

KERAMOS M Dental Zirconia Sintering Furnace

Description

Keramos M series with maximum continuous operation temperature of 1650 °C is a furnace specially designed for Zirconium Dioxide (ZrO₂) Dental Restorations sintering.

The furnace is a stand-alone device equipped with embedded controllers and electrical circuits to perform a Zirconia sintering program. Standard equipped with a Digital LCD display temperature controller providing 15 step programming with 1 program storage.

A Windows Tablet PC optionally delivered with the furnace running the specially designed **KeraWorks** Software, or any other computer, use as a human interface to the device. After programming and downloading the program to the furnace processor the computer could be disconnected and re-connected any time without interrupting the executed program.

The system programming is open and is suitable for various supplier materials. Windows architecture **KeraWorks** Software provide friendly and easy to use programming and monitoring environment.

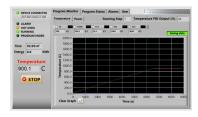
The furnace is heated through the Kanthal Molybdenum Di-silicide elements. The high purity of this elements in addition to the low bulk evaporation rate significantly reduce the risk of translucent Zirconia discoloration.

The furnace package includes a set of Zirconia Toughened Alumina Sintering Bowl and Lid.



as a result of design improvements.

KeraWorks control and monitoring software.





- Programming with up to 15 Temperature programming steps. Graphical inspection.
- Storage and reload of unlimited number of distinct programs.
- Continuous monitoring of Temperature. Real time graphical presentation of executed program data.
- Data file creation for all executed programs. Saves all data on local memory.
- Real time actual Power (W) and totalized Energy (kWh) chart.
- Alarm and event message tab. Overheating Alarm, open Thermocouple Alarm, Heater Alarm.
- Programmable over temperature limiter monitor/configuration.
- Remote control through network connection.
- Power Safe, Uninterrupted Power Supply backup configuration. Recovers program after short term power failure.
- Unattended operation, can be programmed to start and finish a program overnight.

Specifications:

• Maximum/continuous temperature 1650 °C.

- Operating Power:
- B type (PtRh/Rt) embedded thermocouple. Resolution 0.1 °C
- Temperature control accuracy ± 1 °C.
- Resistors type: Kanthal Super, MoSi2, fully exposed.

Optional features:

• 10.1in Windows Tablet PC running the specially designed KeraWorks Software.

Add suffix TSC

230 VAC - 50/60Hz. 115 VAC - • Programmable stand-alone over-temperature limiter (Watchdog) with manual reset in accordance with EN 60519-2 to protect the heater and load.

Add suffix WD

• UPS (Uninterrupted Power Supply). Keep system alive for short periods of power failure and restore program after power recovery

Add suffix UPS

Additional Sintering Bowl order

• ZTA Sintering Bowl Diameter 120mm

P/N: ZTA-SB-C-120

- ZTA Bowl Lid Diameter 120mm P/N:ZTA-SL-C-120
- ZTA Sintering Bowl Diameter 100mm

P/N: ZTA-SB-C-100

• ZTA Bowl Lid Diameter 100mm P/N:ZTA-SL-C-100



TABLE1. KERAMOS M series Models

| Model Part Number | Heat up time (min) | Furnace int. dim. WxHxD mm | Nominal Heated Vol. (Liters) | Furnace ext. dim. WxH*xD mm | Standard package Sintering Bowl | Max Sintering Bowl Capacity | Max. Power Watt |
|----------------------|--------------------------|----------------------------------|------------------------------------|-----------------------------------|---------------------------------------|--------------------------------------|-----------------------|
| KERAMOS M1 | 65 | 110x120x120 | 1 | 450x570x410 | 1xΦ100x30mm | 2 | 1600 |
| KERAMOS M3 | 75 | 130x180x130 | 3 | 470x630x430 | 1хФ120х30mm | 3 | 2000 |

^{*} Plus 100 mm for chimney. When Door is open add 180mm.

CE Certified. Compliant with Low Voltage Directive 2006/95/EC (harmonized referenced standard EN 61010-1: 2001 and EN 61010-2-010:2003) and EMC Directive 2004/108/EC (harmonized referenced standard EN 61326-1:2006)

HELLENIC PRODUCT.



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