Agilent Technologies

7697A Headspace Sampler
Site Preparation Checklist

Thank you for purchasing an Agilent instrument. To get you started and to assure a successful and timely installation, please refer to this specification or set of requirements.

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, consumables, space and utility requirements for your equipment for your site.

For additional information about our solutions, please visit our web site at
http://www.chem.agilent.com/en-US/Pages/HomePage.aspx

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Customer Responsibilities

Make sure your site meets the following **prior to the installation date using the checklist below. For details, see specific sections within this document**, including:

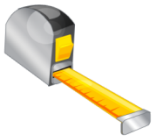
- ☐ the necessary **laboratory or bench space is available.**
- ☐ the **environmental conditions for the lab** as well as laboratory gases, tubing,
- ☐ the **power requirements** related to the product (e.g. **number & location** of electrical outlets)
- ☐ the **required operating supplies** necessary for the product and installation
- ☐ please consult **Other/Special Requirements** section below for other product-specific information
- ☐ For more details, please consult the product-specific Site Prep manual, G4556-90011
- ☐ **If Agilent is delivering installation and familiarization services, users of the instrument should be present throughout these services; otherwise, they will miss important operational, maintenance and safety information.**

Important Customer Information

1. If you have questions or problems in providing anything described as a *Customer Responsibilities* above, please contact your local Agilent or partner support/service organization for assistance prior to delivery. In addition, Agilent and/or it's partners reserve the right to reschedule the installation dependent upon the readiness of your laboratory.

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 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.



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:
1. The second measurement listed in “depth” and “width” includes the transfer line dimension
2. See photos on the last page

Instrument Description	Weight		Height		Depth		Width	
	Kg	lbs	cm	in	cm	in	cm	in
G4556A, 7697A Headspace Sampler	37	84	60.6 *	23.9*	63.6 68	25 26.8	50.9 62.9	20 24.8
G4557A, 7697A Headspace Sampler with Tray	46	101	80*	31.5*	63.6 68.9	25 27.1	50.9 66.5	20 26.2

* The 12 vial model headspace sampler requires 23 cm (9 in.) clearance above the unit for operational access, and 38 cm (15 in.) clearance above the unit for maintenance access. The 111 vial model requires 11 cm (5 in.) above the unit for maintenance access.

Environmental Conditions

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

Special Notes:
1. Performance can be affected by sources of heat & cold e.g. direct sunlight, heating/cooling from air conditioning outlets, drafts and/or vibrations.
2. The site’s ambient temperature conditions must be stable for optimum performance.
3. During normal operation of the instrument, some of the carrier gas and sample vents outside the instrument through a vent on the back panel. If any sample components are toxic or noxious, or if hydrogen is used as the carrier gas, the exhaust must be vented to a fume hood. Place the instrument in the hood or attach a large diameter venting tube to the outlet for proper ventilation. To further prevent contamination from noxious gases, attach a chemical trap to the vent(s).

Instrument Description	Operating temp range °C (F)	Operating humidity range (%)	Heat Dissipation (BTU)
G4556A, 7697A Headspace Sampler	10 to 40 °C (50 to 104 °F)	5 to 95% (noncondensing)	2900 BTU
G4557A, 7697A Headspace Sampler with Tray	10 to 40 °C (50 to 104 °F)	5 to 95% (noncondensing)	2900 BTU

Power Consumption

Special Notes:

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

Instrument Description	Line Voltage & Frequency (V, Hz)	Maximum Power Consumption (VA)	Maximum Power Consumption (W)
G4556A, 7697A Headspace Sampler	Americas: 120 single phase (–10% / +10%) 50/60 Hz	850	
G4556A, 7697A Headspace Sampler	200/220/230/240 single/split phase (–10% / +10%) 50/60 Hz	850	
G4557A, 7697A Headspace Sampler with Tray	Americas: 120 single phase (–10% / +10%) 50/60 Hz	850	
G4557A, 7697A Headspace Sampler with Tray	200/220/230/240 single/split phase (–10% / +10%) 50/60 Hz	850	

Required Operating Supplies by Customer

Special Notes:

1. For information on Agilent consumables, accessories and laboratory operating supplies, please visit http://www.chem.agilent.com/en-US/Products/consumables/Pages/default.aspx

Item Description, (including dimensions etc)	Vendor/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 Inlet Interfaces

		GC Type					
	Inlet Type	**7890**	**6850**	**7820**	**5975T**	**6890**	**Non-Agilent**
Recommended	S/SL	A,C,D	A	A	A,C	A	X
	MMI	A,C,D	X	X	X	X	X
	VI	A	A	X	X	A	X
Supported / Not Recommended	S/SL	B	B	B	B	B	X
	MMI	B	X	X	X	X	X
	CoC	B	B	X	X	B	X
	PP	B	B	B	X	B	X
	Non-Agilent	X	X	X	X	X	E
Not Supported	PTV	X	X	X	X	X	X

Key
A - Fused silica thru septum or connected to interface, GC controlling carrier
B - Fused silica thru septum, HSS controlling carrier (Op200 or G4562A)
C - (On the CPL February 2011) G3521A, 7890 S/SL MMI Weldments for HSS (pre-cut inlet weldment assembly for through-the-septum connection)
D - (On the CPL February 2011) G3520A, 7890 Transfer Line Interface Accessory (side-connection scheme enables 7693A Tower and HSS transfer line on one inlet)
E - HSS controlling carrier using Op200 or G4562A (customer responsible for HSS transfer line connection to GC)
X - Not Applicable

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 either connected to a column or capped at all times 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 intrument.

Carrier gas requirements	Purity	Notes
Helium	99.9995%	Hydrocarbon free
Hydrogen	99.9995%	SFC grade
Nitrogen	99.9995%	
Argon (95%)/Methane(5%)	99.9995%	

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 harzard when used for vial pressurization. The 7697A 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%	

Photos