New

schuett *phoenix*

The star in your lab

sensor

00:20 schuett phoenix

www.schuett-biotec.de

air
gas

on / off

schuett **biotec**.de

The intelligent laboratory burner line…

For heating and flame-sterilizing.

For use inside microbiological safety cabinets or in chemistry labs.

Ready for operation with natural gas (central gas supply) or propane/butane (cartridges/bottles).

Certified high-level safety standard for your lab.

Easy operation – Short-form instructions attached to the device.

Professional Design

- *Stainless steel and glass surfaces*
- *Absolutely free of gaps*
- *Easy to clean and to keep sterile, suitable for flame-sterilization and fire-proof, resistant to solvents*
- *Solid and very stable*
- *Controls are clearly arranged on the front panel*

Tried and tested

- *For use inside safety cabinets and in facilities without central gas supply*
- *Permanent availability and immediately ready to use*
- *Optimal height of flame, comfortable operation*
- *Suitable for tropical environment*

State-of-the-art technology

- *Digital display of burn-time*
- *Digital status display*
- *Up to 80% gas savings*
- *UV-resistant*
- *Instrument tray integrated into the housing*
- *Adjustable continuous mode (up to 99 minutes)*
- *For stationary and mobile operation*
- *Robust and reliable*

schuett phoenix eco - with foot-switch

...ideal for safety cabinets
...best price-performance ratio
...up to 80% gas savings
For foot-switch mode

schuett phoenix (standard) - with sensor and foot-switch

...convenient for all 3 operation modes
...easiest menu navigation
For 3 operation modes
1. IR-sensor operation
2. Foot-switch, mode 1
3. Foot-switch, mode 2

schuett phoenix accu - with sensor and foot-switch

...identical schuett phoenix (standard)
...integrated high-power battery (overcharging guard) for up to 8 hours continuous operation (re-chargeable)
...for mobile use, free from troublesome cables and hoses
For 3 operation modes
1. IR-sensor operation
2. Foot-switch, mode 1
3. Foot-switch, mode 2

schuett easyflame flame sterilizer

...mobile
...light-weighted and handy
...ignition at the push of a button
...suitable for continuous operation

schuett flammy R flame sterilizing carousel

....time-saving
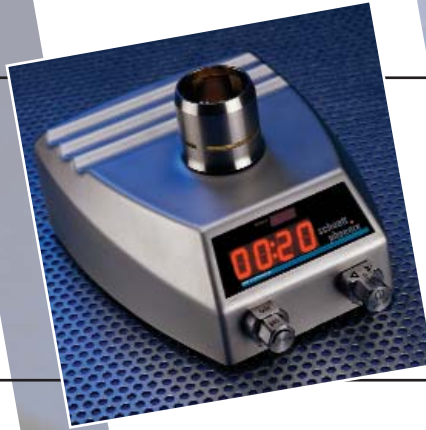*....ease-of-operation*
....versatile
....reliable

For flame sterilization ...

....inoculating loops
....inoculating loop-holders
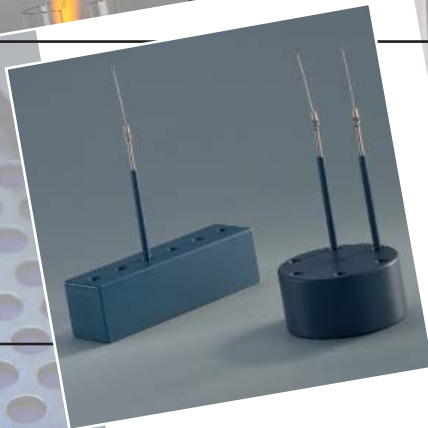*....racks for inoculating loop holders*

NEW

NEW

NEW

Activate with sensor by moving your hand in front of the display or choose operation by foot-switch:

Sensor operation - precise flame ignition

The sensitivity of the IR-Sensor (touch-free) may be set accurately in order to activate the burner with the movement of a hand or a pipette/inoculating loop. The gas supply automatically cuts off after the adjustable preset time ranging from 1 sec to 99 min has elapsed and the flame stops.

Adjustable sensor distance (0-80 mm)

The distance is digitally and continuously adjustable, 32 individual steps.
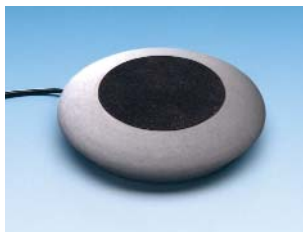
Foot-switch, mode 1

Gas supply and electronic ignition are activated automatically. The flame only comes on while pressing the foot-switch and is thereby permanently under control. As soon as the foot-switch is released, the gas supply is cut off and the flame stops immediately.

Foot-switch, mode 2

The flame comes on when pressing the foot-switch once and stops after pressing the foot-switch again or the preset time has elapsed.

Foot-switch, stainless steel

May be used in 2 operation modes. Made of high-quality stainless steel. Round. Easy and safe all over access by foot. Slip-proof and stable.

Foot-switch

Continuous operation

Ideal for use in continuous mode. No heating up of the device.

Large display - easy self-explanatory operation

A clearly readable, lighted display provides highest comfort and easy menu navigation.

Clever design - facilitates work:

All controls for gas and air supply as well as the multifunctional control for the remaining modes of operation are clearly and conveniently located on the front panel of the device.

Tilting

A bracket underneath the schuett phoenix allows for tilting to both sides (suitable for left and right-hander). This facilitates flame-sterilizing of e.g. bottlenecks. The risk of spilling liquids into the burner is minimized.

Integrated instrument tray

Inoculating loops and tweezers may comfortably rest on the integrated instrument tray for cooling.

Burner head

Easy removal without need for tools.

You may rely on the flame of the schuett phoenix:

Flame monitoring
Should the flame inadvertently extinguish, a safety feature will provide for automatic re-ignition no interruption of your work.

Ignition monitoring
The gas supply automatically cuts off as soon as the automatic (re-)ignition fails for more than 10 seconds to produce a flame. The digital display shows the a clear fault report.

Continuous flame supervision
Should the flame extinguish due to e.g. spilled liquids and cannot be re-ignited, the gas supply automatically cuts off. The digital display shows a clear fault report.

Controlled burn-time
Digital and exact to the second adjustable (1 sec…99 min), safety cut-off after 99 minutes in continuous mode.

Turning the multifunctional control to the left hand side decreases the burn-time, turning to the right causes an increase. The preset time is stored until the setting is changed again (memory function).

The digital display keeps you updated:

Continuous display of the actual remaining burn-time (1sec to 99 min 59 sec), counting backwards.
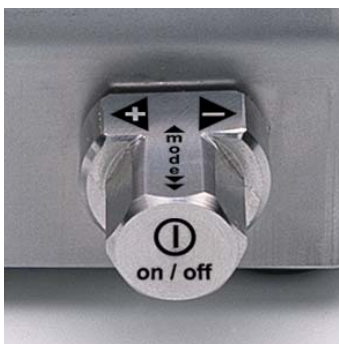

Foot-switch, mode 1

Foot-switch, mode 2

Sensitivity of the sensor

Ergonomic controls:

Gas and air supply control

Multifunctional control. For adjusting burn-time and modes of operation

schuett phoenix - reliably and safely conducts your work:

Overheating protection
Even in continuous mode, the burner head temperature never exceeds 60 °C.

Stable flame, even in laminar flow cabinets with strong air currents
The gas outlet and the sparking electrodes are technically arranged inside the burner head in order to provide a stable flame even in strong air currents.

Drain for liquids
Liquids accidentally entering the burner head are drained via a special outlet. Clogging of the air regulation is not possible due to its advanced design.

Gas input filter
A special filter prevents particles from entering the burner.

Certified safety
schuett phoenix meets the latest safety regulations such as DIN 30665 chapter 1 and has been registered under DIN-DVGW-certificate NG-2211AR0750.

Gas saving features
Adjustment of the burn-time as needed exact to the second. The precisely set flame considerably reduces the gas consumption.

Adaptability to various power and gas supplies make the schuett phoenix your ideal laboratory gas-safety burner:

Alternatively, central gas supply (natural gas) or gas cartridges/bottles (propane/butane)
Both nozzles are included in the delivery extent and may be exchanged easily and rapidly in few steps without need for tools.

The gas supply connector is suitable for hose connection (natural gas) as well as threaded connection (propane/butane).

Gas-safety hose for connection to natural gas (DVGW-certified)

Gas-safety hose with threaded connection for propane/butane gas (DVGW-vertified), both sides R 1/4" left

schuett phoenix with CV 360-adapter and cartridge

schuett phoenix with C 206-adapter and cartridge

CV 360
Valve cartridge with integrated pressure reducer
Butane gas – 52 g capacity
Ø burn-time (continuous mode): approx. 40 minutes

C 206 (worldwide available)
Pierceable cartridge without valve
for adapters with pressure reducers
Butane/propane 80/20 – 190 g capacity
Ø burn-time (continuous mode): approx. 170 minutes

CV 270 / CV 300 / CV 470
Valve cartridge for adapters with pressure reducer
Butane/propane 80/20 – 230 g / 240 g / 450 g capacity
Ø burn-time (continuous mode): approx. 370 minutes

Express 444
Valve cartridge with integrated pressure reducer
Butane/propane – 60 g capacity
Ø burn-time (continuous mode): approx. 50 minutes

CG 1750 / AT 2000
Screw-valve cartridge for adapters with pressure reducer
Butane/propane 70/30 – 175 g / 330 g capacity
Ø burn-time (continuous mode): approx. 150 minutes

CP 250
Valve cartridge for adapters with pressure reducer
Butane gas – 250 g capacity
Ø burn-time (continuous mode): approx. 210 minutes

R 901 / R 904 / R 907
Refillable gas bottle with valve for adapters with pressure reducer
Butane gas – 400 g / 1.8 kg / 2.75 kg capacity

schuett easyflame
Flame sterilizer
- mobile
- operation with gas cartridges
- piezo-ignition
- "soft" or "intensive" flame

For sterilizing fire-proof working surfaces and devices.
The flame sterilizer is ideally suitable for fields of application where no central gas supply is available, e.g. in production, research and Quality Control.

Piezo-electric ignition at the push of a button. Infinite adjustment of the flame in order to reach optimum flame size for each special application. Air supply control for producing a "soft" or "intensive" flame.

Light-weighted and handy, ready to use in every situation, even overhead.

Single-handed operation, in short-term use, the flame is only activated as long as the push button is pressed. Lock key for continuous operation. To stop the continuous mode, press the push button again and the flame goes out.

For flame sterilizing cotton or butyl rubber plugs with a "soft/coloured" flame at low temperature. For safe and gentle sterilization.

For sterilizing bottlenecks, hose connections and openings, e.g. when loading autoclave or fermenter. Keeps the air at the opening sterile.

For sterilizing of fire-proof surfaces of product packing in Quality Control before taking out the sample.
Suitable for all gas cartridges with 7/16" EU connection thread (like CG 1750).

Flame sterilizing carousel
- Rotation und inoculating happen automatically
- No need for cooling down of inoculating loops in agar
- Sterilizing time adjustable

Ideal for flame sterilization of inoculating loops in combination with an optional gas-safety-burner (e.g. schuett phoenix).

For working in safety cabinets, our device guarantees high working comfort as well as highest safety standards.

All control elements are clearly located at the front panel of the device. Accurate flame sterilizing adjustment according to type of inoculating loop. Minimizes the gas consumption and increases the longevity of the inoculating loops.
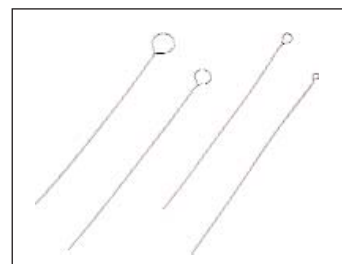
The inoculating loop is placed into the carousel after use and automatically moved to the burner where it is flame sterilized.
If need is, the five inoculating loops may be flame sterilized one after another in rotation by the push of a button. The flame sterilizing time is infinitely adjustable from 2 to 10 seconds.

There is always a sterile, cooled inoculating loop available. There is no risk of contaminating the inoculating loop or the agar while cooling.

The switch contacts are free of wear and are safely situated inside the housing. Impairment of serviceability due to soiling or stray light is therefore excluded.

Inoculating loops and accessories
Flame sterilizable inoculating loops made of three different materials.

Best results in long-time tests.

Inoclating loops stainless steel 0,5 mm strong, 60 mm long (qty=10)	
Loop diameter 1,5 mm	3.686 312
Loop diameter 2,5 mm	3.686 322
Loop diameter 4 mm	3.686 332
Inoclating loops special stainless steel 0,5 mm strong, 60 mm long (qty=10)	
Loop diameter 1 mm	3.686 112
Loop diameter 2 mm	3.686 122
Loop diameter 3 mm	3.686 132
Loop diameter 5 mm	3.686 152
Inoculating loop Platin-Iridium-wire (90/10), 0,5 mm strong, 60 mm long (qty=1)	
Loop diameter 1 mm	3.686 212
Loop diameter 2 mm	3.686 222
Loop diameter 3 mm	3.686 232
Loop diameter 5 mm	3.686 252
Platin-Iridium-wire (90/10) charges in cm	
0,5 mm strong	3.686 050

Inoculating loop-holders	
Impfösenhalter 160 mm lang	3.686 362
Impfösenhalter 240 mm lang	3.686 442

Racks for incoulating loop-holders made of PVC with 6 holes á Ø 7 mm	
Rack R (round) 80 x 50 mm (Ø x h)	3.687 082
Rack L (long) 180 x 50 x 50 mm (w x h x d)	3.687 182

schuett phoenix with glass spatter guard

schuett phoenix with flame shield

schuett phoenix with Hot-Tray

*Adapter cable for the connection
to 12 V in a car*

Technical data *(schuett phoenix gas-safety burner)*

Burn time, adjustable (schuett phoenix / schuett phoenix accu)	1 sec - 99 min 59 sec
Line/mains voltage power supply	230 V or 115 V, +/- 5%, 50-60 Hz
Connected voltage (schuett phoenix or schuett phoenix accu)	12 V DC, 5 VA bzw. 11,1 V DC, 1200 mA
Maximum burn time with accu (schuett phoenix accu)	8 hours
Connection clip for gas hose (natural gas)	10 mm diam. (interier)
Working pressure natural gas / propane/butane gas	18-25 mbar / 47,5-50 mbar
Rated heat load natural gas / propane/butane gas	1,000 W / 1,300 W
Consumption atural gas / propane/butane gas	0.1 cbm/h / 0.12 kg/h
Dimensions (W x H x D)	125 x 58 x 155 mm
Weight (schuett phoenix und schuett phoenix eco / schuett phoenix accu)	approx. 1.000 g / approx. 1.100 g

Technical data *(schuett flammy R flame-sterilizing carousel)*

Line/mains voltage power supply	230 V or 115 V, +/- 5 %, 50-60 Hz
Connected voltage	9 V DC, 500 mA
Dimensions (W x H x D)	100 x 345 x 160 mm
Weight	approx. 2,000 g

Technical data *(schuett easyflame flame sterilizer)*

Dimensions (W x H x D)	240 x 200 x 60 mm
Weight	approx. 550 g

Ordering information **Cat.-No.**

New	**schuett phoenix eco** with stainless steel foot-switch, power supply 230 V / 115 V	**3.355 102 / 3.355 112**
	foot-switch-mode, burn time control,	
	easy removal burner head (without tools), integrated instrument tray,	
	tilting, 2 nozzles (natural gas and propane/butane gas)	
	schuett phoenix (standard) with sensor and stainless steel foot-switch*, power supply 230 V / 115 V	**3.351 102 / 3.351 112**
	3 operation modes/menue, sensor/2 foot-switch-modes or continuous mode, display of burn time,	
	burn time control, easy removal burner head (without tools), integrated instrument tray,	
	tilting, 2 nozzles (natural gas and propane/butane gas)	
New	**schuett phoenix accu** with sensor and stainless steel foot-switch*, special power supply for accu charging	**3.356 102**
	as like schuett phoenix (standard), battery use (integrated high-power battery, re-chargeable)	
	schuett flammy R Flame sterilizing carousel, incl. 5 special inoculating loop-holders, power supply and conn.cable	**3.353 102**
	Glass spatter guard (wih cut outs) to work with pathogen materials	**3.353 232**
New	**schuett easyflame** flame sterilizer, mobile	**3.359 102**
	Stainless steel holder for mobile sterilizer or e.g. CG 1750 / CP 250 cartridges	**3.359 202**
New	**schuett phoenix Special** for sealing of glass ampoules - on request -	**3.333 330**

Optional Accessories

Foot-switch stainless steel, 3500 mm lenght of cable**	3.351 532
Glass spatter guard to work with pathogene materials	3.351 232
Flame shield saves the flame against lateral air currents	3.351 242
Hot-Tray for use in chemistry laboratories, (W x H x D) 160 x 140 x 160 mm (optimized in height)	3.351 292
Cable for the connection to 12 V in a car	3.351 202
Pressure reducer fo 5 kg and 11 kg gas bottles (TÜV-certified, indoor/outdoor)	3.851 302
1/2"adapter for the connection of natural gas (France)	3.934 192
Gas-safety hose for natural gas (1 m)**, with standard plug 1/2" for the connection	3.851 512
to a gas-outlet with thermal shut-off device (TAE)	
Burner head standard	3.934 700
Burner head long (70 mm)	3.934 690
Power supply (Euro), 230 V	3.934 610
Power supply (Universal, world-wide)	3.934 660
Nozzle propane/butane gas	3.934 730
Nozzle natural gas	3.934 740

Safety gas hoses

Safety gas hose	
for natural gas (0,75 m / 1,5 m / 2,0 m)**	*3.351 262 / 3.851 402 / 3.851 412*
Safety gas hose with threaded connection	
for propane/butane gas (0,5 m / 2,0 m)**	*3.351 272 / 3.351 282*

Adapter (stainless steel) for the connection

of gas cartrdiges CV 360	*3.351 212*
of gas cartrdiges Express 444	*3.351 402*

Adapter incl. pressure reducer and gas safety hose (0.5 m)** for the connection

of gas cartridges C 206	3.351 222
of gas cartridges CV 270 / CV 300 / CV 470	3.351 302
of gas cartridges CP 250	3.351 412
of gas cartridges CG 1750	3.351 422
of gas cartridges CG 901, CG 904 und CG 907	3.351 492

Gas cartridges

Valve cartridges CV 360, capacity 52 g butane gas (qty = 6)	3.351 300
Pierceable cartridges C 206, without valve, capacity 190 g butane gas (qty = 6)	3.351 310
Valve cartridges CV 470, capacity 450 g butane gas (qty = 3)	3.351 342
Screw-valve cartridges CG 1750, capacity 175 g propane/butane gas (qty = 6)	3.351 352
Valve cartridges CP 250, capacity 250 g butane gas (qty = 6)	3.351 362
Valve cartridges CV 270, capacity 270 g propane/butane gas (qty = 6)	3.351 372
Valve cartridges CV 300, capacity 240 g propane/butane gas (qty = 6))	3.351 392
Valve cartridges Express 444, capacity 60 g propane/butane gas (qty = 6)	3.351 382

*the foot-switch works in 2 operation modes
**additional lengths on request