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DEKEMA

Der Ofen.™



AUSTROMAT™ μSiC™

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The sintering flagship – designed for milling centers.

STRONG – DURABLE – PRODUCTIVE

- Specially designed for sintering huge amounts of milled dental restaurations
- Sintering of more than 120 units in one sintering cycle
- DEKEMA-specific SiC heating technology with three heating elements ensures sintering temperatures of up to 1600 °C
- No discoloration of the sintered material
- DEKEMA Autodry™ – around 70 % shorter cycles possible
- Fast and energy-saving heating and cooling processes for short sintering times
- Network access and quality management already integrated
- Free programming
- Control and creation of online diagnostics via mobile devices
- Processes can be adjusted during operation via remote access
- Extensive backup and recovery functionality integrated

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DEKEMA. Firing chamber.

- Specially designed, large-volume DEKEMA firing chamber
- Unsurpassed harmonic energy distribution
- Fiber insulation – pure quality and high precision execution

DEKEMA. SiC heating elements.

- DEKEMA specific, high purity SiC (silicon carbide) heating elements
- Homogeneous temperature distribution
- No discoloration
- Robust and durable
- Highest energy efficiency

DEKEMA. Tray system.

- Patented tray system for easy handling and piling
- Sintering in several levels
- Thermal shock resistant

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DEKEMA. Lift system.

- Vibration-free lift movement
- Durable, maintenance-free stainless steel mechanical parts
- Individually selectable drying position

DEKEMA Autodry™

DEKEMA Autodry™ simulates the object temperature and automatically regulates the distance between the firing object and the chamber. The vibration-free lift enables precise and accelerated drying, heating and cooling phases.

DEKEMA. Housing.

- Convection cooling integrated by design without separate fan
- Corrosion-free and lightweight aluminum housing
- Surface texture in matt silver or matt black

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DEKEMA. Accessories.
AUSTROMAT™ μSiC™

Heating element incl. screws, set 3x Art. # 100580

Heating element, SiC, set with cable
for use in AUSTROMAT™ μSiC™.



Thermocouple μSiC™, set Art. # 100506

Thermocouple for use in AUSTROMAT™ μSiC™.



Calibration set, high temperature furnaces Art. # 101916

Calibration set for exact temperature adjustment of high temperature furnaces after evaluation of the PTC ring at DEKEMA (scope of delivery).



Tweezers, DEKEMA logo Art. # 105236

Furnace tweezers for safe handling of firing objects.



Gripper, DEKEMA logo Art. # 101921

Gripper for safe handling of sintering accessories with Ø 100 mm.



SinterPlace set, Ø 100 mm Art. # 105836

SinterPlace set, Ø 100 mm, set, consisting of insulating body, firing table ring, Ø 100 mm, 36 mm height and pliers, for secure placement of the firing table Basis Hybrid.



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DEKEMA. Accessories. AUSTROMAT™ μSiC™

Insulation table, μSiC™ Art. # 101263

Insulating table in combination with firing table ring for use in AUSTROMAT™ μSiC™.



Firing table ring, Ø 100 mm, 36 mm height Art. # 105317

Firing table ring, Ø 100 mm, 36 mm height, standard spacer for sintering planes.



Firing table ring, Ø 100 mm, 28 mm height Art. # 105462

Firing table ring, Ø 100 mm, 28 mm height, low spacer for sintering planes.



Firing table, basis hybrid, Ø 100 mm Art. # 105648

Firing table basis hybrid, Ø 100 mm, can be used on both sides, low trough and with numbered cavities, for sintering.



Sintering beads, Micro Pearls (200 g) Art. # 105262

Sintering beads for distortion-free sintering of objects in the firing table basis hybrid Ø 100 mm and firing table basis trough Ø 65 mm.



Fuse (10 pieces), 5 x 20 mm, 16 A, 230 V Art. # 100512

Fuse (10 pieces), 5 x 20 mm, 16 A, 230 V, for high temperature furnaces.



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DEKEMA. Device equipment.

	AUSTROMAT™ 664	AUSTROMAT™ 664*i*™	AUSTROMAT™ 674	AUSTROMAT™ 674*i*™	AUSTROMAT™ *µ*SiC™
Size (W x H x D)	15,08" x 30,71" x 13,50"	15,08" x 30,71" x 13,50"	15,08" x 30,71" x 13,50"	15,08" x 30,71" x 13,50"	16,38" x 38,98" x 23,70"
Weight	46 lbs	51 lbs	53 lbs	55 lbs	172 lbs
Power consumption	220 – 240 V / 50 – 60 Hz	220 – 240 V / 50 – 60 Hz	220 – 240 V / 50 – 60 Hz	220 – 240 V / 50 – 60 Hz	100 – 240 V / 50 – 60 Hz
Maximum power consumption	2.000 W	2.000 W	2.000 W	2.000 W	2.000 W
T_{max} 1.530 °C / 1.560 °C / 1.600 °C	✓ / optional / –	✓ / ✓ / –	✓ / optional / –	✓ / ✓ / optional	✓
Touchscreen	7,5", color	10,4", color	7,5", color	10,4", color	–
USB interface / Ethernet interface	✓ / optional	✓	✓ / optional	✓	✓
USB terminal	–	–	–	–	✓
DEKEMA AutoDry™	✓	✓	✓	✓	✓
Housing: Aluminum	✓	✓	✓	✓	✓
Corporate Design Customization	optional	optional	optional	optional	–
DEKEMA specific SiC heating element: high purity heating elements made of SiC (silicon carbide), firing at high temperatures, no discoloration	✓	✓	✓	✓	✓
Multi-compund fiber insulation: Multilayer insulation for sintering at high temperatures	✓	✓	✓	✓	✓
Fiber insulation table: For firing porcelain, adapted to the dimensions of the furnace	✓	✓	✓	✓	✓
Sintering accessories: sintering in one level	✓	✓	✓	✓	✓
Sintering accessories: sintering in second level	optional	optional	optional	optional	✓
Sintering accessories: sintering in third level including gripper for reliably loading and unloading	–	–	–	–	✓
Micro-Pearls: non deforming sintering of dental restorations	optional	optional	optional	optional	optional
Sintering plate for Micro-Pearls	✓	✓	✓	✓	optional

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DEKEMA. Software features.

	AUSTROMAT™ 664	AUSTROMAT™ 664*i*™	AUSTROMAT™ 674	AUSTROMAT™ 674*i*™	AUSTROMAT™ *µ*SiC™
DEKEMA Internet database access for registered users	✓	✓	✓	✓	✓
DEKEMA Internet database furnace connectivity	optional	✓	optional	✓	✓
Internet program streaming	–	✓	–	✓	–
DEKEMA Circle: Data Management in the Cloud	–	✓	–	✓	–
IoT (Internet of Things: If the DEKEMA furnace is registered at DEKEMA online you profit from a secure backup of the process data and fast service to minimize downtime.)	–	✓	–	✓	–
myDEKEMA: VNC-Viewer for remote control	optional	✓	optional	✓	✓
X-DREAM: Computer program for querying the furnace state and emailing QM data	optional	✓	optional	✓	✓
QM (quality management): Record of process files	optional	✓	optional	✓	✓
USB: Transferring sintering programs (dds)	✓	✓	✓	✓	✓
USB: Transferring fotos (jpeg)	✓	✓	✓	✓	✓
USB: Storage of QM files (dfl)	optional	✓	optional	✓	✓
USB: Storage of Printouts	✓	✓	✓	✓	✓
USB: Backup / Update	✓	✓	✓	✓	✓
Internet: Backup / Update	optional	✓	optional	✓	✓
FTP-Server	optional	✓	optional	✓	✓
FTP-Client	optional	✓	optional	✓	✓
VNC-Server: VNC viewer for remote control of the DEKEMA furnace on the PC	optional	✓	optional	✓	✓
OPC: Software server to incorporate quality management into ERP systems	optional	✓	optional	✓	optional
Programing languages	Classic	Classic, Professional, Chairside	Classic	Classic, Professional, Chairside	Classic

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