

# AUSTROMAT<sup>®</sup> 624



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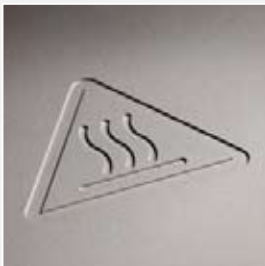
AUSTROMAT<sup>®</sup> 624: 200 standard firing programs can be clearly displayed in the program manager and are available for individual adaptation. Additional programs are either archived in the integrated memory in sets of 200 programs each, or simply loaded (optional) from the DEKEMA<sup>®</sup> database from the internet. At present several thousands of firing programs are available from nearly every dental ceramics manufacturer. Additional memory expansion or simple data transfers are also possible through the USB interface. The unique user interface of the AUSTROMAT<sup>®</sup> 624 can be operated using the large glass touch screen as well as the integrated web technology on each PC or Mac in the network (optional). A JAVA<sup>™</sup>-capable browser is all that is needed to contact the AUSTROMAT<sup>®</sup> 624 through a freely adjustable IP address (optional). By incorporating the furnace into the network environment, online diagnostics or updates of firing programs are also possible (optional). An optional VNC Client allows to directly connect to a PC, Mac, iPhone, iPad or iPod. A backup and recovery function through the USB interface reliably protects against data loss. Of course, firing programs can be retrieved or read out through the USB interface. In addition, the program runs can be recorded on a USB stick or accessed via FTP online (optional). The image viewer can also supply files via FTP (optional) or USB. These functions make it easy to connect to “digital dental laboratories.”

The high-resolution screen can graphically portray the firing process or show patient images. The menu-guided professional mode enables precise entry of the drying and cooling steps. When programming in standard mode, the user can easily integrate automated cooling steps.

Both of the detailed and the comprehensive programming needs of dental technicians can be accommodated in classic mode. The absolutely unrestricted classic programming language from the legendary AUSTROMAT<sup>®</sup> 3001 offers an up-to-date and comfortable way for inputting data. A QWERTZ keyboard on the large touch-sensitive glass screen can also be operated with a USB mouse. Firing cycles can be programmed in any sequence without any time limits. This absolutely unrestricted programming option enables the use of any and all firing techniques. For example, the muffle can be evacuated and vented multiple times during a firing cycle, thus preparing firing programs for future debonding and fusion techniques to be easily and rapidly programmed in the AUSTROMAT<sup>®</sup> 624.

The proven firing chamber concept and extremely precise temperature management guarantee excellent firing results both in the high-fusing as well as low-fusing-temperature range.

Using the traditional silver wire test yields superb repeatability. The maximum vacuum reliability of the AUSTROMAT<sup>®</sup> 624 is a reflection of standard DEKEMA<sup>®</sup> quality.



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

**Automatic self-test:** Internal test routines seamlessly monitor the temperature while the program is running.

**Check program:** An automatic diagnostics 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 test, printer, quality management (optional), diagnosis data, login data, back/recovery, FTP server login (optional) and many other functions.

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

**Connections:** 2 USB, 1 Ethernet (RJ 45)

**Content:** AUSTROMAT<sup>®</sup> 624 ceramic furnace, firing table, vacuum pump, operating instructions, tweezers, power cord

**Add-Ons (optional):** Internet database access, JAVA-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).

Easy Mode	Range	Interval	Unit
Dry temperature (Autodry <sup>®</sup> )	80 to 200	1	°C
Start temperature/ preheating temperature	100 to 700	1	°C
Drying time	00:00 to 99:59	00:01	min:s
Closing time	00:00 to 99:59	00:01	min:s
Preheating time	00:00 to 99:59	00:01	min:s
Vacuum level	0 to 100	10	%
Temperature increase	2 to 99 or max.	1	°C/min
Final temperature/ firing temperature	100 to 1200	1	°C
Holding period with/without vacuum	00:00 to 99:59	00:01	min:s
Cooling temperature	90% of end temperature		
Cooling time	00:00 to 99:59	00:01	min:s
Relaxation temperature	65% of end temperature		
Relaxation time	00:00 to 99:59	00:01	min:s



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Professional Mode	Range	Interval	Unit
Dry temperature (Autodry®)	80 to 200	1	°C
Start temperature/ preheating temperature	100 to 700	1	°C
Drying time	00:00 to 99:59	00:01	min:s
Closing time	00:00 to 99:59	00:01	min:s
Preheating time	00:00 to 99:59	00:01	min:s
Vacuum level	0 to 100	10	%
Vacuum off	100 to 1200	1	°C
Heat rate	2 to 99 or max.	1	°C/min
Final temperature/ firing temperature	100 to 1200	1	°C
Holding time with/without vacuum	00:00 to 99:59	00:01	min:s
Temperature rise/drop 2	2 to 99 or max.	1	°C/min
End/firing/cooling/relaxation temperature 2	100 to 1200	1	°C
Holding time with/without vacuum 2	00:00 to 99:59	00:01	min:s
Temperature rise/drop 3	2 to 99 or max.	1	°C/min
End/firing/cooling/relaxation temperature 3	100 to 1200	1	°C
Holding time with/without vacuum 3	00:00 to 99:59	00:01	min:s

Classic Mode	Range	Interval	Item
Temperature in the firing chamber	50 to 1200	1	°C
Lift position	0 to 9	1	open to closed
Vacuum in the firing chamber	0 to 9	1	0 to 100%
Time	1 to 64000	1	s
Active cooling when the firing chamber is closed	100 to 1200	1	°C
Active cooling when the firing chamber is open	100 to 1200	1	°C
Acoustic signal	1 to 9	1	number of tones
Temperature change rate	1 to 99	1	°C/min
Time-controlled temperature increase	100 to 1200	1	°C/time interval
Time-controlled lift movement	0 to 9	1	lift position/ time interval
... and much more	individually settable		