

Are you confronted by the following HPLC solvent delivery challenges?

- Poor chromatographic reproducibility
- System downtime resulting in sample backlog
- Excessively long cycle times
- Poor chromatographic sensitivity
- Compatibility with API Mass Spectrometry applications

Reproducible gradients at low flow rates.

As your lab's productivity demands increase, so do your expectations for reliability, performance and flexibility of your solvent delivery system. With this in mind, the Waters 1525 μ Binary HPLC pump has been designed specifically to meet your low flow LC, LC/MS and LC/MS/MS application needs. Exceptional flow rate precision and accuracy deliver the chromatographic reproducibility you need to fully automate all your processes. The minimized system volume allows for increased sample throughput. With exceptional solvent blending and pulse-free delivery the 1525 μ can meet your most sensitive application challenges. The design of the Waters 1525 μ Binary HPLC pump is based upon proven technology to give you peace of mind. Multiple 1525 μ Binary HPLC pumps used in a multiplexed configuration will accelerate your compound screening, method development and compound characterization applications.



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Specifications

Control

MassLynx™ 4.0 (SP1) and Breeze™ 3.3 software

Programmable Flow Rate

0.00 to 5.00 mL/min, in 0.01-mL/min increments

Flow Precision

2 secs SD, six replicates based on retention time or volumetric measures at 0.2 mL/min 1000-2000 psi backpressure, PQ test (each pump individually)

Flow Accuracy

2% of setting at 0.1 mL/min using degassed methanol at 1000 - 2000 psi backpressure (each pump individually)

Maximum Operating Pressure

6000 psi (41,370 kPa, 401 bars)

Operating Pressure Limits

Software programmable high and low pressure limits; user selectable in psi, kPa, bar

Delay Volume

<30 µL (without mixer) < 100 µL (with one 50 µL mixer)

Gradient Accuracy

<1% of setting (typical) between 10 to 90%, and 1000 psi backpressure (methanol: methanol with propylparaben and one 50 µL mixer)

Gradient Precision

<0.5% RSD (typical) between 10 to 90%, 0.1 mL/min, and 1000 psi backpressure (methanol: water with octanophenone and one 50 µL mixer)

Pressure Ripple (one pump)

<2.0% at 0.5 mL/min, degassed methanol, at 1000 to 2000 psi backpressure

Gradient Ripple

<1.5% normalized to full scale between 10 to 90%, 0.1 mL/min, and 1000 psi backpressure (methanol: methanol with propylparaben) with one 50 µL mixer

Ordering information

1525µ Binary HPLC Pump
In-Line Degasser AF, 2-Channel
In-Line Degasser AF, 4-Channel

Part Number

186001811
186001273
186001272

*An in-line degasser is recommended for flow rates <500 µL/minute.

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