



Agilent 1260 Infinity Micro-scale Fraction Collector/Spotter

Features, Specifications and Ordering Details



1260 Infinity Micro-scale Fraction Collector/Spotter

The Agilent 1260 Infinity Micro-scale Fraction Collector/Spotter is a multifunctional tool for precise collection or deposition of minute amounts of separated compounds at lowest carryover. A range of easy-to-exchange capillary kits facilitate operation at flow rates from 0.1 $\mu\text{L}/\text{min}$ to 100 $\mu\text{L}/\text{min}$. The combination of different collection modes with special capillary coatings guarantees reliable deposition of smallest droplets without cross-contamination. This module is ideal for collecting microgram amounts of compounds for further MS analysis or for offline 2-dimensional HPLC. It is also perfectly suited for HPLC-MALDI spotting even with automated online matrix addition. The optional 1260 Infinity Thermostat provides Peltier cooling for your thermally-labile chemical or biochemical samples.

Features

- Seamless integration of the 1260 Infinity Micro-scale Fraction Collector/Spotter within a system minimizes internal volumes for highest separation performance and sensitivity.
- Collection in different well plates (96, 384, standard or conical), in Eppendorf tubes (0.5, 1.5 or 2 mL), or spotting on MALDI targets from all major vendors gives you infinite flexibility for your fractions.
- Liquid contact control enables for reproducible and robust collection of microliter and nanoliter fractions.
- Peltier cooling prevents sample evaporation or thermal decomposition.
- Thermostating of MALDI targets and online matrix addition facilitates superior crystallization between matrix and sample analytes.
- Fast droplet deposition with minimum 3 seconds per fraction.
- Hydrophobic capillary coatings minimize cross-contamination.
- Capillary kits enable highest performance with minimum peak dispersion.



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Specifications – Agilent 1260 Infinity LC Micro Collection/Spotting System

Agilent 1260 Infinity LC Micro Collection/Spotting System specifications	
Performance specs	Baseline noise: ±3 x 10 ⁻⁵ AU, at 254 nm, at flow rates <100 µL/min
System delay volume (typical)	5 µL from EFC to column head, for flow rates up to 20 µL/min (default setup); 14 µL from EFC to column head, for flow rates up to 100 µL/min (default setup)
System control	Through local computer software, LAN or local handheld control module
GLP features	Early maintenance feedback—EMF (tracks lamp burn time, usage, number of injections with limits and feedback messages)

Agilent 1260 Infinity Micro Collector/Spotter	
Delay volume	Typically 0.25 µL with 25 µm capillary 1 µL with 50 µm capillary 4 µL with 100 µm capillary
Fraction collection containers	384 and 96 well-plate format (standard and conical shape), eppendorf tubes (0.5, 1.5, 2.0 ml)
MALDI carriers	For Agilent, Applied Biosystems, Bruker and Micromass targets
Fraction capacity	4 well plates, 4 MALDI plates or 4 x 27 Eppendorf tubes
Maximum collector capacity	2 micro fraction collector/spotter in parallel with 2PS/6PT micro valve
Typical volumes for spotting	100 - 5000 nL
Spotting frequency	< 0.33 Hz
Matrix addition	With syringe pump
Maximum. system flow	100 µL/min (higher flow rates requires system modifications)
Minimum fraction volumes	Typically 2 µL (depending on fraction collection container)
Cooling	With G1330B Peltier Thermostat
Trigger modes	Time and peak-based (threshold, up-/downslope and time table), combination of different modes
Trigger source	Agilent 1260 Series MWW and DAD detectors and third-party detectors (requires UIB)
Environment	4 - 55 °C constant temperature 95 % humidity (non condensing)

Specifications Agilent 1260 Infinity Modules
<ul style="list-style-type: none"> • Agilent 1260 Infinity Nanoflow pump • Agilent 1260 Infinity Capillary pump • Agilent 1260 Infinity Micro Vacuum Degasser • Agilent 1260 Infinity Micro Well-plate Autosampler • Agilent 1260 Infinity High Performance Autosampler • Agilent 1260 Infinity Thermostatted Column Compartment • Agilent 1260 Infinity Diode-array Detector • Agilent 1260 Infinity Multiple Wavelength Detector

Ordering Details – Agilent 1260 Micro Collector/Spotter

Description	Product Number
Agilent 1260 Infinity Micro-scale Fraction Collector/Spotter Includes well-plate tray and 25, 50 and 100 µm capillaries	G1364D
For MALDI spotting	
Online Matrix Kit	G1364-68706
Syringe Pump	3162-0178
Syringe Adapter	9301-1291
Maldi Plate Carrier-Applied Biosystems	5022-6542
Calibration plate (192 spots)	5023-0209
Calibration plate (10x10, 20x20)	5023-0209
Maldi Plate Carrier ABI Opti-TOF™	5023-0238
Maldi Plate Carrier-Agilent Target Calibration Plate	5022-6543 5023-0214
Maldi Plate Carrier-Bruker Plate Calibration Plate	5022-6541 5023-0208
Maldi Plate Carrier Bruker PAC	5022-6546
Maldi Plate Carrier-Micromass Target Calibration Plate	5022-6544 5023-0215
Target Plate for AP-MALDI LC/MS	G1972-60025
Agilent 1200 Series Thermostat For ALS/spotter/FC with Peltier temperature control	G1330B
MALDI Spotting tips, PTFE (10/pk)	G1364-81701
Currently the Agilent 1260 Infinity Collector/Spotter supports the following targets (preconfigured in ChemStation)	
Micromass 96 Micromass Sample 96 Micromass Lock 84 Micromass Sample 84 Micromass Lock 84 Micromass Calib Agilent 96 Agilent for AP MALDI (G1972-60025) Bruker 384 AnchorChip Sample 384 AnchorChip Lock 1536 AnchorChip Bruker "Mini" 96 maldi plates - Need to order adapter (to put the mini plate in standard carrier) from Bruker (Part number: 226413 "MTP MSP adapter") ABI Microtiter format Opti-TOF™ sample plates 80 Applied Biosystems	

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