

Dual Filament Effusion Cell – DF Series

Engines for Thin Film Innovation

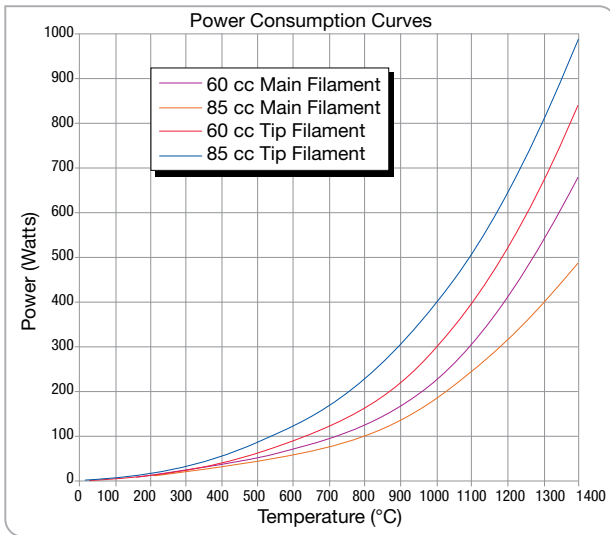


Description

SVT Associates' DF Series is designed for use with Ga and In. Two Independently controlled filaments offer the user greater freedom to grow optimal materials. This source is available for mounting on a 4.50" or larger CF flange. SVT Associates' effusion cells are thoroughly tested and characterized before shipment.

Features

- Excellent Source for Ga and In
- Two Independent Filaments for Complete Temperature Control
- Wide Range of Sizes Available
- Compatible with any MBE System



Typical power consumption of 60 cc – 85 cc Dual Filament Cells.

Specifications

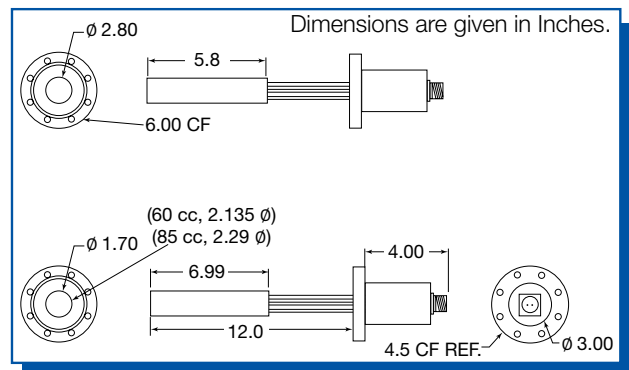
Temperature Range	0 °C – 1,400 °C
Power Requirement	600 W or 1kW
Temperature Stability	+/- 0.1 °C
Temperature Reproducibility	+/- 0.1 °C
Thermocouple Type	Type C (Type D Available)
Crucible Size*	6 cc, 10 cc, 16 cc, 20 cc, 22 cc, 40 cc, 50 cc, 60 cc, 80 cc, 85 cc, 100 cc, and 150 cc Crucibles have tapered 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 T/C: Omega Submini

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

SVTA-DF-(Crucible Size)-(Flange Size)

Flange Size	2.75"	4.50"	6.00"
Crucible Size	6 cc	6 cc	6 cc
	10 cc	10 cc	10 cc
	16 cc	16 cc	16 cc
	20 cc	20 cc	20 cc
	22 cc	22 cc	22 cc
	40 cc	40 cc	40 cc
		50 cc	50 cc
		60 cc	60 cc
		80 cc	80 cc
		85 cc	85 cc
		100 cc	100 cc
			150 cc

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



Schematic drawing of dual filament effusion cells.

