

Ceramic Dental Furnace >>



Overview of Lift Dental Furnace

Saftherm ceramic dental furnace mainly experts in 1200°C vacuum dental porcelain furnace as well as 1400°C and 1700°C Zirconia Denture Furnace. Also a customized dental system furnace is available to meet clients individual needs. Mainly provides high-temperature heat treatment environment for dental, scientific research institutes and other industrial laboratories. Widely used for zirconia sintering in the denture processing industry, and can also be used for sintering and annealing of high-temperature materials in the powder metallurgy industry.

What is the advantage by choosing SAFTHERM dental furnace?

- > High-tech heating materials equally inside the firing chamber for better heat surroundings
- > The most advanced insulation chamber materials provide excellent firing system results
- > Temperature operating accuracy stable at +/-1°C
- > Automatic temperature operating store functions release operator on duty
- > Vacuum pump is flexible chosen depends on experiment
- > LCD touch Screen with soft manual equipped
- > Double shell design with cooling fan function ensures end-user safety
- > USB interface optional for upgrading to connect computer programmable

The factors to select a suitable dental furnace :

What is the Operating temperature ?

- > SAFTHERM dental furnace mainly supply 1200°C, 1400°C, 1700°C choice based on the special technology request.
- > When real operating lower than 1200°C, we generally use high grade HRE spiral wire coils as heating element.
- > When real operating lower than 1400°C, we generally use high grade SIC (Silicon Carbide Heaters) as heating element.
- > When real operating lower than 1700°C, we generally use high grade MoSi₂ (Molybdenum Disilicide Heaters) heating element.
- > Continuous operating temp will be 100 °C below the max temp design and right using will extend the furnace service life.
- > Furnaces are designed to operate at high temperatures. Operation below temperatures of approximately 600 °C will be less accurate and
- > continuous use at low temperatures may reduce the element life of some furnaces, ie MoSi₂ heated furnaces.

SAFTHERM is constantly to improve what is required in Dental by the hard-working on technology and service.

What is the heating diameter and height of the dental furnace ?

SAFTHERM manufacturer different heating chamber dental furnace based on the tray size.
 The most popular size of the tray in the field is φ 120mm φ 150mm φ 200mm φ 300mm.
 The height for the qty of the trays differs among 120mm, 150mm, 200mm, 300mm.
 Simply choose standard compact size which can meet you request and system with superb cost-effectiveness.
 Thanks to SAFTHERM strong technical support, the innovative concept enables users to achieve the perfect custom solution when considering their own firing system.



STS-120-12

Lifting Dental Porcelain & Zirconia Furnace

Main Features

- > Integrated compact Structure with elegant design
- > Chamber Materials: Vacuum forming ceramic fiber, which has the advantage of no powder drops off with high temperature, and saving energy more than 50%.
- > Yudian LCD Touch Screen Microprocessor based self-tuning PID control provides optimum thermal.
- > CE compliant.
- > Built-in RS485 port and USB adaptor as optional setting for computer control. It needs to add extra fees.



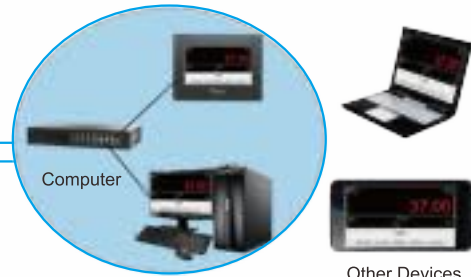
Inside Chamber



PID Controller and Electronics



- 01 Dual-wall Housing
- 02 Lifting System
- 03 Three-step platform
- 04 USB device
- 05 Touch-screen Panel
- 06 Operating Buttons



Intelligent Furnace Remote Control System

Technical Parameters

Model	Volume(L)	Chamber Size Dia*H(mm)	Max Temp(°C)	OperateTemp(°C)	Voltage(V)	Power(KW)	Heating Element	Controller Accuracy
STS-120-12	2 L	Φ120x120	1200°C	1100°C	220 V	2 KW	HRE	±1°C
STS-150-12	3 L	Φ150x150	1200°C	1100°C	220 V	3 KW	HRE	±1°C
STS-200-12	6 L	Φ200x200	1200°C	1100°C	220 V	4 KW	HRE	±1°C
STS-300-12	20 L	Φ300x300	1200°C	1100°C	380 V	6 KW	HRE	±1°C
STS-120-14	2 L	Φ120x120	1400°C	1350°C	220V	3 KW	SIC Rod	±1°C
STS-150-14	3 L	Φ150x150	1400°C	1350°C	220 V	4 KW	SIC Rod	±1°C
STS-200-14	6 L	Φ200x200	1400°C	1350°C	220 V	5 KW	SIC Rod	±1°C
STS-300-14	20 L	Φ300x300	1400°C	1350°C	380 V	6 KW	SIC Rod	±1°C
STS-120-17	2 L	Φ120x120	1700°C	1600°C	220 V	3 KW	Mosi2 Rod	±1°C
STS-150-17	3 L	Φ150x150	1700°C	1600°C	220 V	4 KW	Mosi2 Rod	±1°C
STS-200-17	6 L	Φ200x200	1700°C	1600°C	220 V	4 KW	Mosi2 Rod	±1°C
STS-300-17	20 L	Φ300x300	1700°C	1600°C	380 V	8KW	Mosi2 Rod	±1°C