

## Filament for Thermo TRACE

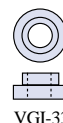
Scientific Instrument Services™ manufactures replacements for the VG TRACE™ filaments which are similar in design to the original. This new design is a direct retrofit and incorporates a glass frit to hold the posts in place.



Part No.	Thermo No.	Description	Price ea.
VGF5	C030A	SIS VG MD800 filament	
FILREP		Filament Repair	

## Ceramic Insulators

Scientific Instrument Services can supply replacement ceramic insulators for the TRACE™ Source Lens. All insulators are constructed from high purity alumina ceramic.



Part No.	Thermo No.	Description	Price ea.
VGI33	C046M	Alumina Ceramic Insulator	

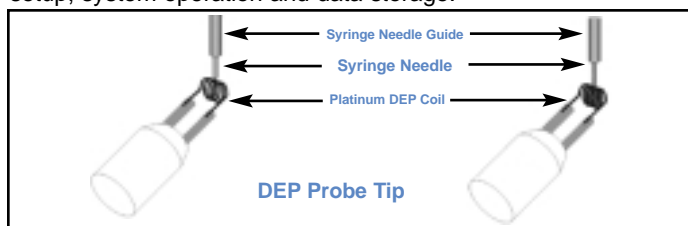
## AutoProbe™

**NEW - Automated Direct Exposure Probe for Thermo Polaris Q, DSQ, DSQ II, and GCQ MS Systems**

For More Details See Pages A57-A60  
or  
Visit the SIS Web Site



The AutoProbe integrates a CTC liquid autosampler with an automated Direct Exposure Probe (DEP) for the automated and unattended injection of dissolved or suspended samples directly into the Thermo DSQ, DSQ II, Polaris Q & GCQ MS source for direct MS analysis. Using this technique, samples can be analyzed in about three minutes without any chromatographic separation. The AutoProbe is fully integrated with the Thermo Xcalibur™ software, including system setup, methods setup, system operation and data storage.



The DEP (or DCI) technique is used for the analysis of samples that are not volatile enough to be introduced into the mass spectrometer via a GC and therefore must be directly introduced into the mass spectrometer source. The DEP technique is normally used for single component samples since minimal separation of samples is possible with this technique and samples with two or more components are difficult to interpret. Alternatively DEP sample analysis is performed utilizing CI (Chemical Ionization) mass spectrometer techniques, which produce less fragmentation in the mass spectrometer. Due to the increased abundance of a molecular ion and reduced fragmentation in the CI technique, it is possible to analyze and interpret mixtures of two or more compounds in a sample.

Part No.	Description	Price ea.
AP2000	AutoProbe System	
AP20001	AutoProbe DCI Filament	

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