

Programat[®] S1

The exceptional sintering furnace



NEW 75 minutes is all it takes
As of software V 2.0

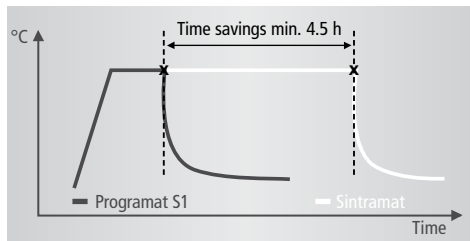
Sintering ZrO_2 restorations
has just become faster

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Programat® S1

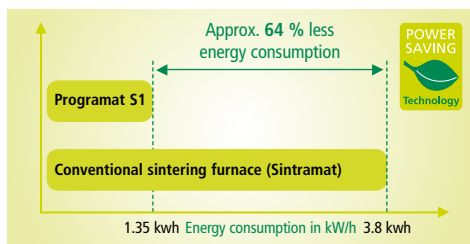
Faster and more efficient

Sintering of IPS e.max ZirCAD crown copings in just 75 minutes



Short sintering process saves a lot of time

The Programat S1 (as of software V 2.0) sinters restorations in significantly less time than conventional sintering furnaces. Until now, this process lasted five to eight hours. The new Programat S1 reduces the time required for sintering an IPS e.max ZirCAD crown coping to about 75 minutes. This translates into more efficiency for users, because ZrO₂-based crowns and bridges can now be fabricated in one working day (incl. veneering).



Cost-effectiveness and energy efficiency (Power Saving Technology)

The time-saving sintering process has a positive effect on the production costs. Because the process takes less time, less energy is consumed. The diagram on the left shows how much energy is saved with the Programat S1 compared with a conventional sintering furnace.

The systems approach at the forefront



Matching components as the key to success

Ivoclar Vivadent strives to coordinate its equipment and materials in the best possible way, so that customers can achieve exceptional results with these products. This philosophy also guided the developers of the new Programat S1 when they designed the new sintering furnace. Therefore, users can rely on this piece of equipment to produce precision sintering results quickly and easily.



Programat S1

Smelting 32%

75 min

STOP

START

P1 P2 P3 P4 P...

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START

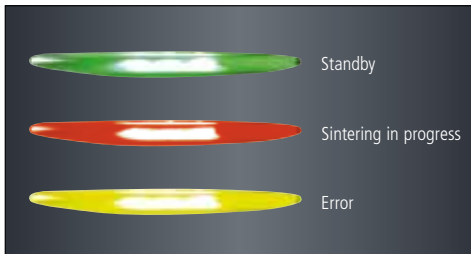
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Comfortable and easy operation



Graphics display and proven membrane-sealed keypad

The user-friendly control panel features a graphics display screen which clearly shows all the information required. The furnace is easy to operate and program by means of the time-tested membrane-sealed keypad.



OSD operating status display

The optical operating status display of the Programat S1 uses different colours to inform the user about the actual operating status of the furnace. The status of the unit is visible even from a large distance.



Easily accessible sintering chamber

The furnace head tilts upwards, which gives the operator ample room in which to work. Therefore, objects can be placed in the sintering chamber with ease. The specially developed sinter tray tongs facilitate the placement of the sinter tray.



Compact design and light weight

In contrast to conventional sintering furnaces, which are generally very bulky and heavy, the Programat S1 is characterized by its compact design and light weight. Compared with conventional sintering furnaces that weigh up to 100 kg, the new unit weighs in at only 28 kg.



Ready
P1
4*

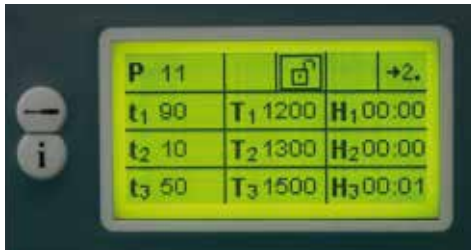
P1 P2 P3 P4 P5

STOP
START

brother
wonder

Programat[®] S1

Technology



Many programming options

As the sintering program involves three temperature levels, there are a host of programming options. Consequently, a wide variety of materials (even translucent ZrO₂ materials of the latest generation) can be sintered.



Removable furnace head

The furnace head can be detached from the base of the unit for transport and maintenance purposes. As a result of this feature, the furnace is very easy to maintain.



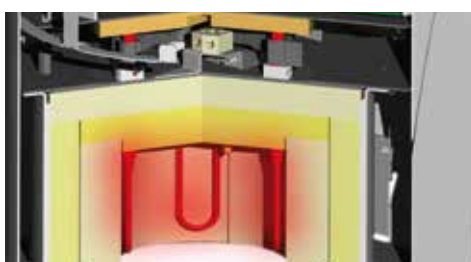
Calibration option

This sintering furnace can be calibrated. Therefore, the sintering temperature can be checked at any time and adjusted if necessary.



USB port

The furnace features a USB interface, which allows it to be connected to a PC or laptop. Consequently, the furnace software can be updated if required.



New heating muffle technology

The Programat S1 features a new type of heating element, which is specially designed for intensive everyday use. This heating element is characterized by its long service life and its even heat emission, which is essential to producing excellent sintering results.



Programat® S1

Technical data

Power supply	118–240 V 50–60 Hz Overvoltage category II Tolerated voltage fluctuations $\pm 10\%$
Max. power consumption	16 A at 118 V 8 A at 240 V
Dimensions of closed furnace	Depth: 430 mm Width: 310 mm/420 mm (including cooling tray) Height: 570 mm
Max. sintering temperature	1530°C/2786°F
Weight	Furnace base: 10 kg Furnace head: 17 kg
Safety information	The furnace has been built according to the following standards: <ul style="list-style-type: none">– IEC 61010-1-2001– EN 61010-1-2001– UL 61010-1-2004– CAN/CSA-C22.2 No. 61010-1-2004– IEC 61010-2-010-2003– EN 61010-2-010-2003– CAN/CSA-C22.2 No. 61010-2-010-2004
Radio protection / electromagnetic compatibility	EMC tested



Delivery form

1 Basic unit	1 Warranty Certificate
1 Sinter tray	1 Operating Instructions
1 Sinter tray tongs	1 Service Passport
1 S1 Temperature Checking Set Starter Kit	
1 Power cord	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.

Descriptions and data constitute no warranty of attributes.
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