

High Temperature Effusion Cell – HT Series

Engines for Thin Film Innovation



Description

SVT Associates' HT Series is the definitive choice for low vapor pressure materials. The source is designed to operate in an UHV environment at temperatures up to 1,800 °C. Models are available for mounting on a 4.50" CF flange. SVT Associates' high temperature effusion cells are thoroughly tested and characterized before shipment. Water cooling shrouds and integral shutters are optional for 4.50" CF flange or larger.

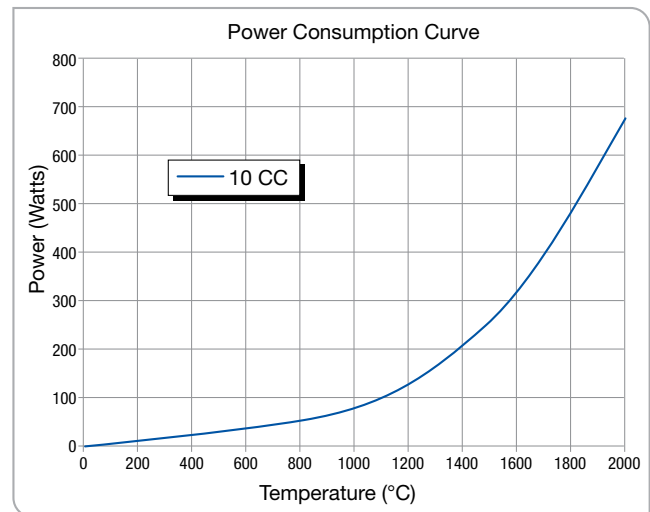
Features

- Designed for Optimal Performance up to 1,800 °C
- Stable Fluxes for Low Vapor Pressure Materials
- Wide Range of Sizes and Crucibles Available

Specifications

Temperature Range	0 °C – 1,800 °C 2,000 °C Model Available
Power Requirement	1kW
Temperature Stability	+/- 0.1 °C
Temperature Reproducibility	+/- 0.1 °C
Thermocouple Type	Type C (Type D Available)
Crucible Size*	10 cc Tapered 16 cc Tapered
Standard Length*	12.0"
Materials*	PBN and Aluminum Oxide
Mounting Flange	4.50" OD – CF
Electrical Connectors	Filament: Amphenol Circular Thermocouples: Omega-Sub-Miniature

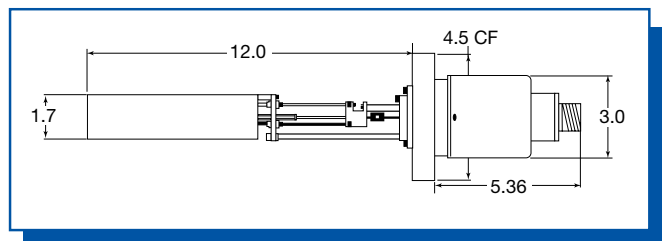
*Other sizes, materials, and lengths are available, contact SVT Associates for details.



Typical power consumption of the 10 cc High Temperature Cell.

SVTA-HT-(Crucible Size)-(Flange Size)

Flange Size	4.50"
Crucible Size	10 cc 16 cc



Schematic drawing of High Temperature Effusion Cells. Dimensions are given in inches.

