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.
Adding colour to your lab

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.

Exceptional 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.

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.

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.
• 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)
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 standby 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.

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 standby 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.
### Technical Data

**Power supply**
- 110 – 120 V, 50 – 60Hz
- 200 – 240 V, 50 – 60Hz
  - Admissible voltage fluctuations ±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

### Delivery Form

1. Programat P500/G2
2. Electrical cord
3. Vacuum hose
4. Cooling tray "L"
5. Programat firing tray kit
6. Automatic Temperature Checking Set
7. USB download cable
8. USB stick Programat
9. PrograBase 2 software
10. Equipment Service Passport
11. Set of Operating Instructions

**Recommended accessories:**

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

**Colour:**
- White (RAL 9016)

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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.