

Press Release:

Reissue of our annealing oven, the Compact RTA System AO 500

February 1st 2008

Germany – Weil der Stadt, MBE Komponenten, a manufacturer of ultra high vacuum (UHV) and molecular beam epitaxy (MBE) components and systems, announces the reissue of their successful annealing oven, a product frequently used in many laboratories for years.

The new Compact Rapid Thermal Annealing System **AO 500** is a further improvement of the predecessor AZ 500.

The AO 500 is a complete RTA processing system, designed as space-saving tabletop model. The oven itself as well as all power supply and touch screen control hardware are housed in a compact 3U box. In addition, a dry running diaphragm pump is included in the delivery.

Typical applications of the AO 500 are thermal treatment processes at operating temperatures up to 500°C such as rapid thermal annealing (RTA) of semiconductor samples, formation of ohmic contacts on semiconductors by annealing of vacuum-metallized films, diffusion processes and the investigation of intermixing and temperature stability effects in semiconductors. The maximum sample size is limited to 12mm x 12mm.

In order to achieve clean and reproducible operation and to avoid sample contamination and oxidation during heat treatment samples can be operated both in vacuum and in inert or forming gas atmosphere. For easy and precise arrangement of the operation steps of the oven the internal memory of the integrated micro-controller allows storage of ten different user programs, each comprising up to twenty free definable steps.

About MBE Komponenten GmbH:

MBE Komponenten, based in Weil der Stadt, close to Stuttgart, Germany, is specialized in UHV and MBE equipment. The product range includes various evaporation sources like effusion cells, gas sources, valved crackers, e-beam evaporators and substrate manipulators, as well as MBE systems.

For more information please visit our web site at www.mbe-komponenten.com

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