

## Agilent CrossLab Start Up Services

# Agilent G348xA and G349xA Chemiluminescence Detector Site Preparation Checklist

Thank you for purchasing an instrument from **Agilent Technologies**. CrossLab Start Up is focused on helping customers shorten the time it takes to start realizing the full value of their instrument investment.

Correct site preparation is the key first step in ensuring that your instruments and software systems operate reliably over an extended lifetime. This document is an **information guide and checklist** prepared for you that outlines the supplies, space, and utility requirements for the system set up in your lab.

## Introduction

### Customer Information

- If you have questions or problems in providing anything described as part of *Customer Responsibilities* below, please contact your local Agilent or partner support / service organization for assistance prior to delivery. In addition, Agilent and/or its partners reserve the right to reschedule the installation dependent upon the readiness of your laboratory.
- Should your site not be ready for whatever reasons, please contact Agilent as soon as possible to re-schedule any services that have been purchased.
- Other optional services such as additional training, operational qualification (OQ) and consultation for user-specific applications may also be provided at the time of installation when ordered with the system but should be contracted separately.
- Please refer to the other peripheral products (ie, sampling devices, etc.) for site preparation requirements.

## Customer Responsibilities

Ensure that your site meets the following specifications before the installation date. For details, see specific sections within this checklist, including:

- The necessary laboratory or bench space is available.
- The required **environmental conditions for the lab** as well as laboratory gases and tubing.
- The **power requirements** related to the product (e.g. **number & location** of electrical outlets).
- The **required operating supplies** necessary for the product and installation.
- While Agilent is delivering **Installation and Introduction** services, users of the instrument should be present throughout these services; otherwise, they will miss important operational, maintenance and safety information.
- Please consult the **Special Requirements and Other Considerations** section below for other product-specific information
- For more details, please consult the product-specific site preparation or pre-installation manual.

## Important Customer Web Links

- To access **Agilent University**, visit <http://www.agilent.com/crosslab/university/> to learn about training options, which include online, classroom and onsite delivery. A training specialist can work directly with you to help determine your best options.
- To access the **Agilent Resource Center** web page, visit <https://www.agilent.com/en-us/agilentresources>. The following information topics are available:
  - Sample Prep and Containment
  - Chemical Standards
  - Analysis
  - Service and Support
  - Application Workflows
- The **Agilent Community** is an excellent place to get answers, collaborate with others about applications and Agilent products, and find in-depth documents and videos relevant to Agilent technologies. Visit <https://community.agilent.com/welcome>
- Videos about specific preparation requirements for your instrument can be found by searching the **Agilent YouTube** channel at <https://www.youtube.com/user/agilent>
- **Need to place a service call?** [Flexible Repair Options | Agilent-](https://www.agilent.com/en/promotions/flexible-repair-options)  
<https://www.agilent.com/en/promotions/flexible-repair-options>

## Site Preparation

### Dimensions and Weight

Identify the laboratory bench space before your system arrives based on the table below. Pay special attention to the total height and total weight requirements for all system components you have ordered and avoid bench space with overhanging shelves. Also pay special attention to the total weight of the modules you have ordered to ensure your laboratory bench can support this weight.

### Special notes

- Burner assembly Requires 18 cm (7 in) above the top of the GC.
- In addition, the detector vacuum connections require 25 cm (10 in) minimum of space behind the instrument for the vacuum pump hose and electrical connections.
- The vacuum hose connecting the detector to the pump is 2.1 m (7 ft) long. The vacuum pump power cord is 2 m (6 ft 6 in) long. If your bench abuts a wall, drill a 3.8 cm (1.5 in) diameter hole through the rear of the bench for the vacuum hose.
- A single XCD installs to the right of the GC. A second XCD installs to the left of the GC. Allow for at least 8 cm (3 in) space between the side of the GC and the detector to allow for proper GC and XCD ventilation.

The following table provides dimensions and weight requirements.

Instrument Description	Weight		Height		Depth		Width	
	Kg	lbs.	cm	in	cm	in	cm	in
8255 Nitrogen Detector	24	52	41	16.1	51.1	20.1	27	10.6
8255 S Standalone Nitrogen Detector	24	52	41	16.1	51.1	20.1	27	10.6
8355 Sulfur Detector	22	49	41	16.1	51.1	20.1	27	10.6
8355 S Standalone Sulfur Detector	22	49	41	16.1	51.1	20.1	27	10.6
Edwards RV5 Pump	21.5	47.3	28	11	35	14	18	7

## Environmental Conditions

Operating your instrument within the recommended temperature ranges ensures optimum instrument performance and lifetime.

### Special notes

- Performance can be affected by sources of heat & cold, e.g. direct sunlight, heating/cooling from air conditioning outlets, drafts and/or vibrations.
- The bench or supporting surface must be vibration free.
- The laboratory's ambient temperature conditions must be stable for optimum performance.
- To minimize oil smells in the lab, the vacuum pump exhaust must be vented to an exhaust line or vent hood.

The following table may help you calculate the additional BTUs of heat dissipation from this new equipment. Maximums represent the heat given off when heated zones are set for maximum temperatures.

Instrument Description	Operating Temperature Range °C (F)	Operating Humidity Range %
XCD Detector	10 - 40°C	5-80%

## Power Consumption

### Special notes

- If a computer system is supplied with your instrument, be sure to account for those electrical outlets.

Instrument Description	Line Voltage and Frequency V, Hz	Maximum Power Consumption VA
Detector - 120 VAC	120 VAC single phase	1200 VA
Detector - 240 VAC	240 VAC single phase	1200 VA

## Required Operating Supplies by Customer for Installation

### Special notes

- Download the Essential Chromatography and Spectroscopy Supplies Catalogs for a complete overview about available supplies for your new and existing Agilent Instruments  
<https://www.agilent.com/en-us/products/lab-supplies>
- The ozone generator requires either pure oxygen or an argon/oxygen mix in the 80%Ar/20%O<sub>2</sub> ratio. Air to the generator is not allowed.

Item Description	Vendor's Part Number (if applicable)	Recommended Quantity
Hydrogen Gas - Zero Grade		
Hydrogen Regulator - CGA 350, 882 kPa (125 psig) max	5183-4642	1
Air - Zero Grade		
Air Regulator - CGA 346, 882 kPa (125 psig) max	5183-4641	1
<u>For Ozone Generator – UHP Oxygen OR O<sub>2</sub>/Ar mix</u>		
UHP Oxygen		
O <sub>2</sub> /Ar Mix (20% Oxygen, 80% Argon) - UHP Certified		
Oxygen Regulator - CGA 540, 882 kPa (125 psig) max	5183-4643	1

## Special Requirements and Other Considerations

- Exhaust Venting - During normal operation of the detector the carrier gas and sample are combusted in the burner assembly and then vented through the vacuum pump. The vacuum pump also includes an ozone-destroying chemical trap on the vacuum pump intake. If any residual components are still toxic or noxious, vent these exhausts to a fume hood or other exhaust vent system. Note that an exhaust vent system should not be part of the building environmental control system. A building environmental control system recirculates air within the lab. Exhaust venting must comply with all local environmental and safety codes. Contact your Environmental Health & Safety (EHS) specialist.
- Minimum recommended gas supply pressure for the detector module is 550 kPa (80 psi)

## Service Engineer Review (Optional)

### Service Engineer Comments

If the Service Engineer completed a review of the Site Preparation requirements with the customer, the Service Engineer should complete the following Comments section. Both the Service Engineer and the customer should complete the Site Verification section below.

If there are any specific points that should be noted as part of performing the site preparation review or other items of interest for the customer, please write in this box.

## Site Preparation Verification

Service Request Number:

Date of Review:

Service Engineer Name:

Customer Name:

Service Engineer Signature:

Customer Signature:

Total number of pages in this document: