Cambridge Core

The new home of Cambridge Journals cambridge.org/core

Cambridge Core



Cambridge Core

The new home of academic content

cambridge.org/core

Cambridge Core







Scientific Instruments for Radiocarbon Dating

Ionplus⁵ covers the entire range of dedicated ¹⁴C laboratory equipment. Our instruments are designed for fast and efficient sample processing with a very high degree of automation. We offer fully automated graphitization systems – AGE 3, gas interface systems for unattended gas measurements of small samples – GIS, automated carbonate handling systems – CHS, and a range of peripheral devices. High-precision δ^{13} C and δ^{15} N values can be conveniently obtained online during graphitization and gas measurements with a newly implemented IRMS instrument.

A high degree of automation and the outstanding reliability of all *lonplus*^{*p*} instruments maximize the repeatability of sample preparation and measurements, thus helping you to improve the throughput, precision and accuracy of your radiocarbon analyses. The *lonplus*² mini carbon dating system – MICADAS is the world's smallest commercially available ¹⁴C-AMS system and offers high performance while reducing maintenance to a minimum:

- Dating of samples back to 50'000 radiocarbon years
- Negative ion currents of 50 to 150 μA on graphite* and 10 to 20 μA on gas samples**
- Helium stripping for a high ¹⁴C-transmission of 47%, fast tuning and high measurement stability
- Dimensions and weight: 3.4 m × 2.6 m × 2 m, 4500 kg
- Equipped with optional permanent magnets, MICADAS is the first energy efficient AMS system and renders expensive water cooling systems redundant.

*With 1 mg carbon ** With 10 µg C or more



Ionplusឹ

Contact us for more information 895 on our products and services https://doi.org/10.101//RDC.2016.113 Published online by Cambridge University Press

Ionplus AG Lerzenstrasse 12 8953 Dietikon Switzerland Tel: +41 43 322 31 60 Fax: +41 43 322 31 79 www.ionplus.ch info@ionplus.ch