

Agilent CrossLab Start Up Services

Agilent Synergy H1 Microplate Reader 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.

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, tubing.
- At least four (4) **emergency-protected electrical outlets** proximal to your installation location. It is acceptable to use a power strip or uninterrupted power supply to achieve this requirement.
- The **required operating supplies** necessary for the product and installation.
- IT readiness for computer setup, including internet connectivity for the PC. If this is not feasible, please connect with your Agilent contact.
- 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.

Important Customer Web Links

- To access Agilent training and education, visit <http://www.agilent.com/chem/training> 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](#)
- Technical Support e-mail is bio.tac@agilent.com.

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

- This product requires additional lifting assistance in order to be located in your lab due to its weight. Please discuss the arrangements for this activity with the service engineer prior to installation.

The following table provides dimensions and weight requirements.

Instrument Description	Weight		Height		Depth		Width	
	Kg	lbs.	cm	in	cm	in	cm	in
Synergy H1 with Dispenser and Gas Controller	24.9	55	63.5	25	61	24	40.6	16
CompLap	2.2	4.8	43.2	17	26.3	10.4	38.2	15
Dispenser	2.3	5	25.4	10	20.3	8	20.3	8
Gas Controller	2.3	5	7.6	3	25.4	10	35.5	14

Equipment Positioning on the Bench

- The Synergy H1 requires bench space with the following approximate dimensions: 28" height, 30" depth, and 25" width.
- The rear of the instrument will need at least six (6) inches of free space for cooling airflow and power cord routing.
- The left side of the instrument will need at least six (6) inches of clear space for cable access.
- The right side of the instrument will need at least three (3) inches of clear space.

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 and 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 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	BTU Heat Dissipation	
Synergy H1 and Controller	863 BTU/HR	If the instrument is to be enclosed the container must have an exhaust and temperature control to dissipate the heat generated by the instrument.
Instrument Description	Operating Temperature Range °C (F)	Operating Humidity Range %
Synergy H1	18°C (64°F) – 40°C (104°F)	10-85% non-condensing

Exhaust Venting Requirements

The instrument has a fan to cool internal electronics. If this is blocked or the ambient environment temperature is raised, it could affect the operation of the instrument.

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	Maximum Power Consumption W
Synergy H1	100VAC – 240VAC 50Hz -60Hz	250 VA maximum	250 W maximum
CompLap	100VAC – 240VAC 50Hz -60Hz	68 VA maximum	68 W maximum
Monitor (optional)	100VAC – 240VAC 50Hz -60Hz	68 VA maximum	68 W maximum
Service Outlet	100VAC – 240VAC 50Hz -60Hz	150 VA maximum	150 W maximum

Required Operating Supplies by Customer for Installation

Special notes

For information on Agilent consumables, accessories, and laboratory operating supplies, please visit: [BioTek is now Agilent | Agilent](#)

Special Requirements and Other Considerations

- See the **Customer Responsibilities** section.

Waste liquid and gas management

- If a gas controller accessory has been purchased with the instrument, please refer to the Gas Controller documentation.

Tools

Your Agilent instrument comes with a few basic tools and consumables which are relative to the specific configuration of your system.

Tools (provided)

- Phillips #2 screwdriver

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 service 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:

Total number of pages in this document: