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DEKEMA

Der Ofen.™



AUSTROMAT™ 220

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The DEKEMA for starters. No compromise on results.

COMPACT – PRECISE – FULL-FEATURED

- Stand-alone furnace with optional vacuum pump
- 13 kg stable
- Long-lasting quality, using noble, light materials
- Firing, glazing, crystallization and infiltration with and without vacuum
- Place – power – perform

DEKEMA. Chamber.

- Well known from the high quality AUSTROMAT™ Series 6 firing furnace
- Designed decades ago, operated for decades, optimized over decades
- Unique, homogeneous energy distribution
- Fiber insulation of purest quality in highest precision design

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DEKEMA. Heating.

- Well known from the high quality AUSTROMAT™ Series 6 firing furnace
- Manufactured in house by DEKEMA
- Unsurpassed durability and longevity

DEKEMA. Firing table.

- Well known from the high quality AUSTROMAT™ Series 6 firing furnace
- Physically defined fiber insulation table of outstanding purity
- Usable with common firing trays

DEKEMA. Casing.

- Fan free, integrated convection cooling
- Corrosion free, lightweight aluminum housing
- Kept in matt black

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DEKEMA. Thermocouple & Control.

- Well known from the high quality AUSTROMAT™ Series 6 firing furnace
- Platinum/platinum-rhodium thermocouple of the purest quality and a controlled accuracy far below 1°C
- Temperature calibration at only one measuring point through the DEKEMA calibration set, unmatched in precision

DEKEMA. Lift system.

- Smooth lift movement
- Durable stainless steel design
- Freely selectable drying position

DEKEMA. User Interface.

- Language independent icon surface
- Touch operation with 100 programs
- Independent vacuum start

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Optional.
For maximum flexibility.

DEKEMA. Vacuum pump.

- Self-cooling aluminum heads
- Low contamination Trenn Coat™ coating
- Straight air flow
- Low maintenance design
- Self-cleaning feature
- Specific shell

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DEKEMA. Accessories. AUSTROMAT™ 220

Vacuum pump (100 V, 50 – 60 Hz) Art. # 105205
Vacuum pump (115 V, 50 – 60 Hz) Art. # 105203
Vacuum pump (230 V, 50 – 60 Hz) Art. # 105201

Vacuum pump, version DEKEMA 838.3 R, durable and low-maintenance, with coated, flow-optimized aluminum pump heads and special vacuum guide for highest vacuum performance.



Ventilation unit, external (100 V, 50 – 60 Hz) Art. # 106498
Ventilation unit, external (115 V, 50 – 60 Hz) Art. # 106499
Ventilation unit, external (230 V, 50 – 60 Hz) Art. # 106500

Ventilation unit for connecting a vacuum pump to vacuum furnaces without integrated solenoid valve.



Silver wire calibration set, standard Art. # 101817

Silver wire calibration set for exact temperature adjustment of firing furnaces, as well as of press furnaces with single-plunger press system.



Tweezers, DEKEMA logo Art. # 105236

Furnace tweezers for safe handling of firing objects.



Firing tray, set Art. # 106490

Firing tray, set of temperature-optimized honey-comb tray and 10 ceramic pins for exact positioning of firing objects.



Firing table, fibre Art. # 101733

Firing table for use in furnaces with fiber insulation.



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DEKEMA. Device equipment.

	AUSTROMAT™ 220	AUSTROMAT™ 624	AUSTROMAT™ 624*i*™
Size (W x H x D)	10,47" x 20,91" x 10,16"	15,08" x 25,71" x 13,50"	15,08" x 25,71" x 13,50"
Weight	28,5 lbs	38,5 lbs	42 lbs
Power supply	95 – 105 V / 50 – 60 Hz or 110 – 125 V / 50 – 60 Hz or 220 – 240 V / 50 – 60 Hz	95 – 105 V / 50 – 60 Hz or 110 – 125 V / 50 – 60 Hz or 220 – 240 V / 50 – 60 Hz	95 – 105 V / 50 – 60 Hz or 110 – 125 V / 50 – 60 Hz or 220 – 240 V / 50 – 60 Hz
Maximum power supply	1.500 W	1.500 W	1.500 W
T_{max}	1.100 °C	1.200 °C	1.200 °C
Touchscreen	4,3", color	7,5", color	10,4", color
USB interface / Ethernet interface	– / –	/ optional	
DEKEMA Autodry™	–		
Housing: Aluminum			
Corporate Design Customization	–	optional	optional
Quartz glass heating element: DEKEMA specific heating element coil guided in pure quartz glass			
Fiber insulation: DEKEMA specific fiber insulation			
Fiber insulation table: For firing porcelain, adapted to the dimentions of the furnace			
DEKEMA vacuum pump	optional		
DEKEMA ventilation unit	optional	integrated	integrated

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DEKEMA. Software Features.

	AUSTROMAT™ 220	AUSTROMAT™ 624	AUSTROMAT™ 624*i*™
DEKEMA Internet database access for registered users	✓	✓	✓
DEKEMA Internet database furnace connectivity	–	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.)	–	–	✓
iDREAM: VNC-Viewer for remote control	–	optional	✓
X-DREAM: Computer program for querying the furnace state and emailing QM data	–	optional	✓
QM (quality management): Record of process files	–	optional	✓
USB: Transferring firing programs (dds)	–	✓	✓
USB: Transferring fotos (jpeg)	–	✓	✓
USB: Storage of QM files (dfl)	–	optional	✓
USB: Storage of Printouts	–	✓	✓
USB: Backup / Update	–	✓	✓
Internet: Backup / Update	–	optional	✓
FTP-Server	–	optional	✓
FTP-Client	–	optional	✓
VNC-Server: VNC viewer for remote control of the DEKEMA furnace on the PC	–	optional	✓
OPC: Software server to incorporate quality management into ERP systems	–	optional	optional
Programming languages	–	Classic, Easy, Professional	Classic, Easy, Professional, Professional Plus
Language-independent program management	✓	–	–

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