

Specifications

Table 2 Performance specifications

Type	Specification	Comments
Hydraulic system	Two dual pistons in series pumps with proprietary servo-controlled variable stroke design, power transmission by ball screws, smooth motion control of pistons for active damping.	
Settable flow range	Setpoints 0.001—5 ml/min, in 0.001 ml/min increments.	Executed in 300 pl/step increments
Flow precision	≤0.07 % RSD or 0.005 min SD, whatever is greater (0.2—5.0 ml/min).	Based on retention time at constant room temperature.
Flow accuracy	±1 % or 10 µl/min, whatever is greater.	Pumping degassed H ₂ O at 10 MPa (100 bar)
Pressure operating range	Operating range up to 120 MPa (1200 bar), up to 2 ml/min, 80 MPa (800 bar) at 5 ml/min.	
Pressure pulsation	<1 % amplitude or < 0.5 MPa (5 bar), whatever is greater.	At 1 ml/min water
Compressibility compensation	Automatic, pre-defined, based on mobile phase selection.	
Gradient formation	High pressure binary mixing.	
Delay volume	Jet Weaver V35: <45 µl Jet Weaver V100: <75 µl	JetWeaver generally recommended. For applications requiring lowest delay volumes, JetWeaver can be removed out of the flow path. Delay volume is then solely determined by the volume of the connection capillary.
Composition range	Settable range: 0 – 100 %	Recommended range: 1 – 99 % or 5 µl/min per channel, whatever is greater.

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Composition precision	<0.15 % RSD, or 0.01 min SD, whatever is greater.	0.2 —5.0 ml/min; based on retention time at constant room temperature
Composition accuracy	±0.35 % absolute (5 – 95 %, 0.2 – 5.0 ml/min)	Water/caffeine tracer
Solvent selection valve	Default	Standard part of the pump
Integrated degassing unit	Number of channels: 2 Internal volume per channel: 1.5 mL	
Control	Agilent ChemStation for LC (B.04.02 or above) EZChrom Elite (3.3.2 SP1 or above) OpenLAB (3.3.2 SP3) Masshunter (B.02.01 SP1 or above)	
Local control	Agilent Instant Pilot (G4208A) (B.02.08 or above)	
Communications	Controller-area network (CAN), RS232C, APG remote: ready, start, stop and shutdown signals, LAN	
Safety and maintenance	Extensive diagnostics, error detection and display (through Agilent Lab Advisor), leak detection, safe leak handling, leak output signal for shutdown of the pumping system. Low voltage in major maintenance areas.	
GLP features	Early maintenance feedback (EMF) for continuous tracking of instrument usage in terms of purge valve switches and volume of pumped mobile phase with pre-defined and user settable limits and feedback messages. Electronic records of maintenance and errors.	
Housing	All materials recyclable.	