

# AUSTROMAT<sup>®</sup> 654 press-i-dent<sup>®</sup>



# AUSTROMAT® 654 press-i-dent®



AUSTROMAT® 654 press-i-dent®: The successor of the unique AUSTROMAT® 3001 press-i-dent® combines the unique and even optimized electromechanical pressing system of the famous first press-i-dent® with the foresighted electronics of the new, web based 6-Series AUSTROMAT® furnaces. 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® 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® 654 press-i-dent® 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™-capable browser is all that is needed to contact the AUSTROMAT® 654 press-i-dent® through a freely adjustable IP address (optional). By incorporating the furnace into the network environment, online diagnostics or updates 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 and pressing 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."

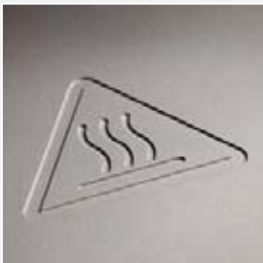
The high-resolution screen can graphically portray the firing process or show patient images. The menu-guided professional mode enables precise entry of the drying and cooling steps. When programming in standard mode, the user can easily integrate automated cooling steps. The use of an optimized PTA (Press Time Automatic), basically known from the AUSTROMAT® 3001 press-i-dent®, minimizes the cooling time of the pressed ceramic in the furnace and offers increased reliability.

Both of the detailed and the comprehensive programming needs of dental technicians can be accommodated in classic mode. The absolutely unrestricted programming language from the legendary AUSTROMAT® 3001 and AUSTROMAT® 3001 press-i-dent® 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 and pressing cycles can be programmed in any sequence without any time limits. This absolutely unrestricted programming option enables the use of any and all firing and pressing techniques. For example, the vacuum can be released while maintaining a specific pressure or different pressures can be used in a single procedure.

The controlled electromechanical feed of the innovative upward pressing system requires no extra connection for compressed air and opens up unique possibilities. For example, different shades (presently up to five) can be pressed simultaneously in a muffle ring in a single step (trixpress® muffle system not included in the scope of delivery) or pressings without vacuum are possible.

The closed insulating system enabled by the upward pressing movement guarantees outstanding firing results even in the high and low temperature range.

Using the traditional silver wire test yields superb repeatability. The maximum vacuum reliability of the AUSTROMAT® 654 press-i-dent® is a reflection of standard DEKEMA® quality.



optional

# AUSTROMAT<sup>®</sup> 654 press-i-dent<sup>®</sup>

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<sup>™</sup> 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> 654 press-i-dent<sup>®</sup> ceramic furnace, firing table, pressing 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), 22.0 kg (without pump).



Press Mode	Range	Interval	Unit
Start temperature/ preheating temperature	100 to 900	1	°C
Final temperature/ press temperature	100 to 1200	1	°C
Heat rate	2 to 99 or max.	1	°C/min
PTA (Press Time Automatic)	on / off		
Press time	00:20 to 99:59	00:01	min:s
Press level	0 to 9	1	10 to 300 N

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



# AUSTROMAT<sup>®</sup>

## 654 press-i-dent<sup>®</sup>

Professional 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	%
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
Pressure	0 to 9	1	10 to 300 N
PTA (Press Time Automatic)	1 to 9	1	10 to 90%
Press with/without vacuum	individually settable		
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		