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Advanced Ultra-High Performance Liquid Chromatography Systems Enhance Lab Productivity

New, easy-to-use analytical systems provide high-throughput comprehensive characterization and quantitation of small and large molecules

MUNICH – Analytica 2018 /PRNewswire/ -- The analytical complexity of new and emerging pharmaceuticals and biopharmaceuticals can now be met with advanced ultra-high performance liquid chromatography (UHPLC) systems designed to streamline workflows and help reduce cost per sample.

The next-generation Thermo Scientific Vanquish Duo UHPLC systems are designed to maximize throughput and return on investment (ROI), while providing scientists with a robust and comprehensive understanding of their samples. The systems, which were introduced in February 2018, are on display at Analytica 2018 (Messe München, booth 101, hall B1) in Munich, Germany.

"The increasing demand being placed on the pharmaceutical and biopharmaceutical industry to deliver safe and effective medicines that meet regulatory standards is presenting a unique set of analytical challenges," said Fabrizio Moltoni, vice president and general manager, HPLC, chromatography and mass spectrometry, Thermo Fisher Scientific. "The Vanquish Duo UHPLC systems provide a high-throughput and robust solution required to enable full characterization of small and large molecules in a manner that creates confidence and quality, while helping to protect customers' investment."

Each system in the Vanquish Duo UHPLC family enables scientists to meet different analytical and resource challenges:

- The **Vanquish Duo for Dual LC system** runs two applications in parallel on a single instrument – whether used for identical analysis to double throughput or for different analysis for deeper sample knowledge. The system can increase capacity and performance without sacrificing bench space.
- The **Vanquish Duo for Tandem LC or LC-MS system** is designed to provide maximum sample throughput and positive ROI by eliminating column reconditioning to maximize detector/mass spectrometer utilization. The system splits the analysis between two pumps, delivering a configuration that allows two identical columns to be run sequentially. One pump delivers the analytical gradient while the second pump delivers the recondition gradient intended to provide faster analysis without compromising data quality.
- The **Vanquish Duo for Inverse Gradient** enhances detection for Thermo Fisher's innovative charged aerosol detection (CAD) technology. The inverse gradient is formulated to provide a uniform CAD response under gradient elution conditions – allowing users to reliably quantify the compounds in a sample without bias – providing a robust and sensitive, cost-effective analytical solution.

The analytical power of the Vanquish Duo UHPLC systems is maximized through integration with **Thermo Scientific Chromeleon Chromatography Data System (CDS) software**, which streamlines workflows through intelligent software tools targeting easy method transfer and independent control of two flow paths in one effective analytical system.

For more information, please visit www.thermofisher.com/VanquishDuo.

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