

ACTIVE FILM Multiplier™

Agilent Technologies (HP) 5973 series MSD

The **ACTIVE FILM Multipliers™** for the Agilent technologies 5973 MSD (Mass Selective Detector) is specifically designed for the instrument. It is a direct "plug-in" replacement electron multiplier assembly for the HP5973 MSD series mass spectrometer and is fully compatible with Agilent Technologies hardware and "Auto-tune" software.

ACTIVE FILM Multipliers™ are a new development in multiplier technology that incorporates 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 "Auto-tune" voltages. Their long operating lifetime means less frequent multiplier replacement and reduced instrument down-time.

ACTIVE FILM MULTIPLIERS™

arrive ready to install in your Agilent Technologies 5973 MSD.

ELECTRON MULTIPLIER AND MOUNT FOR HP5973 PART NO. 14617



REPLACEMENT ELECTRON MULTIPLIER FOR HP5973 PART NO. 14616



INSTRUMENT

Agilent Technologies 5973 MSD

PART NO

14616 Multiplier **only**
and 14617 Multiplier & mount

- "Plug-in" Compatible
- High Sensitivity
- Low Noise

- High Gain
- Long Life
- Stable in air

APPLICATION

GC-MS

PRODUCT DATA

ACTIVE FILM TECHNOLOGY

ACTIVE FILM Multipliers ACTIVE FILM Multipliers are a completely 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.

NOTE

Initial installation of the ACTIVE FILM Multipliers for the HP 5973 MSD requires part number 14617, which includes the electron multiplier and the mount.

The mount houses the HED (high energy dynode) which increases the energy of the ions and reduces multiplier contamination.

After initial installation, only the replacement electron multiplier, Part No. 14616, is required.

SPECIFICATIONS

PART NO. 14616 Multiplier only
PART NO. 14617 Multiplier & mount

Replacement multiplier for Agilent Mass Spectrometer model number:	HP 5973 GC-MS
Typical voltage to achieve 1×10^5 gain (when new)	1.25 kV
Maximum Dark Current at 2.5kV	<1 picoamp
Maximum bake-out temperature in vacuum	350°C
Number of dynodes (excluding HED)	15
Total internal resistance, includes zener diode (HV lead to ground)	22.4 M



ETP Electron Multipliers

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