

Programat[®] CS4

The combination furnace for the dental practice



Fast and easy
for flawless IPS e.max[®] ZirCAD
and IPS e.max[®] CAD restorations

New combination furnace - for a universal range

Full-contour IPS e.max® ZirCAD restorations in a single visit

The Programat® CS4 is a compact furnace that allows full-contour zirconia restorations to be sintered and completed directly in the dental practice in a single visit. Fast sintering processes result in restorations that are ready to be placed in the patient's mouth straight away, enabling dentists to harness the benefits of full-contour zirconia for chairside applications.

The open system of the furnace includes individual programs to allow the processing of a variety of materials.



*Dr Ronny Watzke
Ivoclar Vivadent
Schaan, Liechtenstein*

“ For me, IPS e.max ZirCAD zirconium oxide for chairside applications is the ideal complement to the IPS e.max system for posterior bridges. ”

Sintering of zirconium oxide restorations



IPS e.max® ZirCAD



of applications

Glazing and crystallization of IPS e.max® CAD restorations

The CS4 Programat combination furnace is also suited for glaze and crystallization firing procedures. High-quality lithium disilicate restorations made of e.g. IPS e.max® CAD can be created in a comparatively short time in a single session and then placed in the patient's mouth.



The Programat CS4 includes the proven crystallization processes of the CS family.

Glazing and crystallization of lithium disilicate



IPS e.max® CAD



The highlights of the new combination furnace

Stand-alone furnace, without compulsory tie-in to CAD/CAM

The Programat CS4 can be used independently and does not need to be connected to a CAD/CAM unit. The user remains independent.

Fireproof, robust housing

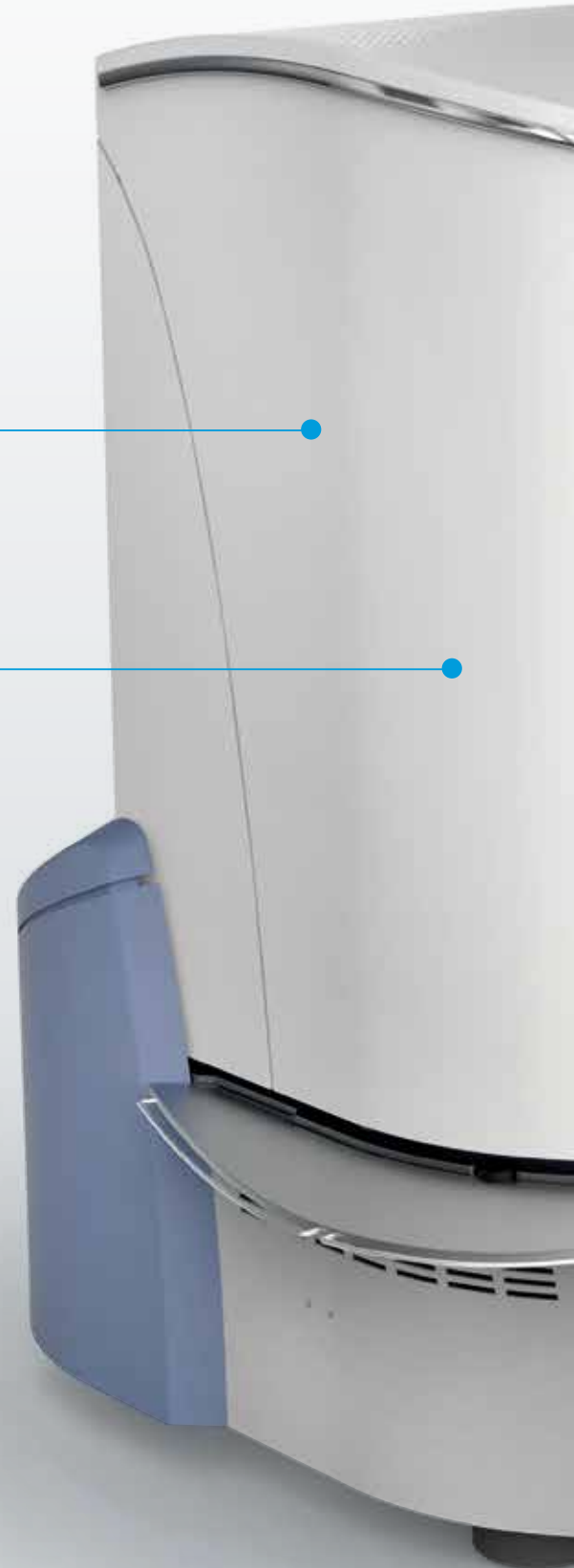
Only fireproof and robust metal housing parts are used on this unit to ensure maximum safety and a long service life.

High temperature accuracy of the heating elements

The combination furnace features a temperature tolerance of ± 4 °C. Temperature precision is essential to obtaining beneficial shade and material properties when crystallizing restorations. Four heating elements provide a homogeneous heat distribution.

Predrying process for wet objects

The predrying function allows wet restorations to be dried immediately before they are sintered. A separate predrying unit is not required.





OSD operating status display

The optical operating status display informs the user about the current operating status using different colours. The operating status is visible even from larger distances.

Glaze and crystallization process

The glaze and crystallization process may be performed without vacuum in this combination furnace.

Open system with individual programs

Twenty individual programs are available in addition to the standard programs of Ivoclar Vivadent. The Programat CS4 furnace provides you with an open system that can adapt to the future generations of materials.



Speed program for IPS e.max

This program allows IPS e.max CAD materials to be crystallized even faster, enhancing the cost effectiveness of the furnace.

Further highlights

P 11		+2.
t ₁ 90	T ₁ 1200	H ₁ 00:00
t ₂ 10	T ₂ 1300	H ₂ 00:00
t ₃ 50	T ₃ 1500	H ₃ 00:01

Vast selection of programs

With three heating stages and two cooling stages, the furnace offers a host of programming options. Consequently, a wide variety of materials (even the translucent ZrO₂ materials of the latest generation) can be sintered. The furnace comprises a number of pre-set programs for Ivoclar Vivadent materials.



Removable furnace head

The furnace head can be easily detached from the furnace base for transportation and maintenance purposes. As a result, the furnace is very maintenance friendly.



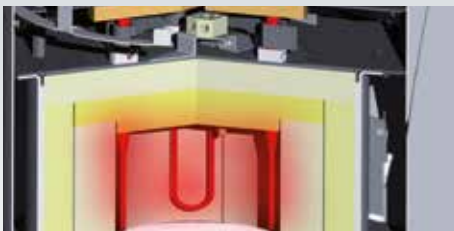
Calibration option

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



USB connection

The furnace can be connected to a PC via a USB interface. This allows software updates to be implemented on the furnace, if required.



New heating muffle technology for temperatures up to 1600 °C

The Programat CS4 features a new type of heating element, which is specially designed for intensive everyday use. These heating elements are characterized by a long service life and homogeneous heat emission, which is essential for producing optimum results. The heating elements are suited for sintering processes with a temperature of up to 1600 °C.

Technical data

Power supply	118–240 V 50–60 Hz Overvoltage category II Admissible voltage fluctuations $\pm 10\%$
Max. power consumption	16 A at 118 V 8 A at 240 V
Dimensions of the closed furnace	Depth 430 mm Width: 310 mm/420 mm (with cooling tray)
Height: 570 mm	
Max. sintering temperature	1600 °C
Weight	Base: 10 kg Furnace head: 17 kg
Safety information	The furnace is built according to the following standards: – IEC 61010-1: 2010 – EN 61010-1: 2010 – UL 61010-1: 2012-2015 – CSA 61010-1: 2012-2015 – IEC 61010-2-010: 2014 – EN 61010-2-010: 2014 – UL 61010-2-010: 2015 – CSA 61010-2-010: 2015
Radio protection / electromagnetic compatibility	EMC tested



Delivery form

- 1 Basic furnace
- 1 Sinter tray
- 1 Sinter tray fork
- 1 IPS e.max CAD Speed Crystallization Tray
- 1 Temperature Checking Set Starter Kit
- 1 Power cord
- 1 Warranty card
- 1 Set of Operating Instructions

Shade: White (RAL 9016)





Fixed Prosthetics

Programat® forms a part of the "Fixed Prosthetics" product category. The products of this category cover the procedure involved in the fabrication of fixe prosthetic restorations – from temporization to restoration care. The products are optimally coordinated with each other and enable successful processing and application.



THESE ARE FURTHER PRODUCTS OF THIS CATEGORY:

IPS e.max® System

all ceramic – all you need



The comprehensive solution covering all indications

- Highly esthetic, high-strength materials for the press and CAD/CAM technique
- Unique lithium disilicate (LS₂) and zirconium oxide (ZrO₂) ceramics for restorations ranging from thin veneers to long-span bridges
- Flexibility of cementation: adhesive, self-adhesive and conventional

SpeedCEM® Plus

Self-adhesive resin cement



A big plus for zirconia

- Excellent self-cure performance ideal for zirconia and metal-ceramics
- User-friendly handling and easy clean-up
- Efficient process with just one component

Would you like to know more about the products of the "Fixed Prosthetics" category? Simply get in touch with your contact person at Ivoclar Vivadent or visit www.ivoclarvivadent.com for more information.

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