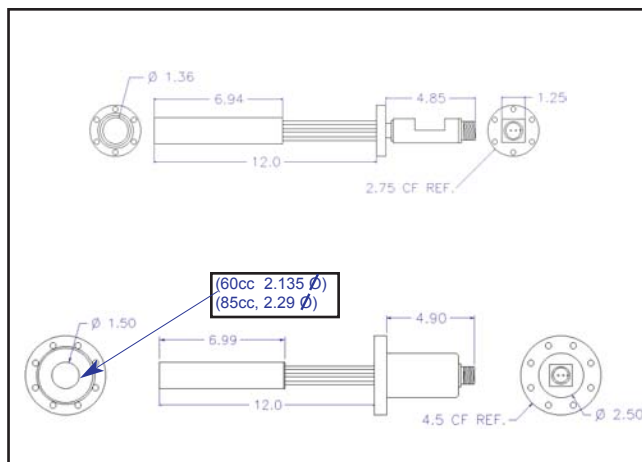


# Hot-Lip Effusion Cell SVT-A HL Series



## Features

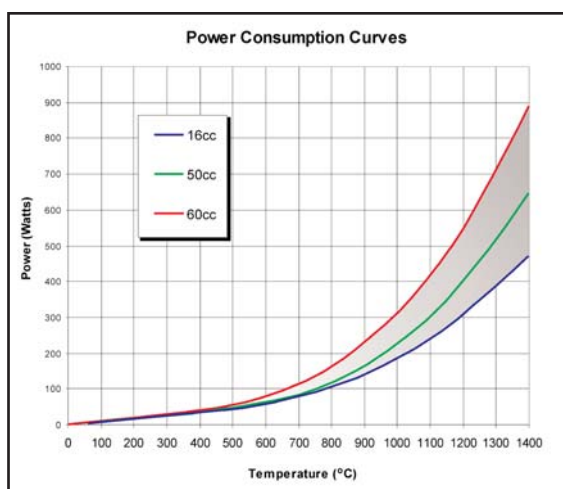
- For III-V MBE system
- Excellent Source for Ga and In
- SVTA “Hot-Lip” Style Filament
- Wide Range of Sizes Available



Schematic Drawing of Hot-Lip Effusion Cells.  
Dimensions are give in Inches.

## Description

**SVT-A** HL Series is designed for materials that require a higher temperature near the lip of the crucible. The hot-lip source has a primary full-length filament that maintains a uniform temperature over the length of the crucible and provides a higher temperature at the lip. Preventing condensation of materials such as Ga and In from forming on the crucible lip during evaporation. A single set of power supply, temperature controller and cable runs the cell. This source is available for mounting on a 2.75” or larger CF flange. As an option, water cooling shrouds and integral shutters requires a 4.50” CF Flange or larger.



Typical power consumption for 16cc - 60cc Hot-Lip cell.

## Specifications

<b>Temperature Range</b> .....	0°C - 1400°C
<b>Power Requirement</b> .....	600 W or 1kW
<b>Temperature Stability</b> .....	± 0.1 °C
<b>Temperature Reproducibility</b> .....	± 0.1 °C
<b>Thermocouple Type</b> .....	Type C (Type D Available)
<b>Crucible Size</b> .....	16cc, 20cc, 22cc, 40cc, 50cc, 60cc, 85cc 16cc and 22cc Crucibles have Tapered Wall for Best Uniformity (PBN Crucible)
<b>Standard Length</b> .....	*12.0”
<b>Mounting Flange</b> .....	2.75” or 4.50” OD - CF
<b>Electrical Connectors</b> .....	Filament: Amphenol Circular T/C: Omega Submini

Model	Flange Size (CFF)	Crucible (cc)
SVTA-HL-16-275	2.75"	16
SVTA-HL-16-450	4.50"	16
SVTA-HL-20-275	2.75"	20
SVTA-HL-20-450	4.50"	20
SVTA-HL-22-275	2.75"	22
SVTA-HL-22-450	4.50"	22
SVTA-HL-40-275	2.75"	40
SVTA-HL-40-450	4.50"	40
SVTA-HL-50-450	4.50"	50
SVTA-HL-60-450	4.50"	60
SVTA-HL-85-450	4.50"	85

- \* Contact SVTA for Custom In-Vacuum Lengths.
- \* Other Crucible Materials are Available.