

1990®



scs

Fuego

Fuego®

WID-TEC

D-LEC

# Gas Burner



# **Fuego**<sup>©</sup> - A step ahead!

# The innovative Fuego SCS - Series provides maximum safety and highest convenience for all flame-related applications in the laboratory.

#### Quality down to the smallest detail

The unique quality of the Fuego SCS - Series is the result of many years of experience in the development and manufacture of laboratory gas burners, which are fabricated in our own factory on state-of-the-art machines. Our outstanding technical competence is integral in every laboratory gas burner that bears the name Fuego SCS, and every one of them proves that: **The Fuego SCS - Series is absolutely convincing!** Now, we have further optimized this series and created masterpieces, which are better than ever before.

#### Modern design

The unique shape is eye-catching\*. The low casing makes comfortable working possible; the streamlined design reduces the disturbance of the air current in a clean room workbench to a minimum. With the new **DualKnob** for adjusting gas and air flow, the flame can be precisely regulated. The **removable burner head can simply be dismantled into its individual components for in-depth cleaning.** Clogging is no longer a problem. Spilled liquids flow out through an integrated drain,

## Simply safe to operate

Depending on the model, the Fuego SCS - Series can be operated with touch-free IR-Sensor, button function or foot pedal.

and solid substances can be effortlessly removed by opening the burner shaft.

#### Universal

The Fuego SCS - Series can be operated with stationary natural gas and propane / butane gas supplies, cartridge gas or gas cylinders.

#### Top-off-the-Line safety

The **Safety Control System SCS**<sup>®</sup> means state-of-the-art safety technology which constantly analyzes potential hazards and, if necessary, initiates safety measures, such as an interruption of the gas supply. In addition to the **ignition and flame control functions** and the overheating protection, the new safety package also features continuous **burner head control (BHC).** BHC unfailingly detects burner head clogging by liquids or solid substances and ensures the correct assembly of the burner head.

Exceptional passive safety features: A **residual heat display** protects against burns. The automatic unit cut-off function prevents unintentional ignition of the flame when the burner has not been ignited for a longer period.

#### **Environment-conscious**

Excellent energy efficiency in accordance with the most recent standards reduces gas and power consumption. This increases the burning time when gas cartridges are used.

#### **Take-back guarantee**

All old WLD-TEC laboratory gas burners which have been taken out of service will be taken back and disposed of in an environmentally compatible manner.

#### Robust

Fabricated entirely of stainless steel - from the controls to the gas connection - and with displays which are protected by heatresistant glass, the Fuego SCS - Series **withstands even extreme laboratory conditions.** 

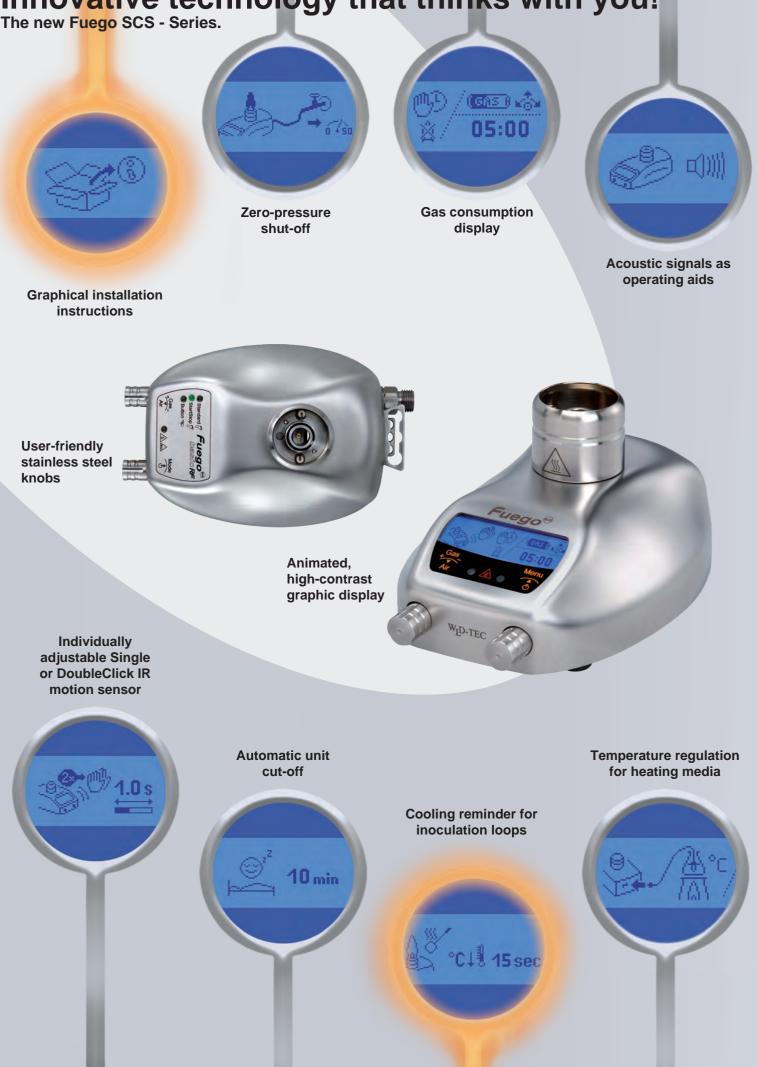
Fuego SCS - Ideal for use on cleanroom workbenches and in laboratories.





Fuego

# Innovative technology that thinks with you! The new Fuego SCS - Series.





#### More than standard!

The Fuego SCS basic can be safely operated by means of the supplied foot pedal or the button function. Different programs are available: a flexible start-stop function or the conventional foot pedal control for short-time applications. In addition, the flame can be started and stopped by briefly pressing on the function knob.

Fuego<sup>®</sup>basic RF

#### Wireless operation

Wireless and safe flame sterilization! The "RF" model allows operation via radio foot pedal without a disturbing cable. Other than that, the Fuego SCS basic RF has the same functions and safety systems as the standard model Fuego SCS basic. The radio foot pedal is included in the range of delivery.



#### Versatile

The Fuego SCS can be operated with the touch-free IR-Sensor, button function or foot pedal (optional). For all options, different programs exist that have been developed on the basis of practical experience: flexible start-stop functions, continuous application for up to 2 hours or programs for short flame sterilization - exact to the second.

#### More convenience

The animated and high-contrast graphic display can be easily read under all lighting conditions due to the blue background illumination. The self-explanatory, language-less symbol menu facilitates a rapid selection of all functions. The display is not in your line of sight? Acoustic signals additionally aid the user.

#### Innovative - The DoubleClick IR-Sensor

When activated, this additional safety function ensures that the burner can only be ignited by activating the DoubleClick IR-Sensor twice. The detection range and the time interval of the DoubleClick can be individually adjusted. As a result, unintentional ignition or ignition due to dropping or falling objects is virtually impossible, this increases safety considerably.

#### **Precisely adjusted**

With the new temperature regulation system and an optional temperature sensor, the laboratory gas burner becomes a temperature-control station.

#### Pressureless

The zero-pressure shut-down provides additional safety at the end of work. With it the residual pressure is released from the connection hose and the gas hose's service life is increased.

#### Gas exhausted?

No new cartridge at hand? The new gas consumption display reminds you to have a fresh gas cartridge on hand in a timely manner.

#### Flexible and individual

The Fuego SCS has to 2 user accounts and saves all safety settings, burning times and other parameters for individual and flexible use.

#### **Cooled down**

The precisely adjustable, exact to the second, cooling time reminder aids you in exactly complying with the required cooling period for inoculation loops.

#### **Properly connected!**

Graphic installation and operating instructions at the first switch-on facilitate the initial start-up.







#### **Battery performance**

The exclusive Fuego SCS pro provides maximum flexibility. Wireless operation using state-of-the-art rechargeable battery technology guarantees independent operation. Two **standard rechargeable batteries** allow up to 9 hours of continuous operation. This corresponds to approximately 2000 inoculation loop flaming operations. The Fuego SCS pro has an integrated fast charging function and can be recharged in just 3 hours. The range of functions is identical to those of the Fuego SCS.

	Fuego <sup>®</sup> basic	Fuego <sup>®</sup> basic RF	Fuego <sup>®</sup>	Fuego <sup>®</sup> pro
Programs				
Button function	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
Pedal Standard	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
Pedal Start-Stop	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
Sensor Auto-Off			$\checkmark$	$\checkmark$
Sensor Start-Stop				$\checkmark$
NEW: Temperature regulation			$\checkmark$	$\checkmark$
Safety Control System	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
with acoustic signals			$\checkmark$	$\checkmark$
Residual heat display	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
NEW: Animated graphic display			$\checkmark$	$\checkmark$
Foot pedal included	$\checkmark$	🗸 (radio)		
Single- or DoubleClick IR-Sensor			$\checkmark$	$\checkmark$
Battery operation with tilt sensor				~
NEW: Cooling reminder			$\checkmark$	$\checkmark$
NEW: Zero-pressure shut-down			$\checkmark$	$\checkmark$
NEW: Gas consumption display			$\checkmark$	$\checkmark$
NEW: 2 user accounts			$\checkmark$	$\checkmark$
Gas inlet filter	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
Removable & decomposable burner head	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
Housing, burner head, gas connection & controls made of stainless steel	~	~	~	
DVGW approved	· ·	· · ·	· ·	~
ArtNo.:	8.201.000	8.203.000-RF	8.200.000	8.204.000

Removable & decomposable burner head, dishwashersafe, autoclavable, made completely of stainless steel and ceramics Burner shaft can be opened at the flick of a wrist for cleaning purposes Tilt adjustment



Holding device for inoculation loop holders

#### The range of delivery:

### Fuego<sup>®</sup>basic

Art.-No.: 8.201.000

with button function Stainless steel foot pedal 3 standard programs for foot pedal and button (function knob)

# Fuego Basic RF Art.-No.: 8.203.000-RF

with button function Wireless radio foot pedal (stainless steel, battery operated), 2 Mignon (AA) batteries 3 standard programs for foot pedal and button (function knob) Available in EU countries only

## Fuego®

#### Art.-No.: 8.200.000

with IR-Sensor, button and graphic display 6 standard programs for IR-Sensor, foot pedal, button (function knob) and temperature regulation DoubleClick IR-Sensor (connectable) Adjustable IR-Sensor reaction distance and DoubleClick time Stainless steel foot pedal optional: Art.-No.: 6.000.402

# Fuego<sup>®</sup>pro

#### Art.-No.: 8.204.000

with IR-Sensor, button and graphic display 6 standard programs for IR-Sensor, foot pedal, button (function knob) and temperature regulation DoubleClick IR-Sensor (connectable) Adjustable IR-Sensor reaction distance and DoubleClick time

Tilt sensor with gas safety cut off (>90°), battery compartment, 2 Mignon(AA) rechargeable batteries, int. fast charge function Stainless steel foot pedal optional: Art.-No.: 6.000.402

#### Range of delivery for all models:

Safety Control System (SCS) Burner Head Control (BHC) and residual heat display Removable and decomposable burner head Tilt mechanism, right / left

Holding device for 3 WLD-TEC inoculation loop holders Nozzles for natural gas, propane / butane gas Turbo flame

Removable cover of burner shaft for cleaning purposes Multi-wrench for gas connection

Screwdriver for burner head and cover of burner shaft Tubing connector with swivel nut

Switching power supply (global, level 6) Instruction manual and 2-year warranty



Autoloop Pro sterilizing inoculation loops (see Autoloop brochure)



(see accessory brochure)



Assorted

accessories available

Germany

#### **Technical Data:** Technology

Programs IR-Sensor 2,3:

Foot pedal:

Button:

Temperature regulation 2,3:

Safety features Safety Control System (SCS) with gas safety cut off:

Burner Head Control (BHC):

Automatic unit switch off:

Residual heat display: Zero-Pressure shut-off 2,3:

Comfort functions 2,3

Gas supply and consumption Gas connection: Gas types:

Connected load: Continuous cartridge operation:

#### Temperatures Flame temperature:

Temperature threshold level: Electrical Switching power supply:

Power consumption: IR-Sensor detection range<sup>2,3</sup>: DoubleClick IR-Sensor 2,3 **Technical Data Battery Operation**<sup>3</sup>

Type rechargeable battery: Operating time: Charging time: Charging current:

Radio Frequency System<sup>1</sup> Safety standard: Range: Frequency: Channels: Batteries foot pedal: Life time batteries (foot pedal):

Mechanical Casing and operating controls:

Burner head: Cover of burner shaft: Measurements (w x h x d): Weight:

Licenses CE:

EU guidelines:

EN 61326-1, EN 61010-1, EN 61010-2-010 EN 3014891, EN 300440-11, EN 300440-21 2014/30/EU, 2014/35/EU, 2011/65/EU, 2014/53/EU (RED)

<sup>1</sup> only Fuego SCS basic RF, <sup>2</sup> only Fuego SCS, <sup>3</sup> only Fuego SCS pro



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Email: sales@wld-tec.com • Internet: http://www.wld-tec.com (09/16) Specifications subject to change without notice

Microprocessor, illuminated graphic display with acoustic signals as operating aids 2

Start-Stop with timer, 1 sec - 2 h Auto-Off with timer, 0 sec - 2 h Standard (flame during pressed foot pedal) Start-Stop with timer Fuego SCS basic / Fuego SCS basic RF: 1 h Fuego SCS / Fuego SCS pro: 1 sec - 2 h Start-Stop with timer Fuego SCS basic / Fuego SCS basic RF: 1 h Fuego SCS / Fuego SCS pro: 1 sec - 2 h with timer, 1 sec - 2 h temperature range from +35 °C to +350 °C

ignition and flame control temperature monitor burner head clogging and assembly monitor tilt sensor (>90°) Fuego SCS basic / Fuego SCS basic RF: 4 h Fuego SCS / Fuego SCS pro: 1 min - 2 h indicates a hot burner head end of work procedure to lower the pressure in the supply hose

cooling reminder, user account selection, gas consumption display for gas cartridges, graphical installation and operating instructions

1/4" left hand thread with gas filter Natural gas E/LL,18 - 25 mbar, liquid gas 47,5 - 57,5 mbar, II 2ELL3B/P 95 l/h natural gas (LL), 70 g/h liquid gas Campingaz: CV 360 - 40 min, C 206 - 170 min, CP 250 - 210 min, CV 470 - 370 min, CG 1750 - 150 min, C 300 - 200 min Express 444 / 445 - 50 min Guilbert: Coleman<sup>.</sup> C 250 - 160 min, C 500 - 320 min

liquid gas: 1350 °C / natural gas (E): 1300 °C liquid gas: 1.0 kW / natural gas (E): 1.0 kW

100 - 240 V / 50/60 Hz / max. 0.3 A; 9 V DC / 1.3 A level 6 (stand by power consumption U<sub>IN</sub> max. 0.1 W) 2 VA; (stand by max. 0.1 VA) 5 - 50 mm, adjustable time range 0.5 - 2.5 sec (adjust. / disengageable)

NiMH 2.4 V (2 x Mignon (AA), 1.2 V, 2600 mAh) up to 9 hours continuous operation 90% / 3 hours 700 mA

WLD-TEC safety radio protocol 2 - 5 m 2.4 GHz 253 2 x AA (Mignon) approx. 2000 hours (operation 8 hours per day: > 1 year)

stainless steel / glass, UV and solvent resistant flame-sterilizable removable and decomposable, stainless steel

Ø 23 mm, with drains 103 x 49 x 130 mm 700 g

NG-2211AS0167

