

EXCEL Series Effusion Cells

Engines for Thin Film Innovation



Description

SVT Associates' EXCEL Series is designed to work in a High Vacuum (HV) or Ultra High Vacuum (UHV) deposition system. It is the perfect choice for use in deposition of organic compounds or very high vapor pressure materials. All sources are rated for a maximum operating temperature of 600 °C. Each source comes standard with a "Hot-Lip" style filament to prevent material build-up at the lip of the crucible during evaporation. All sources use a type K thermocouple. Integral shutters and a cooling shroud are available for 4.5" CF or larger flanges.

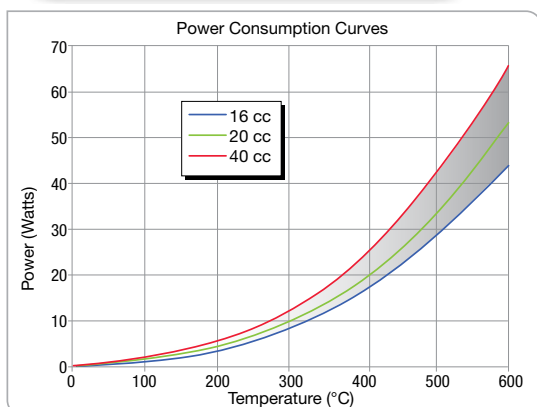
Features

- Designed for Organic Compounds or Very High Vapor Pressure Materials
- "Hot-Lip" Style Filament Design
- A Variety of Flange Sizes Available

Specifications

Temperature Range	0 °C – 600 °C
Power Requirement	600 W or 1kW
Temperature Stability	+/- 0.1 °C
Temperature Reproducibility	+/- 0.1 °C
Thermocouple Type	Type K
Filament Style	Tantalum "Bird Cage" with Non-Conductive Guides
Crucible Size*	16 cc, 20 cc, 22 cc, 40 cc, 50 cc, 60 cc, 150 cc Crucibles have tapered wall for best coverage.
Materials*	PBN and Aluminum Oxide
Standard Length*	12.0"
Mounting Flange	2.75", 4.50" or 6.0 OD – CF
Electrical Connectors	Filament: Amphenol Circular Thermocouples: Omega-Sub-Miniature

*Other sizes, materials, and lengths are available, contact SVT Associates for details.

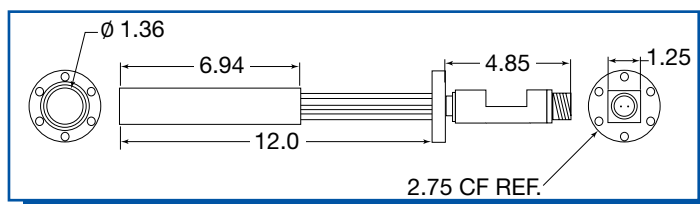


Typical power consumption of 16 cc – 40 cc EXCEL Effusion Cell.

SVTA-EXCEL-(Crucible Size)-(Flange Size)

Flange Size	2.75"	4.50"	6.00"
Crucible Size	16 cc 20 cc 22 cc 40 cc	16 cc 20 cc 22 cc 40 cc 50 cc 60 cc	150 cc

Larger sizes available for the 6.00" flange size, contact SVT Associates for details.



Schematic drawing of EXCEL source for a 2.75" CF mounting. Dimensions are given in Inches.

