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## Agilent 1200 Binary Pump – Model G1312A

### Performance Characteristics

Hydraulic system	Two dual piston in series pumps with proprietary servo-controlled variable stroke drive, floating piston design and active inlet valve
Setable flow range	Setpoints 0.001 – 5 ml/min, in 0.001 ml/min increments
Flow range	0.1 – 5.0 ml/min
Flow precision	≤0.07% RSD, or ≤0.02 min SD whatever is greater, based on retention time at constant room temperature
Flow accuracy	±1% or 10µl/min whatever is greater
Pressure	Operating range 0 400 bar (0 – 5880 psi) up to 5 ml/min
Pressure pulsation	< 2 % amplitude (typically < 1 %), at 1 ml/min isopropanol, at all pressures > 1 MPa
Recommended pH Range	1.0 – 12.5, solvents with pH < 2.3 should not contain acids which attack stainless steel
Gradient formation	High-pressure binary mixing, delay volume 180 – 480 µl without mixer, 600 – 900 µl with mixer, dependent on back pressure
Composition range	1 – 99 % or 5 µl/min per channel, whatever is greater
Composition precision	≤0.5% absolute
Composition accuracy	±0.15% RSD, at 1 ml/min
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

### Instrument Specifications

Weight	15.5 kg (34 lbs)
Dimensions (height × width × depth)	180 × 345 × 435mm (7 × 13.5 × 17 inches)
Line voltage	100 – 120 or 220 – 240 VAC, ± 10%
Line frequency	50 or 60 Hz, ± 5 %
Power consumption	220 VA
Ambient operating temperature	4 – 55 °C (41 – 131 °F)
Ambient non-operating Temperature	40 – 70 °C (-4 – 158 °F)

### The GenTech Difference

Why Buy New When You Don't Have To? Our refurbished instruments have been expertly restored to function at the Manufacturer's original performance specifications. This is validated by internal testing done prior to release and test data is included with the instrument package.. GenTech is a **full service reseller**, our knowledgeable engineers perform installations, repairs, training and application setup. The inventory in our 60,000 sq. foot facility is constantly changing with new shipments coming in daily. GenTech customers receive **lifetime phone support** for all instruments they purchase.