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New sample presentation systems for the SpectraStar 2400 RTW NIR analyzer

Columbia, MD – September, 2009 Unity Scientific, LLC has announced the development of new sample presentation systems for its NIR spectrometer with in-built monochromator, the SpectraStar 2400 RTW (Rotating Optical Window). Widely used in the food industry, this analyzer features a sample platter whose optical window operates in static and/or rotating mode. The new platter and adaptors enable simple and reproducible presentation of many sample types: whole grains and pellets, powders, viscous and paste products, and non-uniform ground products.



A SAMPLE PLATTER COMPATIBLE WITH SEVERAL CUP TYPES

The new multi-position platter (Fig. 1) and the new adaptors designed by AMS France are positioned on the analyzer's optical window. The adaptors are used to quickly change between several types of sample cup: a 13 cm rotating open cup (for whole grains and pellets), an open rotating cup with lip for fluid powders (Fig. 2), Petri dishes (Fig. 3), a closed cup for non-uniform ground products (Fig. 4) and a small cup for ISI-type powder (Fig. 5). Thanks to this system, the presentation of varied samples is both simple and reproducible.



Figure 1



Figure 2

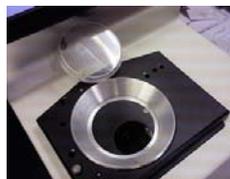


Figure 3



Figure 4



Figure 5

A RELIABLE AND ACCURATE NIR ANALYZER

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The SpectraStar 2400 RTW provides rapid and accurate analyses. In the majority of cases, its results can be compared to those obtained using benchmark procedures. It features a monochromator with long-life lamp whose wavelength range is from 1200 to 2400 nm and 1100 to 2500 nm. Its in-built InGaAs detector confers superior performance both in terms of rapid response time and sensitivity and stability. Its measurement time is from 10 to 45 seconds, with an average scan speed of 0.7 of a second.

Other features:

- Photometric range: 3 Abs
- Photometric noise: 20 μ AU (at 1640 nm)
- Dimensions: 330 x 368 x 381 mm (W x H x D)
- Weight: 13.6 kg