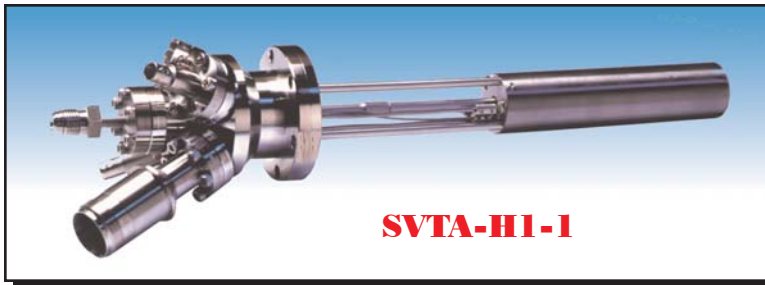


Atomic Hydrogen Source

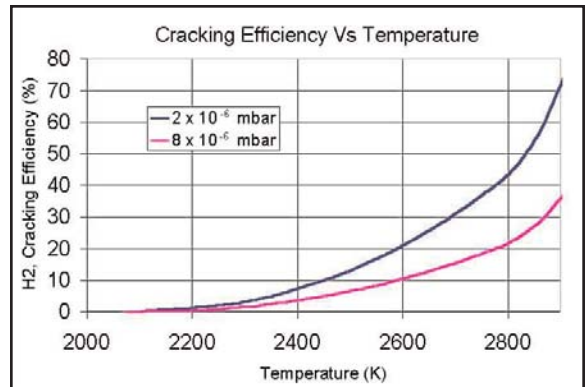


SVTA-H1-1

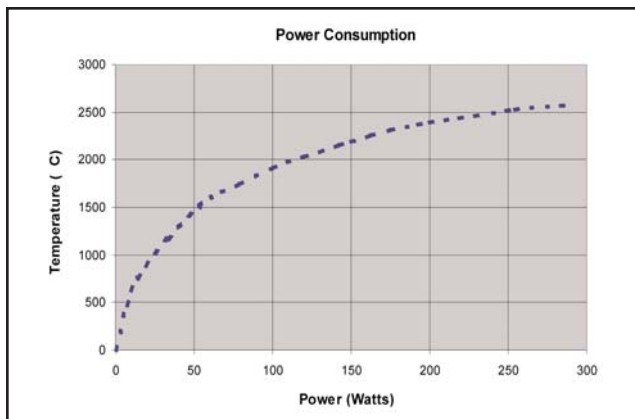
The Atomic Hydrogen Source operates on the principle of electron beam heating. Hydrogen gas is introduced and thermally cracked to produce atomic hydrogen. An excellent source for substrate cleaning.¹

Specifications

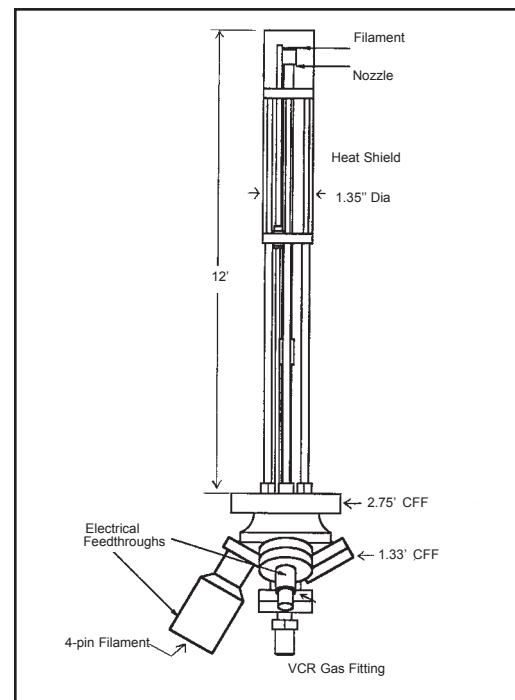
Power.....	300 W
Emission Current.....	100 mA
Temperature.....	2600 °C
Filament Current.....	15 A
Tube Material.....	W, Mo
Electrical Connectors.....	Filaments: Amphenol Circular High Voltage: SHV
Mounting Flange.....	2.75" or 4.50" CFF
Length.....	12" (or Custom)
Option.....	Water Shroud



The above curve shows the cracking efficiency for the SVTA-H1-1 source. The H₂ flow rate will vary according to system type and application. The best working conditions is strongly dependent on the H₂ pressure and also the gas flow rate.



Typical power consumption for the SVTA Atomic Hydrogen source.



Schematic Drawing of the Atomic Hydrogen Source

Models

- SVTA-H1-1
- SVTA-H1-PS
- SVTA-H1-PSC

Description

- 12" Length Hydrogen Source
- Power Supply
- Power Supply Cable

References

1. U. Bischler et al, J.Vac. Sci. Technol, A 11(2) (1993)