

4000 M7

GC-MS System

The GC-MS system based on the Crystallux-4000M chromatograph and the M7 mass spectrometer, developed jointly with Persee, is a reliable and accurate system that is suitable for mass routine analysis and accurate research. GC-MS is widely used in the field of food analysis, ecology, chemical industry, oil and gas processing, medicine, forensic science in other areas.

Convenient Design

- Presence of the observation window and the indicator panel
- Modular design
- Lateral vacuum chamber design simplifies system maintenance

Reliable Structure

- Double filament reduces service frequency
- The special design of the surface repulsion electrode and
- The presence of pre-quadrupoles allows to reduce the pollution of the main quadrupole
- Molybdenum alloy quadrupole
- Compact amplifier with a combined conversion technology effectively reduces noise and improves the signal-to-noise ratio

Friendliness

- The software is intuitive and easy to use even for users without special training
- With the remote access feature, our experts will help you manage the tool and analyze data



Specifications

Type of ionization	EI
Transferline	Capillary interface, independent temperature control, 50-300 °C
Filament	Dual, maximum current 300 μ A
Ionization energy	10-100 eV, regulated
Ion source temperature	350 °C, adjustable
Auxiliary pump	Mechanical pump, geometric pumping speed 165 l / min
Turbomolecular pump	Pumping speed 71 l / s, 260 l / s (optional)
Linear range	106
Mass range	1,5-1050 amu
Mass accuracy	$\pm$ 0,1 amu
Resolution (R)	1pg OFN with full scan – $\geq$ 500: 1 RMS with m / z 272 100 fg OFN with selective ion scanning – $\geq$ 150: 1 RMS with m / z 272
M/z stability	$\pm$ 0,1 amu/48h
Maximum scan speed	11000 amu/s