



Technical resources

T-Crystal Dental Furnace

Model: TC-CDF

<https://www.tencanballmills.com/en/products/sintering-series/t-crystal-dental-furnace.html>

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T-Crystal Dental Furnace

Model: TC-CDF

Compact box sintering furnace with 1.5kW power, lightweight polycrystalline mullite fiber lining. Ideal for zirconia sintering in dental labs and small-batch laboratory applications.

Technical specifications

Maximum temperature	1700°C
Working temperature	1600°C
Temperature control accuracy	+/-1 °C

These specifications describe the series. Confirm the selected model, power supply and configuration before ordering.



Tianchuang box-type sintering furnace uses high-purity polycrystalline mullite fiber as the furnace material. It is light weight, compact and has a power of only 1.5kW. It is suitable for use in small laboratories and even home-style working environments. It has been widely used in dental laboratories for zirconia sintering and laboratories for small batch sintering.

The box-type sintering furnace is a heat treatment equipment used in the sintering process. Its appearance and structure are similar to a box. The workpiece or sample is placed in the furnace for sintering treatment. By heating to a certain temperature, the bonding force between the material particles is enhanced to form a solid whole. This furnace is designed as a closed structure to ensure that a specific atmosphere is maintained during the sintering process and that the workpiece or sample is heated evenly.

Technical parameters

Furnace size	100*100*100mm (width*height*depth)
maximum temperature	1700°C (not more than 2 hours)
working temperature	1600°C
Temperature control method	Intelligent 50-segment programmable control
Thermocouple	Type B
Temperature control accuracy	+/-1 °C
Rated power	1.5kW
net weight	58kgs
Overall dimensions	410x380x610mm

- It is specially designed for sintering small batch samples of zirconia denture crystals, structural ceramics, polymer ceramics and other laboratory samples.
- The power is only 1.5kW, no special high-power circuit is required, and the circuit in the home can be used.
- Fast heating speed, adjustable from 0-40°C/minute.
- The 7-inch high-definition touch screen is easy to operate and can store 30 different process programs.

Standard accessories:

1 silicon molybdenum rod ;
1 corundum crucible ;
1 pack of zirconium beads ;
1 fireproof brick ;

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Before operation, review the selected model's instructions and the material requirements.