



# AQUAFLAME

SYSTEMS

POWER

PRECISION

SAFETY

Aquaflame Systems provide solutions for micro soldering and acrylic flame polishing through a range of products. The Aquaflame range are high performance gas-generating units, producing a high temperature flame – in the range 1200-3300°C. Not only that but each Aquaflame product is a reliable, low cost and safe operating solution to your micro welding / edge polishing needs.

Employed extensively in the jewellery, dental and other technical manufacturing industries, the Aquaflame range provides solutions for individual traders and small retailers through to larger manufacturers. Our smaller machines are suited to single users, whereas our larger machines are capable of having 2-4 users working simultaneously.

## THE PERFECT TOOL FOR FLAME POLISHING.

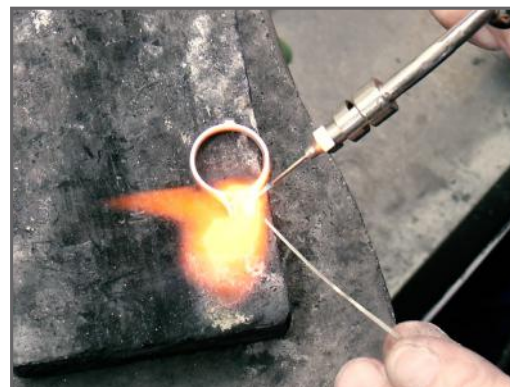
Aquaflame machines are also ideal for edge polishing of acrylic, as this method of polishing requires no other materials or compounds and can finish intricate shapes, in a single quick and easy operation.

Overall, the clean flame and precise control of the Aquaflame Systems machines make them the ideal choice for precision soldering, micro welding and edge polishing acrylic. They are also great value and easy to use and adjust, which is perfect for small business and large manufacturers alike.

## A CLEAN FLAME

Using a standard electrical supply, hydrogen and oxygen are produced by the electrolysis of distilled water, in the correct ratio such that the hydrogen can be burnt in the oxygen, so producing a highly controllable, efficient high energy heat source. The only product of this process, other than energy, is water.

A truly efficient clean and environmentally friendly process. Prior to this chemical reaction, mixed gases are passed through a gas atomiser and delivered to single or multiple torches via an output tube.

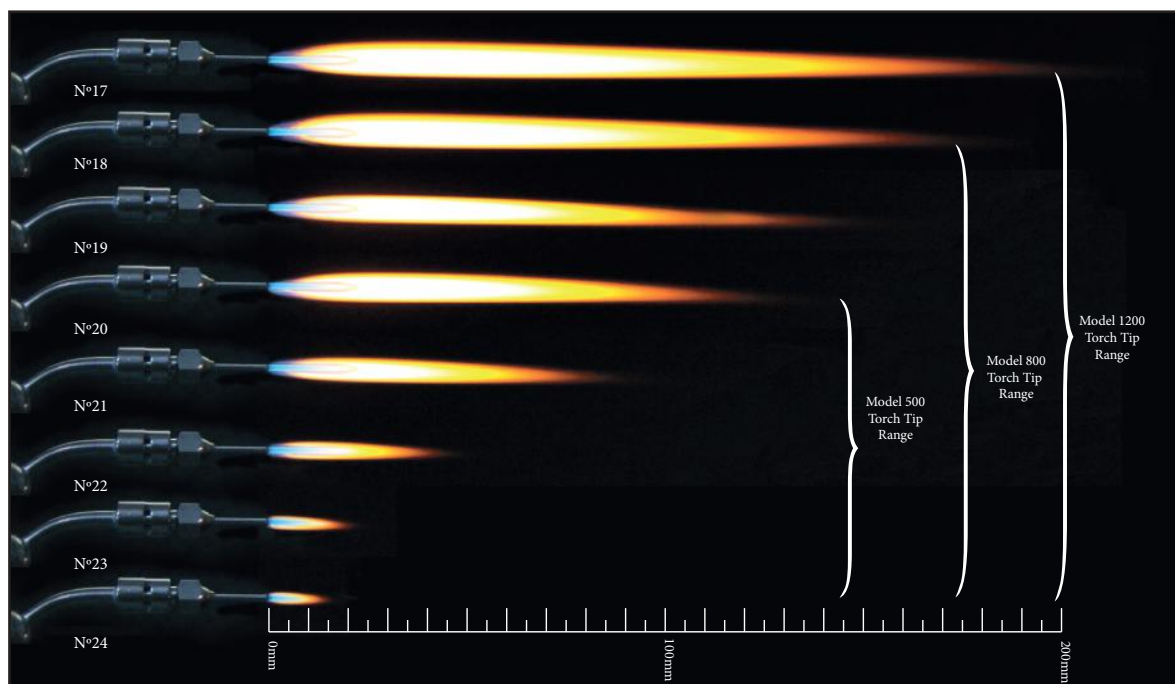


Soldering a platinum setting



Flame polishing of acrylic edge

### Flame size comparison chart



# WHAT CAN AQUAFLAME MACHINES BE USED FOR?

The range of AquaFlame Systems machines is very versatile, and can be used in various industries.

Some of the most popular uses are:



OPTICAL REPAIRS



RETIPPING A RING



PRECIOUS METAL RECYCLING



MICRO PRECISION WELDING



FLAME POLISHING ACRYLIC



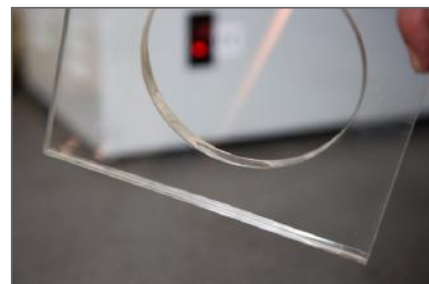
HEAVY WEIGHT BANGLES



DENTAL EQUIPMENT REPAIRS



MICRO PRECISION SOLDERING



INTERNAL FLAME POLISHING

These are just some of the many uses of the AquaFlame machines. Others include fusing and working fibre optics, lost wax / wax assembly, columnar lime lights and producing thermocouple junctions – but the list could go on and on! Their clean, super-high temperature flame combined with their ease of use makes them the ideal tool for industries that require precision soldering or high temperature flame polishing.

## A PRECISION TOOL

The flame created by an Aquaflame is delivered through an interchangeable range of torch tips allowing for both large and precise flames to be produced.





# AQUAFLAME MODELS

S Y S T E M S



EQUIPMENT INFORMATION	MODEL 500	MODEL 800	MODEL 1200
Reference number	LM135	LM136	LM137
Gas production	75 lt/h	120 lt/h	240 lt/h
Distilled water use (per day)	30 ml	50 ml	100 ml
Maximum flame temperature	3300c	3300c	3300c
Electrical usage	0.50 kW	0.80 kW	1.20 kW
Flash back fitted	Yes	Yes	Yes
Torch tips range supplied	20 - 24	18 - 24	17 - 24
Torch tips bore size supplied (mm)	0.60 - 0.31	0.90 - 0.31	1.00 - 0.31
Maximum hose lengths (From Booster to Torch)	1.5m with 1 torch with No. 20 tip	1.5m with 2 torches with No. 20 tip	1.5m with 2 torches with No. 18 tip
Service recommended period	4000 working hours	4000 working hours	4000 working hours
Guarantee period	2 years	2 years	2 years
Length	400mm	400mm	440mm
Width	200mm	280mm	320mm
Height	300mm	380mm	395mm
Shipping Weight	18kg	33kg	49kg
FLAME POLISHING DETAILS			
Chemical for flame positioning	MEK	MEK	MEK
Thickness that can be polished in one pass	5mm	10mm	15mm
Typical polishing times (per metre)	1 min	2 mins	3 mins

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Due to continuous improvements, some of the above details may change