



For lasting connections

Elmaflame

Hydro torches with a gas production of 140, 240 and 300 litres

- Highest safety standard in compliance with DIN 32508 and low operating cost
- Clean hydrogen-oxygen mix, burns without residue
- Easy microprocessor-controlled operation with integrated leak detection
- Booster lighting for the monitoring of functions and filling level of the vaporizer liquid
- Quick regulation of the precise operating pressure with automatic adjustment
- Units made of high-quality stainless steel for single or multi work place operation

Elmaflame hydro torches with gas production



Ergonomically shaped hand piece for quick and easy regulation of the required operating pressure

Elmaflame hydro torches have been particularly designed for craftspeople such as goldsmiths, jewellers, laboratory staff, opticians, instrument makers, precision mechanics or modellers.

Elmaflame hydro torches are also ideal for the use in the jewellery manufacturing and jewellery servicing, in the industrial manufacturing of transformers, of electronic control systems, of switch elements and ventilators. They are specifically good for specialized jobs in the medical and dental technology, the textile technology, the glass processing sector and for applications in laboratories and research and development facilities. Elmaflame hydro torches produce their own gas. The units generate a mix of hydrogen and oxygen by a process based on the electrolysis of demineralized water. The produced gas burns in a micro flame and leaves no residues.

The advantage lies in the high temperature that can be adjusted to any specific job by the kind of the vaporizer liquid and the selection of the perfect nozzle size.

Another important aspect are safety and reliability. The manufacturing of the units is in compliance both with the safety-relevant stipulations of DIN 32508, and with the regulations for the prevention of accidents.



Fully automatic safety check and easy operation



Gas drying and gas processing with booster lighting



Operating display



Three different unit sizes for 140, 240 and 300 l gas production



Indication of pressure with set value and actual value



Result of leak detector check



Display in idle phase

The units are very safe to operate. The high safety level is guaranteed by the integrated automatic leak detector check which is carried out each time the unit is started, and the unit produces gas only during operation when gas is required.

A low energy consumption and low cost of commodities such as distilled water and vaporizer liquid (which are more easily available than burnable gases or bottled oxygen) add up to a perfect quality of the Elmaflame units.

An exchange of electrolyte is not necessary for several years, mineral wool paddings for the drying of the gas are not required.

The units are available as compact single work place units for the use in workshops, or as multi work place units with a gas production volume of up to 300 litres designed as single or multi workplace units for special industrial jobs. They easily meet the demands of permanent change between hydro torches and welding. Elmaflame units represent state-of-the-art technology.



Unit size for 140 l gas production



Unit size for 240 l gas production



Unit size for 300 l gas production

Unit type		Elma Flame 140	Elma Flame 240	Elma Flame 300
Mains voltage	V	230	230	230
Mains fuse	A	10	16	16
Max. gas production	l/h	140	240	300
Max. nozzle size		1.1 (G19)	1.5 (G17)	1.8 (G15)
Work places		1 – 3	1 – 8	1 – 8
Width	mm	395	515	515
Depth	mm	275	375	375
Height	mm	445	515	515
Weight	kg	25	48	49



About us

Highly specialized, and yet innovative in multiple ways – this is ELMA, a company which has successfully been on the market with their ultrasonic technology for more than 50 years now.

Constant research and permanent technical improvement of the products in the ultrasonic and process technology department have always been the core competence of the company. The product range contains a large number of serial units, modular cleaning lines and special customer-made cleaning installations. Cleaning chemicals, developed, tested and produced in our own chemical laboratory round off the ELMA product range and help to solve even the most difficult cleaning jobs in various business sectors.

ELMA are exporters of customized state-of-the-art technology into more than 70 countries all over the world, distributing their products to watchmakers and jewellers, to dental and research laboratories, to companies in the medical and optics sector and to industrial businesses.

You can find ELMA products on more than 100 international trade shows. Numerous distributors around the world recommend the ELMA technology to their customers and rely on the ELMA quality standard „Made in Germany“.

There is a staff of more than 200 people working in the research and production departments at three company sites in Singen in the South of Germany.

With ELMA, quality and service enjoy top priority! A worldwide network of service points cooperates reliably to ensure very short delivery times.

From our headquarters in Singen we entertain business relations with the whole world. The partnership with our customers is based on the identification with our customers' needs. Close cooperation with our customers for us is a matter of attitude, not distance. Today we live in digitalized times, so that important information on marketing and distributional issues are immediately available at all times. We at ELMA live internationality! A highly motivated and dynamic team work together to offer our customers smooth and service-oriented processes. You might have only one simple question, or you might aim at a long and profitable business cooperation - no matter what, trust and reliability are the principal elements that make an efficient partnership.

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