

Single Filament Effusion Cell – SF Series

Description

SVT Associates SF Series is the perfect choice for a general purpose source heater for Germanium and related materials. Its single filament design heats the crucible uniformly for evaporation of materials. Models are available for mounting on a 2.75" or larger CF flange. SVT Associates effusion cells are thoroughly tested and characterized before shipment. Water cooling shrouds and integral shutters are optional for 4.50" CF flange or larger.



Specifications

Temperature Range	0 °C – 1,400 °C
Power Requirement	600 W or 1kW
Temperature Stability	+/- 0.1 °C
Temperature Reproducibility	+/- 0.1 °C
Thermocouple Type	Type C (Type D Available)
Crucible Size	16 cc, 20 cc, 22 cc, 40 cc, 50 cc, 60 cc, 85 cc 16 cc and 22 cc Crucibles have tapered wall for best uniformity (PBN Crucible)
Standard Length	*12.0"
Mounting Flange	2.75" or 4.50" OD – CF
Electrical Connectors	Filament: Amphenol Circular T/C: Omega Submini

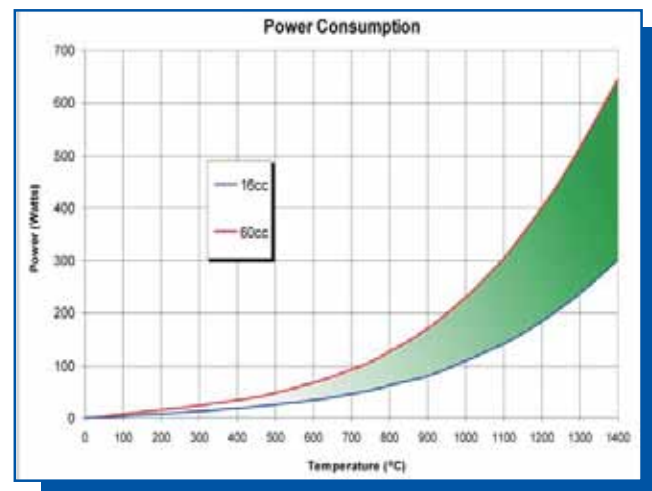
*Contact SVT Associates for Custom In-Vacuum Lengths.

*Other Crucible Materials are Available.

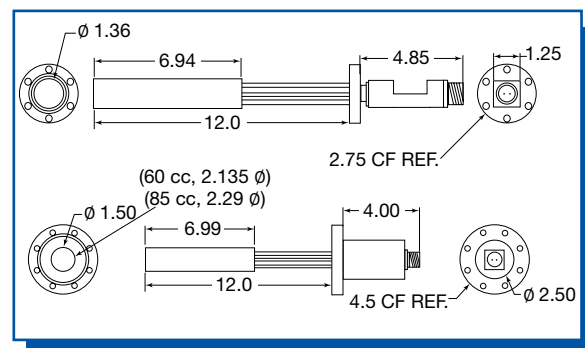
Models	Flange Size (CFF)	Crucible (cc)
SVTA-SF-16-275	2.75"	16
SVTA-SF-16-450	4.50"	16
SVTA-SF-20-275	2.75"	20
SVTA-SF-20-450	4.50"	20
SVTA-SF-22-275	2.75"	22
SVTA-SF-22-450	4.50"	22
SVTA-SF-40-275	2.75"	40
SVTA-SF-40-450	4.50"	40
SVTA-SF-60-450	4.50"	60
SVTA-SF-85-450	4.50"	85

Features

- High Performance Components
- Wide Range of Accesories
- Integral Water Cooling and Shutters
- Sturdy All Tantalum and PBN Hot Zone



Typical power consumption of 16 cc – 60 cc Single Filament Cells.



Schematic Drawing of Single Filament Effusion Cells. Dimensions are given in Inches.

