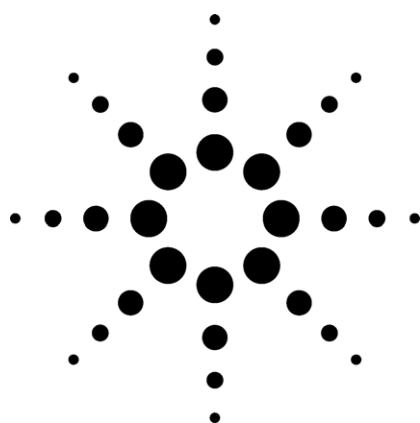


Agilent 5975 inert GC/MS System

Data Sheet



GC/MS

The Agilent 5975 inert Gas Chromatograph/Mass Spectrometer is the latest GC/MSD with higher performance and capabilities. The instrument incorporates the solid inert source of previous models to give even better sensitivity for active compounds.

New with this model are eMethods, a simple means of complete method transfer. Now it is possible to share methods between 5973 and 5975 MSDs or to download methods directly from Agilent.

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Mass Spectrometer

Mode (standard)	EI
Modes (optional)	PCI, NCI, EI with CI source
Ion source type	Noncoated inert EI source
Mass filter	Monolithic hyperbolic quadrupole
Maximum mass	1050 u
Detector	EM with replaceable horn
Scan rate (electronic)	Up to 10,000 amu/s
Pumping system	70 L/s or 262 L/s turbomolecular pump with 2.5 m ³ /h mechanical pump

Gas Chromatograph (6890N)

Injector	Split-splitless (standard), others available
Oven temperature	Ambient +4 °C– 450 °C
Oven ramps/plateaus	6/7
Electronic pneumatic control (EPC)	Auto pressure regulation for split/splitless, septum purge
Carrier gas control modes	Constant pressure and flow modes; pressure and flow programmable



Agilent Technologies

Data System

eMethods	Transfer methods between 5975 and 5973 Series MSDs
Simultaneous MS and GC	Four signals (up to two MS) detector data acquisitions
SIM/Scan	Automated SIM setup and synchronous SIM/scan operation
Application autotunes	One-click autotune for BFB, DFTPP
Spectral libraries (optional)	NIST, Wiley, Pfleger-Mauer Drug, Stan pesticide
Spectral and RTL databases (optional)	Pesticides and endocrine disrupters, volatiles, PCBs, toxicology, FAMEs, flavors, organotin compounds
21CFR11 Compliance	Optional software available

Installation Checkout Specifications

El scan sensitivity	1- μ L injection of a 1-pg/ μ L OFN standard scanning from 50–300 u will give 100:1 S/N at nominal m/z 272 ion.
PCI scan sensitivity	1- μ L injection of a 100-pg/ μ L BZP standard scanning from 80–230 u will give 125:1 S/N at nominal m/z 183 ion.
NCI scan sensitivity	2- μ L injection of a 100-fg/ μ L OFN standard scanning from 50–300 u will give 300:1 S/N at nominal m/z 272 ion

Physical Requirements

Dimensions (GC/MS)	88 cm (w) \times 56 cm (d) \times 50 cm (h) Additional space should be added for the data system and printer.
Weight (GC/MS)	81 M or 96 kg (depending on configuration)

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