

*schuett phoenix: **the star***

in your lab



schuett phoenix is suitable for...

- ...use inside microbiological safety cabinets.
- ...flame-sterilizing of instruments and bottle-necks.
- Both the operator's hands are free.
- In chemical laboratories the ***schuett phoenix*** replaces the conventional Bunsen burner for rapid heating of liquids.
- Yellow blazing flame for flame-sterilizing of cotton swabs.
- ***schuett phoenix*** is the intelligent and flexible laboratory burner with digital technology.
- ***Small in size, but great in design and function.***

schuett phoenix:

- ***The gas-safety burner***
- ***The perfected Bunsen burner***

- *Made of stainless steel and glass*
- *Digital display of burn-time*
- *Digital status display*
- *Up to 80 % gas savings*
- *UV-resistant, may be flame-sterilized*
- *Integrated instrument tray*
- *Adjustable in the continuous mode for up to 99 minutes*
- *For laboratory and mobile operation*
- *Robust and highly reliable*

- ***Professional in technology and design***



Perfect ignition at any time

Activate by moving your hand in front of the display or by using the foot-switch:

Sensor operation

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

Sensor distance (0-80 mm)

The distance is digitally and continuously adjustable in 32 individual steps.

Foot-switch, mode 1

Gas supply and electronic ignition are activated automatically. The flame only comes on when 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 made of stainless steel. Round. All over access by foot.

Easy and comfortable to handle



Gas/air settings and operation of the burner: 2 controls for all functions.

Ease of operation – microprocessor controlled

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

Clever design facilitates your work:



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

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

Easy to clean

The burner head may easily be removed for cleaning without need for tools. The stainless steel surface of the burner has been specially treated to be soil resistant. The stainless steel housing and the display made of tempered glass are easy to clean and may be flame-sterilized. The stainless steel housing is resistant to UV-radiation.

No longer problems with the flame

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 without interrupting 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 corresponding fault report.

Continuous flame supervision

Should the flame extinguish due to spilled liquids and cannot be re-ignited, the gas supply automatically cuts off. The digital display shows the corresponding fault report.

Precisely adjustable burn-time

Digital and exact to the second (1 sec...99 min), safety cut-off after 99 minutes. Turning the multifunction 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).

Precise information, high comfort

The digital display keeps you updated:

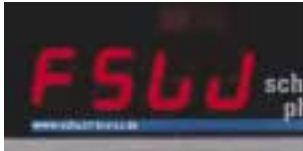


Continuous display of the actual remaining burn-time (1sec...99 min 59 sec), counting backwards.

Display of the actual mode of operation:



Foot-switch, mode 1



Foot-switch, mode 2



Sensitivity of the sensor

Ergonomic controls:



For adjusting the gas and air supply



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

Always on the safe side

schuett phoenix is your reliable and safe working tool:

Overheating protection

The burner head of the schuett phoenix is physically separated from the burner by a thermally insulating jacket, i.e. even in the continuous mode the temperature of the housing never exceeds 60 °C.

Stable flame, even in laminar flow cabinets with strong air currents

The sparking electrodes and the gas outlet are placed low inside the burner head.

Drain for liquids

Liquids accidentally entering the burner head are drained via a special opening in the bottom. Clogging of the air regulation is not possible due to its advanced design.

Gas input filter

A filter in the magnetic valve prevents particles from entering the burner via the gas supply.

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

Use of precision controls for air and for gas to set flame characteristics accurately and gas savings. Adjustment of the burn-time as needed exact to the second.

Gas supply? Everything is possible



schuett phoenix with CV 360 adapter and gas cartridges (optional)



schuett phoenix with C 206 adapter incl. pressure reducing valve and gas-safety hose with gas cartridge (optional)

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

Alternatively, central gas supply (natural gas) or gas cartridges (propane/butane)

Upon delivery, the schuett phoenix is equipped with a nozzle for natural gas. Without the need for tools, the nozzle may be exchanged for the propane/butane nozzle, which is part of the original shipment.

Gas cartridges CV 360 and C 206 as well as the corresponding adapters are optionally available. The burn-time for use with CV 360 cartridges is approx. 40 minutes and for use with C 206 cartridges is approx. 160 minutes (in continuous mode). A multifunctional gas olive is suitable for hose connection (natural gas) and thread connection (propane/butane).

Optionally available, there is an adapter cable for use with 12V cigarette lighter of a car.

Data and facts



schuett phoenix with glass spatter guard



schuett phoenix with flame shield



Hot-Tray for use in chemical laboratories (optimized in height)



Gas-safety hose for natural gas



Adapter cable for the connection to 12 V in a car

Technical data

Burn-time (adjustable)	1 sec - 99 min 59 sec
Line/mains voltage for the power supply	230 V or 115 V AC, +/- 5%, 50-60 Hz
Connected voltage for schuett phoenix	12 V / DC, 5 VA
Connection clip/gas hose	10 mm inner diameter
Working pressure for natural gas	18-25 mbar
Working pressure for propane/butane	47.5 - 50 mbar
Rated heat load, natural gas	1,000 W
Rated heat load, propane/butane	1,300 W
Gas cartridge contents	CV 360: 52 g of butane C 206: 190 g of butane
Consumption of natural gas	0.1 cbm/h
Consumption of propane/butane	0.12 kg/h
Dimensions (W x H x D)	125 x 58 x 155 mm
Weight:	approx. 1,000 g

Ordering Information

	Cat.-No.
schuett phoenix with sensor and stainless steel foot-switch, power 230 V	3.351 102
schuett phoenix with sensor and stainless steel foot-switch, power 115 V	3.351 112

Optional Accessories

Foot-switch made of stainless steel	3.351 532
Glass spatter guard	3.351 232
Flame shield	3.351 242
Hot-Tray	3.351 292
Adapter for the connection of CV 360 gas cartridges	3.351 212
Adapter for the connection of C 206 gas cartridges, incl. pressure reducing valve and gas safety hose (0.5 m)	3.351 222
Gas safety hose for natural gas (0.75 m)	3.351 262
Gas safety hose with threaded screw connections for propane/butane (0.5 m)	3.351 272
for propane/butane (2.0 m)	3.351 282
Gas cartridges CV 360 (qty=6)	3.351 300
Gas cartridges C 206 (qty=6)	3.351 310
Adapter cable for the connection to 12 V cigarette lighter (car)	3.351 202
Burner-head (spare-part)	3.934 700

Inoculating loops made of special stainless steel wire, length 60 mm (qty=10)

Inoculating loop E1 loop diameter 1 mm	3.686 112
Inoculating loop E2 loop diameter 2 mm	3.686 122
Inoculating loop E3 loop diameter 3 mm	3.686 132
Inoculating loop E5 loop diameter 5 mm	3.686 152

Inoculating loops made of platinum-iridium wire (90/10), length 60 mm (qty=1)

Inoculating loop P-I 1 loop diameter 1 mm	3.686 212
Inoculating loop P-I 2 loop diameter 2 mm	3.686 222
Inoculating loop P-I 3 loop diameter 3 mm	3.686 232
Inoculating loop P-I 5 loop diameter 5 mm	3.686 252

Inoculating loop-holder according to Kolle

Inoculating loop-holder 160 mm length	3.686 362
Inoculating loop-holder 240 mm length	3.686 442

Rack for inoculating loop-holders made of PVC with 6 holes Ø 7 mm each

Rack for inoculating loop-holders R (round), 80 x 50 mm (Ø x H)	3.687 082
Rack for inoculating loop-holders L (long), 180 x 50 x 50 mm (W x H x D)	3.687 182

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