

Press Release

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New TOC-L series Pure perfection

**New series of combustion type analyzers /
Suitable for each type of application /
Space-Saving, Energy-Saving Design**

Shimadzu, the world's leading manufacturer of Total Organic Carbon (TOC) analyzers, introduces the new series of combustion type analyzers. The TOC-L Series systems target wastewater, brine water, seawater, drinking water and pharmaceutical water applications. Consisting of four models including PC-controlled and stand-alone versions, the TOC-L Series utilizes the 680 °C combustion catalytic oxidation method to efficiently analyze all organic compounds. Shimadzu developed this method which is now used worldwide.

With its wide measuring range of 4 µg/L to 30,000 mg/L, Shimadzu's TOC-L Series supports each type of application, from pure water to highly contaminated water. In addition, the TOC-L Series supports measurement of liquid, solid and gaseous samples. The series features automatic sample acidification and sparging as well as an automatic dilution function that reduces sample salinity, acidity and alkalinity, significantly extending the period of use of catalysts and combustion tubes. High-precision mass flow controllers ensure uninterrupted carrier gas for high-precision analysis, and a zero maintenance Peltier cooler is utilized for maximum water vapor removal to ensure accurate analysis.

Additional hardware features include a new color LCD monitor for the stand-alone system and USB communications for computer, printer and data storage.

Options of the TOC-L

For simultaneous TOC and Total Nitrogen analysis the TNM-L system can be added without increasing the size of the footprint. Highly sensitive chemiluminescence detection offers a measuring range between 5 µg/L and 10,000 mg/L. Furthermore, the TOC-L series features variable syringe sizes used when the sample volume is limited.

The optional salt kits permit 12 times more salt to be analyzed before maintenance is required. The ASI-L autosampler can utilize three different vial sizes for various applications, while the smaller OCT-L autosampler can use any vial size for up to 8 or 16 samples.

Software Features Intuitive Operability and a Wealth of Functions

TOC-Control L Software, the state-of-the-art software for PC control combines new features with easy-to-use operation. The clear layout of the sample window editor offers users “at-a-glance” access to all relevant information. The sample table can now be established via a simple “drag & drop” operation. In addition, the right mouse button contains many useful functions that greatly simplify operation. The software version allows additional samples to be added during a current analysis cycle. This happens in the processing mode, whereby any desired number of samples, calibration curves or control samples can be added. It is also possible to recalculate previously measured samples or print out reports. Proven functions such as the establishment of control cards, validation table, export functions and 21 CFR Part 11 support are included.

Space-Saving and Energy-Saving Design

These eco-friendly systems use 43% less energy than previous models and the width of the TOC-L has been reduced by 20%, saving valuable lab space.



Figure 1: New TOC-L system with autosampler ASI-L

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