

Agilent 1260 Infinity II Analytical Fraction Collector (G1364F)

Physical Specifications

Table 119 Physical Specifications

Type	Specification	Comments
Weight	13.5 kg (29.8 lbs)	w/o Thermostat
Dimensions (height × width × depth)	200 × 345 × 440 mm (8 × 13.5 × 17 inches)	
Line voltage	100 – 240 V~, ± 10 %	Wide-ranging capability
Line frequency	50 or 60 Hz, ± 5 %	
Power consumption	200 VA / 180 W	
Ambient operating temperature	4 – 40 °C (41 – 104 °F)	
Ambient non-operating temperature	-40 – 70 °C (-40 – 158 °F)	
Humidity	< 95 %, at 25 – 40 °C (77 – 104 °F) ¹	Non-condensing
Operating altitude	Up to 3000 m (9842 ft)	
Non-operating altitude	Up to 4600 m (15092 ft)	For storing the module
Safety standards: IEC, EN, CSA, UL	Installation category II, Pollution degree 2	For indoor use only.
ISM Classification	ISM Group 1 Class B	According to CISPR 11
Permitted solvents	Auto-ignition temperature ≥200 °C Boiling point ≥56 °C Ignition Class IIA, IIB (IEC60079-20-1)	

¹ If a thermostat is used the upper value for humidity can be reduced. Please check your lab conditions to stay beyond dew point values for non-condensing operation.

Performance Specifications

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Type	Specification
Delay Volume (in μL)	Fraction collector inlet to diverter valve: ~50 (typical, depends on length of the tubing) Diverter valve: ~15 Diverter valve to needle: ~10 Needle: ~4
Minimum system flow	Depending on the recommended flowrates of the installed tubing kit
Maximum system flow	10 mL/min
Maximum collection volume	~20 mL with 30 x 48 mm (OD x L) tube ~30 mL with 30 x 75 mm (OD x L) tube
Maximum capacity	3 fraction collectors in parallel plus one recovery fraction collector
Cooling	Optional (with additional G1330B), performance depending on ambient conditions and the volume of collected fractions
Trigger modes	Time slices Peak (threshold, up- / downslope) Timetable (combination of time intervals and peak) Manual trigger (supported only with Agilent Instant Pilot G4208A)
Trigger Sources	G7115A, 1260 Infinity II DAD G7165A, 1260 Infinity II MWD G7114A, 1260 Infinity II VWD G6120BA, LC/MS Single Quad VL G6130BA, LC/MS Single Quad SL G7121A, 1260 Infinity II FLD G4260B, 1260 Infinity II ELSD G7162A, 1260 Infinity II RID Other detectors can be used but are not supported for fraction collection.

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Type	Specification
Operating Modes	<p>Discrete fractions: default mode for all vessels. The flow is diverted to waste, while moving from one vessel position to the next vessel position</p> <p>Continuous flow: optional, available only when using deep well plates. It is possible to move from one well plate position to the next one without diverting the flow into the well plate to waste</p> <p>Needle into location: Needle pushes into the vessel as deep as specified, for the use with capped vials and test tubes and well plates with closing mats</p> <p>Droplet setup mode: enables the fraction collector to collect small fractions without bubbles. The tip of the fraction collector needle initially moves down to the bottom of the well. Then it slowly moves upwards while the fraction is collected.</p>
Maximum time to move between neighboring vessels	Movement in x-direction: < 0.15 s Movement in y-direction: < 0.3 s
Diverter valve	3/2 valve, with switching time < 100 ms
Maximum pressure	6 bar at the diverter valve during switching

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Plates/Trays	<p>4 x well-plates full tray (MTP)¹</p> <p>2 x well-plates std. tray + 10 funnels with external containers¹ (+ 1 half tray)</p> <p>2 x well-plates std. tray (MTP) + 10 x 2 mL vials¹ (+ 1 half tray)</p> <p>100 x 2 mL in std. tray (+ 1 half tray)¹</p> <p>3 x 40 x 2 mL in half tray¹</p> <p>3 x 40 funnels in half tray</p> <p>3 x 15 x 6 mL in half tray¹</p> <p>Full tray with 40 test tubes (30 mm OD, max. height 48 mm, ~20 mL / tube)</p> <p>Full tray with 60 test tubes (25 mm OD, max. height 48 mm, ~15 mL / tube)</p> <p>Full tray with 126 test tubes (16 mm OD, max. height 48 mm, ~11 mL / tube)</p> <p>Full tray with 215 test tubes (12 mm OD, max. height 48 mm, ~8 mL / tube)</p> <p>Installed trays are automatically detected and identified. In operation mode "Needle into location" installed plates and vials can be detected. <i>Only one type of well-plates can be used at a time in one tray.</i></p>
Fraction Containers	<p>30 x 48 mm (OD x L) tubes, ~20 mL / tube</p> <p>25 x 48 mm (OD x L) tubes, ~15 mL / tube</p> <p>16 x 48 mm (OD x L) tubes, ~11 mL / tube</p> <p>12 x 48 mm (OD x L) tubes, ~8 mL / tube</p> <p>Vials, well plates, capped vials, and well plates with closing mats can be used as recommended by Agilent Technologies</p>
Maximum tube height	<p>48 mm with long needle assembly G1367-87200</p> <p>75 mm with short needle assembly G1364-87202</p>
Instrument Control	<p>LC and CE Drivers A.02.17 or above</p> <p>Instrument Control Framework (ICF) A.02.04 or above</p> <p>Instant Pilot (G4208A) with firmware B.02.22 or above</p> <p>Lab Advisor B.02.10 or above</p>
Communications	<p>Controller-area network (CAN), Local Area Network (LAN)</p> <p>ERI: ready, start, stop and shut-down signals</p>

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Type	Specification
Maintenance and safety-related features	Extensive diagnostics, error detection and display with Agilent Lab Advisor software Leak detection, safe leak handling, leak output signal for shutdown of pumping system, and low voltages in major maintenance areas
GLP features	Early maintenance feedback (EMF) for continuous tracking of instrument usage with user- settable limits and feedback messages. Electronic records of maintenance and errors
Housing	All materials recyclable.

¹ max. height can be extended by using the short needle assembly G1364-87202