

SINGLE FILAMENT CELL

SFC



This type of effusion cell is designed for the evaporation of materials such as germanium, tin, gold, silicon, copper etc.

A tantalum wire is used for the heating system and PBN rings for the electrical isolation.

The heating system is surrounded by several Tantalum foils to minimize heat radiation.

A direct heat transfer from the filament to the crucible reduces the power consumption and gives an excellent control of the flux.

PBN crucibles are standard with this type of effusion cells.

Other crucible materials are possible.

Technical Data

Standard :

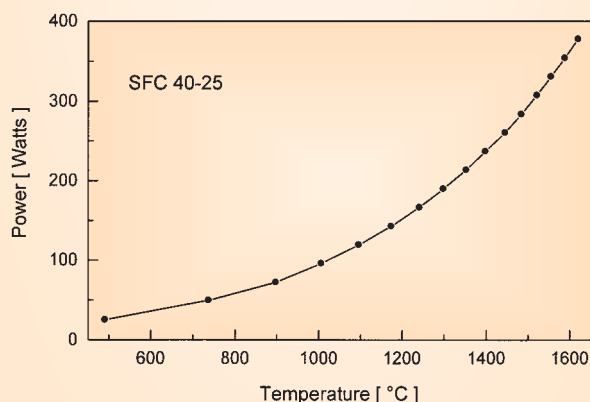
Type	SFC
Heating system	Radiation heating, tantalum wires with PBN insulators
Temperature range	200 °C ...1400 °C
Temperature stability	≤ 0.1 K depending on the PID controller
Max. outgas temp	1600 °C
Max. power	360 W (NW 40 CF)
Max. current	12A
Bakeout temperature	250 °C
Conditioning	Heated to maximum temperature with and without crucible
Shipping	Stainless steel container with valve

Custom :

Flange size	CF 40 / CF 63 / CF 100 or specified
Max. outer diameter	38 mm / 63mm / 100mm etc.
Length	As specified
Thermocouple type	Type C / WRe 5%-26% (or specified)
Crucible material	PBN / PGR / W / Ta / Mo / quartz
Crucible capacity	All standard sizes or specified

Options :

Integrated Shutter	Optional
Water cooling	Optional
Crucible with insert	Optional
Downward looking	Optional



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