

The Carbolite Gero dental furnace is designed to provide easy sintering of zirconia (yttrium stabilised zirconium oxide) dental crowns and frameworks.

The furnace is equipped with three robust high-quality heating elements made of silicon carbide. In contrast to many molybdenum disilicide heating elements these are free of any chemical interaction with zirconium oxide.

Standard features

- 1530 °C maximum operating temperature
- Four program 8-segment 302P4 programmer (8 ramps, 8 dwell times)
- Excellent temperature uniformity and precise temperature control
- Optimised for operation from a standard 16A single phase mains supply
- Uniform heating from non-contaminating silicon carbide elements
- Complete sintering tray & 200 g of zirconium support beads
- One litre capacity chamber



CDF 15/1C

Options (specify these at time of order)

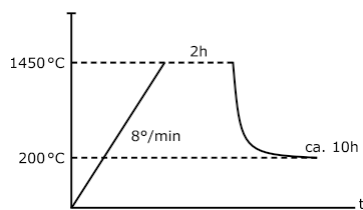
- Spare sinter trays
- Spare sinter support beads

Example Program Descriptions

The CDF has four user-defined programs for sintering frameworks. Examples of which are shown below:

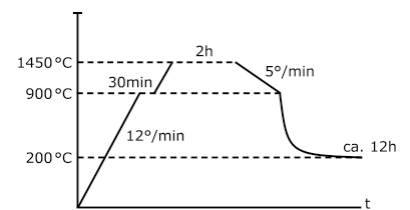
Program 1 – Standard program

Universal sintering program for all common indications.



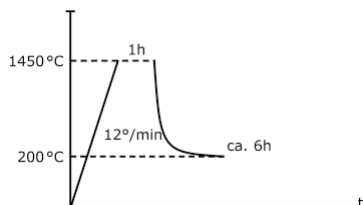
Program 3 – Sintering program with extended cooling

This sintering program has a hold stage at 900°C with a defined cooling rate. This can be used for large frameworks where the connected residual blank is sintered together with the framework.



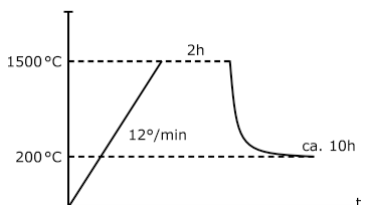
Program 2 – Fast sintering program

Fast sintering program for single units only. With this program the furnace may be charged with a maximum of one sintering tray, otherwise, full sintering of the objects cannot be achieved.



Program 4

Four successive segments can be assigned. Each segment contains one heating rate, temperature hold stage and, if defined, one cooling rate. The maximum adjustable sintering temperature is 1530°C; the maximum heating rate is limited to 12°C/min.



Technical data

Model	Max. temperature [°C]	Heat-up time [mins]	Dimensions: Internal H x W x D [mm]	Dimensions: External H x W x D [mm]	Volume [litres]	Max. power [W]	Holding power [W]	Weight [kg]
CDF 15/1C	1530	126	80 x 90 x 150	655 x 385 x 535	1	3100	1145	42