



SMELTING FURNACE

SCF

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SMELTING FURNACE

The CF cupellation furnaces are designed for the cupellation, or fire assay test, of precious metals, which is a standard test method used to determine their purity.

The furnaces meet the Hallmarking requirements specified by the Convention on the Control and Marking of Articles of Precious Metals (known also as “Precious Metals Convention”, “Hallmarking Convention” or “Vienna Convention”).

The test method produces hazardous vapours. When used within a suitable fume management system, the cupellation furnaces are designed to handle the vapours without exposing the operator to these hazards. The design of the cupellation furnace range ensures protection from the corrosive environment which would damage a conventional furnace.

Carbolite also offers a range of smelting/melting furnaces.



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STANDARD FEATURES

- | Specifically designed for the smelting of precious metals
- | Each lid is vented by a 50 mm diameter chimney
- | The hearths of the SCF 4 and SCF 8 models include cast alumina supports to securely hold the appropriate number of crucibles
- | A 24 hour, 7 day timer
- | The horizontal, parallel opening lids open with the hot face away from the user
- | Silicon carbide heating elements protected by silicon carbide tiles
- | The hearths of the SCF 24 and SCF 48 models are the same size but without crucible supports

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OPTIONS

- | A range of sophisticated digital controllers, multi-segment programmers and data loggers is available. These can be fitted with RS232, RS485 or Ethernet communications. **MORE INFORMATION →**
carbolite.com/products/control-options/

Specify these at time of order.

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TECHNICAL DATA

Specification	SCF 1	SCF 4	SCF 8	SCF 24	SCF 48
Max temp (°C)	1400	1400	1400	1400	1400
Max continuous operating temp (°C)	1350	1350	1350	1350	1350
Dimensions: External H x W x D (mm)	850 x 905 x 905	990 x 1230 x 1040	1025 x 1350 x 1300	990 x 1230 x 1040	1025 x 1350 x 1300
Number of chambers	1	2	2	2	2
Dimensions: Each chamber H x W x D (mm)	440 x 285 x 285	200 x 245 x 500	200 x 245 x 760	200 x 245 x 500	200 x 245 x 760
Dimensions: Control module H x W x D (mm)	630 x 600 x 490	630 x 600 x 490	630 x 600 x 490	630 x 600 x 490	630 x 600 x 490
Charge capacity	--	4 crucibles 120 x 180 (OD x H mm)	8 crucibles 120 x 180 (OD x H mm)	24 crucibles 79 x 97 (OD x H mm)	48 crucibles 79 x 97 (OD x H mm)
Thermocouple type	R	R	R	R	R
Max power (W)	15000	15000	24000	15000	24000

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DOWNLOADS

Precious Metal Furnaces CF24 / SCF4

PDF → carbolite.com/files/14509/precious-metal-furnaces-cf24-scf4.pdf

Product data sheet SCF

PDF → carbolite.com/files/450775/product-data-sheet-scf.pdf

Recycling and assessing precious metals

PDF → carbolite.com/files/13992/recycling-and-assessing-precious-metals.pdf

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