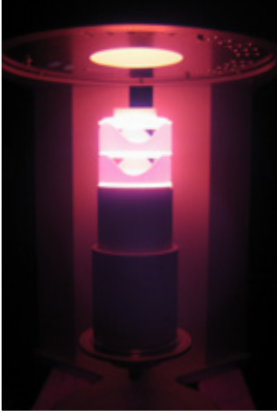




**DEKEMA Dental-Keramiköfen GmbH**  
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## DEKEMA Dental-Keramiköfen

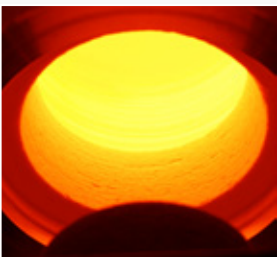


Every ceramic restoration is unique: Unique in aesthetics, precision and function – a work of art that approximates nature as closely as possible. Creative freedom is therefore the highest goal of DEKEMA®. Our dental ceramic furnaces offer maximum reliability, dependable performance and consistent quality of results which combine to yield superior prosthetics.

DEKEMA® has a long tradition of being a forerunner and innovator on an international level. We have decades of experience with every component of our products. As a fully independent manufacturer, we are equally experienced with the full range of ceramic framework and veneer materials. For many experts in dental ceramics on every continent, DEKEMA® is the first choice.

Experience the world of DEKEMA® every day in your laboratory. Our partners also offer the highest level of service. Fast support is a matter of course, as is the rapid and unbureaucratic provision of replacement equipment and support for new developments.

The high degree of satisfaction of our customers throughout the world did not come about by chance.



Dental ceramic furnaces by DEKEMA® are made exclusively of high-quality materials and are superior in their class.

This includes: Reproducible firing results, consistent performance, ease of operation, a high degree of flexibility in controlling the firing, and a free programming language that can be used to depict all pressing and firing procedures.

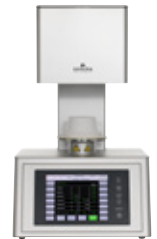
DEKEMA® develops and produces furnaces exclusively for the field of dentistry: Our units are precisely tailored to the demands of dental ceramics and the anatomy of restorations.

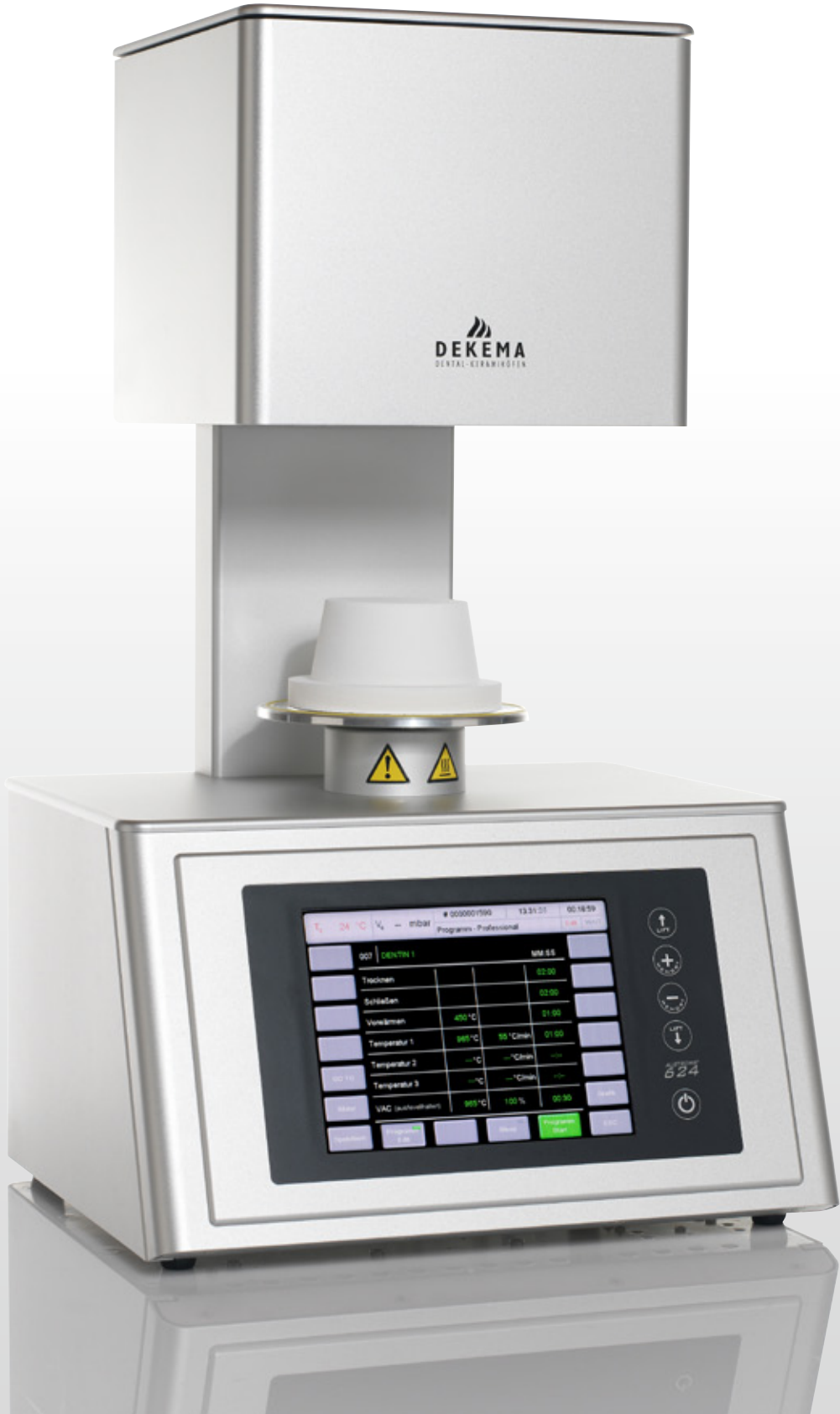
Performance, ease-of-use and outstanding firing results are the key characteristics of dental ceramic ovens by DEKEMA®.



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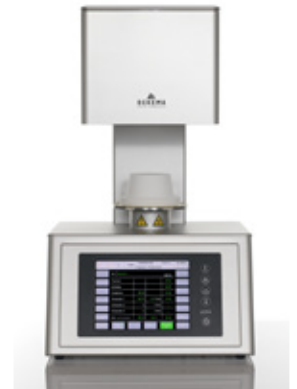
# AUSTROMAT<sup>®</sup> 624

## Furnace for firing porcelain under vacuum

- Outstanding firing results
- Easy to use Program Manager with 200 programs
- Intuitive program entry
- Large, scratch-resistant glass touchscreen
- USB interface for easy data transfer, software updates or operation using a mouse
- Autodry<sup>®</sup> – for precise drying and cooling

### Options:

- Connection to the DEKEMA<sup>®</sup> Internet database
- Can be operated using a PC or Mac via a JAVA<sup>™</sup> Internet browser
- Can be operated via an iPod<sup>®</sup> touch, iPhone<sup>®</sup> or iPad<sup>®</sup>
- Extensive quality management options



### DEKEMA<sup>®</sup> Autodry<sup>®</sup>:

Simulates object temperature measurement and automatically regulates the distance from between the firing object and the firing chamber with the vibration-free lift for precise drying and cooling phases. The Autodry<sup>®</sup> has been refined and adapted to the requirements of modern ceramics.

### Automatic self-test:

Internal test routines seamlessly monitor the temperature while the program is running.

### Check program:

An automatic diagnosis routine is integrated for all system components to determine the service intervals.

### Setup:

Units, language, date, time, screen settings, network (optional), general code, furnace ID, acoustic signal, drying temperature, heating settings, long-term readiness, lift settings, check program, cleaning firing, temperature calibration, seal tests, printer, quality management (optional), diagnosis data, login data(optional), backup/recovery, FTP server login (optional) and much more.

### Network (optional):

JAVA<sup>™</sup> technology for use via IE, Firefox, Opera, Safari etc.; supports cable-connected devices with automated IP address (DHCP); FTP client/server; OPC server support

### Connections:

2 USB, 1 Ethernet (RJ 45)

### Scope of delivery:

AUSTROMAT<sup>®</sup> 624 ceramic furnace, vacuum pump, operating instructions, tweezers, device cable

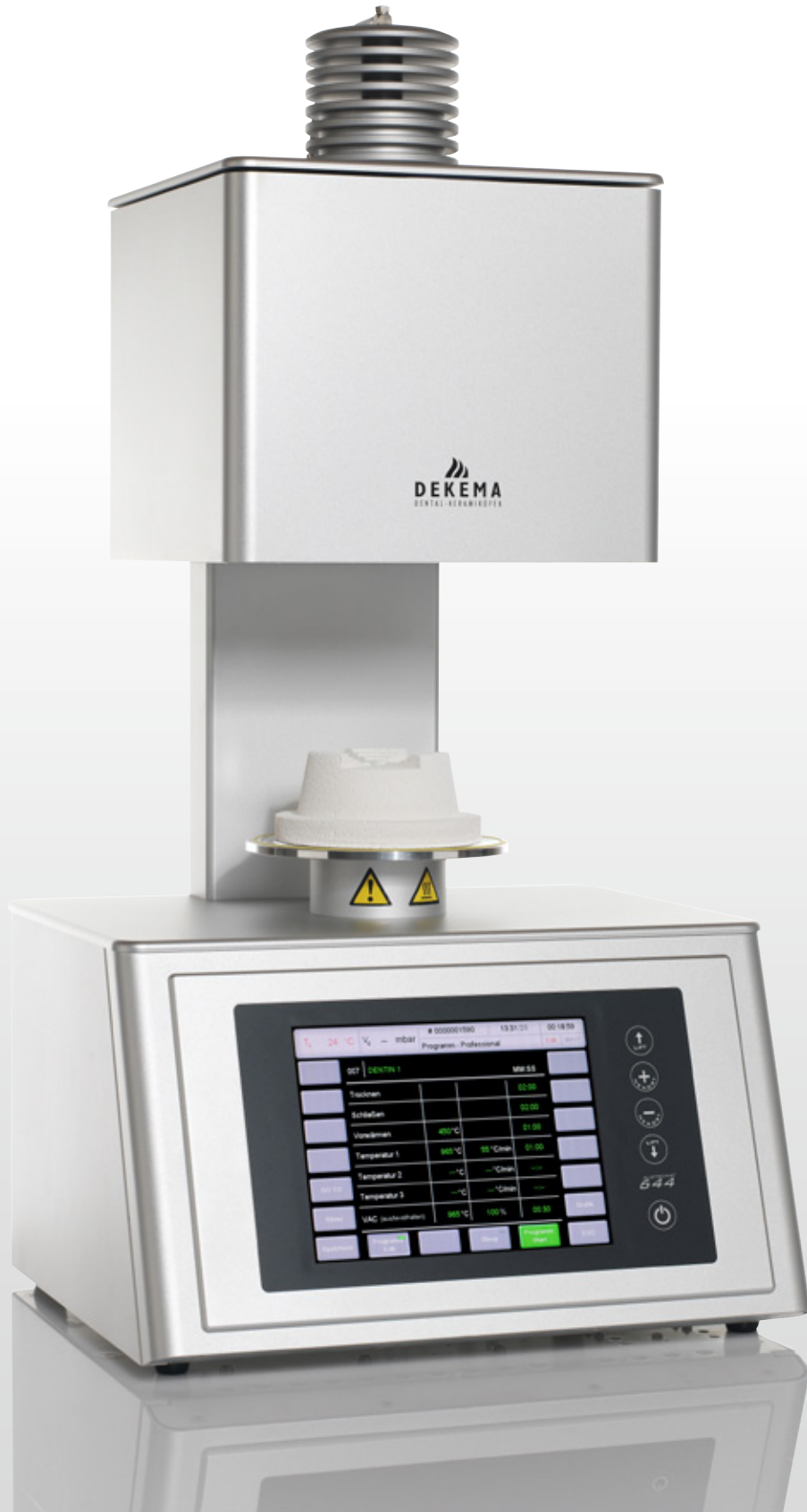
### Software options for expanding functionality (optional):

Internet access, JAVA<sup>™</sup> remote access, VNC remote access, Ftp server, Ftp client, quality management, X-DREAM<sup>®</sup>, OPC server

### Technical data:

220-240 V, 110-120 V or 95-105 V, 50-60 Hz, max. 1450 W (incl. pump), 653 mm x 380 mm x 338 mm (HxWxD), 17.5 kg (without pump).





# AUSTROMAT<sup>®</sup> 644

## Combi-furnace for firing and pressing porcelain under vacuum

- Outstanding pressing and firing results
- Patented vacuum pressing system – no compressed air connection is necessary
- Easy to use Program Manager with 200 programs
- Intuitive user-oriented user interface
- Large, scratch-resistant glass touchscreen
- USB interface for easy data transfer, software updates or operation using a mouse
- Autodry<sup>®</sup> – for precise drying and cooling

### Options:

- Connection to the DEKEMA<sup>®</sup> Internet database
- Can be operated using a PC or Mac via a JAVA<sup>™</sup> Internet browser
- Can be operated via an iPod<sup>®</sup> touch, iPhone<sup>®</sup> or iPad<sup>®</sup>
- Extensive quality management options

### DEKEMA<sup>®</sup> Autodry<sup>®</sup>:

Simulates object temperature measurement and automatically regulates the distance from between the firing object and the firing chamber with the vibration-free lift for precise drying and cooling phases. The Autodry<sup>®</sup> has been refined and adapted to the requirements of modern ceramics.

### Automatic self-test:

Internal test routines seamlessly monitor the temperature while the program is running.

### Check program:

An automatic diagnosis routine is integrated for all system components to determine the service intervals.

### Setup:

Units, language, date, time, screen settings, network (optional), general code, furnace ID, acoustic signal, drying temperature, heating settings, long-term readiness, lift settings, check program, cleaning firing, temperature calibration, seal tests, printer, quality management (optional), diagnosis data, login data (optional), backup/recovery, FTP server login (optional) and much more.

### Network (optional):

JAVA<sup>™</sup> technology for use via IE, Firefox, Opera, Safari etc.; supports cable-connected devices with automated IP address (DHCP); FTP client/server; OPC server support

### Connections:

2 USB, 1 Ethernet (RJ 45)

### Scope of delivery:

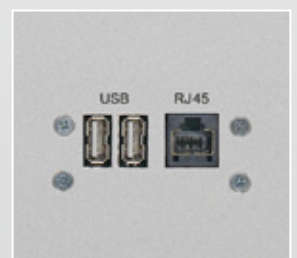
AUSTROMAT<sup>®</sup> 644 ceramic furnace, firing table, press table, vacuum pump, operating instructions, tweezers, device cable

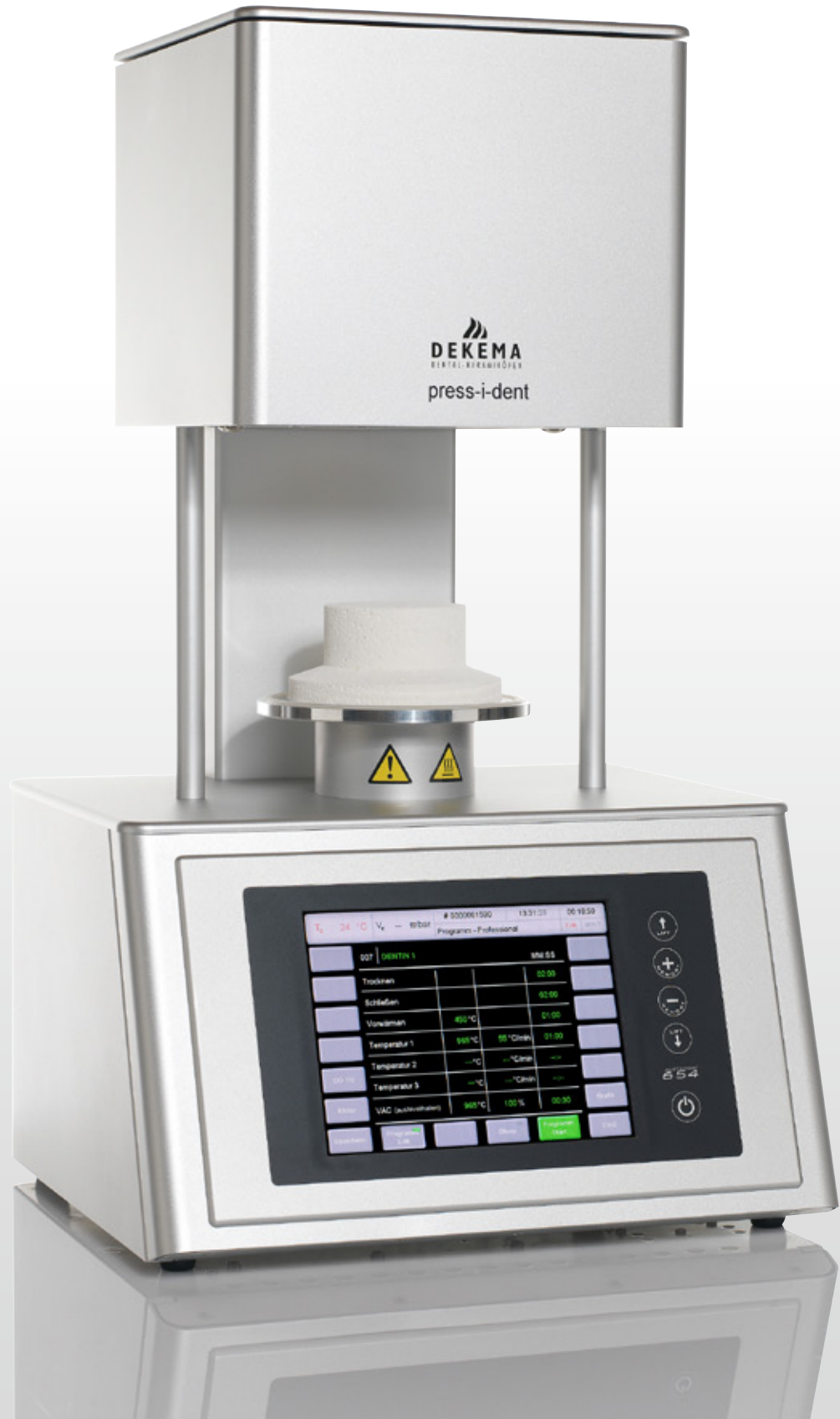
### Software options for expanding functionality (optional):

Internet access, JAVA<sup>™</sup> remote-access, VNC remote-access, FTP server, FTP client, quality management, X-DREAM<sup>®</sup>, OPC server

### Technical data:

220-240 V, 110-120 V or 95-105 V, 50-60 Hz, max. 1450 W (incl. pump), 757 mm x 380 mm x 338 mm (HxWxD), 18.5 kg (without pump).







# AUSTROMAT<sup>®</sup>

## 654 press-i-dent<sup>®</sup>

### Combi-furnace for pressing and firing porcelain under vacuum

- Outstanding pressing and firing results
- The electromechanical pressing system allows you to press using up to 5 plungers or 5 different shades simultaneously
- Easy to use Program Manager with 200 programs
- Intuitive user-oriented user interface
- Large, scratch-resistant glass touchscreen
- USB interface for easy data transfer, software updates or operation using a mouse
- Autodry<sup>®</sup> – for precise drying and cooling

#### Options:

- Connection to the DEKEMA<sup>®</sup> Internet database
- Can be operated using a PC or Mac via a JAVA<sup>™</sup> Internet browser
- Can be operated via an iPod<sup>®</sup> touch, iPhone<sup>®</sup> or iPad<sup>®</sup>
- Extensive quality management options

#### DEKEMA<sup>®</sup> Autodry<sup>®</sup>:

Simulates object temperature measurement and automatically regulates the distance from between the firing object and the firing chamber with the vibration-free lift for precise drying and cooling phases. The Autodry<sup>®</sup> has been refined and adapted to the requirements of modern ceramics.

#### Automatic self-test:

Internal test routines seamlessly monitor the temperature while the program is running.

#### Check program:

An automatic diagnosis routine is integrated for all system components to determine the service intervals.

#### Setup:

Units, language, date, time, screen settings, network (optional), general code, furnace ID, acoustic signal, drying temperature, heating settings, long-term readiness, lift settings, check program, cleaning firing, temperature calibration, seal tests, printer, quality management (optional), diagnosis data, login data (optional), backup/recovery, FTP server login (optional) and much more.

#### Network (optional):

JAVA<sup>™</sup> technology for use via IE, Firefox, Opera, Safari etc.; supports cable-connected devices with automated IP address (DHCP); FTP client/server; OPC server support

#### Connections:

2 USB, 1 Ethernet (RJ 45)

#### Scope of delivery:

AUSTROMAT<sup>®</sup> 654 press-i-dent<sup>®</sup> ceramic furnace, firing table, press table, vacuum pump, operating instructions, tweezers, device cable

#### Software options for expanding functionality (optional):

Internet access, JAVA<sup>™</sup> remote access, VNC remote access, Ftp server, Ftp client, quality management, X-DREAM<sup>®</sup>, OPC server

#### Technical data:

220-240 V, 110-120 V or 95-105 V, 50-60 Hz, max. 1450 W (incl. pump), 653 mm x 380 mm x 338 mm (HxWxD), 22.0 kg (without pump).



# trixpress®



The DEKEMA® trixpress system includes ring sizes of 100g, 200g and 380g adapted to the functions of the AUSTROMAT® press-i-dent® furnace. The three sizes cover all pressing and overpressing techniques from individual crowns to 14-bridges bridges. Since the disposable placeholder can be arranged as desired, you can simultaneously process up to 30 g of porcelain and/or five different colors simultaneously during a single pressing procedure. The use of the press pellets can be optimized by distributing the porcelain to several plungers.

## Indications

- Pressing individual crowns
- Pressing multi-unit bridges.
- Pressing different shades
- Pressing different restoration materials
- Overpressing different framework materials
- Overpressing several small frameworks made of different materials
- Overpressing long frameworks

For every indication, follow the guidelines and processing instructions of the porcelain manufacturer.



## Options

The functions can be easily expanded by using software options. You can gradually expand the connection to the “digital dental laboratory” as needed.

### Internet access (DB)

The AUSTROMAT® can directly access the DEKEMA® database via the Internet. Several thousand firing, pressing and sintering programs by nearly every manufacturer of dental ceramics are saved in the free DEKEMA® database.

### JAVA™ remote access (JAVA)

You can easily control and monitor your furnace using your Internet browser.

### VNC remote-access (VNC)

Enables you to control and monitor the furnace on a network with an iPod® touch, iPhone® or iPad®. Free VNC apps can be downloaded from the iTunes store.

### FTP server (FTP-S)

Transfer firing programs, quality management reports or pictures to the furnace via an FTP connection.

### FTP client (FTP-C)

Transfer firing programs, quality management reports or pictures from the furnace via an FTP connection.

### Quality management (QM)

Pop-ups inform you about the completed firing program, and log files can be incorporated in digital quality management processes via the network or a USB.

### X-DREAM® software

Once it is started, the X-DREAM® program monitors the AUSTROMAT® via a network. If needed, detailed logs of the completed firings can be forwarded by e-mail. The program can be started several times so that several furnaces can be addressed and monitored simultaneously.

### OPC server

The connection to an OPC server allows ERP programs such as Oracle or SAP to directly access the system status, quality management logs or other required parameters via a network.

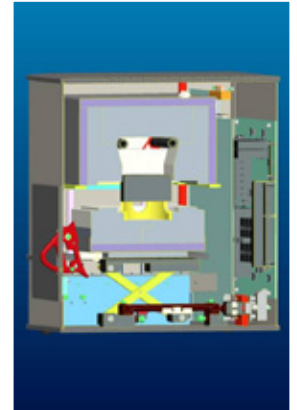
Functionality	Required software option					
	DB	QM	JAVA	VNC	FTP-S	FTP-C
Network connections (LAN, WLAN)	•					
Operating the furnace using a browser	•		•			
Operating the furnace using a VNC program	•			•		
FTP data transfer from the furnace	•					•
FTP data transfer to the furnace	•				•	
First level quality management, inside the furnace	•	•				
Second-level quality management (X-DREAM®), through an external computer	•				•	
Third level quality management, Incorporated in an external ERP system	•				•	



# AUSTROMAT<sup>®</sup> baSiC<sup>®</sup>

## High-temperature furnaces for sintering dental ceramics

- Temperature range from 50°C to 1,560°C
- 2 SiC heating elements
  - No discoloration
  - No contamination
  - Energy-saving
- Sinter individual copings within 90 minutes including cooling time
- Unrestricted programming options via a web browser
- Over 100 sets with 10 program memories
- Autodry<sup>®</sup> system
- Small set up area (approximately 55 cm x 45 cm)



### Setup:

Units, language, date, time, screen settings, network, general code, furnace ID, acoustic signal, drying temperature, heating settings, lift settings, check program, oxidation, temperature calibration, printer, quality management, diagnosis data, login data, back-up/recovery, and much more.

### DEKEMA<sup>®</sup> Autodry<sup>®</sup>:

Simulates object temperature measurement and automatically regulates the distance from the firing object with the vibration-free lift for precise drying and cooling phases.

### Automatic self-test:

Internal test routines seamlessly monitor the temperature while the program is running.

### Check program:

An automatic diagnosis routine is integrated for all system components to determine the service intervals.

### Network:

JAVA™ technology for use via IE, Firefox, Opera, Safari, etc.; supports cable-connected devices with automated IP address (DHCP); FTP client/server, OPC server support (optional), X-DREAM<sup>®</sup>

### Connections:

1 USB and 1 Ethernet (RJ45)

### Scope of delivery:

AUSTROMAT baSiC<sup>®</sup>, USB terminal, operating instructions, device cable

### Technical data:

100-240 V/50-60 Hz, max. 2000 W (adjustable);  
55 cm x 51 cm x 45 cm (width x height x depth), approximately 45 kg





# AUSTROMAT<sup>®</sup> $\mu$ SiC<sup>®</sup>

## High-temperature furnaces for sintering dental ceramics

- Temperature range from 50°C to 1,600° C
- 3 SiC heating elements
  - No discoloration
  - No contamination
  - Energy-saving
- Sinter individual copings within 90 minutes including cooling time
- Unrestricted programming options via a web browser
- Over 100 sets with 10 program memories
- Autodry<sup>®</sup> system
- Small set up area (approximately 42cm x 60cm)



### Setup:

Units, language, date, time, screen settings, network, general code, furnace ID, acoustic signal, drying temperature, heating settings, lift settings, check program, oxidation, temperature calibration, printer, quality management, diagnosis data, login data, back-up/recovery, and much more.

### DEKEMA<sup>®</sup> Autodry<sup>®</sup>:

Simulates object temperature measurement and automatically regulates the distance from the firing object with the vibration-free lift for precise drying and cooling phases.

### Automatic self-test:

Internal test routines seamlessly monitor the temperature while the program is running.

### Check program:

An automatic diagnosis routine is integrated for all system components to determine the service intervals.

### Network:

JAVA™ technology for use via IE, Firefox, Opera, Safari etc.; supports cable-connected devices with automated IP address (DHCP); FTP client/server; OPC server support (optional)

### Connections:

1 USB and 1 Ethernet (RJ45)

### Scope of delivery:

AUSTROMAT<sup>®</sup>  $\mu$ SiC<sup>®</sup> ceramic furnace, multi-compound insulation table, USB terminal, operating instructions

### Technical data:

100-240 V/50-60 Hz, max. 2000 W (adjustable);  
42 cm x 98 cm x 60 cm (width x height x depth), approximately 75 kg



## Accessories for high-temperature furnaces



### Sintering tool:

The DEKEMA® sintering tool ensures a clean atmosphere in the furnace, especially at high temperatures. The design of the bases and rings is optimized for lasting durability and stability even at high temperature gradients. The overall stackable height in the AUSTROMAT®  $\mu\text{SiC}$ ® is 15 cm and can be divided into several levels.

With the AUSTROMAT *baSiC*®, sintering is carried out in a single level without a cover.



### Gripper tools:

The side openings in the DEKEMA sintering rings allow you to grip below the base with optional pliers and easily load and unload the high-temperature furnace.





## Overview

Features	AUSTROMAT <sup>®</sup>				
	624	644	654	baSiC <sup>®</sup>	μSiC <sup>®</sup>
Tmax [°C]	1.200	1.200	1.200	1.560	1.600
Touchscreen	7,5" color	7,5" color	7,5" color	n/a	n/a
Program languages	Easy Professional Classic	Easy Professional Press Classic	Easy Professional Press Classic	Classic	Classic
Pressfunctionality		•	•		
PTA (press time automatic)		•	•		
Housing: Aluminum, anodized	•	•	•	•	•
Quartz glass heating element: DEKEMA <sup>®</sup> -specific heating element coil guided in pure quartz glass.	•	•	•		
SiC heating element: for DEKEMA <sup>®</sup> -specific, highly pure heating elements made of SiC (silicone carbide), firing at high temperatures, no discoloration				•	•
Fiber insulation 6XX: DEKEMA <sup>®</sup> -specific fiber insulation	•	•	•		
Multi-compound fiber insulation: Multilayer insulation system for firing at high temperatures				•	•
Fiber insulation table: for firing ceramics, adapted to the dimensions of the furnace	•	•	•		
Stone insulation table: For pressing porcelain		•	•		
Multi-compound fiber insulation table: For firing at high temperatures				•	•
trixpress <sup>®</sup> : Ring former for pressing several units/shades; 100g, 200g and 380g			optional		
Package of μSiC sintering accessories: Three (3) bases and three (3) rings including pliers for reliably loading and unloading.					optional
USB interface: (Transmission of firing programs/image files (jpeg)/saving quality management files (dds))	2x(•/•/•)	2x(•/•/•)	2x(•/•/•)	(•/-/•)	(•/-/•)

## Overview

Software options	AUSTROMAT <sup>®</sup>				
	624	644	654	baSiC <sup>®</sup>	μSiC <sup>®</sup>
DB (Internet database): Ethernet interface for connecting to the DEKEMA <sup>®</sup> Internet database via LAN or WAN; includes the ethernet data cable.	optional	optional	✓	✓	✓
JAVA <sup>™</sup> : For online control and monitoring of all furnace functions via JAVA <sup>™</sup> in a HTML browser on a computer, requires the DB.	optional	optional	✓	✓	✓
VNC (Virtual Network Client): For online control and monitoring of all furnace functions via a VNC for computer, iPod <sup>®</sup> , iPad <sup>®</sup> and iPhone <sup>®</sup> ; requires the DB.	optional	optional	✓	✓	✓
FTP Server: The server to which the furnace transfers files via IP networks such as DSL files; requires a DB.	optional	optional	✓	✓	✓
FTP client: Connection for transferring files such as photographs via an external FTP server; requires a DB.	optional	optional	✓		
QM quality management: Record of process files in ASCII format. Printer connection via USB, day recording via a USB or a network, the network requires the DB.	optional	optional	✓	✓	✓
X-DREAM <sup>®</sup> : QM data access: A computer program for querying the status and sending DFL files via e-mail to a maximum of three e-mail addresses; requires the DB and an FTP server.	optional	optional	✓	✓	✓
OPC: A computer program for the server to incorporate quality management into ERP systems, requires the DB and FTP server. Support in incorporating quality management upon request for an additional fee.	optional	optional	optional	optional	optional

