

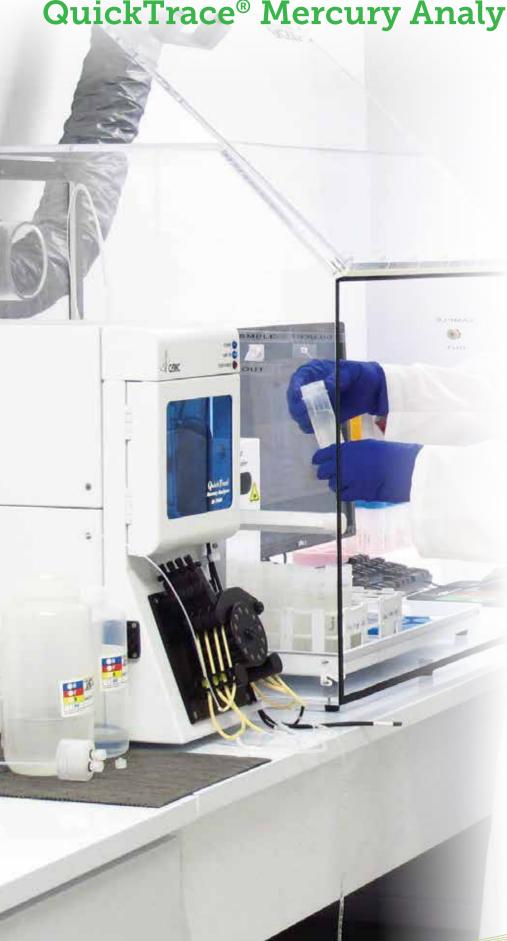
Teledyne LABS

Product Offering



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QuickTrace® Mercury Analyzers



High-sensitivity CVAA and CVAF mercury analyzers, easily maintained with simple-toaccess consumables and operator-friendly preventative maintenance.



QuickTrace® M-7600 CVAA **Mercury Analyzer**

Ideal for ultra-trace to sub-mg/L mercury quantitation for CVAA. For routine and research use in virtually any lab with any aqueous acidified sample. System of choice for key contract labs.



QuickTrace® M-8000 CVAF **Mercury Analyzer**

High sensitivity to easily achieve the ultra-trace detection limit of < 0.05 ng/L total mercury; versatile enough to analyze samples >400 µg/L without dilution.

Total Organic Carbon Analyzers

Unparalleled accuracy, precision and throughput for TOC analysis ranging from pharmaceutical waters to municipal water samples.





Lotix TOC Combustion Analyzer

Simplicity, performance, and durable. Accurately measures carbon content in aqueous matrices in the ppmC levels.



Torch TOC Combustion Analyzer

Considered the premium TOC combustion analyzer due to its useful features and automated analysis processes.



Fusion UV/Persulfate Analyzer

UV/Persulfate oxidation for superior TOC analysis; unprecedented lowend sensitivity to ppbC levels.

GC Sample Prep & Sample Introduction

Market leading innovators of Purge & Trap technology for GC sample prep. Satisfying U.S. EPA method guidelines for water and soil analysis.

Atomx XYZ Multi-Matrix P&T Concentrator and Autosampler

Combined soil/water autosampler and P&T concentrator. Methanol rinsing, dilutions capability, three standard addition vessels. Features found on no other sample prep system.





Lumin P&T Concentrator

Integrated Mass Flow Controller delivers the purge gas with unmatched precision to instantly change the gas flows via our Teklink software any time during the P&T process.



AQUATek LVA Water Autosampler

Full automation solution for routine analysis of waters by P&T concentration. Complies with U.S. EPA Methods for analysis of aqueous volatile organic samples.



Flash Chromatography

We are a leader in the R&D and manufacture of flash chromatography products, globally influenced by our CombiFlash® instruments and RediSep Columns. Flash chromatography is a preparative purification technique commonly used in pharmaceutical and other chemical applications.



CombiFlash NextGen (100, 300, 300+)

Versatile, easy to use, highly reliable, time-saving features and our PeakTrak software. Models available with a range of options, flow rates and operating pressures.



CombiFlash Torrent

Large-scale purification. The Torrent is suitable for normal or reverse phase. The Torrent AQ is optimized for reverse phase applications only.



CombiFlash EZPrep

Streamlined Flash and Prep HPLC in one compact, easy-to-operate unit. With two clicks, switch from pre-purifying samples on Flash to generating submission-quality compounds on Prep HPLC.



Preparative HPLC

Purify large sample quantities; the Focus Gradient Generator eliminates the need for a standalone analytical HPLC for preparative method development.

ACCQPrep HP150

Power and flexibility yield a distinct advantage over other HPLC systems. Intuitive and easy-to-use, focusing on purification with the highest sample recovery.





Preparative SFC

Go Green...Supercritical CO₂ mobile phase for quick results and environmental advantages. Stable, relatively inexpensive, non-flammable, non-toxic, easy to remove from the sample.

ACCQPrep SFC

Compact and easy to use for all experience levels. The only system to enable both bulk collection from stacked injections, and multi-sample, open-access with an optional SFC Autosampler.





Chromatography Columns & Consumables

Our reliable RediSep® preparative chromatography products consistently produce high-purity compounds.





RediSep Gold & Silver Flash Columns

For high-capacity purification, precision-packed for high resolution and reproducibility. One-piece design and quick, easy connection. Scale-up from milligrams to kilograms with our silica or specialty medias (C18, C18Aq, C8 and amine.)



RediSep Solid Load Cartridges

Perfect for insoluble samples purification; apply your sample directly to the silica bed. A variety of sizes of pre-packed cartridges for superior flexibility, or choose an empty option for your own sorbent.



RediSep Prep HPLC and SFC Columns

Your first choice for the highest purity compound. Durable and specifically designed for quick, accurate and reproducible HPLC and SFC results.

Autosamplers

We have served the AA, ICP, ICP-MS, MC-ICP-MS market for over 30 years with a wide selection of autosamplers that meet virtually all laboratory needs.



ASX-280/ASX-560/XLR-860

Reliable, efficient, solidly built, with a carbon fiber arm and no exposed metal, flexible sample rack configurations and multiple accessory options. XLR-860 features an extended rack.



Oils 7400/ Oils 7600 Homogenizing Autosamplers

Switch between oils and coolants testing on demand with the dual port rinse station fed by two separate peristaltic pumps. Improved speed, mixing capability and sample drip capture.



ASX-112 FR Carousel Micro Autosampler

Compact size, protective enclosure and dual flowing rinse station. Ideal for small-volume samples in an ultra-clean environment.



Enclosures for Autosamplers

Protects your samples, personnel and bottom line. Maintain sample integrity to achieve reliable results. Multiple size options.



Fraction Collectors

Add on fraction collectors for any technique. Accurate, fast, powerful with durable construction and reliable operation.

Foxy R1/R2/R2 High Flow

Distribution instruments able to divide the liquid into multiple collection vessels, switching vessels on time, drops, volume, peaks, or a combination. Use test tubes, vials, mini-wells, bottles, or funnels.

Get the Peaks You Want

Collect only the peaks you want by programming desired peak detector options.



Level Sensing

Collect peaks above detector threshold. enabling "heartcut" collection of concentrated part of the peak.



Slope

Collect peaks based on inflection points. Separate close peaks by valley triggers.



Time Window

Collect only during a specific interval of time.



Delay Compensation

Cut peaks at the diverter valve regardless of system tubing lengths.





Sample Preparation

Workhorses in the lab. Time-savings equal financial savings. Solutions for online (integrated with analyzer) and offline (standalone) aqueous and oil liquid-handling applications.



SDX-HPLD

Online ICP/ICP-MS sample prep system. Combines our ASX-560 autosampler with a novel vortex mixing dilution accessory. Volume-to-volume dilution with an additional step to vortex mix the resulting dilution prior to sample introduction to ICP.



SimPrep

Offline automated liquid handling station. Syringes from $10\mu L$ to 50mL. Serves multiple techniques and easily switches between sample prep and sample analysis.



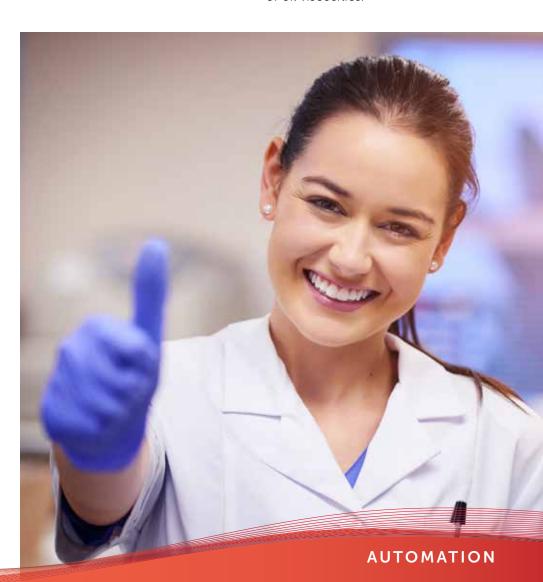
APS-7450V

Volumetric oil sample prep station. Simply and quickly handle the dilution step in less time (as little as 20 seconds/sample). Easy to use and consistent across a wide range of oil viscosities.



APS-7650G

Gravimetric oil sample prep station. Save time for other things. Fully automated and replicates manual dilution step-by-step, using a fresh pipette tip every time.



Sample Injection

Sample injection system reduces the time required for autosampler movement, sample uptake, stabilization, and rinse operations, reducing sample run times significantly.







ASXPress+

Save time, save money. Increased sample throughput by up to 2 times or more. Reduces costs of argon, power, ICP-AES / ICP-MS components, and system maintenance.

Nebulizers

Enhance signal, reduce spectral interferences, and introduce low-volume samples for ICP-AES and ICP-MS.



Aridus3 Desolvating Nebulizer

Specialized liquid sample introduction accessory for inductively coupled plasma mass spectrometry (ICP-MS).



U-5000AT+ Ultrasonic Nebulizer

Use in conjunction with an optical ICP system as a simple, cost-effective way to increase sensitivity and reduce detection limits.

Benchtop Evaporation

Engineered for convenient evaporation and concentration of samples where space is at a premium.



EcoChyll X1 Self-Cooling Condenser

Upgrade any rotavap with this smart, powerful, self-cooling condenser. Large cooling capacity, small footprint. Extremely quiet, efficient and fast.



Hydrogen Rotary Evaporator

Decrease evaporation time with a multipurpose rotavap. Alwaysavailable, built-in condenser: eco-friendly, energy efficient, reliable, and sustainable.



Hydrogen Performance Rotary Evaporator

A high-performance all-in-one rotary evaporator with smart, self-cooling condensers and zero material waste.

Large-Scale Evaporation

Sizes from 12 liters to 200 liters for smaller facilities to industrial scale.



Syringe Pumps

Precise flow and pressure control with flow rates from sub-microliter to 408 mL/min. and low-flow stability up to 20,000 psi (1,390 bar).

SyriXus Syringe Pumps

	Capacity	Flow* Range (mL/min)	Flow** Accuracy	Pressure Range (psi, bar)	Standard Pressure Accuracy	Standard Plumbing Ports	Dimensions	Continuous Flow Range (mL/min)
1000x	1015 mL	0.001-408	0.5% of Setpoint	10-2,000 0.7-137.9	0.5% FS	1/4" NPT	40.3x10.7x18.4 in 102x27x47 cm	0.01–265
500x	507 mL	0.001-204	0.5% of Setpoint	10-5000 0.7-345	0.5% FS	1/8" NPT	40.3x10.7x18.4 in 102x27x47 cm	0.001-132
500xv High Visocity	507 mL	0.001–204	0.5% of Setpoint	10-5000 0.7-345	0.5% FS	3/8" NPT	40.3x10.7x18.4 in 102x27x47 cm	0.001-132
260x	266 mL	0.001–107	0.5% of Setpoint	10-9,500 0.7-655	0.5% FS	1/8" Valco	39.8x10.7x18.4 in 101x27x47 cm	0.001-70
65x	68 mL	0.00001-25	0.3% of Setpoint	10-20,000 0.7-1,390	0.1% FS	1/8" Valco	39.8x10.7x18.4 in 101x27x47 cm	0.00001-16

Hazardous Location Syringe Pumps

Accurate, predictable flow and pressure control while meeting safety requirements for UL Class I, Division 2, Groups A B C & D, T4 environments.

	Capacity	Flow* Range (mL/min)	Flow** Accuracy	Pressure Range (psi, bar)	Standard Pressure Accuracy	Standard Plumbing Ports	Dimensions	Continuous Flow Range (mL/min)
1000HLf	1015 mL	1.0 μL-408	0.5% of Setpoint	10-2,000 0.7-137.9	0.5% FS	1/4" NPT	40.3x10.7x18.4 in 102x27x47 cm	0.01-265
500HLf	507 mL	1.0 μL-204	0.5% of Setpoint	10-3750 0.7-258.6	0.5% FS	1/8" NPT	40.3x10.7x18.4 in 102x27x47 cm	0.001-132
260HLf	266 mL	0.001-107	0.5% of Setpoint	10-7,500 0.7-517	0.5% FS	1/8" Valco	39.8x10.7x18.4 in 101x27x47 cm	0.001-70
100HLf	102 mL	0.01 μL-60	0.3% of Setpoint	10-10,000 0.7-689.5	0.5% FS	1/8" Valco	39.8x10.7x18.4 in 101x27x47 cm	0.00001-16

Dual-Pump Continuous Flow Systems

Provides non-stop delivery of substance. The dual pump system includes two single pumps, one controller and one dual valve panel (with either air operated or electrical valve).



PeriXus Peristaltic Pumps

Simple peristaltic pumps help reduce the possibility of contamination. A great pump when handling substances such as; viscose, corrosive, and highly active acids.





Reciprocating Pumps

ReaXus Reciprocating Pumps

Solutions from 5 to 300 mL/min and up to 6,000 psi. Single piston models for moving material or providing pressure. Dual piston for continuous processing with a steady flow.



M1 Class

Material: Stainless Steel, PEEK

An economical, compact single piston pump designed to provide great performance at a competitive price. The M1 Series is perfect for transferring material, and day-to-day fluid movement.



MX Class

Material: Stainless Steel

A single piston pump that is designed for more challenging applications. The higher pressure capability and increased flow rate makes this a pump that can stand up to a tougher workload.



LS Class

Material: Stainless Steel, PEEK

A high pressure capable, single piston pump that out performs the more expensive pumps on the market. The LS Series is designed to minimize pulsation during fluid movement, something that many experiments require to be successful.



LD Class

Material: Stainless Steel, PEEK, Hastelloy

A dual piston pump perfectly aligned for continuous processing applications offering high pressure capability and virtually pulse free operation.



PR Class

Material: Stainless Steel, PEEK, Hastelloy

A dual headed pump that provides higher flow rates and high pressure capability. The PR Series is well suited for the tougher reaction chemistry applications across many markets.



CP Class

Material: Stainless Steel, Hastelloy

A dual-headed, positive displacement piston pump with constant pressure control, covering a wide range of flows. Used for LC Column packing, as well as many process applications.



HF Class

Material: Stainless Steel

A dual-headed piston pump with servo motors, belt drives, and reliable eccentric cams. Widely used for LC Column packing, as well as many process applications.

USP Apparatus 1, 2, 5, 6 Dissolution Testers

USP Apparatus 1, 2, 5, 6 Dissolution Testers. Small volume vessels for low solubility drugs, 2-liter vessels for high solubility drugs, and immersion cells for semi-solid release testing also available. Automation capabilities and software control options available.



Vision G2 Classic 6

6-vessel. A compact, rugged workhorse, precision engineered to ease the rigors of a manual dissolution test.



Vision G2 Elite 8

8-vessel. Versatile performance and ergonomic design. Ideal for automation and extended applications, with automatic dosage drop option.



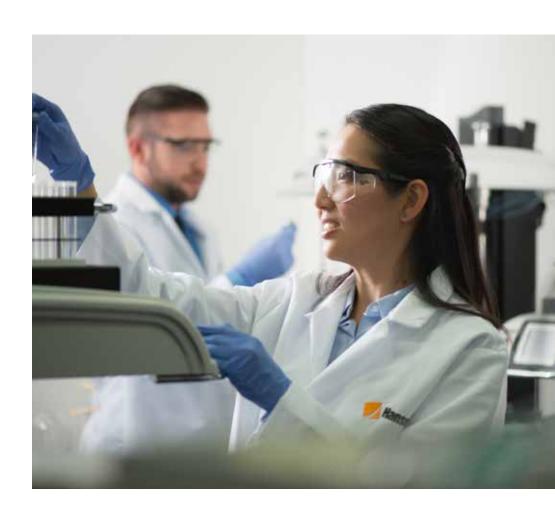
CD14 Comparative Dissolution

14-vessel. Ideal for comparative dissolution testing of Generic Drugs & Bioequivalence testing or the possibility to test two different drugs and methods at once for high-throughput.



CD AutoPlus & AutoFill (Vision and CD)

Connect 1, 2 or 3 baths, 5mL or 10mL syringe options with volume accuracy of \pm 1%. Easily accommodates sampling intervals < 5 minutes.



Media Preparation



Media-Mate Plus

Dissolution media prep station. Fast and highly accurate. Pre-heated, filtered, deaerated, volumetrically dispensed media to 6 or 7 dissolution vessels at same time in < 5 min.

Software Management

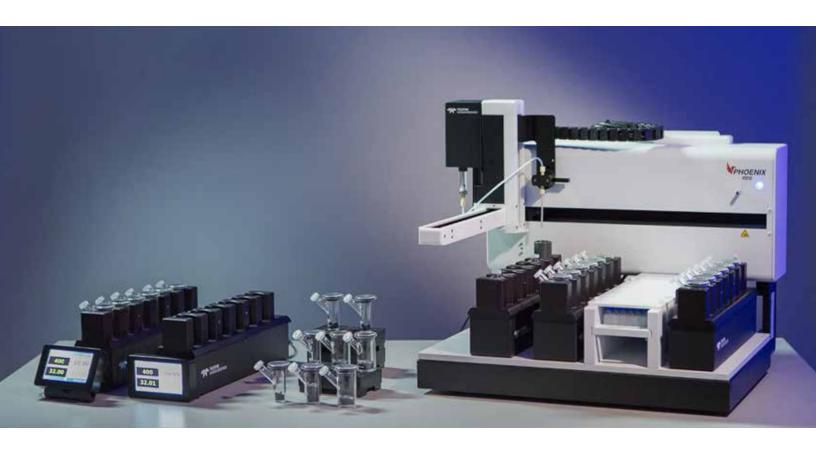


Protocol Manager

Eliminates connectivity and storage limits by connecting Classic 6, Elite 8 or CD14 to a centralized protocol database, with unlimited capacity, drag-and-drop simplicity, and increased support for 21 CFR Part 11 compliance.

Diffusion Cell Testing

Dry-Heat, high-quality, small footprint, easy-to-use manual & automated platforms for IVRT and IVPT studies of topical and transdermal products in R&D and QC/GMP environments.





Phoenix RDS Automated Diffusion

Fully automated sampling, collection, and media replacement. Able to run up to 24 cells at once from a single computer workstation.



Phoenix DB-6 Manual Diffusion

Six cell manual sampling. Compact with an advanced touch screen display.



Phoenix Dry Heat Diffusion Cells

Made from precision borosilicate glass, with mixer inserts engineered to produce instant homogenization of receptor media.

Tablet Hardness Testing

Accurately and consistently measure tablet hardness. We offer manual and automated tablet hardness testers.



Kraemer HC7

Compact tablet hardness tester with touch display: Hardness | Length | Diameter | Thickness | External Scale.



Kraemer H-series

Manual tablet testing units with allin-one touch software: Hardness | Length | Diameter | Width | Thickness | External Scale | External Thickness.



Kraemer P-Series

Semi-automated tablet testing units with all-in-one touch software: Hardness | Length | Diameter | Width | Thickness | Weight.

PHYSICAL TESTING

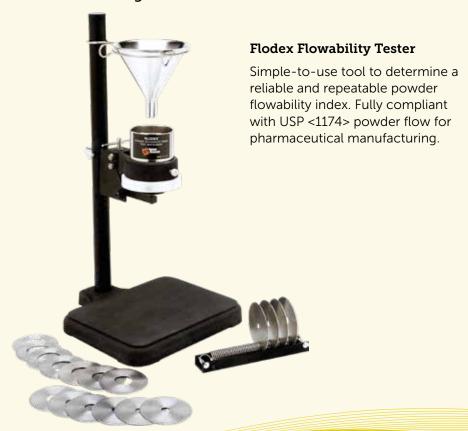


Kraemer UTS

Automatic tablet testing system with all-in-one touch software: Hardness | Length | Diameter | Thickness | Weight | Optional width.

Powder Flow

Test tablet hardness considering particle size and shape, "fines," unit surface, actual and bulk density, porosity, settling, and electrostatic charge.



Teledyne LABS enhances the visibility for our brands, products, and services, aiding customers in finding solutions that meet their current and future needs. The existing Teledyne brands will remain, providing ongoing value to customers.



CETAC | HANSON | ISCO | LEEMAN LABS | TEKMAR



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