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G2226A 1100 Nano LC Pump Performance Specifications

Type Specification

Hydraulic system	Two dual piston in series, with proprietary servo-controlled variable stroke drive, floating piston, active inlet valve, solvent selection valve and electronic flow control for flow rates from 0.1 to 1 µl/min
Settable column flow Range	0.01 – 4 µl/min 1 – 2500 µl/min (with the electronic flow control bypassed)
Recommended column flow range	0.1 – 1 µl/min 200 – 2500 µl/min (with the electronic flow sensor bypassed)
Optimum composition range	1 to 99% or 5 µl/min per channel (primary flow), whatever is greater
Composition precision	< 0.2 % SD, at 500 nl/min (default settings), Minimum primary flow/pump channel is 5 µl/min
Delay volume	Typically 300 nl from the electronic flow control to the pump outlet for flow rates up to 4 µl/min. For flow rates up to 4 µl/min and electronic flow control active: primary flow path 180 - 480 µl; system pressure dependent (default settings; calculated volume) Typically 180 to 480 µl (system pressure dependent) for flow rates up to 2.5 ml/min. (default settings; calculated volume)
Pressure range	20 to 400 bar (5880 psi) system pressure
Compressibility compensation	User-selectable, based on mobile phase compressibility
Recommended pH range	1.0 – 8.5, solvents with pH < 2.3 should not contain acids which attack stainless steel. Upper pH range is limited by fused silica capillaries.
Control and data evaluation	Agilent ChemStation for LC
Analog output	For pressure monitoring, 2 mV/bar, one output
Communications	Controller-area network (CAN), GPIB, RS-232C, APG Remote: ready, start, stop and shut-down signals, LAN optional

1100 Series Nano Pump Service Manual 259

Safety and maintenance	Extensive diagnostics, error detection and display (through control module and Agilent ChemStation), leak detection, safe leak handling, leak output signal for shutdown of pumping system. Low voltages in major maintenance areas.
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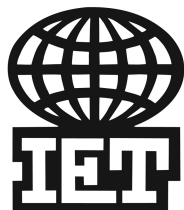
GLP features Early maintenance feedback (EMF) for continuous tracking of instrument usage in terms of seal wear and volume of pumped mobile phase with user-settable limits and feedback messages. Electronic records of maintenance and errors.

Housing All materials recyclable.

Table 64 Performance Specification Agilent 1100 Series Micro Degasser

Type Specification

Maximum flow rate	5 ml/min per channel
Number of channels	4
Internal volume	Typically 1 ml per channel
Internal design	One chamber per channel with optimized flow path for fastest solvent change over
Material in contact with solvents	PTFE, FEP, PEEK



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