

Agilent 1200 Series Fraction Collectors

1200 Series fraction collector preparative scale (PS) (G1364B) **1200** Series fraction collector analytical scale (AS) (G1364C) **1200** Series micro collector/spotter (G1364D)

Flexible fraction collection ranging from nanogram to gram quantities

The Agilent 1200 Series fraction collectors are designed for optimized fraction collection capability without compromises. Users can choose between three dedicated fraction collectors depending on sample amount, flow rate and the types of collection containers. The fraction collectors for analytical scale (AS) and preparative scale (PS) provide:

- Lowest delay volume to minimize peak dispersion and carryover between fractions.
- Multiple collection modes, based on time, peak or mass, or manually with the 1200 Series instant pilot.
- Sophisticated trigger options to enable collection of only the desired fractions.
- Fraction preview helps identify the right trigger parameters.
- Unique delay sensor makes determining delay volumes an easy task.
- System intelligence with CAN network to process data in real time for instantaneous and precise fraction collection.
- GLP features, such as Early Maintenance Feedback (EMF), electronic instrument logbook, IQ and OQ/PV, as well as a 21 CFR Part 11 compliant software solution.
- Integrated safety concept, including safe leak handling and leak detection.
- Forced fume extraction makes it possible to use the fraction collector outside a fume cupboard.

Thermostatting module: 1200 Series thermostat for all autosamplers / fraction collectors (G1330B)



Standard solution	Advanced solution	Walk-up solution
Standard functionality for easy system usage. Security Pack for 21 CFR Part 11 compliance.	Easy management of large numbers of samples, flexible workflow integration.	System management for secure access. Ideal for novice users.
Agilent ChemStation Software	Agilent Purification Software	Agilent Easy Access Software
Remote data	a browsing and purity reports a Agilent Data Browser	at your desk.

Software solutions for different users needs



Agilent 1200 Series fraction collectors (AS) and (PS) Features and specifications





From detector Switching valve Fraction collector 1 Fraction collector 2 Fraction collector 3

Multiple collection modes

Collects fraction based on time, peak or mass, or manually with the Agilent 1200 Series instant pilot. Any combination of time windows, thresholds, up and down slopes, upper thresholds and trigger sources, such as UV and/or mass can be used. This enables you to collect exactly the fractions you need.

Fraction preview makes it easy to find the right trigger parameters.

Various collection strategies

• Pooling

If a sample volume is too large for a single injection, repetitive injections from the same sample container can be performed and the resulting fractions collected in the same fraction positions.

Recovery locations

Predefined recovery locations ensure that nothing gets lost. If, for any reason, an important compound was missed during fraction collection, it is not lost, but collected in the recovery location assigned to the sample.

Fraction collection containers for a variety of trays for well-plates, vials and test tubes

Collection ranging from small volumes in 96 and 384 well-plates, up to unlimited volumes in 10, 40 or a maximum of 120 external vessels. Extended fraction collection capacity is provided by using up to three fraction collectors in parallel. Customization of trays with well-plate footprint allows the use of your own special sample containers (max. 100 mm in height). Automatic tray recognition prevents test tube overflow.



Unique delay sensor

Accurate fraction collection requires the user to know the delay volume. A patented fraction delay sensor makes determination of delay volume an easy task. This delay sensor, which is comparable to a detector within the fraction collector, provides data to the Agilent ChemStation which automatically calculates the delay volume after the calibration measurement.



Lowest delay volume

The Agilent 1200 Series fraction collectors are designed for lowest delay volumes to avoid peak dispersion and carry-over between fractions. This assures highest recovery and purity for your fractions, especially for low flow rates. The graph (left) shows the influence of delay volume on fraction recovery and purity.



Agilent 1200 Series micro collector/spotter Features and specifications





The Agilent 1200 Series micro collector/spotter is designed for highly reproducible collection of small fraction volumes. Minimum delay volumes maintain the chromatographic resolution and provide superior fraction results:

- Flexibility for LC/MALDI spotting on various targets types from different vendors, as well as collection into wellplates (96 and 384) and Eppendorf tubes.
- Liquid contact control for reproducible and robust collection of small fraction volumes from nL to the lower µL range.
- **Matrix addition** either offline or online by premixing the matrix with the eluent using a syringe pump.
- **Peltier cooling** prevents thermal decomposition and evaporation of the micro fractions.
- Thermostatting of targets results in superior and reproducible crystallization between matrix and sample analytes.
- · Fraction collection based on peak or time.



Specifications for the 1200 Series micro collector/spotter

ay volume:	 0.25 μL with 25 μm capillary (typically)
	• 1 μL with 50 μm capillary
	• 4 µL with 100 µm capillary
tion containers:	 384 and 96 well-plate format (standard and conical shape),
	• Eppendorf safe-lock tubes (0.5, 1.5, 2.0 mL)
LDI carriers:	For Agilent, Applied Biosystems, Bruker and Micromass targets
ction capacity:	4 well-plates, 4 MALDI plates or 4 x 27 Eppendorf tubes
kimum collector capacity:	2 micro fraction collectors/spotters in parallel
	with 2-position/6-port micro valve
cal volumes for spotting:	100 – 5000 nL
t frequency:	< 0.33 (Hz)
rix addition:	With syringe pump
kimum system flow:	100 µL/min (higher flow rates requires system modifications)
imum fraction volumes:	Typically 2 µL (depending on fraction collection container)
ling:	Optional
ger modes:	Time and peak-based (threshold, up-/downslope, upper threshold
	and timetable), combination of different modes
ger source:	Agilent 1200 Series MWD and DAD detectors,
	third-party detectors (require UIB)
ironment:	4 – 55 °C constant temperature, < 95% humidity (non-condensing)

www.agilent.com/chem/1200

© Copyright 2006 Agilent Technologies Published October 1, 2006 Publication Number 5989-4335EN



Agilent Technologies