

Programat®

A STORY OF SUCCESS

P500_{G2}



The new generation – For people
who love the special things in life

The new generation out of the ordinary

The second generation of the popular P500 furnace stands out for its operational ease and comes with a comprehensive range of new functions.

Special

The new Programat P500 is an extraordinary and extremely user-friendly furnace that unites high-tech performance with state-of-the-art design. The large, clear graphic display with touch-screen function adds colour to your laboratory and is only one of the highlights that will make working with this furnace a pleasure.

Tried-and-tested

The firing technology of the Programat furnaces is synonymous with innovation, quality and longstanding success. The proven QTK muffle technology and the automatic double-range temperature calibration (ATK 2) ensure optimum, reproducible firing results.

Innovative

Innovative features such as Cooling Shock Protection (CSP) and Thermo Shock Protection (TSP) provide enhanced process control.

Cost-effective

The Power Saving Technology employed in Programat P500 saves you money and protects the environment. The enhanced process control and highly reliable firing results make this furnace extremely cost-efficient.

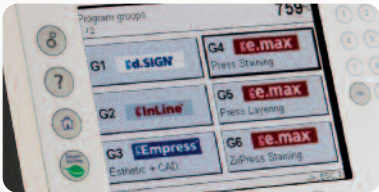


Outstanding ease of operation



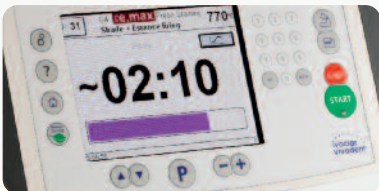
Colour graphic display with touch-screen function

The operating unit features a large, clearly arranged, swivel colour graphic display. The display can either be operated by means of the proven membrane-sealed keypad or the touch-screen function.



Simple, intuitive operation

Easy menu navigation by means of state-of-the-art icons allows the desired program or function to be accessed instantly. Select the program adjusted to your material - with a simple click.

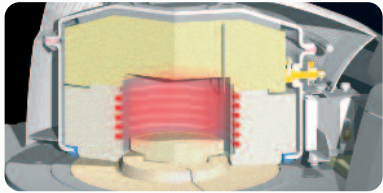


The operating status at a glance

The firing curve shown in colours, the time-remaining indicator, which can be displayed if desired, and the firing progress bar which features different colours will always keep you up-to-date about the current process, even from a large distance.

Yellow = Closing; Red = Heating; Magenta = Holding Time; Blue = Cooling.

Exceptional firing results



Homogeneous heat radiation through high-performance QTK muffle technology

The QTK muffle technology offers homogeneous distribution of heat within the firing chamber and leads to optimum firing results.



Precise temperature calibration with ATK2

Automatic double-range temperature calibration (ATK2): The ATK2 set enables fully automatic and exact temperature calibration and ensures high firing precision.



without TSP

with TSP

Enhanced process control due to a wide range of additional features

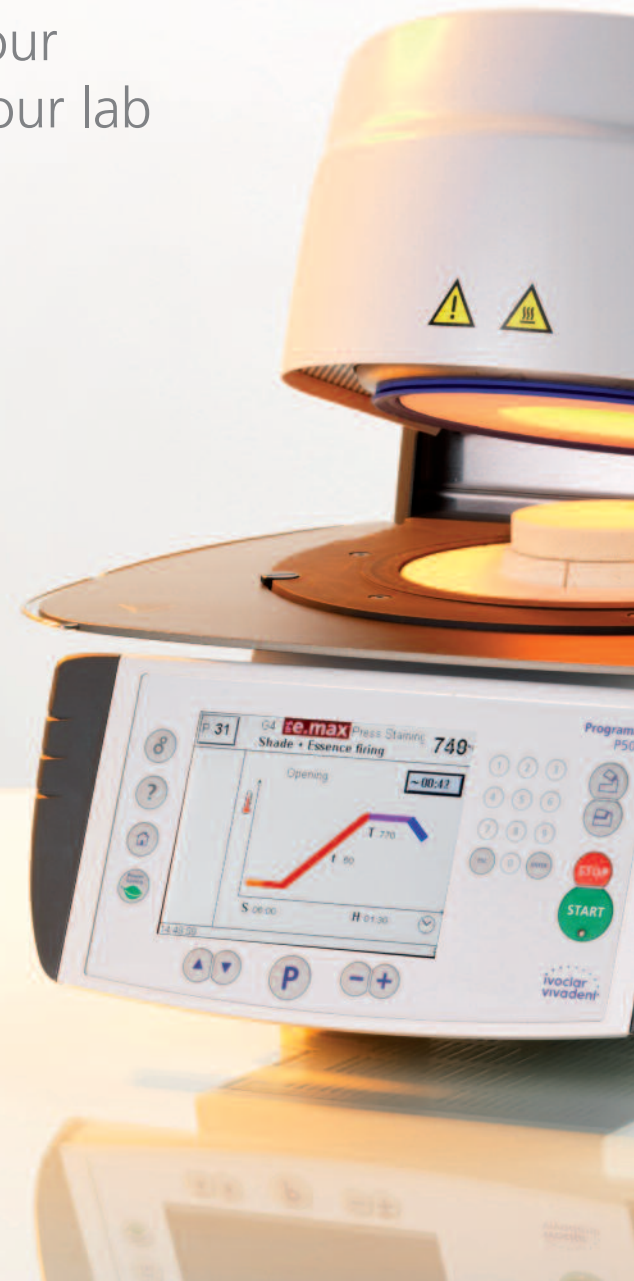
Thermo Shock Protection (TSP): The TSP function protects the ceramic against thermal shock if the furnace is closed when it is too hot.



with CSP

Cooling Shock Protection (CSP): The CSP function protects the ceramic against thermal shock while the furnace head opens after firing. The special opening process controlled by the CSP function ensures ideal cooling of the fired object, so that stresses in the ceramic are reduced.

Adding colour
to your lab





Additional features

- Compact, ergonomic design
- Large cooling tray
- Ease of maintenance due to removable furnace head
- Proven furnace head swivel mechanism
- Powerful heating (up to 140 °C t/min) that saves time
- Cost-effective operation due to long service life of the muffle
- Fast re-start due to quick cooling of the furnace head
- Individually adjustable pre-drying programs with selectable temperature and duration
- Remote control by PC using the software PrograBase 2
- Twelve different languages (German, English, Italian, Spanish, French, Portuguese, Swedish, Russian, Polish, Dutch, Turkish, Croatian)
- Practical program re-write protection
- Detailed error message display
- Various diagnostic programs to check function
- Dehumidification and maintenance program for heating muffle
- "Power Fail Save" to bridge short power interruptions
- Electronic Vacuum Control System (EVCS)

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Economical.

Efficient.

Future-oriented.

POWER
SAVING



Technology

Stand-by key saves power

Efficient use of energy and responsible use of valuable resources: Ivoclar Vivadent is committed to this goal. Therefore, the Programat P500 is equipped with the new Power Saving Technology. In the stand-by mode, the power consumption of the furnace drops by almost 40 percent. As a result, you save on electricity costs and help to protect our environment at the same time. Look out for the Power Saving Technology label on the back of your device.

Saving electricity is easy

Simply press the Power Saving key: If the furnace is not being used, briefly press the Power Saving key to activate the power-saving mode.

A coordinated system

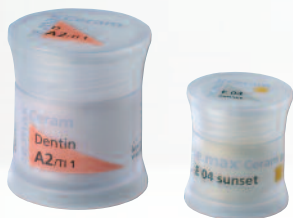
Programat P500 offers a wide array of standard firing programs which are coordinated with the ceramic materials from Ivoclar Vivadent. Because all the components are available from one manufacturer, optimum firing results can be achieved.



IPS InLine®



IPS Express®



IPS e.max®



IPS d.SIGN®



Ivoclar Vivadent alloys

Programat®

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Technical Data

Power supply	110 – 120 V, 50 – 60Hz 200 – 240 V, 50 – 60Hz admissible voltage fluctuations $\pm 10\%$
Max. power consumption	12 A bei 110 – 120 V 8.5 A bei 200 – 240 V
Vacuum pump data	Max power consumption: 2.1 A Final vacuum: < 50 mbar Only tested pumps should be used.
Display	Liquid crystal graphics display with touch screen and background lighting
Dimensions of fuses	110 – 120 V: 6.3 x 32 mm diameter 200 – 240 V: 5 x 20 mm diameter
Dimensions of closed furnace	Depth: 470 mm Width: 305 mm / 400 mm (with cooling tray) Height: 320 mm
Usable size of the firing chamber	Diameter: 80 mm Height: 48 mm
Max. firing temperature	1200 °C
Weight	Base: 12.6 kg Head: 4.5 kg
Safety information	The furnace is built according to the following standards: - IEC 1010-1 and EN 61010 - UL and cUL Standard
Radio protection/ Electromagnetic compatibility	EMC tested



VP3 easy



VP4



Delivery Form

- 1 Programat P500/G2
- 1 Electrical cord
- 1 Vacuum hose
- 1 Cooling tray "L"
- 1 Programat firing tray kit
- 1 Automatic Temperature Checking Set
ATK2 (test sample)
- 1 USB download cable
- 1 USB stick Programat
- 1 PrograBase 2 software
- 1 Equipment Service Passport
- 1 Set of Operating Instructions

Recommended accessories:

(not contained in the delivery form)

- VP3 easy or VP4 Vacuum Pump
- Tongs
- Automatic Temperature Checking Set 2
(ATK2)

Colour:

White (RAL 9016)



This product forms part of our "All-Ceramics" and "Implant Esthetics" competence areas. All the products of these areas are optimally coordinated with each other.

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