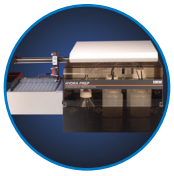
The Hydra Series at a Glance

				
Instrument	Hydra Prep	Hydra AA	Hydra AF	Hydra AF Gold Plus
Usage	Prepare samples for spectrometric analysis; digests water, wastewater, sludge, soil, blood, urine, and tissue	Determine mercury from the low parts-per-trillion (ppt) to high parts-per-billion (ppb) levels	Determine mercury from sub parts-per-trillion (ppt) to high parts-per-billion (ppb) levels	Determine mercury from 0.05 part-per-trillion (ppt) to parts-per-billion (ppb) levels
Detection Limit	Not Applicable	1 ppt	0.2 ppt	Less than 0.05 ppt
Dynamic Range	Not Applicable	0.001 - 100 ppb	0.0002 - 250 ppb	0.00005 - 250 ppb
Scientific Method	Acid digestion, oxidation and pre-reduction	Cold Vapor Atomic Absorption Spectroscopy (CVAAS)	Cold Vapor Atomic Fluorescence Spectroscopy (CVAFS)	
Gas/Liquid Separation	Not Applicable	Leeman-designed gas-liquid separator provides exceptional sensitivity and recoveries, even for samples that foam during the reduction step		
Software Interface	WIN Prep	WINHg software provides ease of use and compatibility with other MS-Windows® applications including Word, Excel, and Access; permits custom report generation and data manipulation, as well as connectivity to most LIMS systems		
Features	• Wide range of sample volumes • Unattended operation • Computer-controlled pipetting delivers precise volume of reagents • Auto mixing of samples ensures homogeneity of digestion • Sample cap with integral reflux condenser eliminates the need to dilute to volume after digestion	• Dual beam detection system • 30cm optical cell provides exceptional sensitivity and stability • High sample throughput for improved productivity and low cost of analysis • Easy access sample introduction system • Continuous flow-through rinse minimizes sample carryover, even at ultra-low levels • High concentration protection system	• Proprietary fluorescence optical cell • High sample throughput for improved productivity and low cost of analysis • Counter-flow Nafion® membrane dryer minimizes water vapor-based scatter in the fluorescence cell • Continuous flow-through rinse minimizes sample carryover, even at ultra-low levels • High concentration protection system	• Proprietary fluorescence optical cell • High sample throughput for improved productivity and low cost of analysis • Counter-flow Nafion® membrane dryer minimizes water vapor-based scatter in the fluorescence cell • Continuous flow-through rinse minimizes sample carryover, even at ultra-low levels • High concentration protection system • Dual fluorescence detectors provide unparalleled working range from sub ppt to high ppb • Ultra trace analysis mode with dual gold amalgamation traps for improved performance at sub-part-per-trillion levels
EPA Methods	245.1 245.5 245.6 7470A 7471B 245.7 1631	245.1 245.5 245.6 7470A 7471B	245.7	245.7 1631
European Standards	EN-1483 EN-13806	EN-1483 EN-13806	EN-13506	EN-13506 EN-12338
Maintenance	*On-line audio/visual help* guides users through routine operation and maintenance. *Predictive Maintenance* ensures that Hydra series instruments consistently operate at peak performance			
Service	All Hydra instruments include installation, on-site training, and a full 1-year warranty A variety of post warranty service options are available to Hydra Series operators. Please inquire for additional details.			