

Agilent CrossLab Start Up Services

Agilent 990 Micro GC 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, 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](#)

Site Preparation

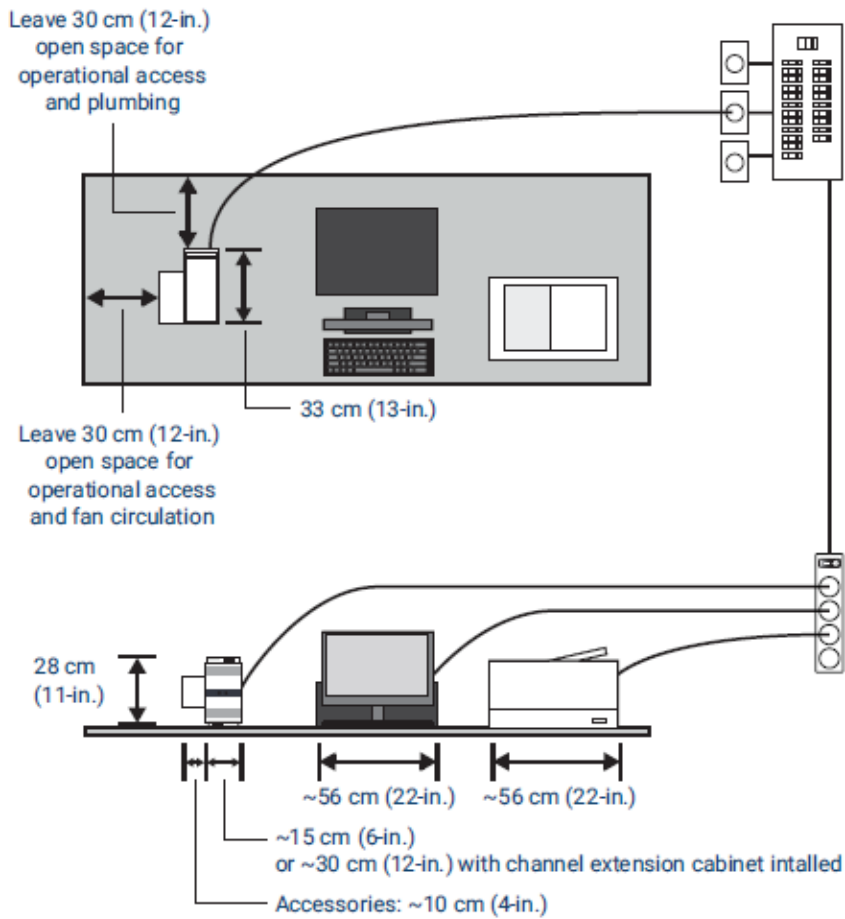
Dimensions and Weight

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

- Require 30 cm (12-inch) open space above Micro GC
- Require 30 cm (12-inch) open space for operational access and fan circulation

Instrument Description	Weight		Height		Depth		Width	
	Kg	lbs.	cm	in	cm	in	cm	in
Micro GC	7.3	16.0	28.28	11.13	32.94	12.97	14.5	5.71
Micro GC with Channel Extension Cabinet installed	15.6	34.5	28.28	11.13	32.94	12.97	30.04	11.83
Power supply	1.1	2.4	4.6	1.8	21.0	8.3	8.5	3.3
Mobile Micro GC Quad channel	37.5	82.67	26.9	10.6	53.8	21.2	40.6	16.0



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 laboratory's ambient temperature conditions must be stable for optimum performance.
- During normal operation of the Micro GC, some of the carrier gas and sample vents outside the instrument through the bents on the rear panel. If any sample components are toxic or noxious, or if hydrogen is used as the carrier gas, the exhausts must be vented to a fume hood.

Instrument Description	Operating Temperature Range °C (F)	Operating Humidity Range %
990 Micro GC	0 to +50 °C	95% RH (Noncondensing)
990 Mobile GC	0 to +50 °C	95% RH (Noncondensing)

Power Consumption

Special notes

- The power source must be reserved exclusively for the instrument.
- The power source and receptacles require a suitable, isolated ground.
- Ensure proper receptacle grounding.
- Use a dedicated receptacle to reduce interference.
- Power Supply
Each Micro GC is delivered with a required, 12V VDC, 180W universal power supply
- Power requirements
Voltage: 100 to 240 VAC
Frequency: 50 to 60 Hz
Installation/Overtoltage Category: II

Required Operating Supplies by Customer for Installation

- Use the following checklist to ensure that the site is properly prepared for Micro GC System installation.
- Use the following checklist to ensure that the site is properly prepared for Micro GC system installation.
 - Ensure that the appropriate installation hardware has been acquired
 - Ensure that the location in which the Micro GC system is being installed meets the requirements for environmental conditions.
 - Prepare bench space for the Micro GC system. Ensure that the bench has the size and weight capacity to accommodate the Micro GC and associated components.
 - Ensure that system components are oriented so that they can be connected properly.
 - Ensure that appropriate venting is provided for the Micro GC system.
 - Ensure that a dedicated power circuit is available for each device in the system. ☒
 - Ensure that appropriate gas supplies are provided for the Micro GC system. ☒
 - Ensure that appropriate gas plumbing is provided for the Micro GC system. ☒

- If the Micro GC system being installed includes a data system, ensure that the PC meets the requirements necessary to properly support the GC system. ☒
- If the Micro GC being installed is to be connected to a site LAN, ensure that the appropriate cabling is available.

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>

- [Available kits for 990 Micro GC system installation:](#)

Micro GC Installation kit (p/n: 19199H)

Part Number	item	Quantity	Unit
5080-8750	Fittings 1/8inch Brass 20/PK	1	PK
5180-4160	Tee, 1/8inch Brass Union 2/PK	4	PK
G3581-20061	1/8in x .065in Copper Tubing,5M	1	EA
G3588-00769	Push Sheet	1	EA
0100-2144	1/8inch Ball Valve	2	EA
G3588-67001	MGC Tool Kit	1	EA
1480-1430	Pin 0.125 +0.0002 0.75 +/-0.010 SST 18-8	5	EA
9300-0311	Leak detector 8oz	1	EA
G3588-80800	990 Tools Box Pack	1	EA

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: