KORE TECHNOLOGY

MS-200

Providing fully portable analysis.

Mass resolution > 200 m/δm

Detection limit < 5ppb in 10 sec (benzene)

Weight 23kg

Dual membrane inlet

Portable, battery-powered

Affordable EI-TOF-MS Technology

Kore is excited to present the MS-200: a portable, battery-powered electron ionisation mass spectrometer for gas analysis – entirely contained in a suitcase.

KORE TECHNOLOGY

At the heart of the MS-200 is Kore's patented Converging Annular Time-of-flight mass spectrometer. The CAT's high sensitivity is the key to making the system portable. As extremely small quantities of sample gas are required, low powered, zero maintenance vacuum pumps can be used.

There is no need for a separate vacuum base station as the CAT vacuum system is kept permanently sealed and is entirely self-contained within the MS-200 case. The vacuum is maintained by an ion pump and a non-evaporable getter pump. The battery can run the ion pump for approximately four days. If the battery runs flat, the getter pump maintains the vacuum until power is re-applied.

FULL SPECIFICATION

Concentration range	From ppb levels to 100% (% using minor isotopes)
Maximum sensitivity	Benzene detection limit <5ppb in 10 seconds (membrane inlet)
Mass resolution	>200 m/δm (FWHM)
Mass range	1-1000 m/z
Electron impact ion source	70eV; compatible with NIST database
Dimensions	531 x 328 x 213 mm
Weight	23kg
Pumping	Built in ion pump and getter pump
Battery run time	Analysis: 6 hours (1 spectrum every 5 mins) Pumping only: 4 days
Supplied with dual membrane inlet	Enhanced sensitivity for VOC detection
Response time after new gas sample introduction	Variable, depending upon compound permeation rate. Typically tens of seconds

MS-200 APPLICATION AREAS

- Detection and analysis of VOCs on remediation sites
- Urban air quality research
- Industrial hygiene
- Emergency response testing
- Fire and crime scene investigations

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