

Instructions for use



VITA SMART.FIRE® ADVANCED

The compact and modern furnace for dental practices and laboratories with space for bridges with up to 14 units.





The furnace:

VITA SMART.FIRE® ADVANCED

So attractive. So compact. So efficient.

Dear Customers,

**We are pleased that you have chosen the
VITA SMART.FIRE ADVANCED furnace.**

The VITA SMART.FIRE ADVANCED combines ultra-modern design with impressive firing quality. Thanks to its compact design, it even offers ample space for 14-unit bridges – making it ideal not only for your practice, but also for all laboratories. Experience an intuitive, user-friendly operation with an integrated accessory set at your fingertips at all times, thanks to the convenient accessory drawer. Perfect your workflow now with the modern VITA SMART.FIRE ADVANCED.

To be able to use the furnace safely and effectively, please read these instructions for use completely before use. This operating manual must always be kept close to the device. It must be read and used by all persons who operate, clean and care for the system.

We hope you enjoy VITA VIONIC SOLUTIONS and achieve great results!

Your VITA Product Management Team

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1. The system

VITA SMART.FIRE ADVANCED System

VITA SMART.FIRE ADVANCED

Furnace



VITA vPad excellence

Control unit



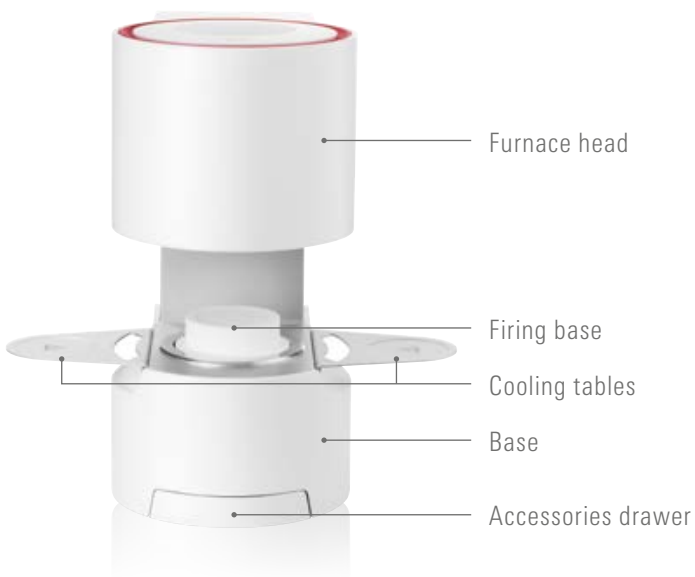
VITA SMART.FIRE ADVANCED

Accessories



1.1 The firing unit

The compact firing unit in practices and laboratories for veneering, crystallization, glaze, stains and corrective firings.



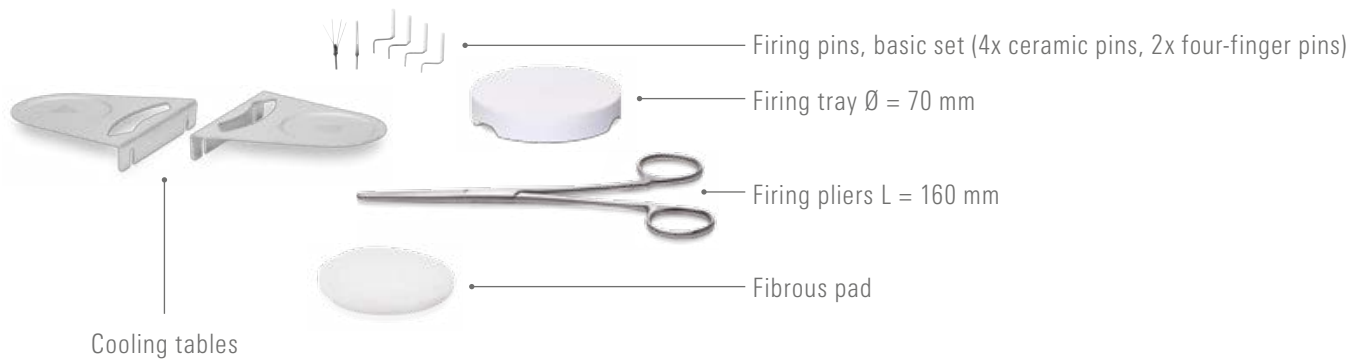
1.2 The control unit

The VITA vPad excellence for easy firing using pre-installed programs for all common chairside materials (not included in the scope of delivery).



1.3 Accessories

The integrated accessories drawer ensures that everything you need is always at hand.



2. First use

2.1 Starting firing in six steps



1 Connect the firing unit and control unit using the connection cable.



2 Connect the firing unit to the power supply.



3 Press the main switch.



4 Hang up the two storage trays.



5 Select the firing program.



6 Start the firing process.

Please note

- Make sure that the metal ring that goes around the firing tray is free of dust and other particles.
- Remove crumbs from the firing tray with a brush.
- It is not permitted to use extension sockets to connect the burner unit, as there is a risk of fire due to overloading of the electrical cables.

2.2 Setting up the firing unit

Please ensure that the following conditions are met.

Please note

- The distance between the firing unit and the nearest wall must be at least 20 cm.
- There should be at least 15 cm of clearance above the firing unit when the firing chamber is open.
- Do not place the control unit in the heat emissions range of the firing chamber.
- The distance between the firing unit and the control unit must be at least 20 cm.
- The ventilation openings on the top of the firing unit must not be covered.
- Set up the device in such a way that the main switch can be easily accessed and the power supply cable can be easily disconnected.
- Ensure that the unit is installed on a heat-resistant and non-flammable surface.
- The emissions and heat radiation of the device are within a non-hazardous range. However, nearby temperature-sensitive surfaces and materials could still be damaged by heat.
- Avoid exposing the unit to direct sunlight.
- Do not place flammable objects near the firing unit.

2.3 Switching off the firing unit and control unit

- When the unit is not in use, move the furnace head downward and switch off the unit from the main switch.
- Closing the furnace head protects against moisture entering the unit.

2.4 Cleaning the firing unit and control unit

- Disconnect the unit from the power supply before cleaning.
- The housing must only be cleaned with a damp cloth and no cleaning agent. No flammable liquids or solvents may be used.
- The inside of the firing chamber does not need to be cleaned.
- Remove crumbs from the firing tray with a brush.

Control unit

- Clean the display at regular intervals with a screen cleaner.
- Screen cleaners are especially good since they do not cause any scratches, have an antistatic effect and prevent further dirt accumulation.

Please note

Damage to the display resulting from improper use during operation or cleaning is excluded from the VITA warranty.

3. Scope of supply / system solutions

3.1 VITA SMART.FIRE ADVANCED scope of delivery

Product	Scope of supply
VITA SMART.FIRE ADVANCED firing unit 1) 220 V – 230 V 2) 110 V 3) 100 V	1 x
Firing base	1 x
Fibrous pad firing supports, round 70 mm	1 x
Firing pliers	1 x
Ceramic pins	4 x
Four-finger pins	2 x
Cooling table	2 x
Fibrous pad	1 x
Insert for accessories drawer	1 x
Cable for connecting firing unit and control unit	1 x
VITA USB WiFi modem	1 x
Power cable 1) 220 V – 230 V EU 2) 110 V 3) 220 V – 230 V GB 4) 220 V – 230 V CN 5) 220 V – 230 V CH 6) 220 V – 230 V ZA 7) 220 V – 230 V AU 8) 220 V – 230 V IL	1 x
Instructions for use for the VITA SMART.FIRE ADVANCED firing system	1 x

Note

All VITA SMART.FIRE ADVANCED components can be individually reordered.





4. Technical data / information





4.1 Technical data firing unit

Dimensions (Ø / depth / height)	230 mm / 300 mm / 340 mm (closed)
Net weight	12 kg
Firing chamber internal dimensions (Ø / height)	90 mm / 47 mm
Firing chamber temperature	Max. 1200°C
Electrical connection	Specified on identification plate, tolerance ±10 %
Power consumption	Max. 1,400 W (230 V, 100 V, 110 V)
Temperature range for operation:	10°C to 35°C
Humidity for operation	Max. 80% RH
Operating altitude	Max. 2,000 m above sea level
Classifications	IEC 61010-1:2010 IEC 61010-2-010:2019 EN 61326-1:2020 EN 61000-3-2:2014 EN 61000-3-3:2013 CE
Application area	Approved for indoor operation only

Note

The technical data for the vPad excellence and the WiFi USB modem can be found in the corresponding instructions for use (10512 and 10797).

4.2 Symbols

	Product	Scope of supply
	Hazardous voltage	This pictogram warns the user about hazardous voltage. Before opening the instrument, always disconnect it from the mains current by unplugging the power plug.
	Hot surface	This pictogram warns the user about hot surfaces that can cause burns.
	Separate disposal	This unit and all accessories labeled with this symbol are subject to Directive 2002/96/EC (WEEE) and the applicable national regulations and may not be disposed of as unsorted municipal waste in the European Union (EU). Old units can be returned to VITA Zahnfabrik.
	CE marking	VITA SMART.FIRE ADVANCED complies with the applicable regulations of the European Union (EU). The declaration of conformity can be accessed on the homepage under MyVITA or requested directly from VITA Zahnfabrik.

4. Technical data / information

4.3 Information

Basic information on the device design

- The instrument is designed according to state-of-the-art technology and recognized safety standards.
- However, if it is used inappropriately, hazards for the health and safety of the operating personnel or third parties, as well as the risk of damaging the instrument and other material property, may arise.

Unauthorized modes of operation

- Do not operate the control unit with sharp-edged or hot objects. This causes damage to the display.
- The operation of the instrument with power sources, products, etc., which are subject to hazardous materials regulations or could have any negative impact on the health of the operating personnel when using equipment modified by the user, are not permitted.
- The unit may not be used without the firing tray. The firing base must always be inserted in its designated recess at the bottom of the firing unit.
- The unit may not be used with a flammable narcotic agent with air or nitrous oxide.
- The device is equipped with a fan. The fan is temperature-controlled. Activation, deactivation and speed of the fan are controlled automatically. The fan prevents excessive heating of the unit and contributes to the overall operational safety. The openings in the top cover of the firing chamber must not be covered or closed.

Authorized modes of operation

- The insulation of the firing chamber contains ceramic mineral fibers (Index no. 650-017-00-08), which is classified as a CAT 2 carcinogen (Annex VI, EC 1272/2008). When working with the firing chamber or exchanging the firing muffle, fiber dust may be discharged.
- Dust may be harmful if inhaled and cause irritation to the skin, eyes and respiratory system. Therefore, always follow these instructions when replacing parts of the firing chamber:
 - Wear long-sleeved protective clothing.
 - Wear safety goggles, as well as protective gloves.
 - Use a dust vacuum system or wear an FFP 2 respirator.
 - Once work has been completed, rinse the dust from unprotected skin using cold water.
 - Wash workwear separately from everyday clothing.
- The operation of the device is only permitted if these instructions for use have been completely read and understood and the procedures described in it have been observed. Any other or additional use, e.g., processing of products other than those intended, as well as handling of hazardous materials or substances injurious to health, is considered to be contrary to the recommended use.
- Repairs and servicing of any kind may only be carried out by specially trained personnel.
- The device is equipped with a fan. The fan is temperature-controlled. Activation, deactivation and speed of the fan are controlled automatically. The fan prevents excessive heating of the unit and contributes to the overall operational safety. The openings in the top cover of the firing chamber must not be covered or closed.

Note

The manufacturer/supplier will not be liable for any damage resulting from such unauthorized use. The risk is borne solely by the user.

4.4 Safety functions

The firing unit is equipped with the following safety and monitoring features:

1. Temperature sensor monitoring
2. Power supply failure protection
3. Obstruction sensor
4. Temperature protection switch
5. Automatic temperature cold spot compensation

Temperature sensor monitoring

The temperature sensor monitoring feature detects a failure of the temperature sensor in the firing chamber. If a failure of the

temperature sensor has been detected, the firing chamber is prevented from heating up and an error message is displayed.

Power supply failure protection

The instrument is equipped with power supply failure protection. This element prevents firing programs from aborting in the event of a short-term power failure. If the power failure time lasts less than 15 seconds, the current program will continue to run even though the display will remain out of service for the duration of the power

failure. The current program is aborted if power is interrupted for more than 15 seconds. An error message is displayed once power is restored.

Obstruction sensor

The vertical movement of the firing head is controlled by computer. Any trapped objects are detected and the drive is switched off, if necessary. This prevents injuries caused by pinching.

The system may still be operated without any restrictions after the drive is switched off.

Temperature protection switch

Temperature protection switches are installed in the housing of the firing unit and prevent the firing unit from overheating by switching off the heater if the heating control system malfunctions. An error message is displayed if this type of malfunction occurs.

The firing system may not be used again until the system cools down. This can take some time.

Automatic temperature cold spot compensation

The automatic temperature cold spot compensation feature is activated when the room temperature changes. This cold spot compensation feature takes into consideration and corrects all deviations occurring in the electronic components for temperature

measurement and temperature control. This ensures constant temperature control at $\pm 1^\circ\text{C}$, even if the unit remains in continuous operation for a long period.

5. Additional information

5.1 Competitor material in the VITA SMART.FIRE ADVANCED

The VITA SMART.FIRE ADVANCED includes firing programs for Celtra Duo, IPS e.max CAD and IPS Empress CAD. However, it should be noted that the firings for IPS e.max CAD in VITA SMART.FIRE ADVANCED must be carried out on an Ivoclar Vivadent firing tray. The firings for IPS Empress CAD and Celtra Duo can be carried out on the VITA SMART.FIRE ADVANCED round firing tray

with VITA platinum pins. The current firing parameters in the VITA SMART.FIRE ADVANCED for Celtra Duo, IPS e.max CAD, and IPS Empress CAD are to be used as guide values. Users must check for themselves that the equipment is suitable for the intended application.

5.2 VITA warranty and consumer protection

Please note that wearing parts, including the firing base and all insulating material, are excluded from the warranty. Any cracks in the insulating material are caused by thermal factors and cannot be avoided. They therefore do not constitute grounds for a claim

and are not covered by the warranty. The VITA warranty and consumer protection document can be found on our website at the following link:

<https://www.vita-zahnfabrik.com/de/Garantieleistungen-696,29674.html>

5.3 Update messenger

Software updates are available as a download on the website of the supplier, VITA Zahnfabrik. To get automatic notifications on the latest device information and have updates emailed to you

via the Update Messenger, an option to register is provided at www.vita-zahnfabrik.com/updatemessenger.

5.4 Spare parts

Spare parts must comply with the technical requirements specified by the manufacturer. This is only guaranteed with VITA original spare parts

5.5 Patents and trademarks

VITA SMART.FIRE® is a registered trademark of VITA Zahnfabrik. Other trademarks mentioned in this document are the property of the respective company.

5.6 Copyright information

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VITA SMART.FIRE® ADVANCED is CE marked within the meaning of EC Directives 2006/42/EG, 2014/30/EU, 2011/65/EU.

The products/systems of other manufacturers mentioned in this document are registered trademarks of the respective manufacturers.



More information on
VITA SMART.FIRE ADVANCED:
<https://hs.vita-zahnfabrik.com/en/vita-smart.fire-advanced>



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