

Agilent CrossLab Start-Up Services

Agilent 8697 Headspace Sampler

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. Installation, Introduction, and First Run Assist are service engagements to get your new instrument and lab productive. Success starts here.

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 and outlines the supplies, space, and utility requirements for your equipment.

Introduction

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 environmental conditions for the site as well as laboratory gases, plumbing and extraction.
- ❑ The power requirements related to the product (e.g. number and location of electrical outlets).
- ❑ The required operating supplies necessary for the product and installation.
- ❑ If 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.

Customer Information

- 1 If you have questions or problems in providing anything described as a Customer Responsibility, please contact your local Agilent or partner support service organization for assistance before the scheduled installation. In addition, Agilent and/or its partners reserve the right to reschedule the installation dependent upon the readiness of your site.
- 2 Should your site not be ready for whatever reasons, please contact Agilent as soon as possible to re-arrange any services that have been purchased.
- 3 Other optional services such as extra training, compliance services and consultation for user-specific applications may also be provided at the time of installation. Please discuss with your Agilent Sales representative before the installation is scheduled.

Important Customer Web Links

- For more information about **Agilent Technologies Services**, please visit our website using the following URL: <http://www.agilent.com/en-us/products/crosslab-instrument-services/service-repair>
- 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>
- 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.
- A useful **Agilent Resource Center** web page is available, which includes short videos on maintenance, quick lists of consumables for new instruments, and other valuable information. Check out the Resource Page here: <https://www.agilent.com/en-us/agilentresources>
- Need technical support, FAQs, supplies? – visit our **Support Home page** <http://www.agilent.com/search/support>
- **Videos** about specific preparation requirements for your instrument can be found by searching the **Agilent YouTube** channel at <https://www.youtube.com/user/agilent>

Revision: 1.00, Issued: February 1, 2021

Agile Document Number: D0008189

DE number: DE44257.4592939815

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Site Preparation

Dimensions and Weight

Identify the laboratory bench space before your instrument arrives based on the following table.

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.

Special notes

- 1 See instrument layout on last page.

Instrument Description	Weight		Height		Depth		Width	
	Kg	lbs	cm	in	cm	in	cm	in
8697 Headspace Sampler	35.1	77.4	83	32.6	64	25.1	46	18.1

Environmental Conditions

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

Special notes

- 1 Performance can be affected by sources of heat and cold, e.g., direct sunlight, heating/cooling from air conditioning outlets, drafts, and/or vibrations.
- 2 The laboratory's ambient temperature conditions must be stable for optimum performance.

Instrument Description	Operating Temperature Range °C (F)	Operating Humidity Range %	Heat Dissipation BTU
8697 Headspace Sampler	10 to 40 °C (50 to 104 °F)	5 to 95% (noncondensing)	2900 BTU

Power Consumption

Instrument Description	Line Voltage and Frequency V, Hz	Maximum Power Consumption VA
8697 Headspace Sampler	100-120 50/60 Hz	852
8697 Headspace Sampler	200-240 50/60 Hz	852

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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>

Item Description (including Dimensions etc.)	Vendor's Part Number (if applicable)	Recommended Quantity
Universal/External split vent trap for vent line	Agilent / RDT-1020	1
Tubing cutter for 1/8 copper tubing for gas supplies	Agilent / 8710-1709	1
Tubing, copper, 1/8-inch, precleaned, 12 ft for gas supplies	Agilent/ 5021-7107	1
1/8 Union Tee Brass Swagelok	Agilent / 0100-0090	2
1/8 Nut & Ferrule Set Brass Swagelok	Agilent/ 5181-7481	2
1/8" Ball Valve	Agilent/ 0100-2144	2

Other/Special Requirements

GC Inlets

	Inlet Type	GC Type		
		8890	8860	9000
Recommended	S/SL	A,B,C	A	A
	MMI	A,B,C	X	A,B,C
	VI	A	X	X
Supported / Not Recommended	CoC	A	A	X
	PP	A	A	X
Not Supported	PTV	X	X	X

Key

A - Fused silica thru septum or connected to interface, GC controlling carrier (PP inlet operated in flow control ONLY).
 B - (On the CPL February 2011) G3521A, 7890 S/SL MMI Weldments for HSS (pre-cut inlet weldment assembly for through-the-septum connection)
 C - (On the CPL February 2011) G3520A, 7890 Transfer Line Interface Accessory (side-connection scheme enables 7693A Tower and HSS transfer line on one inlet)

X - Not Applicable

Special Note:

The G3449A interface option is required to allow both HSS transferline connection and operation of a 7693, or 7650 on the same S/SL or MMI inlet. The G3449A is only compatible with the 8890, 8860 and 9000 GC and can only be installed on the front inlet.

Gas Selection

Carrier Gas Type and Purity: Special Notes

- 1 Agilent recommends that carrier gases be 99.9995% pure. See the table below for acceptable carrier gas types.
- 2 Agilent also recommends using high quality traps to remove hydrocarbons, water, and oxygen.
- 3 When using hydrogen (H₂) as the carrier gas or fuel gas, be aware that hydrogen gas can flow into the GC oven and create an explosion hazard. Therefore, be sure that the supply is turned off until all connections are made and ensure the inlet and detector column fittings are always either connected to a column or capped when hydrogen gas is supplied to the instruments.
- 4 Hydrogen is flammable. Leaks, when confined in an enclosed space, may create a fire or explosion hazard. In any application using hydrogen, leak test all connections, lines, and valves before operating the instrument. Always turn off the hydrogen supply at its source before working on the instrument.

Carrier gas requirements	Purity	Notes
Helium	99.9995%	Hydrocarbon free
Hydrogen	99.9995%	
Nitrogen	99.9995%	
Argon (95%)/Methane(5%)	Highest purity available	Water, oil, and particulate free

Vial Pressurization Gas Type and Purity: Special Notes

- 1 Never use flammable gas for vial pressurization. Flammable gases, such as hydrogen and argon/methane, can create an explosion hazard when used for vial pressurization. The 8697 Headspace Sampler does not support use of flammable gases for vial pressurization.
- 2 Agilent recommends that vial pressurization gases be 99.9995% pure. See the table below for acceptable vial pressurization gas types.
- 3 Agilent also recommends using high quality traps to remove hydrocarbons, water, and oxygen.

Vial pressurization gas requirements	Purity	Notes
Helium	99.9995%	Hydrocarbon free
Nitrogen	99.9995%	

Typical System Layout

