

the **KARAT250** SPIRFLAME®

is a worldwide patented, Multicell Electrolyser Flame Generator producing the gases Hydrogen and Oxygen from water using electric energy from standard ac supplies (150 / 230 vac). Electricity Consumption (100 to 1000 Watt) depends entirely on gas production rate. The flames heat content is electronically selected and stabilized on set value.

The **KARAT250**® usage in Jewelry / Goldsmith applications are Soldering on Silver, Gold and Platinum and their alloys.

Handling is very user friendly. To make a substantial flame size change, close torch valve, change to new nozzle size, open torch valve, ignite gas and continue to work. No re-adjustments needed. Is the gas pressure once selected, despite to gas consumption variations by the torches, fully stabilized by the electronic control. The KARAT250 can therefore be installed remote from work area. To expand supply to eventual later to be added torch stations simply hook another KARAT250 to your gas lines. They will automatically and evenly distribute the load between themselves.

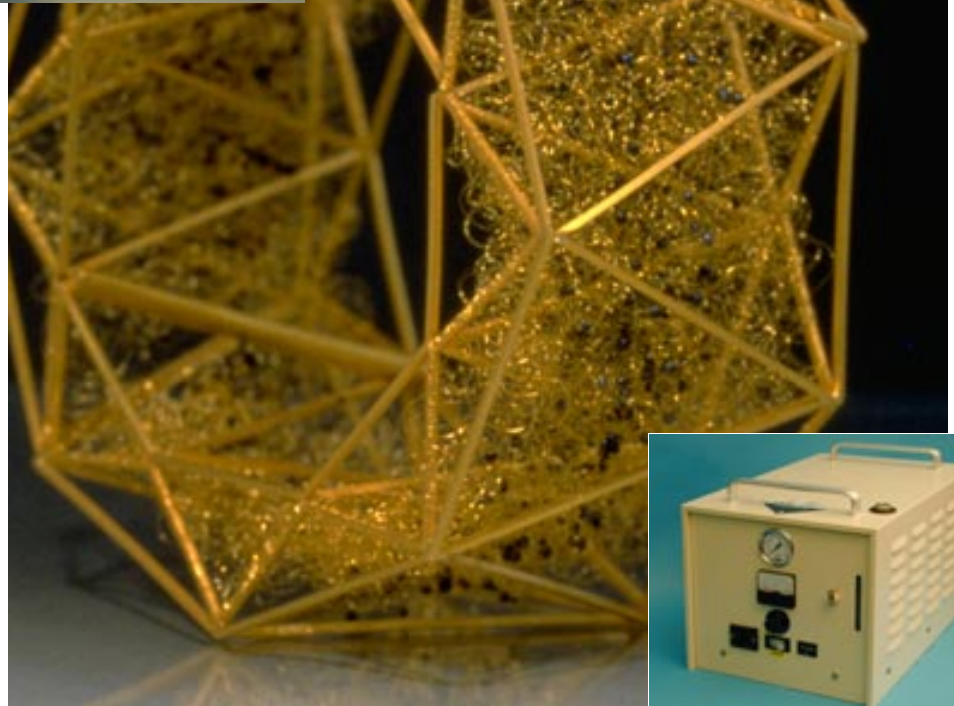
Permanent sustained gas rate is 250 liter of gas per hour. One KARAT250 can feed several torches. The automatic gas pressure control effectively suppresses heat power interferences between torches.

The *Multicell Electrolyser* is a worldwide Spirig patent. The multicell technology creates that high reliability and availability of the SPIRFLAME® system acclaimed by the many users worldwide.

The *Monocell Electrolyser* of other vendors will by basic physics reasons of an over 100-fold higher electric loss in circuitry never meet the reliability of the Multicells. Even under full load and continuous operation the KARAT250 will warm up only marginally.

Physics:

Reduced operation temperature means always reduced stress and therefore a reduced failure rate.



spiriflame® model KARAT250

The Spiriflame®, now produced since 25 years, are mainly used as production tools with demanding industrial clients the world over. References would be for example large organizations like Siemens, Bosch, Daimler-Chrysler, Ford, General Motors and myriads of medium and small sizes operations, like Dental Labs, Repair shops for Music Instruments, Electric Motors. Spiriflame®s are used in general industries for soft- and hard soldering tasks, for silver brazing, welding, annealing, hardening and point heating jobs, to polish Acrylglas plastics (Plexiglas®) and more user advantageous tasks. There is no storage of dangerous pressurized gas bottles. Spiriflame gas production follows demand from torches, a JIT procedure.

The SPIRFLAME® is covered by one or more of the following patents: USA 3957618, 4113601, 4206029, 4336122; Canada 1092546, 1123377, 1177013; Europe 5597, 45583, 131173; Germany 2202739, 2346839, 2754668; GB 1469667, 1519679, 2020697, 2081743, 2119403; France 2373615, 74.26569, 77.36065; Italy 1089953; Spain 480475, 428292, 464539; India 03042; Japan 146997, 1260197, 1337174, 1592223; Korea 14394; Taiwan 11899, 19342; Hong Kong 0417; Singapore 0245; Argentina 217092; Australia 506887, 525573, 543866, 55797; Brazil 7406904, 7708155, 7902964, 8104869; and more patents pending worldwide.

The **KARAT250** SPIRFLAME®

is a dependable, reliable and by the user easy extended and managed kit like flame system.

Tasks, as shown in the pictures, can be done in quick and effective procedures. Only skills are the limit. The KARAT250 will be your dependable, all day ready servant. But attention, KARAT250 makes dependant ... suddenly without a KARAT250 you might not want do a soldering job anymore!



... at the latest here, on the job to the left, after having formed thousands of miniature balls at the gold wire ends, you will be hooked on the power consistency and cleanliness of the KARAT250 created flames.

More Goldsmith jobs on www.spiriflame.com

... be it Platinum, Gold or Silver, using the KARAT250 simply speeds up work and increases output quality.

No side heat radiation. Tips (nozzles) do not heat up.



Kit content: Basic generator model KARAT250 (350 x 350 x 550 mm, 65 kgs, max ca 1000 Watts), 1x Twin-Booster DB-10S, 1x Torch with valve, 36 Nozzles of various diameters, 1 small Gas filter, 5 liter Electrolyte fluid (change all 2500 hours), 1 liter Boosterfluid (Methanol), 1x Instruction to mix a Gasflux for Booster, 5 m Gas hose and 1x Plastic T.