

GAS



evolution 2

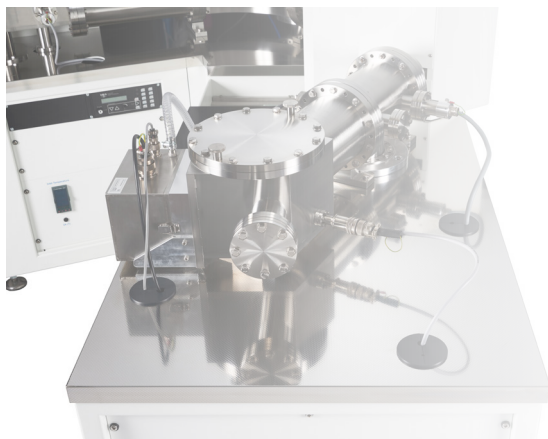
*High Resolution Gas Source
Mass Spectrometry*



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Evolution 2 - High Resolution Gas Source Mass Spectrometry

Evolution 2: High Resolution Gas Source Mass Spectrometry



Application Areas



geochemistry



environmental



nuclear

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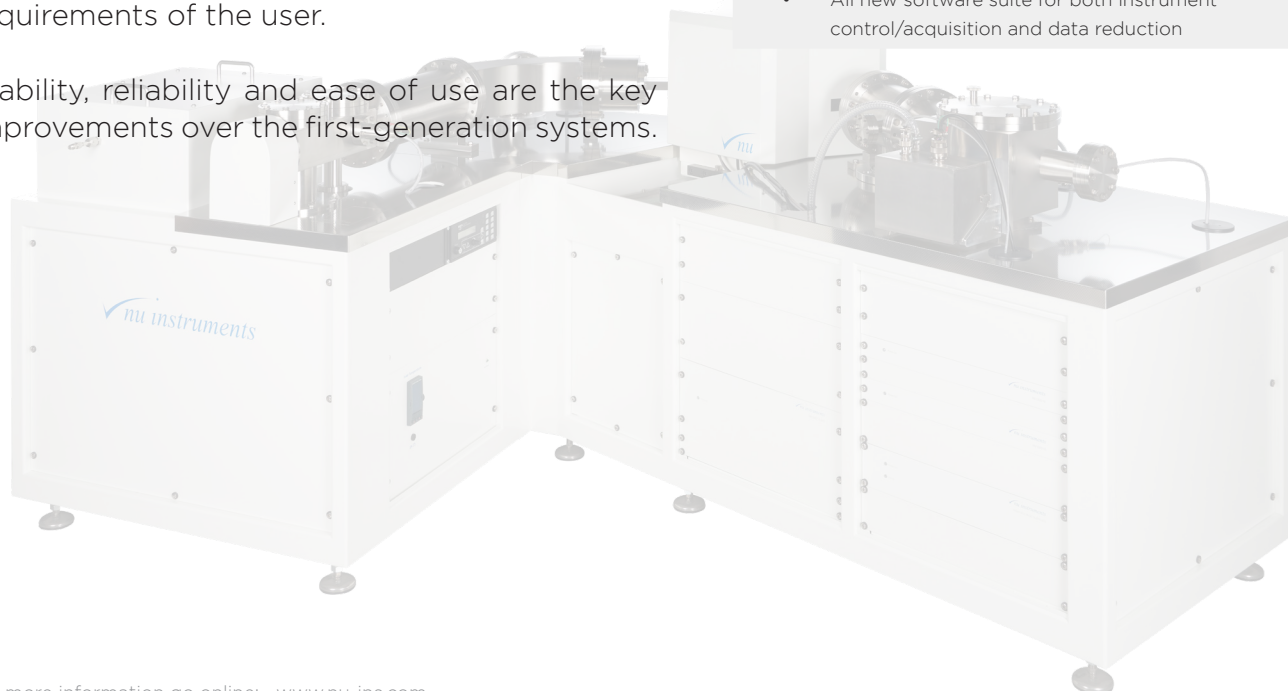
Introduction

Evolution 2 “Evolves” from the first generation “Nu Evolution” of which there are 10 installed at national laboratories worldwide. The Evolution 2 is a high resolution magnetic sector mass spectrometer with an electron impact source for the ionisation of gaseous samples including Hydrogen, Deuterium, Tritium etc. The Evolution 2 is equipped with a larger dispersion magnetic sector mass spectrometer and can be used in online or offline applications and is offered with a range of inlet systems to suite the requirements of the user.

Stability, reliability and ease of use are the key improvements over the first-generation systems.

Key features:

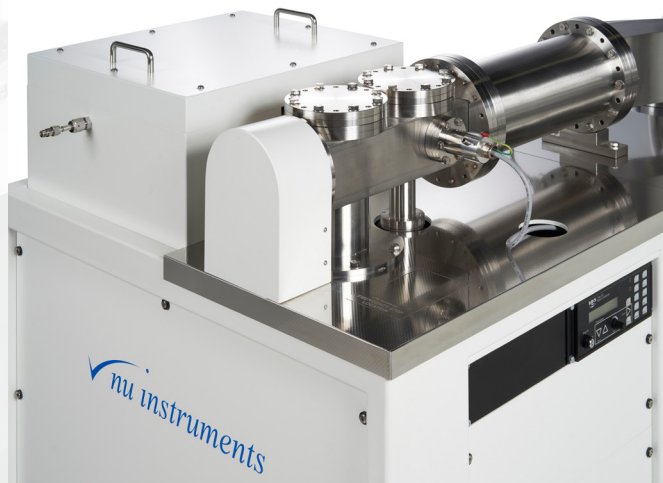
- “Nier” type enclosed electron impact ionisation source
- Laminated magnet for fast peak jumping
- Double focusing mass spectrometer capable of resolutions in excess of 5000 (sufficient to resolve CO₂ and N₂O at mass 44)
- Fully computer-controlled mass spectrometer and inlet system
- A range of inlet systems offered
- Capable of both online and offline applications
- Multiple resolution collectors for ultimate performance in stability and detector lifetime
- Robust design with no moveable parts in the collector region
- Fully turbo pumped vacuum system, for better analyser vacuum
- All new software suite for both instrument control/acquisition and data reduction





Inlet Systems

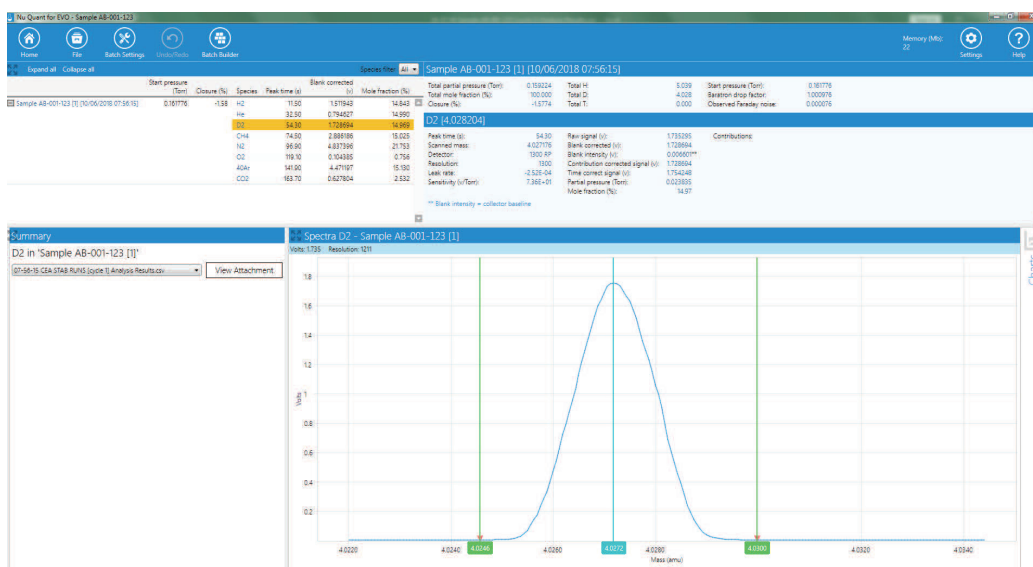
From a simple 1 inlet port expansion reservoir system to a fully automated 20 sample inlet tower, Nu Instruments can provide an inlet system to meet the requirement of any application.



Software Suite

With an emphasis on ease of use and configurable for a user's own workflow, the instrument control and acquisition software (Nu CoDaq) is a totally new software platform running under Windows 10.

For data reduction and reporting, "Nu Quant" is again a totally new software platform running under Windows 10 and provides peak detection, integration, user defined calculation output and reporting. Nu Quant can be installed on multiple computers in order to view/edit data while away from the instrument.



evolution 2

Innovators in Mass Spectrometry



High Resolution Gas Source MS



geochemistry



environmental



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*Innovators in Mass Spectrometry. We deliver cutting-edge science and technology solutions, and offer our customers unparalleled support and maintenance service through the comprehensive **AMECARE** program.*

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