

NEW! Electron Multipliers for Mass Spectrometry

By Sue Benes, GC Accessories Product Marketing Manager

- The multi-dynode approach of all ETP electron multipliers results in longer lifetimes and better sensitivity compared with channel electron multipliers or continuous dynode multipliers.
- Optimized ion and electronic optics and unique dynode shapes for maximum performance.
- Increased surface area for enhanced sensitivity and extended operational life.



Cat# 23074

Features of ETP Electron Multipliers

- Proprietary specialized surface material resulting in very high secondary electron emission.
- Air stable.
- 2-year shelf life guarantee.
- Discrete dynode design results in extended operating life.

The electron multipliers manufactured by ETP use a proprietary dynode material. This material has a number of properties that make it very suitable for use in an electron multiplier. It has very high secondary electron emission, which allows exceptional gain to be achieved from each dynode. This material is also very stable in air. In fact, an ETP multiplier can be stored for years before being used. As a direct result of the high stability of the active materials used in ETP multipliers, they come with a 2-year shelf life warranty (store in original sealed package). Many testing laboratories take advantage of this long shelf life by keeping a replacement ETP multiplier on hand, ready for immediate installation. This keeps the instrument down time to a minimum.

For a typical ETP electron multiplier for GC/MS, the total active dynode surface area is ~1000mm². This can be compared to a standard continuous dynode multiplier that has a total channel surface area of only around 160mm² (for a channel with 1mm diameter and 50mm length). This increased surface area spreads out the work-load of the electron multiplication process over a larger area, effectively slowing the aging process and improving operating life and gain stability.

ETP Electron Multipliers for Mass Spectrometry

Description	qty.	cat.#
Electron Multipliers for Agilent GC-MS and LC-MS		
For Agilent 5970 GC-MS	ea.	23072
For Agilent 5971, 5972, GCD GC-MS	ea.	23073
For Agilent 5973 & 5975 GC-MS (includes mount for initial installation)*†	ea.	23074
For Agilent 5973 & 5975 GC-MS and LC-MSD (Replacement Multiplier)*†	ea.	23075
For Agilent LC-MSD (includes mount for initial installation)*†	ea.	23076
Electron Multipliers for Applied Biosystems (Sciex)		
For API 300, 3000 & 4000 Applied Biosystems	ea.	23077

*Note: The electron multipliers have been specifically developed to retrofit the original manufacturer's equipment. The detector incorporates a modular design to facilitate ease of replacement and additional innovations intended to enhance performance. First time installation requires a mount which includes the mechanical housing. After initial installation, only the replacement electron multiplier is required.

†This unit is designed for use in the 5975, 5973 GC and the LC/MSD.

for **more info**

For more information on ETP Electron Multipliers, request **lit. cat.# GNFL1000**.

please note

Other electron multipliers are available upon request. Call 800-356-1688 ext. 4, or contact your local Restek representative, for information on other models.