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Find the *Agilent / Varian Saturn 2000* at our website: ***Click HERE***

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PRODUCT DATA

ACTIVE FILM Multiplier™

Varian Saturn 2000 ion-trap GC-MS

The ***ACTIVE FILM Multipliers™*** for the Varian Saturn 2000 ion-trap mass spectrometer is specifically designed for this instrument. It is a direct "plug-in" replacement electron multiplier and is fully compatible with Varian hardware and "Multiplier Setup" software.

ACTIVE FILM Multipliers™ are a new development in multiplier technology that incorporate totally air-stable "ACTIVE FILM" materials into a discrete-dynode multiplier design to produce an exceptionally sensitive ion detector with long operating life and excellent air stability. ***ACTIVE FILM Multipliers™*** give a combination of performance and durability unsurpassed by any other type of electron multiplier detector.

ACTIVE FILM Multipliers™ have higher gain than alternative multipliers resulting in consistently lower multiplier voltages. Their long operating lifetime means less frequent multiplier replacement and reduced instrument down-time.

ELECTRON MULTIPLIER FOR VARIAN SATURN 2000



- "Plug-in" Compatible
- High Sensitivity
- Low Noise
- High Gain
- Long Life
- Stable in air

ACTIVE FILM Multipliers™
Arrive ready to install in your
Varian Saturn 2000 ion-trap mass spectrometer

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ACTIVE FILM TECHNOLOGY

ACTIVE FILM Multipliers™ are a new type of electron multiplier detector for mass spectrometry and represent the latest development in electron multiplier technology.

ACTIVE FILM Multipliers™ combine the wide dynamic range and longevity of discrete-dynode multipliers, with the compact size and air stability of continuous-dynode multipliers.

ACTIVE FILM Multipliers™ are completely air-stable while exhibiting extremely wide dynamic range, long operational life, and very high sensitivity.

SPECIFICATIONS	Part No. 14147
Replacement multiplier for Varian Mass Spectrometer model number:	Saturn 2000 GC-MS
Typical voltage to achieve $1x10^5$ gain	1.35 kV
Maximum Dark Current at 2.5kV	<1 picoamp
Maximum bake-out temperature in vacuum	350°C
Number of dynodes	15
Total internal resistance (HV lead to ground)	22.8 $\mu\Omega$

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ETP Electron Multipliers

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ETP web site: http://www.etpsci.com

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