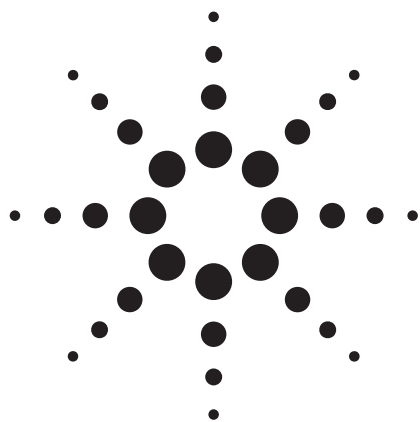




Agilent 7696A Sample Prep WorkBench

Specifications

Overview

The Agilent 7696A Sample Prep WorkBench 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 GC compatible 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
- Optional five decimal place readable semimicro balance
- Optional LC compatible trays



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Compatibility

The 7696A Sample Prep Workbench is a standalone instrument, it is designed to operate in safe fume hood environment. It 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 a standard sample handling syringe carriage
- Support of 250- and 500- μ L syringes with an enhanced sample handling syringe carriage
- The 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 detect that the vial has been transferred
- Sensors to detect the presence of an 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 multityp pipettes
- Supports both GC and LC sample trays

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

Mettler Weigh Station module – option

- Must be installed by Agilent Service
- Five decimal place readable semimicro balance
- Built in OIML traceable reference weight for automatic internal calibration
- Built in deionizer to eliminate static influence on accurate weighing
- Integrated with hardware and software

Technical and environmental – specific to Weigh Station

- Indoor use only in ordinary atmospheres
- Altitude up to 2,000 m
- Ambient operating temperature 10 to 30 °C
- Ambient operating humidity 20 to 65%, noncondensing
- Maximum capacity 10 grams
- Warm up time – 1 hour
- WorkBench mainframe support surface must be level
- Vibration limited to 0.05 Hz transmitted to WorkBench mainframe
- Compressed air supply – Clean, dry air – Instrument quality – water, oil and particle free with an input pressure setting of 5 psi (typical ¼ in supply line) [Max. pressure 20 psi] [Min. flow 15 Lpm]
- Main supply voltage fluctuations up to +10%/-15% of the nominal voltage
- Pollution degree 2, Installation Cat II
- Weigh Station is rated for mains connection to 100–240 VAC, 50/60 Hz, 0.5 A

Attention

Operating the Weigh Station outside of the recommended parameters can result in a decrease in performance and/or damage.

Physical specifications

Nominal weights and dimensions

	Weight		Height		Depth		Width	
	kg	lbs	cm	in	cm	in	cm	in
G4513A (x2)	3.9	8.6	51	20.1	16	6.3	17	6.7
G8130A	6.8	15	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%
- Main supply voltage fluctuations up to $\pm 10\%$ of the nominal voltage
- Pollution degree 2, Installation Cat II
- 7696A is rated for main 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 using a PC
- Onsite repair is available for the 7696A system
- Onsite performance validation service is available for the 7696A system (including WeighStation)
- In the event of any instrument failures, the Agilent industry-leading Express Exchange* service can minimize downtime by shipping replacement liquid handling modules within hours

* Not available in all countries

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