

Mindex Ltd

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EA-IRMS ANALYSER



EA-IRMS for solid and liquid samples. In year 2000, Mindex introduced a dedicated line of Elemental Analyzers (EA) and Pyrolytic Unit (PyrOH) to be couple with IRMS. Since then EA have been regarded as innovation leader in Continuous Flow-EA-IRMS. In consideration of the expansion of the segment and new emerging requirements, Mindex Ltd have incorporated year after year a number of accessories, in line with the stringent requirements for this technique. Present offering of products and related applications are: EA3024-IRMS (up to 1100°C) for (NC), (S), in combustion - (H) in water Pyrolysis

EA3028-IRMS (up to 1200°C) for (NC), (S), in combustion - (H) (O) in water Pyrolysis SATELLITE Unit Incorporating HT-Furnace for (O-H) Pyrolysis up to 1500°C

Continuous flow EA system

Combustion systems are working at Low Temperature (LT) at around 1000°C. They guarantee high throughput for (NC), 500 Analyses, and (S), 400 Analyses, without user intervention. (H) & (O) Pyrolysis in water analysis are performed at 1050°C or 1150°C using Modified Quartz reactor. For (H-O) Pyrolysis in Organic and Inorganic solid samples, HT-Furnaces up to 1500°C and Ceramic-Glassy Carbon Reactors are needed. The features of the Satellite Unit, as add-on to EA to perform HT Pyrolytic Application preserving Combustion applications layout, are reported here below.

Satelite HT furnace up to 1500 deg c

In the combined technique of Catalytic Pyrolysis (PyrOH) coupled with (IRMS), the overall system accuracy is mainly due to the PyrOH ability to face issues related to the critical steps of Organic and Inorganic solid samples conversion into gas species. PyrOH performing to expectation in providing CO and H₂ representative gases is the today challenge to achieve improved overall results.

The hearth of the system is the innovative neat approach of the HT-Furnace built-in in the purposely designed Satellite Unit featuring multilevel temperature set, programmable heating rate, adjustable thermocouple, electronic control of direct radiation heat transfer and effective cooling system.

For prices please email sales@mindex-ltd.co.uk and we shall provide a competitive price.

For more information please contact:

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