



ENERGY EFFICIENCY

Hardly any other topic is currently of greater interest economically and ecologically, and it will undoubtedly represent a major challenge to us equipment manufacturers in the future

At **MIHM-VOGT**, we have always paid special attention to optimizing energy consumption in new developments of devices. In the last few weeks, however, we have devoted more attention to this topic and once again put the design of our heating chambers - in conjunction with the heating systems - to the test and carried out a comparative study:

SINTERING PROCESS	MEASUREMENT SERIES	FURNACE LOADING		POWER CONSUMPTION	Wh/cm ²
LONGTIME 7 H	1) HT-S / HT-S SPEED	1x Ø 100			67,80
	2) HTS-2/M/ZIRKON-120	2x Ø 120			28,07
	3)	2x Ø 120			32,94

CLASSIC 3,5 H	1) HT-S / HT-S SPEED	1x Ø 100		39,67
	2) HTS-2/M/ZIRKON-120	2x Ø 120		15,12
	3)	2x Ø 120		16,98

SPEED ≤ 90 MIN	1) HT-S / HT-S SPEED	1x Ø 100		35,36
	2) HTS-2/M/ZIRKON-120	2x Ø 120		9,94
	3)	2x Ø 120		10,41

MEASURING PROCESS

Basics

Unit size:HTSMains voltage:230VDevice loading:the max. possible capacity

Sintering process

Sintering process with a process time of approx. 7hLONGTIMESintering process with the process time of approx. 3,5hCLASSICSintering process with a process time of approx. 90min.SPEED

Measurement series

Measuring series 1Model types:HT-S and HT-S SPEEDMeasurement series 2Model type:HTS-2/M/ZIRKON-120Measurement series 3Newly constructed heating chambers of size HTS-2.
Here, insulation materials, material thicknesses and various designs of the heating chambers were varied.
However, the decisive prerequisites were equipment approval and compliance with standards, as well as the quality of the individual insulation materials.

Evaluation

Power consumption Wh/cm²

Result:

Wh/cm²:

This comparison clearly shows that the current model "HTS-2/M/ZIRKON-120" outperforms all other series and is currently the best solution for dental laboratories with a medium to high workload.

Conclusion:

An optimized heating system in combination with optimized zirconium materials can make a significant contribution to improving energy efficiency. – We stay tuned!



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