thereafter, screw in nozzle P/34 supplied for use with propane / butane gas and tighten it with the wrench (R1). Next, screw on the burner tube (5) again, insert the screwdriver (R3) through the burner tube's (5) airholes and tighten in clockwise direction.



**Before tightening the burner tube (5), screw the air adjustment (3) upwards over the burner tube's (5) airholes sufficiently that the air adjustment (3) does not get jammed and can be easily moved after being retightened.**

Finally, place the electrode holder (12) in a vertical position again, push the electrode holder's (12) cables carefully into the housing and tighten with the screw for the electrode holder (13). Take care not to jam the cables of the electrode holder.

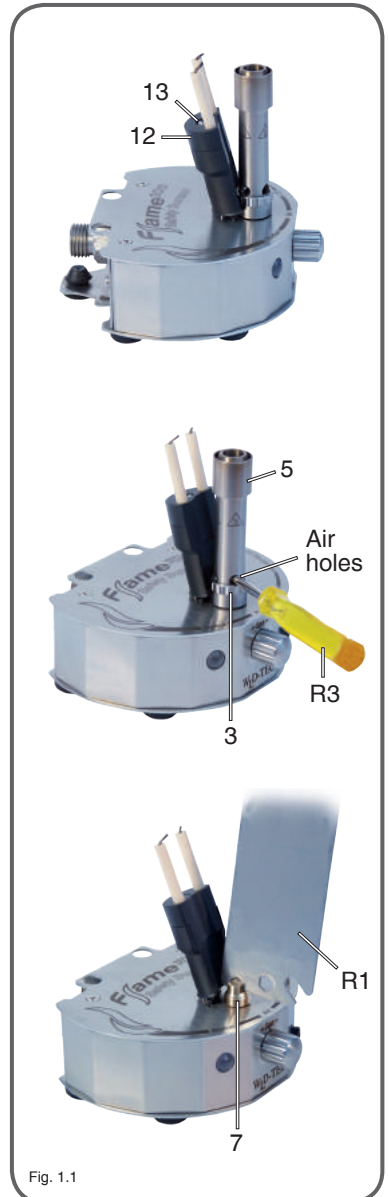


Fig. 1.1

## 1.2 Gas connection

Now you are ready to connect the gas supply to the gas inlet **(10)**. The correct pressure for natural gas is within the range of 18-25 mbar, for propane / butane gas 30-50 mbar. Only use DVGW or other gas approved safety tubings with thread or tubing connectors **(R2)**.

Check the condition of the tube/hose frequently. Depending upon type of tube hose, the included tubing connector with swivel nut **(R2)** and/or hose clamps are required.

All gas connections must be adequately tightened (left hand thread) with the wrench **(R1)** (SW 17mm, included).

Ensure gas proofness with a suitable test fluid / equipment.



Fig. 1.2



**DO NOT seal up the thread of the gas connection of the safety bunsen burner (10) with Teflon tape, etc.**

A DVGW-proven or other gas approved pressure regulator (50 mbar) must be used for liquid gas. Pay attention to your relevant rules for using liquid gas. Several gas cartridge adapter are optionally available.

## 1.3 Electrical connection

Insert the power cord of the power supply **(R4)** into the socket **(9)** on the back panel of the unit, or into the socket of the foot pedal (optional). The default supply must be connected to a voltage source of 100 - 240 V / 50/60 Hz.

## 1.4 Foot pedal connection / external IR-motion sensor

Insert the connection cable of the foot pedal or the external IR - motion sensor (accessory) into the socket **(8)** at the back of the unit.

The foot pedal / external IR - motion sensor are optional:

Stainless steel foot pedal:

**Art.-No.: 6.000.402**

Foot pedal mini / plastic:

**Art.-No.: 6.000.403**

Wireless foot pedal (EU countries only):

**Art.-No.: 8.000.404-RF**

External IR-motion sensor:

**Art.-No.: 6.000.406**

## 2. Operation

This section describes the operation of the unit with the function knob **(1)**, gas adjustment **(2)** and air adjustment **(3)**.



## 2.1 On-Off switch

Switch the unit on by a short push on the function knob (1). The Status-LED (4) lights up green when the unit is on and ready for use. It can be turned off by a long push (> 2 seconds) on the function knob (1).

## 2.2 Flame regulation

The flame can be varied in size and intensity by turning the gas knob (2) and adjusting the air adjustment (3) to suit all requirements.



**When operating the unit for the first time or after changing the nozzle, turn the gas adjustment knob (2) two to three revolutions to the left and turn the air adjustment (3) downwards.**

## 2.3 Switch-off / End of work

The unit can be turned off by pushing the function knob (1) for more than 2 seconds.



**After use or for any longer period of time without attendance, turn the main gas supply off. To depressurize gas hose keep the main gas supply off and activate the burner again until the flame extinguishes in order to burn the residual gas. Afterwards turn off the gas burner at the function knob (1).**

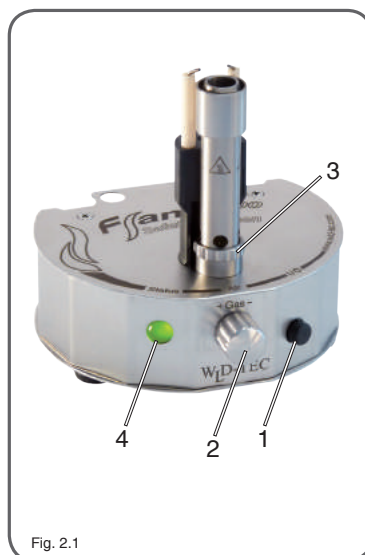


Fig. 2.1

## 3. Application programs

This section describes both application programs („Button Start-Stop“ and „Pedal Standard“)

### 3.1 Button Start-Stop

The flame is ignited by operation of the function knob (1). The flame is extinguished after renewed actuation of the function knob (1). In addition the flame is automatically extinguished when the burning timer has expired after 60 min.

### 3.2 Pedal Standard

The flame is ignited by operation of the foot pedal or external IR-motion sensor (optional, **see paragraph 1.4**). For the duration of use the foot pedal remains depressed or keep your hand within the range of the IR-motion sensor. The flame goes out once the foot pedal is released or as soon as nothing is within the range of the IR-motion sensor.

## 4. Safety symbols / Safety Control System (SCS)

The safety symbols appear during usage to warn the user of potential hazards.

### 4.1 Burner Head Control (BHC)

If the burner head (upper part of the burner tube **(5)**) is clogged, the Status-LED **(4)** will flash orange. Additionally, if the Status-LED **(4)** is flashing, the maximum burning time of the Programs "Button" and "Pedal Standard" is limited to 30 seconds. If the Status-LED **(4)** is flashing you have to clean the burner tube immediately (see paragraph 6.1).

### 4.2 Automatic unit switch off

The unit switches itself off automatically after 4 hours if the flame has not been lit in this period. All indicated malfunctions are automatically switched off after 4 hours, too (see paragraph 5). For further operation, switch the unit on again.



### 4.3 Ignition and flame control


If the flame fails to ignite after 7 seconds, the gas supply of the burner will be shut off and the unit indicates a malfunction (see paragraph 5.1 and 5.2).

### 4.4 Temperature monitoring

If the interior temperature has exceeded 70 °C, the gas supply of the burner will be shut off and the unit indicates a malfunction (see paragraph 5.3).

## 5. Error displays

If there is an error during operation, in some cases the gas valve of the burner automatically closes and the different blinking LED **(4)** indicates the error.

 All error displays can be reset by a long push (> 2 seconds) on the function knob **(1)**. (In case of overtemperature the unit needs to be cooled down prior a reset is possible).

### 5.1 Ignition failure

#### ***Status-LED (4) blinks 2x red***

This signal appears and indicates a malfunction if the flame fails to ignite after 7 seconds. In case of ignition failure check the burner tube **(5)** for possible clogging, check the

correct input pressure of the gas supply and verify that the correct nozzle is installed. In case of this malfunction the gas supply of the burner will be shut off automatically.

Nozzle N/55: natural gas, 18-25 mbar

Nozzle P/34: propane/ butane gas, 30-50 mbar

## 5.2 Flame failure

### ***Status-LED (4) blinks 3x red***

This signal indicates a malfunction if the flame is extinguished by external factors and fails to reignite within 7 seconds. In case of flame failure check the burner tube (5) for possible clogging and verify the correct input pressure of the gas supply. In case of this malfunction the gas supply of the burner will be shut off automatically.

## 5.3 Overtemperature

### ***Status-LED (4) blinks 4x red***

This signal indicates a malfunction if the interior temperature has exceeded 70 °C. At a normal room temperature with normal air circulation the unit is suited for continuous operation. In case of overtemperature increase the air ventilation or change the operation site. In case of this malfunction the gas supply of the burner will be shut off automatically.

## 6. Cleaning and sterilizing

Allow sufficient time for burner orifice (6) and burner tube (5) to cool down before disassembling or cleaning the burner head. Check if the unit is disconnected and that the gas supply is turned off at the mains. The burner can be cleaned with customary commercial disinfectants.



**After cleaning allow sufficient time to dry the burner tube (5) before assembling again!**

### 6.1 Burner tube disassembly and cleaning

For in-depth cleaning the burner tube can be removed. Check the unit is disconnected, that the gas supply is turned off at the mains and that the burner tube (5) and orifice (6) is cooled down (see paragraph 2.3). Clean the removed burner tube with customary commercial disinfectants, sterilize it in an autoclave or wash it in a dishwasher. To remove the burner tube proceed as follows:

Loosen the screw for the electrode holder (13) with the flat head screwdriver supplied (R3). Slightly tilt the electrode holder (12) backwards and away from you. Turn down the air adjustment (3) as far as

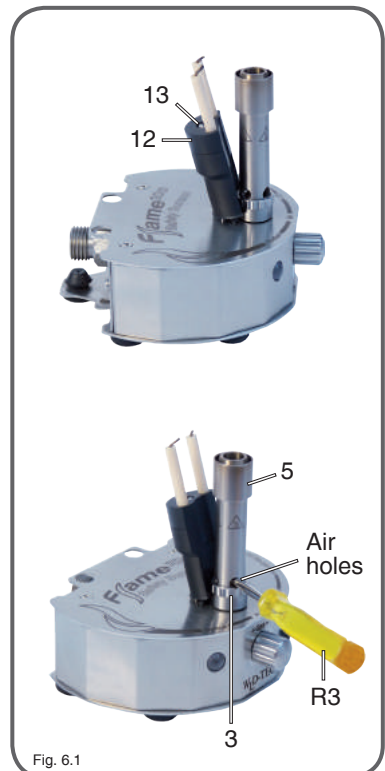


Fig. 6.1

necessary, so that the flat head screwdriver (**R3**) can be inserted through the airholes in the burner tube (**5**). Using the screwdriver (**R3**), loosen the burner tube (**5**) by turning counter-clockwise and unscrew it completely.

Clean the removed burner tube and allow sufficient time to dry before assembling again. Next, screw on the burner tube (**5**) again, insert the screwdriver (**R3**) through the burner tube's (**5**) airholes and tighten in clockwise direction.



**Before tightening the burner tube (5), screw the air adjustment (3) upwards over the burner tube's (5) airholes sufficiently that the air adjustment (3) does not get jammed and can be easily moved after being retightened.**

Finally, place the electrode holder (**12**) in a vertical position again, push the electrode holder's (**12**) cables carefully into the housing and tighten with the screw for the electrode holder (**13**). Take care not to jam the cables of the electrode holder.

## **7. Warranty**

All WLD-TEC Bunsen burners are covered under our two-year manufacturer warranty against any manufacture defects in material and workmanship. The WLD-TEC warranty guarantees all Bunsen burners under normal usage conditions and does not cover any damages as a direct result of user misuse or/and abuse. The warranty is void upon any unauthorized servicing, disassembly or modifications.

## Technical Data

Technology: Microprozessor

### Programs

Button: Start-Stop with timer, 60 min  
Foot pedal: Standard (flame during pressed foot pedal or activated external IR-motion sensor, foot pedal and external IR-motion sensor optional)

EN

### Safety features

Safety Control System (SCS) with gas safety cut off: ignition and flame control, temperature monitor  
burner head clogging monitor (BHC)  
Automatic unit switch off: 4 h

### Gas supply and consumption

Gas connection: 1/4" left with gas filter  
Gas types: Natural gas E/LL, 18 - 25 mbar, liquid gas 47.5 - 57.5 mbar, II<sub>2</sub>ELL3B/P  
Connected load: 49 l/h Erdgas (LL), 53 l/h Erdgas (E), 43 g/h Flüssiggas  
Continuous cartridge operation: (approx.)  
*Campingaz*: CV 360 - 65 min, C 206 - 230 min,  
CP 250 - 305 min, CV 470 - 550 min, CG 1750 - 210 min,  
*Guilbert*: Express 444 / 445 - 70 min  
*Coleman*: C 250 - 220 min, C 500 - 450 min

### Temperatures

Flame temperature: 1200°C on liquid gas / 1170 °C on natural gas (E)  
Temperature threshold level: 0.55 kW liquid gas, 0.50 kW natural gas (E),  
0.40 kW natural gas (LL)

### Electrical

Power consumption: 2 VA (stand by max. 0.1 VA)  
Power connection: 100 - 240V / 50/60Hz / max. 0.3A; 9V DC / 1.3A  
Level 6 (stand by power consumption max. 0.1W)

### Mechanical

Burner tube: removable, stainless steel  
Measurements (w x h x d): 89 x 34 x 88 mm  
Height with burner tube: 94 mm  
Weight: 385 g

### Licenses

DIN-DVGW Reg.-No.: NG-2211AS0167  
CE: EN 61326-1, EN 61010-1, EN 61010-2-010  
EU guidelines: 2014/30/EU, 2014/35/EU, 2011/65/EU

## Troubleshooting guide

- **Status-LED does not light up**

Check for correct connection and specification of the power adapter.  
Ensure that the original power adapter is used.

Specifications: 9 V / DC, 1.3 A

Polarity: 

---

- **No Flame**

In case of ignition or flame failure check if the burner tube is clogged.  
Verify the input pressure of the used gas. Ensure that the correct nozzle is installed in the unit.

**N/55:** natural gas, 18 - 25 mbar

**P/34:** propane / butane gas 47.5 - 57.5 mbar

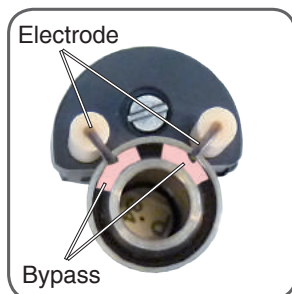
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- **The foot pedal or external IR-motion sensor does not work**

Check for correct connection of the cable. Ensure that the socket and plug is not twisted or broken.

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- **Status-LED flashes orange (BHC)**



Take care that there are no liquids or other substances at the Bypass (area between the inner and the outer ring at the upper part of the burner tube **(5)**). Especially remove substances in the marked areas at the electrodes. If there are contaminants in this area, the flame cannot encircle the electrodes correctly. Clean this areas with a brush. The burner tube can be cleaned with customary commercial disinfectants, or it can be sterilized in an autoclave or washed in a dishwasher (**see paragraph 6.1**).

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- **In operating mode "Button" and "Pedal Standard" the flame only burns 30 seconds**

BHC time limit is active, Status-LED " is flashing amber. The burner tube is clogged and must be cleaned (**see paragraph 4.1 and 6.1**).

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- **Flame too small / large / soft**

Check the position of the air and gas adjustment.  
Check if the correct nozzle is installed.

**N/55:** natural gas, 18 - 25 mbar

**P/34:** propane / butane gas, 47.5 - 57.5 mbar

Check if the drilling of the active nozzle is blocked. Unsew the active nozzle (**see paragraph 1.1**). If the drilling is blocked clean with a brush or compressed air.

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- **The burner shuts-off due to overtemperature frequently**

In case of overtemperature increase the air ventilation or change the operation site (**see paragraph 5.3**).

- **Status-LED blinks 2x red**

Ignition failure (see paragraph 5.1).

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- **Status-LED blinks 3x red**

Flame failure (see paragraph 5.2).

---

- **Status-LED blinks 4x red**

Overtemperature (see paragraph 5.3).

---

- **Status-LED flashes orange**

BHC active (see paragraph 4.1).

---

**Service address:**

WLD-TEC GmbH  
Production & Service  
Halle-Kasseler-Str.49  
37318 Arenshausen

Phone: +49 (0)36081 68940  
Fax: +49 (0)36081 68942  
Email: sales@wld-tec.com  
Internet: www.wld-tec.com



# EU-KONFORMITÄTSERKLÄRUNG

## *Declaration of Conformity*

Gültig ab / *Valid from*: 20. April 2016

zu den Richtlinien / *following to the Directives*: **2014/30/EU, 2014/35/EU & 2011/65/EU**  
für Sicherheitsbunsenbrenner / *for Safety Bunsen Burner*

**Fuego SCS: #8.200.000**  
**Fuego SCS basic: #8.201.000**

**Flame 100: #2.100.000**  
**Fuego SCS pro: #8.204.000**

### 1. Elektromagnetische Verträglichkeit / *Electromagnetic Compatibility Directive*

#### 1.1 EN 61326-1:2013

Elektrische Betriebsmittel für Leittechnik und Laboreinsatz, EMV-Anforderungen  
*Electrical equipment for measurement, control and laboratory use, EMC requirements*

**Störaussendung:**

Elektrische Betriebsmittel der Klasse B, Gruppe 1

**Generic Emission Standard:** *Electrical Equipment, class B, Group 1*

**Störfestigkeit:**

Industrielle Bereiche

**Generic Immunity Standard:** *Industrial areas*

### 2. Sicherheit elektrischer Betriebsmittel / *Security of electrical resources*

#### 2.1 EN 61010-1:2010

Sicherheitsanforderungen an elektrische Mess-, Steuer-, Regel- und Laborgeräte. Teil 1: Allgemeine Anforderungen  
*Safety requirements for electrical equipment for measurement, control, and laboratory use. Part 1: General requirements*

#### 2.2 EN 61010-2-010:2014

Sicherheitsbestimmungen für elektrische Mess-, Steuer-, Regel- und Laborgeräte. Teil 2-010: Besondere Anforderungen an Laborgeräte für das Erhitzen von Stoffen  
*Safety requirements for electrical equipment for measurement, control, and laboratory use. Part 2-010: Particular requirements for laboratory equipment for the heating of materials*



WLD-TEC GmbH  
Halle-Kasseler-Str.49  
D-37318 Arenshausen  
Germany

B. Wartewig  
(Geschäftsführer, CEO)

Arenshausen, 20.04.2016



## 8 CE-Konformitätserklärung / Declaration of Conformity

Wir, der Hersteller, erklären hiermit, dass das Produkt: /  
 We, the manufacturer, hereby confirm, that the product:

Gerätetyp / Type: FW8000M/09

Artikel-Nr. / Part-No.: 1899085

Zeichnungs-Nr. / Drawing-No.: 15.4474.500-01

weitere Merkmale /  
 additional information:

mit der beiliegenden Beschreibung die Anforderungen der Niederspannungsrichtlinie 2006/95/EG (gültig bis 19. April 2016) der Niederspannungsrichtlinie 2014/35/EU (gültig ab 20. April 2016), der EMV-Richtlinie 2014/30/EG und Öko-Design Richtlinie 2009/125/EG erfüllt.

Hiermit bestätigen wir, dass unsere Produkte, unabhängig von der Produktionsstätte, RoHS- konform produziert werden und die Anforderungen der EU Richtlinie 2011/65/EU (Neufassung der Richtlinie 2002/95/EU) erfüllen.

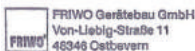
*with the enclosed description fulfils the requirements of the Low Voltage Directive 2006/95/EC (valid to 19. April 2016) the Low Voltage Directive 2014/35/EU (valid from 20. April 2016), the regulations of the EMC Directive 2014/30/EC and the eco design Directive 2009/125/EC.*

*Hereby, we certify that our products, regardless of the production location, RoHS compliant and fulfill the directive 2011/65/EC (revised version: directive 2002/95/EC).*

Das Gerät entspricht der / The unit corresponds to:

- |   |   |   |
|---|---|---|
| a) Niederspannungsrichtlinie /<br>Low Voltage Directive | b) EMV-Richtlinie /<br>EMC Directive          | c) Öko Design /<br>ECO Design           |
| <input type="checkbox"/> EN60601-1 Ed.3 07/2007         | <input type="checkbox"/> EN 60601-1-2 12/2007 | <input type="checkbox"/> Not applicable |

Ausstellungsdatum / Date of issue: 22.03.2016



*A. Wegener*

Firmenstempel / Company stamp

Armin Wegener  
 Vice President Research & Development

**Notizen / Notes / Notation:**

**Notizen / Notes / Notation:**



**Vertrieb:**

Spandauer Weg 1  
D-37085 Göttingen  
Telefon: +49 (0)551 / 793789  
Telefax: +49 (0)551 / 793707

**Produktion & Service:**

Halle-Kasseler-Straße 49  
D-37318 Arenshausen  
Telefon: +49 (0)36081 / 68940  
Telefax: +49 (0)36081 / 68942

**Email:** [sales@wld-tec.com](mailto:sales@wld-tec.com) • **Internet:** <http://www.wld-tec.com>

**Sales Department:**

Spandauer Weg 1  
D-37085 Göttingen  
Phone: +49 (0)551 / 793789  
Fax: +49 (0)551 / 793707

**Production & Service:**

Halle-Kasseler-Straße 49  
D-37318 Arenshausen  
Phone: +49 (0)36081 / 68940  
Fax: +49 (0)36081 / 68942

**Email:** [sales@wld-tec.com](mailto:sales@wld-tec.com) • **Internet:** <http://www.wld-tec.com>

**Ventes:**

Spandauer Weg 1  
D-37085 Göttingen  
Téléphone: +49 (0)551 / 793789  
Téléfax: +49 (0)551 / 793707

**Production & Service:**

Halle-Kasseler-Straße 49  
D-37318 Arenshausen  
Téléphone: +49 (0)36081 / 68940  
Téléfax: +49 (0)36081 / 68942

**Email:** [sales@wld-tec.com](mailto:sales@wld-tec.com) • **Internet:** <http://www.wld-tec.com>