

Teledyne Leeman Labs has been an innovator in atomic spectroscopy since its founding in 1981. In fact, many concepts introduced by Leeman Labs are today recognized as industry standards. Among these are the first use of an echelle spectrometer for ICP analysis and the first mercury stand-alone analyzer.

Today, Leeman Labs is a leading manufacturer of spectroscopic instruments for elemental analysis of metals, alloys, and fluids. Leeman also produces standards and chemical reagents for elemental analysis. Our customer-focused team of dedicated scientists and staff take great pride in the high quality and value of our products and services.

## Primary Spectroscopic Techniques Include:

### Inductively Coupled Plasma (ICP)

- PMT Based
- Array Detector Based

### Mercury Analysis

- Atomic Fluorescence
- Atomic Absorption

### Atomic Absorption Spectrometer

### Inorganic Standards and Mercury Reagents

#### TO PLACE AN ORDER:

For your convenience, purchase orders may be placed by:

**Telephone:** Call Toll Free within the USA:

1-800-LEEMANS (1-800-533-6267) • (603) 886-8400

**Facsimile:** (603) 886-4322 • Attn: Customer Support

**Email:** [service@teledyne.com](mailto:service@teledyne.com)

**Mail:** Teledyne Leeman Labs

6 Wentworth Drive

Hudson, NH 03051

Attn: Customer Support

Please provide the following information when placing an order:

- Your complete shipping and billing address
- Confirm pricing
- Name of a contact person
- Your purchase order number
- Your telephone number
- Date wanted
- Catalog number, description, quantity and number of units
- Requested method of shipment
- Measure for each item being ordered

#### MAINTENANCE AGREEMENT OVERVIEW

*Full Maintenance Agreement* — A set-rate comprehensive package that includes all replacement parts, unlimited telephone technical support and on-site service for emergency or preventative maintenance service.

*Depot Maintenance Agreement* — Includes all replacement parts, unlimited telephone technical support and the option to return the unit to our factory for more complex repairs.

*Limited Maintenance Agreement* — Includes all replacement parts and unlimited telephone technical support. This agreement is designed for the user who performs their own maintenance.

All service agreements come with a 15% discount on Plasma-Pure standards. For detailed information on Leeman Labs Service Agreements call 1-800-Leemans or visit [www.Leemanlabs.com](http://www.Leemanlabs.com).



**TELEDYNE LEEMAN LABS**  
A Teledyne Technologies Company

6 Wentworth Drive

Hudson, NH 03051 U.S.A.

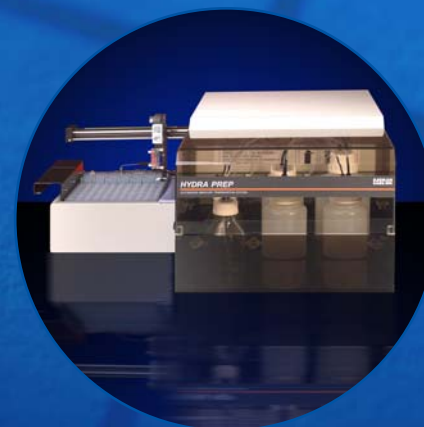
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The Hydra Series from Leeman Labs

# HYDRA AF



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## HYDRA AF SERIES

The Hydra AF Series is a line of fully automated cold vapor atomic fluorescence (CVAFS) analyzers available in three models. Hydra AF, Hydra AF Gold and Hydra AF Gold Plus. These analyzers are fully compliant with EPA methods 1631 and 245.7. They provide unparalleled working ranges and are capable of detection limits of less than 0.05 ppt with a dynamic range that extends to low ppm levels.



### CONSUMABLES

309-00088-4	Reductant pump tubing 12/pack
309-00104-2	Sample pump tubing 12/pack
309-00088-7	Rinse pump tubing 12/pack
902-00084-1	Drain pump tubing 12/pack
120-00277-1	Sample tip and tubing assembly
120-00284-1	Waste tubing assembly
120-00433-1	Waste line from L/G separator to pump tubing
120-00428-1	Reactor mix tubing from pump to L/G separator
606-00015	Soda Lime, 200 grams

### REPLACEMENT PARTS

125-00131-1	Cassette replacement kit (5 cassettes)
307-00093	Single cassette
120-00430-1	G-3 Liquid gas separator
120-00423-1	Nafion™ counter-flow drying tube
120-00426-1	Gold amalgamation trap assembly for AFGold & AFGold Plus only
318-00016	Soda lime glass tube
317-00048	Frosted mercury lamp
120-00414-2	Flow-thru rinse

### SERVICE PARTS

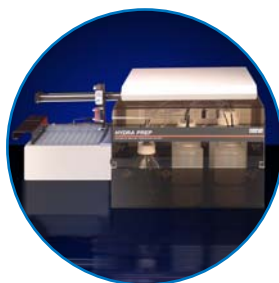
113-00010-1	Pump control PCB
113-00022	Interface PCB
113-00052-2	Encoder driver PCB
113-00061-1	Gas control PCB
113-00085-1	Motor driver PCB
113-00120-1	Furnace controller PCB
113-00123-1	Lamp driver PCB
113-00124-1	Reference detector PCB
113-00124-2	1631 detector PCB
113-00124-3	245.7 detector PCB
113-00125-1	Data ACQ. PCB
113-00126-1	Backplane PCB
113-3010-286	CPU PCB
227-00008	Power supply (+5VDC, +/- 12VDC)
227-00012	Power supply (24VDC)

### SPARE PART KITS

902-00085-1	Basic spare parts kit, Hydra AF
902-00085-2	Basic spare parts kit, Hydra AF Gold
902-00085-3	Basic spare parts kit, Hydra AF Gold Plus
902-00112-1	Extended spare parts kit, Hydra AF
902-00113-1	Extended spare parts kit, Hydra AF Gold and AF Gold Plus

## HYDRA PREP

The Leeman Labs Hydra Prep performs automated sample digestion for high throughput mercury analysis, freeing the analyst to perform other tasks. This system works not only with Leeman Labs line of mercury analyzers, but with most mercury analysis systems currently manufactured.



### CONSUMABLES

309-00092	Gas feed tubing assembly, used on all bottles (1 per unit)
309-00093	Reagent tubing assembly, from bottle to dispenser valve (6 used per unit)
309-00095-1	Gas injection assembly, (from left side of gas dispenser valve to manifold (1 per unit).
309-00096-1	Reagent tubing assembly, (from left side of bottle dispenser valves to manifold (6 per unit)

### REPLACEMENT PARTS

122-00121-1	Dispenser valve (7 per unit)
303-00303	Liquid/gas manifold

### SERVICE PARTS

113-00021-1	Data ACQ. PCB
113-00022	Interface PCB
113-00064-1	Temp control PCB
113-00066-1	Heater driver PCB
113-00085-1	Motor driver PCB
113-3010-286	CPU PCB
113-3221-3	Backplane PCB
227-00010	Power supply

### SPARE PART KITS

902-00081-1	Basic spare parts kit
902-00111-1	Extended spare parts kit

## HYDRA AF SERIES AND PREP

### CUPS, CAPS, AND BOTTLES

116-2102-1	Standard caps, 50mL 100/pack
116-2111	Standard caps, 50mL 20/pack
116-00095-1	Sample caps, 15mL 1000/box
116-2109	Caps for sample caps, 15mL 1000/box
116-00090-1	Vapor cap, 50mL 10/pack
116-00092-1	Vapor cap, 15mL 10/pack
303-00722	Dummy cup, sample
303-00723	Dummy cup, standard
120-00333-1	Bottle cap insert
120-00292-1	2L Plyprp Bottle assembly
120-00293-1	1L Plyprp Bottle assembly
120-00294-1	500mL coated glass acid bottle, cap and straw
120-00334-1	Cap for acid bottle (part of 120-00294-1)
309-00094-1	Straw for acid bottle (part of 120-00294-1)
120-00431-1	Reductant bottle lined with fluoropolymer, 1L
120-00431-2	Rinse bottle lined with fluoropolymer, 4L
120-00420-1	44 Position sample rack, metal
120-00421-1	14 Position standard rack, metal
304-1015	Sample tip guide

### CHEMICALS

902-00089-1	Hydra AF chemicals kit for water samples
604-00001	2% Hydrochloric acid (for rinsing), 1L
604-00002	2% Hydrochloric acid (for rinsing), 2L
602-00163	2% Stannous chloride (in 10% HCL), 1L
602-00164	2% Stannous chloride (in 10% HCL), 2L
606-00015	Soda lime, 200g

