

High-vacuum annealing furnace HT-1000

You can rely on the fact that with the HT-1000 no foreign atoms will be installed in your products during the thermal process and that extremely fine parts are properly processed without depositing any oxide.



The HT-1000 is a high-vacuum annealing furnace that can heat its annealing stock (stents) in a high vacuum to temperatures of up to 1200°C. This prevents oxidation from taking place and as of specific temperatures, oxides are even reduced. An additional benefit is that no foreign atoms become integrated into the product during the thermal process, which would otherwise impair the properties of the material.

The vacuum is achieved by a high-vacuum turbo pump, which can attain a final pressure of $<10E-5$. The dry rotor booster pump ensures that no back diffusion of lubricants develops. And the tried and tested cooling method that is applied in the vacuum enables small particle sizes to be achieved. The integrated venting valve enables quick aeration of the system, and, in combination with protective gas, the processing time is minimized. The number of annealed stents pro run depends on size.

The process is controlled and monitored by freely-programmable software, which takes all important parameters into account: i.e. different temperature profiles can be run in succession. Windows is known for its easy-to-operate interface and complies fully with the requirements set by FDA and CE regulations. Individual user accounts can be defined with different access rights. Process sequences are able to be saved in a chart and subsequently evaluated, while finished processes are stored in a so-called History File. In addition, modifications, services or other activities can be noted down in the Log Book. Database software is available (not included in scope of delivery) to be used to make backups of the data. A large number of process programs can be created and saved with the software. A further option is support of a host connection.

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Technical Data

- Materials:** CoCr, NiTi, Steel;...
- Process chamber:** Quartz glass
- Pipe diameter:** approx. useful inner diameter 70; length 200 mm
- Temperature:** Process temperature from 30°C to 850°C
- Vacuum:** high-vacuum pump <10E-5 mbar
- Control:** Programming via Windows PC with the enclosed software.
- Dimensions without PC:** (L/W/H) 3200 x 800 x 1250 mm, Weight: 320 kg
- Housing:** Clean room-compliant design, top made of stainless steel.
- Connection:** 400 V/ 50-60 Hz/ 5 KW, USB-Interface, 4 mm AD compressed air tube 6-8 bar filtered, Process gas 1-3 bar.
- Scope of delivery:** VA-unit, heating unit, quartz glass and shuttle. Software, Dongle, Operating Instructions in English.
- Accessories:** Gas flow unit, vacuum valve, Quartz set for CoCr; steel. PC-Win 7/8 for programming.
- Miscellaneous:** Special sizes and customizations on request.



Made in Germany

All specifications are subject to change without notice.

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