



## HYDRA II<sub>AA</sub> Automated Mercury Analyzer

# PRE-INSTALLATION GUIDE



Part Number 150-00316  
Revision A



## Introduction

The purpose of this guide is to assist new users in the preparation of their laboratory prior to the installation of the HYDRA II<sub>AA</sub> Automated Mercury Analyzer. If anything is unclear with the information that is provided, please contact our Customer Support Department at 1-800-LEEMANS (1-800-533-6267).

Please retain a copy of the pre-installation guide for your records.

## Receipt of the Instrument

Teledyne Leeman Labs HYDRA II<sub>AA</sub> Automated Mercury Analyzer has successfully passed stringent Quality Control and Performance Specifications prior to shipment. The HYDRA II<sub>AA</sub> is carefully packed to ensure safe travel to your lab, but occasionally damage may occur during shipping.

A visual inspection of the shipping container and boxes should be done before signing the shipper's document. If any box is visibly damaged, make a note of this on the shipper's document then notify the shipping company **immediately**. Be assured Teledyne Leeman Labs will work with you to correct any problems. However, if damage has occurred, correction of that damage will be at the expense of the responsible party as defined by the purchase order.

The Hydra IIAA is designed to be self-installed. If you have purchased the option for Teledyne Leeman Labs to do your installation, please do not unpack any boxes without consulting Leeman Labs Customer Support Department. When the installation option has been purchased, the Leeman Labs Installation Engineer is responsible for the checkout of the shipment against the packing list. He or she cannot be responsible for this task, nor can Leeman Labs be responsible for any missing items, if boxes have been opened or removed before the arrival of the installation engineer.



## Pre-installation Requirements

### Introduction

The HYDRA II<sub>AA</sub> Pre-installation Guide details the site parameters required for proper installation of the HYDRA II<sub>AA</sub> Automated Mercury Analyzer. Ensure that your installation site meets these requirements before attempting to install the instrument.

### Site Requirements

Check your site for the following requirements:

#### Electrical Requirements

Four duplex outlets @110V, 15A, 60 Hz or four duplex outlets @220V, 10A, 50 Hz. The computer and HYDRA II<sub>AA</sub> should be plugged into the same outlet. Use of a surge protection power strip is recommended.

#### Gas Supply

A source of 99.999% pure Argon or Nitrogen @ 15 PSI. The gas connection must be located within 10 feet (3 m) of the HYDRA II<sub>AA</sub> and must accept 1/4" (6.35mm) OD, 1/8" (3.18mm) ID urethane tubing.

#### Venting

Access to exhaust ventilation of at least 25 CFM (11.8 L/sec). Ventilation should allow for connection of 1/4" (6.35mm) OD urethane tubing. May be clipped into existing hood.

#### Drain

Drain container capable of holding 2 liters of hazardous waste.



### Bench Space

19.5" width, 19" depth, 18.5" height (496 mm W, 483 mm D, 470 mm H) , for the HYDRA II<sub>AA</sub> alone, excludes computer, monitor and printer. Please allow an additional 5" in height to allow door set in open position.

## **Environmental Conditions**

### Temperature

The recommended nominal or average laboratory temperature is 15-30°C (60-86°F).

### Temperature Variation

The temperature rate of change in the laboratory should be limited to 2°C (3.6°F) per hour, maximum daily change 10°C (18°F). This temperature variation allows for the most stable operation of the instrument. Greater temperature variations will affect instrument stability. Protection (such as blinds) from direct sunlight via windows is necessary.

Other causes of temperature shifts include:

Heat adjustments to the laboratory from morning to night, increase in room temperature due to direct sunlight, and automatic air conditioner adjustments.

### Relative Humidity

Humidity plus heat plays a major role in operating stability. Humidity may vary between 20 and 80%, but must be a non-condensing environment.

The laboratory humidity range should be monitored to determine if additional climate controls are needed to prevent conductivity changes on detector assemblies.



NOTE: If you have purchased installation from Leeman Labs, please ensure the site requirements from the previous page have been met. Complete the information on this page and either mail or fax it back to Leeman Labs at (603) 886-4322 so installation can be scheduled.

## ***Pre-Installation Completion Form***

Operator's Name: \_\_\_\_\_  
(PLEASE PRINT)

Company Name: \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip \_\_\_\_\_

Telephone No.: \_\_\_\_\_ Extension: \_\_\_\_\_

Fax No.: \_\_\_\_\_

Email: \_\_\_\_\_

Your signature below indicates that all site requirements listed on the previous pages have been met.

\_\_\_\_\_  
 Operator's Signature

\_\_\_\_\_  
 Date

Install # \_\_\_\_\_

Please remove this page and return to Leeman Labs Customer Support Department, Teledyne Leeman Labs, 6 Wentworth Drive, Hudson, N.H. 03051, or FAX to (603)886-4322.

The installation of the Hydra II<sub>AA</sub> Automated Mercury Analyzer System will be scheduled upon receipt of the Pre-installation Completion Report.



## READER'S COMMENT FORM

Guide Title: HYDRA II<sub>AA</sub> Automated Mercury Analyzer Pre-installation Guide

Part Number: 150-00316

Please use this form to communicate your views about this pre-installation guide.

Please rate this installation guide:

	Excellent	Good	Fair	Poor
Clarity	_____	_____	_____	_____
Completeness	_____	_____	_____	_____
Ease of Use	_____	_____	_____	_____
Organization	_____	_____	_____	_____

If you have found errors in this installation guide, please list them with their appropriate page numbers:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Please provide us with the following information:

Your Name: \_\_\_\_\_

Company Name: \_\_\_\_\_

Please FAX your comments to us at 603-886-4322. Thank you for your assistance.