

1 Installing the Sampler

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 - sampler (G1367A / G1377A)

Type	Specification	Comments
Weight	15.5 kg (34.2 lbs)	
Dimensions (height × width × depth)	200 × 345 × 440 mm (8 × 13.5 × 17 inches)	
Line voltage	100 – 240 VAC, ±10 %	Wide-ranging capability
Line frequency	50 or 60 Hz, ±5 %	
Power consumption (apparent power)	300 VA	Maximum
Power consumption (active power)	200 W	Maximum
Ambient operating temperature	4 to 55 °C (41 to 131 °F)	
Ambient non-operating temperature	-40 to 70 °C (-4 to 158 °F)	
Humidity	< 95 %, at 25 to 40 °C (77 to 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	

No accessible hardware fuse is needed because the main power supply is safe against any short circuits or overload conditions on the output lines. When overload conditions occur, the power supply turns off all output voltages. Turning the line power off and on again resets the power supply to normal operation if the cause of the overload condition has been removed.

An over-temperature sensor in the main power supply is used to turn off output voltages if the temperature exceeds the acceptable limit (for example, if the cooling fan of the instrument fails). To reset the main power supply to normal operating conditions, turn the instrument off, wait until it is approximately at ambient temperature and turn the instrument on again.

The following table gives the specifications of the main power supply.

Table 77 Main Power Supply Specifications

Maximum power	300 VA / 200 W	Continuous output
Line Input	100 – 240 volts AC ± 10 %, line frequency of 50/60 Hz	Wide ranging
Output 1	+ 24 V / 4.5 A (maximum)	total power consumption of + 24 V and + 36 V must not exceed 107 W.
Output 2	+ 36 V / 2.5 A (maximum)	
Output 3	+ 5 V / 3 A	
Output 4	+ 15 V / 0.3 A	
Output 5	- 15 V / 0.3 A	

Performance Specifications

Table 79 Performance Specifications Agilent 1100 Series Well Plate Sampler

Type	Specification
GLP features	Early maintenance feedback (EMF), electronic records of maintenance and errors
Communications	Controller-area network (CAN). 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 μ l in 0.1 μ l increments Up to 1500 μ l with multiple draw (hardware modification required)
Precision	Typically < 0.5 % RSD of peak areas from 5 – 100 μ l, Typically < 1 % RSD from 1 – 5 μ l
Sample viscosity range	0.2 – 5 cp
Sample capacity	2 \times well-plates (MTP) + 10 \times 2 ml vials 100 \times 2 ml in one tray 40 \times 2 ml in half tray
Injection cycle time	Typically < 30 s using following standard conditions: Default draw speed: 200 μ l/min Default eject speed: 200 μ l/min Injection volume: 5 μ l
Carry-over	Typically < 0.01 % using the following conditions: Column: 125 \times 4 mm Hypersil ODS, 5 μ m Mobile phase: Water/Acetonitrile = 80/20 Flow rate: 1 ml/min Injection volume: 1 μ l caffeine (1 mg/ml), 5 μ l water to test carryover Outside wash of needle before injection: 20 sec with water using flush port

Table 80 Performance Specifications Agilent 1100 Series Micro Well Plate Sampler

Type	Specification
GLP features	Early maintenance feedback (EMF), electronic records of maintenance and errors
Communications	Controller-area network (CAN). 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	0.01 – 8 µl in 0.01 µl increments with the small loop capillary 0.01 – 40 µl in 0.01 µl increments with the extended loop capillary
Precision	Typically < 0.5 % RSD of peak areas from 5 – 40 µl, Typically < 1 % RSD from 1 – 5 µl Typically < 3 % RSD from 0.2 – 1 µl
Sample viscosity range	0.2 – 5 cp
Sample capacity	2 × well-plates (MTP) + 10 × 2 ml vials 100 × 2 ml in one tray 40 × 2 ml in half tray
Injection cycle time	Typically < 30 s using following standard conditions: Default draw speed: 4 µl/min Default eject speed: 10 µl/min Injection volume: 0.1 µl
Carry-over	Typically < 0.05 % using the following conditions: Column: 150 × 0.5 mm Hypersil ODS, 3 µm Mobile phase: Water/Acetonitrile = 85/15 Column Flow rate: 13 µl/min Injection volume: 1 µl caffeine (=25ng caffeine), 1 µl water to test carryover Outside wash of needle before injection: 20 sec with water using flush port