

WOLF LABORATORIES

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Bunsen Burners



4001 & 4003 series 11mm Burners

Burners available for all gases either in Brass finish or nickel plated

OVERALL HEIGHT: 124 mm

O.D. OF INLET: 9.25 mm

I.D. OF OUTLET: 7.0 mm



4004 & 4006 series 13mm Burners

Available for all types of gas either in Brass or Nickel plated finish

OVERALL HEIGHT: 145 mm

O.D. OF INLET: 9.25 mm

I.D. OF OUTLET: 9.0 mm



4005 series bypass Burner

As 13 mm Bunsen burner (4004, 4006 series) but incorporates a gas control stopcock and pilot ignition flame. All parts nickel-plated, supplied with air regulator. Natural brass finish also available.

OVERALL HEIGHT: 171 mm

O.D. OF INLET: 9.25 mm

I.D. OF OUTLET: 9.0 mm



4010 Teclu Burner

The burner is constructed with a gas control needle valve. A specially designed conical mixing chamber is incorporated, which allows the burner to give off a very hot flame. Suitable for glass work and soldering. Gas and air mixing is regulated by adjusting the knurled wheel below the tube. Burners are finished nickel plated

OVERALL HEIGHT: 145 mm

O.D. OF INLET: 9.5 mm

I.D. OF OUTLET: 9.0 mm



4014 Micro Burner

Constructed in brass and nickel plated. The 4014 series is fitted with a gas control valve.

All Burners fitted with air regulators.

Overall height 88mm.



4070 Universal Burner

Manufactured in brass and nickel plated, the burner is designed to use a wide range of gases. This is achieved by the burner being fitted with a needle valve controlled gas jet orifice and adjustable baffle stabiliser in the combustion tube and an air regulator. A blue flame cone can be produced by adjusting the gas flow by screwing the tube up and down and then adjusting the air regulator and stabilising screw until desired flame is achieved. Please note that a gas sealant grease is applied to the thread of the tube and jet. This grease must not be removed, as it will result in gas leaking at this point.

Overall height: 150mm



4080 Spirit Burner

Stainless Steel Container, no wick required. Supplied with extinguisher cap & shield, & rubber burner loop protector.

Tank Capacity: 100cc
Heat Output : 5.5Kcal/min
Fuel Consumption: 1cc/min
Overall height: 80mm



4083 Gas Cartridge Burner

Designed for use with Butane / Propane mix gas cartridges. This burner can achieve temperatures in excess of 1000 degrees C. The design of the gas cartridge enables the burner to be detached and re-attached as often as needed making it easily stored and transported.

It is entirely constructed in brass with a replaceable plated steel perforated head. When used with the 220gm cartridge the burner fits the standard 8" (200mm) high tripod. Typical burning time of the 220gm cartridge is 2 ¾ hours.



4101 series Meker Burners

These burners are manufactured out of brass and are all nickel plated. The top of the burner is fitted with a perforated steel head, which gives off multiple small but very hot flames. Not fitted with an air regulator.

Sizes from 20mm head to 43mm head



43mm Meker Burner

The 43 mm meker has a safety handle fitted to the base and is fitted with a No 5 jet, 3 alternative jets, sizes 3, 2 and 1 are also supplied.



9072 & 9073 Wire Gauze

Flat square galvanised iron mesh with ceramic centre.

9072 : 125 mm with 85 mm centre

9073 : 150 mm with 105 mm centre

Burner Specifications

All burners are constructed utilising a heavy pressure diecast base painted in a blue chemically resistant acrylic finish. All burners are tested for flame quality and leakage prior to packing. The tests are carried out at the standard gas pressure for each specific type gas.

Coal Gas

Coal gas is operated at a lower pressure than other gases and consequently the jet sizes are much larger than those for natural and especially LPG gases. A coal gas burner should never be used on other gases as the flame will be very large and uncontrolled. Standard coal gas supply is 6.25 -millibars (4 inches water gauge). Coal gas burners generally produce the hottest flame. Temperatures of 1 000 to 1100°C can be obtained.

LP GAS

LPG PROPANE AND BUTANE (CALOR) GASES

These gases generally achieve temperatures slightly lower than those achieved with natural gas, the range being 850 to 950°C.

Our LPG burners are designed to work at propane 35 millibars (14 inches water gauge) and butane (Calor) 28 millibars (11 inches water gauge) with the appropriate pressure reduction valves being fitted to the gas cylinders. Liquid Petroleum Gases are much more searching than either coal or natural gas, for this reason all the jets on LPG are sealed with a jointing compound. In the event that jets might be changed a jointing compound must be used. We cannot accept liability resulting from burners that have been stripped for whatever reason.

Natural Gas

The hottest flame temperature for all natural gas burners is between 900 and 1000°C. The temperature is achieved at the tip of the blue flame cone. Typically the temperature of the airless yellow flame will be between 750 and 800°C. The temperatures are dependent on mains pressure and the chemical construction of the gas which varies in different parts of the world. The standard mains pressure for natural gas is 20 millibars (7.8 inches water gauge).



Safety Burners

These burners can now be supplied with a flame failure device that shuts off the gas supply to the burner within approximately 20 seconds of the flame being extinguished. The safety features are all contained within the burner – an electrical supply from either mains or battery is therefore not required. The moving parts, ie. The actuator and thermocouple can be replaced, although exhaustive tests have not yet caused a failure. However, in the event of damage, we recommend that repairs are carried out in our factory to ensure that the burner is properly adjusted and operates correctly.

Burners available:

4006 series

4101 series 24mm & 43mm only

4010 series



WolfLabs

Pricing on any accessories shown can be found by keying the part number into the search box on our website.

The specifications listed in this brochure are subject to change by the manufacturer and therefore cannot be guaranteed to be correct. If there are aspects of the specification that must be guaranteed, please provide these to our sales team so that details can be confirmed.

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Please contact us if this literature doesn't answer all your questions.