

Zirkonzahn®

ZIRKONOFEN 600/V4

ZIRKONOFEN 600/V4 SINTERING FURNACE

Efficient, innovative, energy-saving

ZIRKONOFEN 600/V4

With the new Zirkonofen 600/V4 sintering furnace, we are setting new standards in terms of efficiency. The automated furnace door, which ensures optimised cooling as well as increased maximum heating rates of up to 60 °C/min., enables faster sintering of thin structures. The sintering chamber can contain up to 60 zirconia elements, which can be sintered with a power requirement of less than 1.5 kWh. In addition, the Zirkonofen 600/V4 sintering furnace offers new possibilities in terms of user-friendliness. The user can create individual sintering programs both via the touchscreen on the furnace or via the new Zirkonzahn.App. For maximum reliability, all processes of the sintering furnace can be viewed and monitored via app.



AUTOMATED FURNACE DOOR

The new furnace control system, developed in-house, monitors and controls the temperature curve in the sintering chamber with a control accuracy of ± 2 °C at 1600 °C. The automated furnace door ensures maximum linear cooling rates as well as optimal temperature curve maintenance during the cooling process for the best possible sintering results.



INTELLIGENT SOFTWARE

A 7" touchscreen enables intuitive operation of the sintering furnace. In addition, the user can install OTA updates independently via LAN or WiFi, add new functions and modify settings. The new Zirkonzahn.App allows a remote control of the furnace as well as the creation of new sintering programs directly on the smartphone.

- 66 %
time*

- 61 %
electric consumption*

FEATURES OVERVIEW

- + Speed sintering of zirconia in less than 3 hours
- + Up to 60 zirconia elements can be sintered in one sintering process
- + Maximum sintering temperature of up to 1700 °C
- + Control accuracy of +/- 2 °C at a final temperature of 1600 °C
- + Possibility to calibrate the temperature independently
- + 2 MoSi₂ high-performance heating elements
- + Sintering chamber capacity of 0.6 l
- + Heating rates of up to 60 °C/min.
- + Cooling rates of up to 40 °C/min.
- + Over 1500 min. maximal sintering time per program
- + Baking Recovery Function
- + Compact, modern design with high-quality full glazing



*Comparison between the Standard program and the new Speed program



NEW! ZIRKONOFEN 600/V4

TECHNICAL DATA

Size (W x H x D)	39 x 69 x 45 cm
Weight	55 kg
Electrical power	1500 W
Mains voltage	110 – 240 V~ / 50 – 60 Hz
Sintering chamber capacity	0.6 l
Sintering chamber (W x H x D)	6 x 10 x 10 cm
Max. temperature	1700 °C
Materials	Zirkonzahn zirconia, Zirconia from other manufacturers
Vacuum	No
Capacity	Up to 60 zirconia elements (with sintering trays)

HEATING AND COOLING RATES

Heating rates	Room temperature – 300 °C	50 °C/min.
	300 °C – 1100 °C	60 °C/min.
	1100 °C – 1500 °C	25 °C/min.
	1500 °C – 1700 °C	15 °C/min.
Cooling rates	1700 °C – 1200 °C	-40 °C/min.
	1200 °C – 800 °C	-25 °C/min.
	800 °C – 400 °C	-15 °C/min.
	400 °C – Room temperature	-10 °C/min.



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