

Agilent 1260 Infinity II Fluorescence Detector

Data Sheet

Product Description

The Agilent 1260 Infinity II Fluorescence Detector enables detection sensitivity and selectivity optimization for your specific applications, offering time-programmable excitation and emission wavelength switching. The proven optical and electronic design provides highest sensitivity for the analysis of trace-level components. High-speed detection with up to 74 Hz data rates helps you keep pace with the analysis speed of fast LC.

Features

- Lowest limits of detection with a Raman S/N > 3000 (using dark signal noise reference).
- Optimized baseline stability simplified optical design.
- Up to 100 % resolution gain in fast LC using a 74 Hz data acquisition rate.
- Highest sensitivity Long-life xenon flash lamp (> 4000 hours), lamp reference system, and efficient light collection ensure constant lamp energy for maximum excitation of fluorophores.
- Fast and easy maintenance easy front access and optimized housing and door design enables fast inspection or exchange of the flow cell.
- Documentation of instrument parameters Automatic recognition of all flow cell cartridges provides documentation of instrument parameters and helps to comply with GLP.
- Extensive analytics, error detection and display with Instant Pilot controller and Agilent Lab Advisor software.



Specifications

Table 1 Physical Specificati	ons
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Туре	Specification	Comments
Weight	11.9 kg (26.2 lbs)	
Dimensions (height × width × depth)	140 x 396 x 436 mm (5.5 x 15.6 x 17.0 inches)	
Line voltage	$100-240$ V~, \pm 10 %	Wide-ranging capability
Line frequency	50 or 60 Hz, ± 5 %	
Power consumption	70 VA, 60 W	
Ambient operating temperature	4-40 °C (39-104 °F)	
Ambient non-operating temperature	-40 – 70 °C (-40 – 158 °F)	
Humidity	< 95 % r.h. at 40 °C (104 °F)	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

Table 2 Performance Specifications Agilent 1260 Infinity II Fluorescence Detector (G7121A)

Туре	Specification	Comments
Detection type	One signal wavelength (excitation and emission)	Programmable single wavelength (excitation and emission) fluorescence detector
Performance specifications	 Single wavelength operation: RAMAN (H₂O) > 500 (noise reference measured at signal) 	Reference conditions: Standard cell 8 µL, response time 4 s, HPLC-grade water and restriction capillary.
	 Ex=350 nm, Em=397 nm, dark value 450 nm, standard flow cell RAMAN (H₂0) > 3000 (noise reference measured at dark value) 	
	Ex=350 nm, Em=397 nm, dark value) 450 nm, standard flow cell	
Light source	Xenon Flash Lamp, normal mode 20 W, economy mode 5 W, lifetime 4000 h	
Pulse frequency	296 Hz for single signal mode 74 Hz for economy mode	
Maximum data rate	74 Hz	

Table 2 Performance Specifications Agilent 1260 Infinity II Fluorescence Detector (G7121A)

Ordering Details

Description	Product Number	
1260 Infinity II Fluorescence Detector For programmable single wavelength detection (excitation and emission) up to 74 Hz data rate. Includes standard flow cell, 8 μL.	G7121A	
Additional flow cells		
Semi-micro flow cell 4 µL for FLD	G1321-60015	
Standard flow cell 8 μL for FLD	G1321-60005	
Bio-inert flow cell 8 μL for FLD	G5615-60005	
FLD Wavelength Calibration kit	G7121-68001	

www.agilent.com/chem/infinitylab-lc-series

This information is subject to change without notice.

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