



SAFEFLAME



A NEW SAFER FLAME FROM WATER

A NEW GENERATION DEVICE THAT WILL
MODERNISE THE TRADITIONAL METHODS OF
OXY-ACETYLENE AND GAS-AIR BRAZING

SAFEFLAME is the development of a 'Safer and better
brazing flame' using Hydrogen and Oxygen from
Electrolysis of de-ionized water needing only water and
electricity and no chemicals.

No compressed gases, mains gas or nasty chemicals required

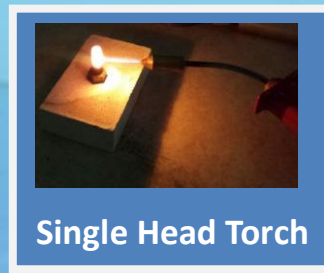


- No compressed gases required.
- The fuel supply is water.
- The power supply is mains electricity.
- Eliminates acetylene, oxygen and LDP cylinders.
- Access to sites where compressed gas cylinders are banned.
- No cylinder rental and storage issues.
- No need to modify vehicles for the carriage of compressed gases.
- No cylinder regulators to be serviced and maintained.

- Hydrogen and oxygen for “safer” brazing... no light back.
- Improved heat transfer profile from the flame.
- Impinging flame wraps round joint - no hot spots.

- Greater control of the flame – ability to switch between low and high flames.
- Portable /mobile unit.
- Available in a variety of sizes and colours.
- 13 AMP supply, 220-240 volts supply compliant.

	1 litre	2 Litre	3 Litre	4 Litre
H2 Output (LPM)	1	2	3	4
O2 Output (LPM)	0.5	1	1.5	2
Power Supply (AC)	200-240v 13A	200-240v 13A	200-240v 13A	200-240v 16A
Max Power Consumption (W)	450	850	1350	1750
Water Tank Capacity (L)	1.5	1.5		
Water Consumption	60 ml/hr	120 ml/hr	180 ml/hr	240 ml/hr
Dimensions (cm) (HxWxD)	52 x 34 x 40		61 x 45.5 x 50	
Weight (Kg)	25	30	38	42
Compatible Torches	Micro Torch	Micro Torch	Micro Torch	Micro Torch
		Single Head Double Head	Single Head Double Head	Single Head Double Head
Brazing Capability (Max Pipe)	1/4"	3/8"	1/2"	5/8"



5 Litre	6 Litre	7 Litre	8 Litre	9 litre
5	6	7	8	9
2.5	3	3.5	4	4.5
200-240v 32A	200-240v 32A	200-240v 32A	200-240v 32A	200-240v 32A
2250	2650	3200	3700	4100
6	6	6	6	6
300 ml/hr	360 ml/hr	420 ml/hr	480 ml/hr	540 ml/hr
93 x 51 x 55				
52	55	58	65	68
Micro Torch Single Head Double Head	Micro Torch Single Head Double Head	Single Head Double Head	Single Head Double Head	Single Head Double Head
5/8"	3/4"	3/4"	1"	1"



Double Head Torch Brazing 3/4"



Single Head Torch Brazing 1/2"



**Twin
Head
Torch**

**For Even Heating During
Brazing**



APPLICATIONS FOR SAFEFLAME UNIT


- Jewellery and glass bead applications
- Dental
- Acrylic polishing
- Education establishments with metal working workshop where compressed gas cylinders are not allowed and safety is of paramount importance.
- Industrial applications in which brazing is required for aluminium to aluminium, aluminium to copper, copper to copper.



TIME FOR CHANGE

HYDROGEN FLAME IS ABOUT 2700 °C

**AND SAFEFLAME CAN HAVE PRECISE
CONTROL**



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