

Waters®
600E
Multisolvent
Delivery
System

Waters 600E Multisolvent Delivery System offers no-compromise high performance in a true single pump design. By combining two Waters patented technologies - time-proven solvent delivery and innovative Random Phase Synchronization (RPS™) software - we can offer you unmatched performance compared with any other single pump gradient system. The 600E System consists of a 600 Pump, with optional manual loop injectors, and a 600E Controller.

600 Pump

Wetted Surface Material	316 stainless steel, sapphire, ruby
Number of Eluents	4
Eluent Degassing	Helium sparge, programmable eluent selection and rate (0-100 mL/min)
Modes of Operation	Isocratic, gradient, flow programming
Operating Flow Range	0.00 - 20.00 mL/min, in 0.01 increments 0.00 - 45.00 mL/min optional
Compressibility Compensation	Automatic
Flow Precision	≤0.1% RSD or 2 sec. SD, six replicates based on retention time or volumetric measure, at 1 mL/min, 1,000 - 2000 psi backpressure, PQ mix, isocratic premix
Operating Pressure	0 - 6000 psi (0 - 410 bar) programmable upper and lower limits
Pressure Stability	≤±1% full scale for one full pump revolution at 1mL/min
Composition Range	0 to 100%, in 1% increments for each of four reservoirs
Composition Accuracy	±0.5% absolute independent of backpressure
Composition Precision	±0.15% absolute independent of backpressure
Physical	Height: 9.62 in. (24.4 cm) Depth: 20.5 in. (52.1 cm) Width: 11.12 in. (28.3 cm) Weight: 60.2 lb. (27.3 kg)

600E Controller

User Interface	Liquid crystal display Integrated tactile keypad
Liquid Crystal Display	5-inch (12.7 cm) diagonal screen: 16 lines, 40 characters/line, 320 x 200 pixels Displays current operating conditions, gradient and timed-event tables on a single screen Cursor prompts user through program setup
Keypad	Direct screen access via dedicated key; simplified programming via function and cursor keys
Program Tables	Flow rate, gradient, timed events, 15 time-based steps/table, 15 table capacity

600E MULTISOLVENT DELIVERY SYSTEM SPECIFICATIONS

Method Tables	Time-based, multi-method capacity, includes linking Program tables
System Control	Provides single keyboard control of Waters Autosamplers, UV/Vis, RI and Conductivity detectors, column temperature control (column heater optional)
Gradient Profiles	11 gradient curves linear, step (2), concave (4), convex (4), includes Waters Auto•Blend™ method for automatic buffer blending
Eluent Blending Control	Random Phase Synchronization (RPS) algorithm, proportioning valve timing automatically adjusts to eluent composition %
External Events	Four-time or operator-controllable switch closures; Two analog outputs for (chart out, pressure)
Inject Terminal	One, receives signal from external injector to initiate method
Physical	Height: 7.28 in. (18.48 cm) Depth: 22.25 in. (57.15 cm) Width: 11.32 in. (28.75 cm) Weight: 16 lb. (7.3 kg)

Environmental & Electrical

Temperature Operating Range	4 °C - 38 °C (39 °F - 100 °F)
Humidity Operating Range	20 - 90% Relative Humidity
Power Requirements	Maximum power: 250 VA
Frequency	47 - 63 Hz

Ordering Information

600E Multisolvent Delivery System	WAT062710
600 Extended Flow Conversion Kit	WAT094003
600 Column Heater	WAT062079
Rheodyne™ 7725i Injector with 600 Mounting Kit	WAT024838
Delta 600 Kit enables dual flow path analytical and semi-preparative injection and operation	WAT073614

Waters Corporation
34 Maple Street
Milford, Massachusetts
01757-3696 USA
508-478-2000
Fax: 508-872-1990
www.waters.com



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