

AGILENT 4210 MP-AES ELEMENTAL ANALYSIS THAT RUNS ON AIR



"Agilent's MP-AES is well suited for the rapid elemental analysis of liquid samples such as wine and spirits. Because it is automated, it is easy to load and use, and frees-up valuable staff time with its walk-away platform.

Replacing our AA instruments with the Agilent's MP-AES has enabled us to increase both the volume and range of samples we analyze in our laboratory. The platform is robust and can quickly perform sensitive multi-element analyses on a single sample, and provides rich analysis data with its impressive software capabilities. Its lack of drift provides a consistent QC range—even after 180 sample runs—which was not the case with the AA instrument.

I would recommend Agilent's MP-AES to all labs conducting elemental analysis in the wine industry."

— MR. JOHN ERASMUS
DISTELL, SOUTH AFRICA

The 4210 MP-AES has high sensitivity, sub ppb detection limits and is faster than conventional flame atomic absorption. Best of all, the Agilent 4210 MP-AES runs on air instead of combustible gases.

Low cost of ownership

- No ongoing supply of expensive gases, drastically reducing your operating costs
- Reduced labor costs with safe, reliable, unattended multi-element analysis
- Increased sample throughput with a fully integrated Advanced Valve System

Improved lab safety

- No flammable or oxidizing gases needed, eliminating gas leak dangers
- No need to plumb multiple gases into your lab; ideal for remote locations such as mine sites or environmental monitoring stations

Class leading performance

- A magnetically excited microwave plasma and vertically positioned torch enable difficult matrices to be handled with ease, from organics to geochemical samples
- Superior to flame AA in sensitivity, linear dynamic range, detection limits and analysis speed

Fast & easy to use

- Application-specific software applets automatically load pre-set methods so you can start analysis immediately with minimal training
- Fast startup and reproducible performance with a fully integrated switching valve and plug-and-play torch
- Smart diagnostic software simplifies troubleshooting, maximizing instrument uptime

How it works

The excitation source of the Agilent 4210 MP-AES is unique — a magnetically excited microwave plasma.

Lowest cost of ownership, improved laboratory safety, better performance than flame AA, and easier to use — it's time to switch to the Agilent 4210 MP-AES.

Lowest cost of ownership

The nitrogen generator eliminates on-going gas requirements, dramatically reducing operating costs.

Safe and efficient

By running on air, the Agilent 4210 MP-AES eliminates flammable or oxidizing gases and the safety concerns of gas handling in your lab.

Rugged

The standard sample introduction components can handle almost all sample types from organics to acidic aqueous solutions.

Plug-and-play hardware

Torch loader eliminates time consuming torch alignment and gas connections, getting you up and running fast.

Reliable

The optional optics purge and the innovative wavelength drive makes the 4210 MP-AES perfect for repeatable analysis in harsh on-site laboratory environments.

Enhanced stability and precision

Solid state CCD detector provides simultaneous background or interference correction.



Wide application range

The tuned waveguide, mass flow control on the nebulizer gas, a humidifier and optional accessories enable a broad range of applications to be performed.

For more information contact your local Agilent representative or visit:
www.agilent.com/chem/atomic

Information, descriptions and specifications in this publication are subject to change without notice.

© Agilent Technologies, Inc. 2016
Published September 1, 2016
5991-7247EN