



SMELTING FURNACE - SCF

The smelting furnace range (SCF) of top loading crucible furnaces is available in 3 sizes with a maximum operating temperature of 1400 °C. They are specifically designed for the smelting of precious metals.

Each smelting furnace is robustly constructed from heavy gauge hollow steel section and zinc coated sheet steel panels. Silicon carbide heating elements surround the chamber sides and are protected by silicon carbide tiles. The hearth is constructed from refractory bricks and silicon carbide tiles. The SCF 1 has a single chamber, all other smelting furnace models have twin chambers with separate lids. Carbolite also offers a range of **cupellation/fire assay furnaces**.

STANDARD FEATURES

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

OPTIONS (*SPECIFY THESE AT TIME OF ORDER*)

- | 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

Content may be subject to modifications or corrections

TECHNICAL DETAILS (MODELS)

	SCF 1	SCF 4	SCF 8
Max temp (°C)	1400	1400	1400
Max continuous operating temp (°C)	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
Number of chambers	1	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
Dimensions: Control module H x W x D (mm)	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)
Thermocouple type	R	R	R
Max power (W)	15000	15000	24000

	SCF 24	SCF 48
Max temp (°C)	1400	1400
Max continuous operating temp (°C)	1350	1350
Dimensions: External H x W x D (mm)	990 x 1230 x 1040	1025 x 1350 x 1300
Number of chambers	2	2
Dimensions: Each chamber H x W x D (mm)	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
Charge capacity	24 crucibles 79 x 97 (OD x H mm)	48 crucibles 79 x 97 (OD x H mm)
Thermocouple type	R	R
Max power (W)	15000	24000

www.carbolite.com/scf