Environment

Your autosampler will work within specifications at ambient temperatures and relative humidity as described in Table 1.

CAUTION

Do not store, ship or use your autosampler under conditions where temperature fluctuations may cause condensation within the autosampler. Condensation will damage the system electronics. If your autosampler was shipped in cold weather, leave it in its box, and allow it to warm up slowly to room temperature to avoid condensation.

Table 1 **Physical Specifications - Autosampler (G1313A / G1329A / G1389A / G2260A)**

Type	Specification	Comments
Weight	14.2 kg (31.3 lbs)	
Dimensions (height × width × depth)	200 × 345 × 435 mm (8 × 13.5 × 17 inches)	
Line voltage	100 – 120 or 220 – 240 VAC, ± 10 %	Wide-ranging capability
Line frequency	50 or 60 Hz, ± 5 %	
Power consumption (apparent power) Power consumption (active power)	300 VA 200 W	Maximum Maximum
Ambient operating temperature	4 – 55 °C (41 – 131 °F)	see WARNING on page 16
Ambient non-operating temperature	-40 to 70 °C (-4 to 158 °F)	
Humidity	< 95 %, at 25 – 40 °C (77 – 104 °F)	Non-condensing
Operating Altitude	Up to 2000 m (6500 ft)	
Non-operating altitude	Up to 4600 m (14950 ft)	For storing the autosampler
Safety standards: IEC, CSA, UL	Installation Category II, Pollution Degree 2	

WARNING

Using the autosampler at environmental temperatures higher than 50 °C (122 °F) may cause the rear panel to become hot.

Performance Specifications

Table 62 **Performance Specifications Agilent 1100 Series Autosampler (G1313A) and Thermostatted Autosampler (G1329A). Valid when standard 100 µl metering head installed.**

Type	Specification
GLP features	Early maintenance feedback (EMF), electronic records of maintenance and errors
Communications	Controller-area network (CAN). GPIB (IEEE-448), RS232C, APG-remote standard, optional four external contact closures and BCD vial number output
Safety features	Leak detection and safe leak handling, low voltages in maintenance areas, error detection and display
Injection range	0.1 – 100 µl in 0.1 µl increments Up to 1500 µl with multiple draw (hardware modification required)
Replicate injections	1 – 99 from one vial
Precision	Typically < 0.5 % RSD of peak areas from 5 – 100 µl, Typically < 1 % RSD of peak areas from 1 – 5 µl
Minimum sample volume	1 µl from 5 µl sample in 100 µl microvial, or 1 µl from 10 µl sample in 300 µl microvial
Carryover	Typically < 0.1 %, < 0.05 % with external needle cleaning
Sample viscosity range	0.2 – 50 cp
Replicate injections per vial	1 – 99
Sample capacity	100 × 2-ml vials in 1 tray 40 × 2-ml vials in ½ tray 15 × 6-ml vials in ½ tray (Agilent vials only)
Injection cycle time	Typically 50 s depending on draw speed and injection volume

Table 63 **Performance Specifications Agilent 1100 Series Autosampler (G1313A) and Thermostatted Autosampler (G1329A).**
Valid when standard 900 µl metering head installed.

Type	Specification
Pressure	Operating range 0-20 MPa (0-200 bar, 0-2950 psi)
GLP features	Early maintenance feedback (EMF), electronic records of maintenance and errors
Communications	Controller-area network (CAN). GPIB (IEEE-448), RS232C, APG-remote standard, optional four external contact closures and BCD vial number output
Safety features	Leak detection and safe leak handling, low voltages in maintenance areas, error detection and display
Injection range	0.1 – 900 µl in 0.1 µl increments (recommended 1 µl increments) Up to 1800 µl with multiple draw (hardware modification required)
Replicate injections	1 – 99 from one vial
Precision	Typically < 0.5 % RSD of peak areas from 5 – 2000 µl, Typically < 1 % RSD of peak areas from 2000 – 5000 µl, Typically < 3 % RSD of peak areas from 1 – 5 µl
Minimum sample volume	1 µl from 5 µl sample in 100 µl microvial, or 1 µl from 10 µl sample in 300 µl microvial
Carryover	Typically < 0.1 %, < 0.05 % with external needle cleaning
Sample viscosity range	0.2 – 50 cp
Sample capacity	100 × 2-ml vials in 1 tray 40 × 2-ml vials in ½ tray 15 × 6-ml vials in ½ tray (Agilent vials only)
Injection cycle time	Typically 50 s, depending on draw speed and injection volume

Table 64 **Performance Specifications Agilent 1100 Series Thermostatted Micro Autosampler (G1389A)**

Type	Specification
Sample capacity	100 x 2 ml vials in 1 tray. Microvials (100 or 300 µl) with sleeves (reduced cooling performance with microvials)
Settable injection volume	0.01 to 8 µl with small loop capillary
	0.01 to 40 µl with extended loop capillary
Precision	Typically < 0.5 % RSD from 5 to 40 µl
	Typically < 1 % RSD from 1 to 5 µl
	Typically < 3 % RSD from 0.2 to 1 µl
Minimum sample volume	1 µl from 5 µl sample in 100 µl microvial, or 1 µl from 10 µl sample in 300 µl microvials
Carryover	Typically < 0.1 % without automated needle wash
	Typically < 0.05 % with external needle cleaning and 1 µl injection volume
Sample viscosity range	0.2 - 5 cp
Recommended pH-range	1.0 - 8.5 solvent with pH < 2.3 should not contain acids which attack stainless steel. Upper pH range is limited by fused silica capillaries
Material in contact with solvent	Stainless steel, sapphire, PTFE, PEEK, fused silica, Vespel
GLP features	Early maintenance feedback (EMF), electronic records of maintenance and errors
Communications	Controller-area network (CAN). GPIB (IEEE-448), RS232C, APG-remote standard, optional four external contact closures and BCD vial number output
Safety features	Leak detection and safe leak handling, low voltages in maintenance areas, error detection and display
Housing	All material recyclable

Table 65 **Performance Specifications Agilent 1100 Series Preparative Autosampler (G2260A)**

Type	Specification
Pressure	Operating range 0-40 MPa (0-400 bar, 0-5800psi)
GLP features	Early maintenance feedback (EMF), electronic records of maintenance and errors
Communications	Controller-area network (CAN). GPIB (IEEE-448), RS232C, APG-remote standard, optional four external contact closures and BCD vial number output
Safety features	Leak detection and safe leak handling, low voltages in maintenance areas, error detection and display
Injection range	0.1 – 900 µl in 0.1 µl increments (recommended 1 µl increments)
	Up to 1800 µl with multiple draw (hardware modification required)
	Up to 5000 µl with multiple draw (hardware modification required)
Replicate injections	1 – 99 from one vial
Precision	Typically < 0.5 % RSD of peak areas from 5 – 2000 µl, Typically < 1 % RSD of peak areas from 2000 – 5000 µl, Typically < 3 % RSD of peak areas from 1 – 5 µl
Minimum sample volume	1 µl from 5 µl sample in 100 µl microvial, or 1 µl from 10 µl sample in 300 µl microvial
Sample viscosity range	0.2 – 50 cp
Sample capacity	100 × 2-ml vials in 1 tray
	15 × 6-ml vials in ½ tray (Agilent vials only)
Injection cycle time	Typically 50 s, depending on draw speed and injection volume