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New extraction solutions increasing extraction speed while offering more flexibility

Jan. 2019, Flawil, Switzerland - BUCHI Labortechnik AG announced today the release of a **new extraction line with industry-leading speed, highest application flexibility and smartly designed safety features.**



UniversalExtractor E-800



FatExtractor E-500

The newly launched products include a fully automated extraction unit designed for the most challenging extraction tasks in residue and contaminant analysis, natural products research and analysis of polymers and materials.

The second instrument is specialized in quick and reliable fat extraction, in combination with the new hydrolysis unit with a sample preparation step for fat extraction; BUCHI can offer a fully compliant solution for the most dependable fat determination in food and feed.

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“Extraction is a standard sample preparation step for a myriad of applications, so having the flexibility to quickly and reliably meet requirements for different extraction methods, solvents and process parameters can be difficult,” said Vahé Iplikci, Director BU Food & Feed at BUCHI. “We have relied on **35 years of experience in extraction** to develop a new product line that meets the most important customer needs, such as method flexibility, fast and reliable results, rugged and compliant methods and safe procedures for operator and environment.”

The new fully automated extractors perform the **fastest and most reproducible** extraction processes with full compliance. The extraction time is only a fraction of those of traditional glass set-ups or other solvent extraction units on the market thanks to specialized glass assemblies, high-speed heaters and sophisticated process control.

“The new line meets the highest safety standards for minimal solvent exposure to ensure safe and environmental friendly extractions,” added Mr. Iplikci. “Permanent monitoring of heaters, cooling water and solvent levels enables outstanding user protection and smoother processes. With sample safety in mind, we have also developed a **patent pending analyte protection** sensor to prevent the deterioration of heat sensitive analytes.”

The UniversalExtractor E-800 sets new standards for universal extraction tasks in the pharmaceutical, chemical, food and feed industries. The system combines **five compliant extraction methods** (Soxhlet, Hot extraction, Twisselmann, Soxhlet warm and continuous flow) in one universal glass-assembly. The product enables more multitasking possibilities, faster method development and higher sample throughput.

The FatExtractor E-500 is specifically designed for quick and compliant fat determination. The FatExtractor E-500 readily complies with standard methods such as Soxhlet, Hot Extraction (HE) or Twisselmann (ECE).

HydroEx H-506 offers a smooth acid hydrolysis process and perfectly complements the FatExtractor E-500 with easy sample transfer between the two systems.

The new extraction units join BUCHI’s existing portfolio for **complete proximate analysis with Kjeldahl and NIR solutions**. The company’s solutions include innovative products for the entire process workflow, personalized support, easy-to-use data management and professional maintenance. The company aims to satisfy its growing global customer base by continuing to understand specific demands and by designing solutions that fully meet and exceed customers’ high expectations.