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HP 5970 MSD – Mass Spectrometer

The HP 5970 MSD is a standalone capillary GC detector designed for use with a variety of gas chromatographs. Compact and portable, this requires no cooling water or compressed air, and operates on standard 120v power.

The mainframe includes:

- GC interface
- Electron impact ion source
- Hyperbolic quadrupole mass filter
- Electron multiplier detector
- Power supply
- Drive electronics
- Analyzer vacuum system

Software on the data systems includes programs which automatically adjust voltages in the ion source, calibrate mass assignment, and control scanning of the mass analyzer. Data acquisition programs allow the operator to monitor the total ion current, automatically storing the mass spectra of GC peaks as they elute, or to monitor several ions in the selected ion monitoring mode.

Data editing programs provide for plotting the mass spectra, tabulating spectra, and searching spectra libraries.

Specifications:

Mass selection: Scanning mode: Scans any mass range between 10 and 800 amu in 0.1 amu steps. Up to three ranges may be selected using time programming.

Resolution: Unit resolution throughout mass range established automatically under computer control.

Scan speed: Eight user-selected scan rates with a maximum of 1500 amu/second with 0.1 amu mass resolution.

Sensitivity: Typical performance for 1 ng of methyl stearate yields a signal-to-noise ratio of better than 20:1 at

m/z 298.3 when scanned at 380 amu/second between m/z 290 and 310.

Selected Mode: Monitors up to 20 individually selected masses at one time. Up to 10 groups of 20 masses may be selected for each run using time programming.

Dwell time: User-selectable from a minimum of 10 milliseconds per m/z value up to a maximum of 327.57 milliseconds.

Detector: Continuous dynode electron multiplier. Power supply to the multiplier is computer controlled. Maximum voltage is 3000v.

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