

Product Descriptions and Offerings



TELEDYNE LEEMAN LABS
Everywhereyoulook™



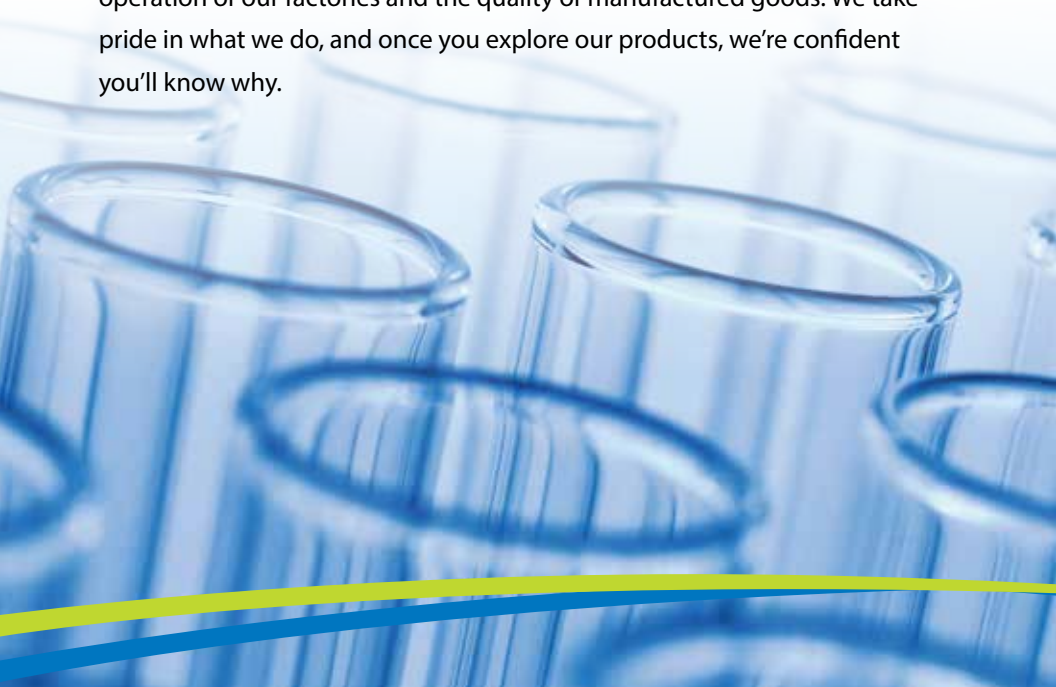
TELEDYNE TEKMAR
Everywhereyoulook™

At Teledyne Tekmar and Teledyne Leeman Labs, we develop innovative products for the laboratory. Our instruments are used across many segments, such as environmental, pharmaceutical, food and beverage, and industrial. You can rely on our instrumentation for ease of use, exceptional accuracy, reliability, and durability.

Teledyne Tekmar products include Purge and Trap (P&T), a system for Volatile Organic Compound (VOC) sample preparation for gas chromatography. Our Total Organic Carbon (TOC) analyzers are used for water samples varying in quality from pharmaceutical grade to municipal wastewater.

Teledyne Leeman Labs has a family of fully automated Mercury Analyzers that address the analysis of solids, semi-solids and liquids. Our Hg units offer a wide range of detection, from Atomic Absorption (AA) to Atomic Fluorescence (AF). Chemists worldwide turn to Teledyne Leeman Labs for high-performance solutions to their mercury analysis needs.

All of these instruments play a vital role in protecting the environment, maintaining the integrity of our food and water supply, ensuring the safe operation of our factories and the quality of manufactured goods. We take pride in what we do, and once you explore our products, we're confident you'll know why.



Volatile Organic Compounds (VOC) Instrumentation

Purge and Trap: In 1974, Tekmar developed an idea that revolutionized the way laboratories performed Volatile Organic Compound (VOC) testing. Since then, Tekmar has continued to build on the foundation of the initial Purge and Trap technique, one innovative layer at a time.

Atomx XYZ Automated VOC Sample Prep System

The Atomx XYZ is the second generation combined soil/water autosampler and purge and trap concentrator system in the Tekmar VOC product family. It is the only instrument of its kind to employ a unique automated methanol extraction feature for high-level soils, in accordance with USEPA Method 5035. Methanol rinsing, dilutions capability and three standard addition vessels all come standard on the Atomx XYZ. While priced competitively, the system offers unique features that cannot be found on any other sample prep system on the market today.



Lumin Automated VOC Sample Prep System

The Lumin Purge and Trap Concentrator (PTC) is used to remove VOCs out of aqueous and solid sample types using helium or nitrogen. Teledyne Tekmar has been the leader in this technology since its first PTC was released in the 1980s. Tekmar has continued to improve on this technique through eight generations of systems, including the Lumin, to meet the ever increasing analytical challenges faced by laboratories.



Volatile Organic Compounds (VOC) Instrumentation

AQUATek LVA Waters-only Autosampler

The AQUATek LVA is a purge and trap autosampler that automates the sample preparation steps for the analysis of liquid samples via purge and trap. The system is capable of preparing samples such as drinking water and wastewater. With intuitive self-diagnostics and user-friendly software, the AQUATek LVA is the simplest yet most robust autosampler on the market today.



Image showing Lumin stacked on top of AQUATek LVA. This stackable configuration minimizes the instrument footprint and saves lab bench space.



Total Organic Carbon (TOC) Analyzers

TOC is a popular analytical technique in water quality testing, as seen in many official analytical methods today. The United States Pharmacopoeia (USP), European Pharmacopoeia (EP) and Japanese Pharmacopoeia (JP) recognize TOC as a required test for purified water and water for injection (WFI).

Fusion UV/Persulfate TOC Analyzer

The Fusion TOC Analyzer uses powerful ultra violet persulfate oxidation, allowing superior carbon liberation from even the most challenging matrixes. By implementing the patented Static Pressure Concentration (SPC) technology, the Fusion TOC Analyzer is able to achieve unprecedented low-end sensitivity from a Non-Dispersive Infrared (NDIR) detector. The Fusion TOC Analyzer is designed to offer productivity for a wide variety of applications.



Lotix Automated Combustion TOC Analyzer

The Lotix TOC Combustion Analyzer is designed to accurately measure carbon content in aqueous matrices down to the ppb level. It uses proven catalytic combustion, oxidation of carbon material into carbon dioxide, and detection using a Non-Dispersive Infrared (NDIR) detector.



Torch Combustion TOC Analyzer

The Torch Combustion TOC Analyzer utilizes patented Static Pressure Concentration (SPC) for the analysis of TOC using catalytic combustion. The Torch Combustion TOC Analyzer is designed to accurately detect carbon content in aqueous matrices. The NDIR detector allows for a degree of sensitivity previously unattainable.



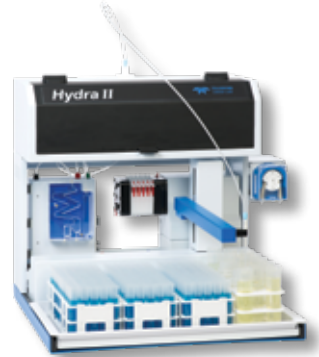
Family of Mercury Analyzers

Teledyne Leeman Labs family of mercury analyzers are fully automated instruments that address the analysis of solids, semi-solids and liquids. They are equipped to assist today's laboratory technician, chemist or lab manager in meeting the myriad of challenges that face today's modern laboratory. These high-performance, fully automated analyzers are the number one choice for laboratories searching for a mercury analyzer with a proven track record.

Hydra II_{AA} - Atomic Absorption Detection – for Liquid Samples

The Hydra II_{AA} delivers both the performance needed to meet tightening regulatory demands and the productivity needed for laboratories to operate efficiently. Its ≤ 5.0 ng/L detection limits, exceptional stability and unique over-range protection easily satisfy the most stringent QCs. Its high capacity autosampler with extra large CCV/CCB containers permits long periods of unattended operation.

- High sampler capacity (up to 270 sample locations)
- Large reservoirs for recurring QCs
- Easily handles difficult sample matrices
- Automatic over-range protection



QuickTrace® M-7600 - CVAA mercury analyzer system - ranges from ultra-trace to sub mg/L analysis

The QuickTrace® M-7600 easily achieves an ultra-trace mercury detection limit of < 0.5 ng/L and is ideal for ultra-trace to sub-mg/L mercury quantitation. The M-7600 is designed for routine and research use in a variety of settings, including environmental laboratories, industry, and research institutes, for virtually any aqueous acidified sample.

- ≤ 0.5 ng/L instrument detection limits
- Usable range, 0.5 ng/L – 500 μ g/L
- Advanced contamination control, over range and smart rinse features
- "Smart Rack" technology



Family of Mercury Analyzers

QuickTrace® M-8000 - CVAf system for triple mode, no enrichment, single or double gold amalgamation

The QuickTrace® M-8000 ideal for ultra-trace to sub-mg/L mercury quantitation. It easily achieves the ultra-trace mercury detection limit of < 0.05 ng/L demanded by customers employing EPA method 1631. The QuickTrace® M-8000 is also versatile enough to analyze samples > 400 µg/L in a research or industrial setting without dilution.

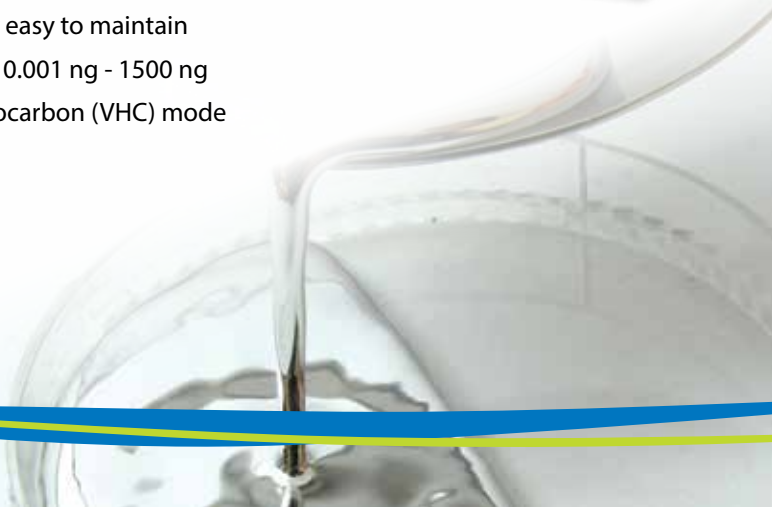
- U.S. EPA 1631 and 245.7 compliant
- ≤ 0.05 ng/L instrument detection limits
- Advanced contamination control, over range and smart rinse features
- Intuitive pump and carrier gas controls eliminates air infusion into the system during sample probe movements
- “Smart Rack” technology



Hydra II_c - Atomic Absorption Detection – Direct Analysis of Solid, Semi Solid and Liquid Samples

The Hydra II_c eliminates the complicated chemistry and hazardous waste associated with conventional mercury techniques. The Hydra II_c is ideal for a myriad of sample analysis, ranging from solid to liquid samples in native form.

- 70-position autosampler
- “On-the-fly” sample programming
- Exceptionally easy to maintain
- Usable range 0.001 ng - 1500 ng
- Volatile Hydrocarbon (VHC) mode





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