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**STATIC OR BOGIE CHAMBER FURNACE**

**SBCF**

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**SBCF**

# STATIC OR BOGIE CHAMBER FURNACE

The robust construction of the SBCF large chamber furnace makes it ideal for applications such as the heat treatment of steels and alloys, ceramics sintering and aerospace heat treatment.

The SBCF chamber furnace is an industrial scale furnace based on a modular design principle which can be adapted to various applications. The furnace chamber is cubic in shape and is available in three sizes.

The furnace has a side hinged door and a fixed hearth. As an option the hearth can be fitted to a bogie so it can be pulled out of the furnace on a track system. This hearth design technique also allows the furnace to be easily adapted to a vertical lift arrangement to provide an elevator hearth, in which case the door would become a fixed side of the chamber.



Under hearth heating and free radiating coiled wire elements on four sides. This design provides the option of single and 3-zone temperature control and for applications demanding the best uniformity possible, such as AMS 2750F (this can be combined with an optional air circulation fan).

The construction uses low thermal mass insulation materials to maximise running efficiency whilst using robust refractory materials where physical strength is required such as the loading area of the hearth. Silicon carbide (SiC) tiles are fitted on the hearth to provide a hard wearing surface.

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## STANDARD FEATURES

- | 1100 °C maximum operating temperature
- | Over-temperature protection
- | Under hearth heating and free radiating coiled wire elements on four sides
- | Robust construction ensures safe outer case temperature
- | Hard wearing silicon carbide tiled hearth
- | 3-zone control fitted with 1 x programmable EPC3008P1 and 2 x EPC3016 slaves with retransmission of setpoint
- | Furnace can meet the requirements of AMS2750F
- | Excellent temperature uniformity and control
- | Double skin construction ensures safe outer case temperature

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## OPTIONS

Specify these at time of order.

- | Temperature interlocked door
- | Vertical air circulation fan
- | Bogie hearth
- | Available with various instrumentation and data acquisition options

**SBCF****TECHNICAL DATA**

| Model                                           | SBCF-3/11/500      | SBCF-3/11/1700     | SBCF-3/11/3300     |
|-------------------------------------------------|--------------------|--------------------|--------------------|
| Max temp (°C)                                   | 1100               | 1100               | 1100               |
| Number of heated zones                          | Three zone         | Three zone         | Three zone         |
| Dimensions: External H x W x D (mm) with fan    | 2353 x 1710 x 1354 | 2753 x 2110 x 1754 | 3053 x 2410 x 2054 |
| Dimensions: External H x W x D (mm) without fan | 2130 x 1710 x 1354 | 2530 x 2110 x 1754 | 2830 x 2410 x 2054 |
| Volume (litres)                                 | 512                | 1728               | 3375               |
| Chamber size (mm)                               | 800 x 800 x 800    | 1200 x 1200 x 1200 | 1500 x 1500 x 1500 |
| Uniform volume (mm)                             | 600 x 600 x 600    | 1000 x 1000 x 1000 | 1300 x 1300 x 1300 |
| Temp uniformity (°C)                            | ±5                 | ±5                 | ±5                 |
| Max power (W)                                   | 54000              | 96000              | 144000             |

**SBCF****DOWNLOADS**

**LABORATORY/INDUSTRIAL OVENS & FURNACES** → [www.carbolite.com/files/12830/laboratory-industrial-ovens-furnaces.pdf](http://www.carbolite.com/files/12830/laboratory-industrial-ovens-furnaces.pdf)

**PRODUCT DATA SHEET SBCF** → [www.carbolite.com/files/450668/product-data-sheet-sbcf.pdf](http://www.carbolite.com/files/450668/product-data-sheet-sbcf.pdf)

# SBCF

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