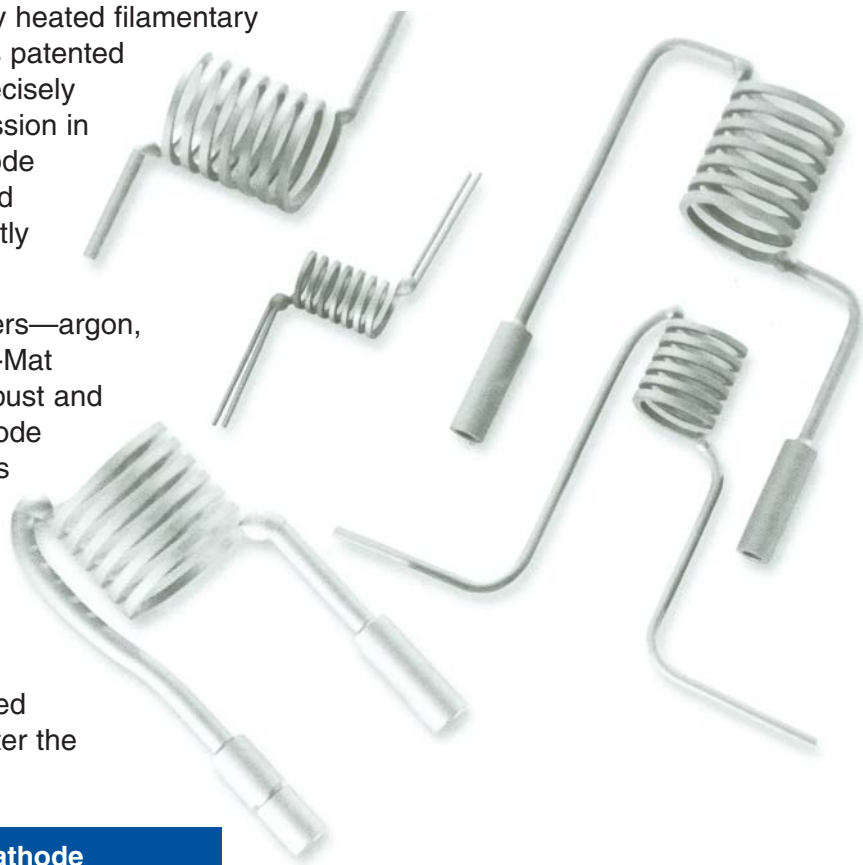


Directly Heated Filament Cathode

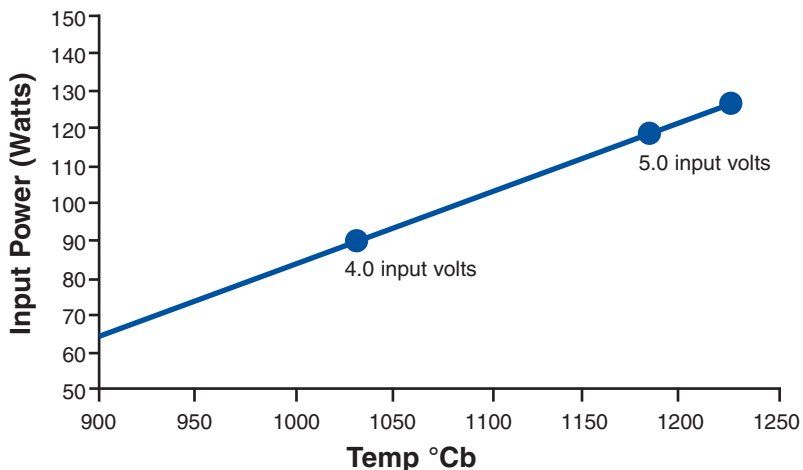
Spectra-Mat, Inc., is pleased to offer directly heated filamentary tungsten dispenser cathodes. Spectra-Mat's patented design (US Patent 3,514,661) allows for precisely machined coils which develop electron emission in accordance with the typical dispenser cathode curves. Operating temperature is quickly and efficiently achieved by passing current directly through the cathode.

In use in hundreds of thousands of gas lasers—argon, krypton, xenon and combinations—Spectra-Mat dispenser cathodes have proven to be a robust and long-lived laser component. Life of our cathode typically exceeds the life of the available gas reservoir. Units have been in operation over 30,000 hours.

SMI utilizes the same processes developed through over five decades of experience manufacturing its microwave dispenser cathodes. Each part is dimensionally checked and the dispenser impregnant confirmed after the infiltration process.



Characteristics for 7 turn Coil Cathode



Filament cathodes are available in diameters from .118 inch to 1.00 inch or larger. Leg dimensions are per customer specification to match your header.

Spectra-Mat engineers are available to support your product needs. Call or visit us at <http://www.spectramat.com>.

For additional information, applications or pricing, please contact:

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