ivoclar vivadent

Smart pressing procedures

Programat®

EP 5010 G2
EP 3010 G2

The next generation of Programat ceramic and press furnaces

Making People Smile

The reliable partner for smart pressing procedures

Modern. Intuitive. Smart. With the objective to meet the requirements of your dental laboratory

Proven technologies, such as the fully automatic press function (FPF), combined with new features - that is what makes the new Programat press furnace your reliable partner.

The new Programat press furnaces:
EP 5010 G2 and EP 3010 G2

Modern design

- Dynamic colour concept
- Ergonomic shapes and forms
- Optimized cooling tray for more space and better cooling

High process reliability

- Fast and high-quality firing results due to infrared technology
- IoT function for free monthly equipment usage reports
- Optimum integration into the press workflow thanks to preset programs

Intuitive operation

- New membrane-sealed keypad with proven colour touchscreen display
- New user interface featuring new symbols and icons
- Efficient and reliable performance due to software optimizations

Delivers more than meets the eye.

Stay informed about your furnace. Receive a monthly usage report for your device[1] free of charge via e-mail.

This is how it works:

1. Make sure the device is connected to your Internet.
2. Register your Programat press furnace on https://mydevice.ivoclarvivadent.com/
3. Subscribe to the report[1]
4. Receive your monthly report[1] via e-mail

Your advantages of having this service:

- Documentation on the device utilization rate and performance data, combined with customer-specific recommendations
- Easy maintenance and planning of repair work to prevent downtimes
- Continuous quality improvements of your smart device

[1] Service is not available in all countries.
For more information please go to the Terms of Use at www.ivoclarvivadent.com/digitalservices

Infrared technology and fully automatic press function (FPF)

Innovative infrared technology[2] (IRT) with integrated thermographic camera measures the exact temperature at the surface of the objects being fired and the investment ring. The Programat furnace automatically controls the pre-drying and closing process and adjusts the press process accordingly.

Due to the new patented and fully automatic press function[3] (FPF), pressing is now even easier and more economical. All you need to do is put the investment ring into the furnace and press the start button - everything else is performed by the furnace itself.

Electronic press drive with force sensor

The electronic press drive with force sensor records and controls the pressure of the press plunger very precisely and therefore ensures top-quality press results. A compressed air connection is not required.

- ✔ Automatic selection of the suitable press program
- ✔ Automatic heating of the press chamber to the appropriate temperature
- ✔ Pressing the fluid ceramic into the investment ring at the right time
- ✔ Controlled post-processing and cooling process

- ✔ Reduced risks of cracks in the ceramic
- ✔ High process reliability thanks to consistent and reproducible high-quality firing results
- ✔ Optimal coordination of the preheating furnace with the press furnace
- ✔ Automatic, fast and convenient selection of the investment ring size

[2] only available with Programat EP 5010 G2
[3] only applicable for Ivoclar Vivadent materials (according to the Instructions for Use)

Further highlights

Crack Detection System (CDS)
The Programat furnace features a Crack Detection System (CDS). This system identifies cracks in the investment ring at an early stage and reduces the pressure, if necessary. As a result, the press process ends in time to protect the restorations.

Convenient loading of the furnace chamber
Upon opening, the furnace head pivots upwards and thus provides ample working space. As a result, the furnace chamber can be loaded easily and comfortably.

Automatic double-range temperature calibration (ATK2)
The ATK2 temperature checking system calibrates the temperature in the furnace fully automatically and accurately in two different temperature ranges. This ensures high-precision press and firing procedures as well as reproducible press and firing results with various types of materials (low- and high-fusing ceramics).

Software update via USB flash drive
It has never been easier to update your software: Simply plug in the USB flash drive containing the latest software version and press the "Software Update" button. The software is being updated automatically.

POWER SAVING Technology

Save up to 40% of energy!

If the furnace is not being used, simply press the "Power Saving" key to activate the power-saving mode.

Technical data


EP 3010 G2


EP 5010 G2

Technical data		
Power supply	110 – 120 V, 50 – 60 Hz 200 – 240 V, 50 – 60 Hz Admissible voltage fluctuations +/- 10 %	
Max. power consumption	12 A at 110 – 120 V 8.5 A at 200 – 240 V	
Vacuum pump data	Max. power consumption: 250 W Final vacuum: < 50 mbar Only tested pumps should be used	
Dimension of closed furnace	Depth: 465 mm Width: 320 mm / 390 mm (with cooling tray) Height: 550 mm	Depth: 495 mm Width: 320 mm / 395 mm (with cooling tray) Height: 550 mm
Dimensions of firing chamber	Diameter: 90 mm Height: 80 mm	
Max. firing temperature	1200 °C	
Weight	18.3 kg	20.5 kg
Safety information		
Radio protection / Electromagnetic compatibility	EMC tested	
Delivery form		
	Power cord Vacuum hose Programat firing tray kit 2 Automatic Temperature Checking Set ATK2 (test set) Investment ring cooling grid USB download cable Various accessories	Power cord Vacuum hose Programat firing tray kit 2 Automatic Temperature Checking Set ATK2 (test set) Investment ring cooling grid USB download cable Programat WLAN Kit Various accessories
Recommended accessories		
(Not part of the delivery form)	Vacuum pump VP5 Programat Accessory Set Automatic Temperature Checking Set ATK2	Vacuum pump VP5 Programat Accessory Set Automatic Temperature Checking Set ATK2 Firing tongs

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The right material for your furnace

IPS e.max Press is the original premium lithium disilicate glass-ceramic (LS_2) for the press technique[4]. It combines accuracy of fit with excellent function and outstanding esthetics as well as high strength (470 MPa)[5]. The material comes in a wide range of shades and translucency levels for utmost flexibility. With 30 years of experience[6] in press technology, we help you achieve exceptional efficiency and reliability for your pressing procedures.

At a glance:

- ✓ Impressive esthetics
- ✓ Efficient processing
- ✓ Widest area of application[7]
- ✓ 10 years guarantee

[4] Schweiger et al. Europäisches Patent 0827941 B1, 1997, Europäisches Patentamt
[5] Edelhoff D. et al, Clinical performance of occlusal onlays made of lithium disilicate ceramic in patients with severe tooth wear up to 11 years, Dental Materials, 2019, 35, p. 1319-1330
[6] 30 years of Ivoclar Vivadent press technology
[7] Studer F., 10 reasons to choose the IPS e.max Press System, Product Presentation, Ivoclar Vivadent, 2020

Product comparison


	EP 3010 G2	EP 5010 G2
Warranty		
Warranty period[8]	2 years	3 years
Hardware equipment		
Colour touchscreen display with membrane-sealed keypad	✓	✓
Electronic press drive with force sensor	✓	✓
QTK2 muffle technology with SiC bottom reflector	✓	✓
OSD with progress indicator	✓	✓
Programat infrared technology (IRT)		✓
Software equipment		
Easy operation due to modern control concept	✓	✓
Individual firing/press programs	300/20	500/20
Preset Ivoclar Vivadent firing/press programs	✓	✓
Power Saving Technology	✓	✓
Integrated maintenance and diagnostic programs (e.g. heater, vacuum, etc.)	✓	✓
Fully automatic press function (FPF)	✓	✓
System to bridge short power cuts	✓	✓
Automatic crack detection (CDS) in the investment ring	✓	✓
Software update via USB flash drive	✓	✓
IoT connectivity	✓	✓
Report	✓	✓
Integrated multimedia functions		✓
Remote monitoring and diagnostics via Programat app		✓
Integrated program copy assistant		✓
IRT-controlled pre-drying		✓
IRT-controlled recognition of the investment ring size		✓
Digital shade assistant (DSA)		✓
Temperature calibration		
Automatic double-range temperature calibration (ATK2)	✓	✓
Design and ergonomics		
Integrated holder for firing tongs	✓	✓
Large cooling tray	✓	✓
Ports		
USB ports	1	3
SD card reader		✓

[8] Consumables excluded

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