

Micro-Flame

General Description

The Micro-Flame gas generating soldering machine has been manufactured in the UK for over 25 years and is acknowledged as an extremely safe, reliable and cost effective way of producing a high temperature flame in the range of 1200 - 3300°C. It meets all EEC safety and quality standards.

The machine produces an oxygen/hydrogen gas, the characteristics of which can then be altered by passing it through a booster unit. The booster unit is filled with a solution such as MEK (methyl-ethyl-ketone) which changes the calorific value and temperature of the gas flame to suit your particular application.

The flame size is also easily adjusted through a range of simply fitting torch tips.

Three different models of the Micro-Flame are available; the larger machines have the facility for multi operator use. All Micro-Flames are portable and self contained, there are no gas bottles required in their operation neither is gas stored in the machine thus making it very safe to use.

Using electrolysis of water gas is produced only when required. The machine requires a standard electrical supply, distilled water and the solution used in the booster unit.

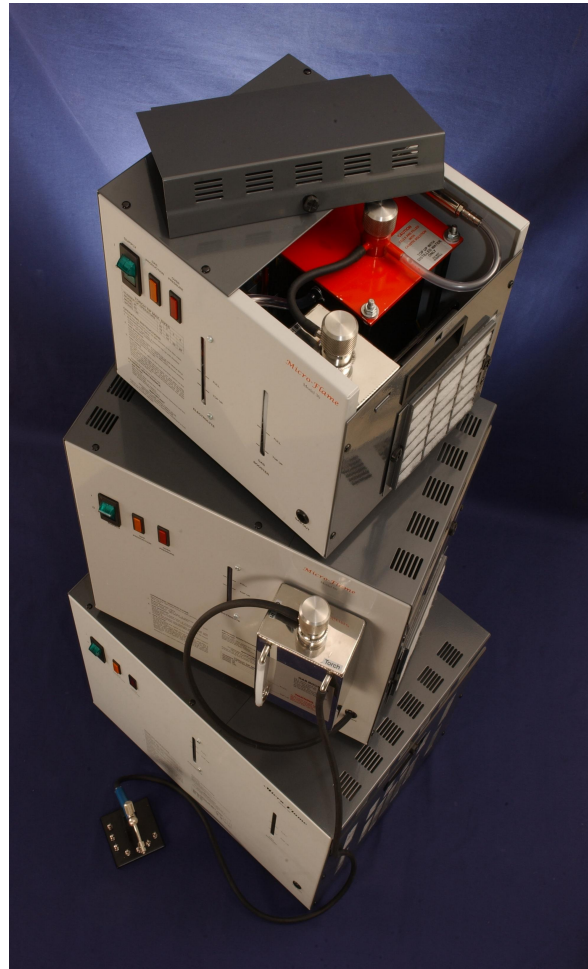
Special Features

The Micro-Flame gas generator is protected by an overpressure control linked into an electrical circuit breaker, such that, in the unlikely event of an overpressure condition arising the machine switches off and locks off automatically.

Typical Uses

Employed extensively in the jewellery, acrylics, dental and optical industries the Micro-Flame is a very versatile machine that meets the needs for virtually all precision soldering work for a variety of users. Its low cost and simplicity of use makes the Micro-Flame suitable for large manufacturers, retail jewellers, laboratories and the hobbyist.

The Micro-Flame's clean and precise flame control make it suitable for a variety of different applications that include :

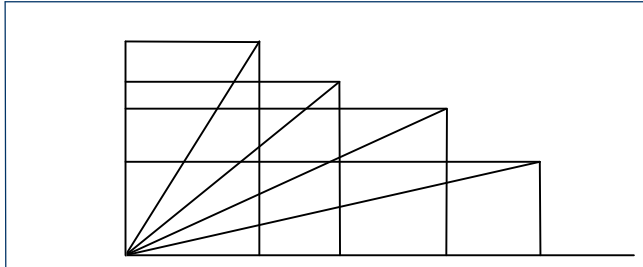


A blowback arrestor is fitted into the torch as a safeguard to the operator and also to prevent damage to the equipment. Indicator lights show the operating state of the machine and an overpressure condition if it should arise.

- chain repairs
- jump-ring soldering
- flame polishing of acrylic sheet
- fusing of optical fibres
- brazing and cutting a variety of metals
- making of thermocouple junctions
- glass cutting

Flame Temperature

The flame temperature together with its characteristic can be altered by passing the oxygen/hydrogen gas through the gas booster (as previously described). The chart below compares a variety of solutions and the effect they have on the flame temperature.



Flame Size

The flame size can be easily adjusted by simply changing the torch tip that best suits the application in hand. The gas valve knob on the precision torch is for on/off use only. The chart below shows the maximum torch tip sizes for the Micro-Flame range.

The smaller the gauge size the larger the tip.

Torch Tip Maximum Sizes				
No. of Operators	1	2	3	4
Model 30	20			
Model 60	18	19		
Model 120	17	18	20	22

General Specification

Micro-Flame	Max number of Operators	Dimensions (mm) W x D x H	Weight (kg)	Power (watts)
Model 30	1	300 x 260 x 260	15	500
Model 60	2	400 x 260 x 385	28	800
Model 120	4	475 x 350 x 385	45	1200

Accessories

All Micro-Flames are supplied ready for use by a single operator and come with a detailed instruction and maintenance manual and accessory kit that comprises :

Gas booster, Torch, Torch holder bracket, Torch tips (2 each of 6 sizes), Filler funnel, Connecting hose and Electrolyte crystals.

Spares & Servicing

Comprehensive service facilities are available via the manufacturer.

Guarantee

12 Months.