

SINTRA

The ultimate purity in Sintering for all Zirconium materials



Innovative features to improve the quality & the purity of the sintered zirconium oxide

The ShenPaz sintering furnace, **SINTRA** is a furnace fully programmable and fully adaptable to all Zirconium Oxide materials on the market today. In addition to the conventional parameters, **SINTRA** has two unique systems fully programmable degassing to keep the muffle clean from impurity from sintering Zr colors, and a negative temperature ramp for extra slow cooling as requested by specific material suppliers.

Keeping in mind the importance of space in the dental laboratory, **SINTRA** was designed with the firing unit and power unit built in-one. The firing chamber is lined with insulating material and the chamber opening is sealed by a smooth moving mechanical lift. Two especially designed firing crucibles can be stacked one on top of the other thus permitting simultaneously the sintering of 60 to 80 units depending on the elements.

Automatic Degassing

A unique procedure of degassing for maximum purity and enhancement of the color precision of the sintered zirconium oxide.

High precision firing

Strong, durable and long-life cycled silicon carbide heating elements monitored by thermocouple type B.

Active cooling

Activecooling option shortens the cycle time by 3 hours.

1650°C/ (3002°F)

Precise temperature control system up to 1650°C provides optimal results in sintering and precise adaptation for all kinds of reconstruction.

Fully programmable furnaces: all the parameters even Preprogrammed can be modified and adapted and changed according to the existing or future ZR Products such as different temperatures, different delays and different ramp. Some manufacturers of ZR are requiring a two steps firing cycle with two different ramp of temperature- the **SINTRA** can be adapted to all the requirements.

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Automatic
Degassing



High
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firing



Active
cooling



1650°C
(3002°F)

REDUCED CYCLING TIME

Cycle time reduced to 7 – 8 hours instead of 10 - 11 hours (cycle length depending on Manufacturer of material specification)

BUILT IN PROGRAMS

Proven capability of Built in program for major Zirconium Manufacturer:

- Zirkon Zhan
- Metoxit
- Noritake
- (adaptable to all the others)
- Full Two steps programmable furnace

DEGASSING

The degassing phase option is performed at a temperature up to 250°C (483°F) to expel impurities from the firing chamber. The degassing phase is achieved by an automatic setting of the lift movement. The degassing process is important in extending the life cycle of the muffle and to assure high repeatability of the sintering process.



Designed by ceramists for ceramists, ShenPaz SINTRA includes state of the art technologies. With 25 Year of experience ShenPaz incorporates in its products all the knowledge in Dental technology and latest electronics innovations.

Technical Specifications

Measurements:
37 X 43 X 75 cm (14.6" X 17" X 29.5")
Weight:
60 Kg (lbs.)
Firing chamber:
Ø 95mm X 140mm/h (3.7" X 5.5")
Firing table:
Ø 90 mm (3.5")
Temperature range:
from room temperature to 1650°C (3002°F)
Main Input:
200/240 Volt AC 50- 60 Hz
or 100/120 Volt AC 50-60 Hz
Max. Power Consumption:
15 Volt X 100 A = 1500 Watt

Scope of delivery:

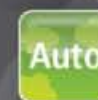
- 1 furnace unit
- 1 control connecting cable power unit
- 1 firing unit
- 1 firing tray (2 elements)
- 2 sintering crucible
- 1 sintering crucible top
- 1 pair of furnace tweezers
- 1 operating manual
- 1 lift key
- 2 pack of Zr granules 50 grams

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1650°C
(3002°F)



Galaxy



Focus



Gmax

To contact our dealer in your region,
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