



Agilent 7696A Sample Prep WorkBench

Specifications

Overview

The Agilent 7696A is a state-of-the-art sample handling system that provides the highest levels of precision and reliability for GC, LC, GC/MS, and LC/MS Sample Prep Automation. The 7696A system consists of:

- Two Liquid Handling Towers
- Three trays of 50 vials each
- Heater – single vial position
- Spin/Vortex mixer
- Bar code reader
- Optional 50 vial tray heating and 50 vial tray Peltier cooling
- Dedicated easy to use software



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Compatibility

The Agilent 7696A Sample Prep Workbench is a standalone instrument and as such is compatible with any vendors LC, GC, LC/MS and GC/MS.

Liquid Handling Features

- Fully programmable draw and dispense rates
- Support of 1, 5, 10, 25, 50 and 100- μ L syringes with Standard Sample Handling Syringe Carriage
- Support of 250- and 500- μ L syringes with Enhanced Sample Handling Syringe Carriage
- Liquid Handling turret can hold up to three 2-mL vials at once for use with advanced liquid handling capabilities
- Active vial-gripping mechanism
- Sensors in the vial-gripper mechanism detect that a vial has been grasped
- Sensors in the liquid handling turret detects that the vial has been transferred
- Sensors to detect the presence of Enhanced Sample Handling Syringe Carriage
- Illuminated syringe for easy viewing
- User-changeable syringe carriage
- Self-aligning liquid handling station and tray

Liquid Handling

The 7696A provides a wide range of liquid handling capabilities to provide maximum flexibility.

Liquid handling parameter control	Parameter range
Variable sampling depth	–2 to +30 mm above default
Pre- and post-liquid syringe	0–15 rinses for each of solvent A and B rinsing
Sample prewashes	0–15 prewashes
Viscosity delay	0–7 seconds
Solvent saver	Set at 10, 20, 30, 40, and 80% of syringe volume
Syringe size	1-, 2-, 5-, 10-, 25-, 50-, and 100- μ L maximum volume with standard syringe carriage 250- and 500- μ L maximum volume with optional Enhanced Sample Handling Syringe Carriage

Sample Management

Vial Handling

- System supports neckless (shell) vials, standard 2 mL vials, and micro vial inserts
- 150 vials in three separate trays
- Tray samples stored in three removable 5 × 10 racks
- Racks are compatible with multi-tip pipettes

Liquid Handling Tower Wash Solvent

- 10 × 4 mL for tower (usable solvent capacity of 20 mL)

Syringe Support

- Up to 100 µL with standard syringe carriage
- 250/500 µL with optional Enhanced Sample Handling Syringe Carriage
- Supports compatible liquid and gastight syringes

Heater/Mixer/Bar Code Reader

- Single vial heating (temperature range 35 to 80 °C)
- Single vial vortex mixing
- Heating time and mixing time are fully programmable
- Bidirectional mixing up to 4,000 RPM

G8140A Heater/Peltier Chiller Module

- User installable
- Heats one tray of 50 vials (35 to 80 °C)
- Cools (Peltier) one tray of 50 vials (40 to 5 °C)
- Built-in sensors monitors temperatures in plates
- Uses aluminum vial racks to hold samples
- Software control of both tray zones
- Tray heated zones offer a +10 °C offset to accommodate vials with inserts

Physical Specifications

Nominal Weights and Dimensions

	Weight		Height		Depth		Width	
	Kg	lbs	cm	in	cm	in	cm	in
G4513A (x2)	8.6	3.9	51	20.1	16	6.3	17	6.7
G8130A	15	6.8	31	12.2	45	17.7	39	15.4
G4529A	20.5	45	21	8	46	18	68	26.5
G4529AA (Total)	27	60	71	28	46	18	68	26.5

Technical and Environmental

- Indoor use only in ordinary atmospheres
- Altitude up to 4,300 m
- Ambient operating temperature 15 to 35 °C
- Ambient operating humidity 5 to 95%
- Mains supply voltage fluctuations up to $\pm 10\%$ of the nominal voltage
- Pollution degree 2, Installation Cat II
- 7696A is rated for mains connection to 100–120 VAC or 220–240 VAC, 50/60 Hz, 180 VA

Instrument description	Line voltage and frequency (V, Hz)	Maximum power consumption (VA)	Maximum power consumption (W)
G4529AA	100–120 VAC or 220–240 VAC, 50/60 Hz,	800 VA	800 W
	Operating temp range	Operating humidity range (%)	Heat Dissipation (BTU)
G4529AA	5 °C to 55 °C 41 °F to 131 °F	80% at 31 °C 80% at 89 °F	

Safety and Support

- Error indicators show the source operating failure
- Flash memory allows product firmware enhancements to be uploaded via PC
- Onsite repair is available for the 7696A system
- In the event of any instrument failures, Agilent's industry-leading Express Exchange* service can minimize downtime by shipping replacement liquid handling modules within hours

* Not available in all countries

For More Information

For more information on our products and services, visit our Web site at www.agilent.com/chem.

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