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Shimadzu Enhances its Mass Spectrometry Platform with the Launch of a New Q-TOF System

(Kyoto, Japan, June, 2018) Shimadzu Corporation announces the launch of the quadrupole time-of-flight (Q-TOF) LCMS-9030 system. The Shimadzu LCMS-9030 is a research grade mass spectrometer designed to deliver high-resolution, accurate-mass detection with incredibly fast data acquisition rates, allowing scientists to identify and quantify more compounds with greater confidence. It utilizes the same engineering expertise as Shimadzu's high-performance triple quadrupole (LC-MS/MS) platform and integrates that with powerful TOF architecture to transform high mass accuracy workflows by achieving high-sensitivity, high-speed, and high-resolution detection.

Key Technology Drivers

Ultra-fast (UF) acquisition rates and core ion beam technologies developed for the triple quadrupole platform have created new possibilities in quantitative mass spectrometry by delivering exceptional sensitivity, specific quantitation, and enhanced target compound verification. The new LCMS-9030 Q-TOF builds on this proven platform by rethinking time-of-

flight detection. In the LCMS-9030, core ion beam technologies transition toward a unique approach in ion gating using UFaccumulation™ to create a precise pulse of ions into the flight tube optimized for high sensitivity and high resolution using iRefTOF™ reflectron technology. The iRefTOF™ generates an ideal reflectron field, delivering the highest resolution for the flight path with highly stable mass accuracy.

By bringing together UF technologies and innovative TOF thinking, the LCMS-9030 represents a step-change in Q-TOF performance and capability by unlocking a new solution for analyzing even the most complex samples.

'Our Q-TOF technology on the LCMS-9030 will push the boundaries further for high mass accuracy and high mass resolution detection, and will make an impact across all applications, from small molecule quantitation to complex intact protein analysis. This technology highlights Shimadzu's passion for making something new and innovative as well as our commitment to making analysis better and promoting better science,' says Shuzo

Maruyama, General Manager, Analytical & Measuring Instruments Division, Shimadzu Corporation.



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FilSon Starts Manufacturing Basket Filter Element in its Own Factory

FilSon Filters, a global leader in designing and manufacturing filtration equipment, today begun manufacturing basket filter element, also called basket filter cartridge. It is a coarse filtration accessory, designed for a range of flow rates (up to 3600m³/hr.), and a filtration rating of 5µm to 2000µm.

FilSon basket filter element is specifically designed to capture large solids or contaminants from the pipe systems. It therefore improves efficiency and reduces maintenance cost of components downstream such as pumps, valves or return flow systems.

'Designing FilSon basket filter element creates a unique filtration experience that you can adapt to your unique contamination levels in the piping systems,' said Mrs. Kunvine Lee, FilSon Filters General Manager. 'We believe our customers can now choose from many basket filter cartridge sizes and shapes, designed for a

range of filtration ratings, flow rates and pressures.'

Among the main features of FilSon basket filter elements include:

Design and material: FilSon basket filter elements are made from stainless steel perforated sheet, woven wire mesh, sintered wire mesh and wedge wire screen by welding process. It is therefore a perfect filtration accessory in many applications such as food, beverage, power plants, water treatment, petrochemicals, oil & gas industries, amongst others.

For dynamic filtration needs in the piping systems, FilSon basket filter elements come in different shapes and designs, including flat or inclined options, depending on the customer requirements.

Also, other options such as hopper bottom, flat bottom or customized options are available for specific filtration needs in the pipe systems.

High compressive and mechanical strength: FilSon basket filters are cleanable and reusable, besides being easy to backwash. They have a high dirt holding capacity and guarantee a low pressure drop in the piping systems.

All FilSon basket filter elements come in both standard and custom designs for OEM partnership. They are designed to fit industrial basket strainers such as duplex basket strainers and simplex basket strainers.

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 **Filson Filter**