Elmaflame 300

Hydrogen Soldering and Welding Unit

pictured Elmaflame 300

Elma Order No

Elmaflame 300 (230 V)	102 3372

Elmaflame units generate a mixture of hydrogen and oxygen from demineralized water in an electrolytic process. After further processing the mixture burns without residues in a micro flame.
Temperature and energy of the micro flame can be adjusted individually to each soldering or welding job by selecting the suitable nozzle size and the type of vapourizer liquid. The high temperature gradient of the micro flame allows operation of the unit in close proximity of temperature-sensitive components.
Elmaflame units are equipped with a specialized part on the top. Due to the special conduction of the gas, operation, maintenance and functional checks are easy to do; also, the forming of condensate inside the unit is prevented which increases the reliability and prolongs the service life of the units considerably.

The units are very safe to operate because gas is produced only when it is required. When the burner valve is closed, the production of gas is automatically shut down, too. Due to the extraordinarily low power consumption and the low cost of operating media (distilled water, vapourizer liquid) the operating costs of these units are kept extremely low compared to other units.

The Elmaflame units are fitted with a quick analogous pressure control device so that working on a number of different jobs and workplaces with one unit is no problem. The operating pressure is variable and the set pressure keeps precisely at the required level even under changing ambient conditions.

Additional advantages:

- High-level safety standard in compliance with DIN 32508
- Hydrogen-oxygen mixture burns clean without residues
- Easy operation, microprocessor-controlled with integrated leak detector
- Single or multi workplace operation possible
- Quick regulation of the precise operating pressure, automatic adjustment
- LED lighting for functional check and filling level monitoring of vapourizer liquid
- Almost no operating sound due to the temperature-controlled cooling device („whispering cooling“)
- Housing and gas reactor made of high-quality stainless steel
- Low operating costs
- Exchange of electrolyte is not necessary over many years
- Any losses of liquid during operation is compensated by refilling distilled water
- No mineral mineral wool padding required for the drying of the gas

Technical data

Mains voltage (V)	230	Max. nozzle size	G15 / 1,8 mm
Power consumption (W)	2000	Work places	1 - 10 (1x G15 / 1,8 mm - 10x G25 / 0,5 mm)
Max. gas production (l/h)	300	Unit dimensions w/d/h (mm)	515 / 375 / 515
Mains fuse (A)	16	Gewicht (kg)	49

Subject to technical and optical changes reserved Elma_ch_04.2012

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