

Prep 150 LC System

The Prep 150 LC System, featuring ChromScope™ Software, is ideally suited for initial workflow criteria requiring rapid preparative separations of complex mixtures. Its versatility allows for manual or automated control to enable purification ranging from just a few samples to greater throughput. The Prep 150 LC System can easily scale up to Waters® AutoPurification™ LC System, offering full automation and higher levels of specificity and purity.

PREPARATIVE SYSTEM SPECIFICATIONS*

Operating flow rate range	Programmable from 0 to 150 mL/min, in 0.01 increments
Operating pressure range	5000 psi (345 bar)
Supported column dimensions	10, 19, 30, and 50 mm I.D.
Wetted material	316 stainless steel, UHMWPE, sapphire, ruby, Tefzel (ETFE), Teflon (FEP, PTFE, FPA), nitronic 60, vlacon H, chemraz, and PEEK
Software	ChromScope

*Individual component specifications may allow operation outside the total system defined parameters. The system is designed and tested only for the ranges defined in system specifications.

SOLVENT MANAGEMENT

	2545 Binary System	2545 Quaternary System
Dwell volume	≤350 µL	<6.5 mL
Flow accuracy	±1.0% of required flow or 10 µL/min, whichever is greater (MeOH or water at 600 psi)	±1.0% of required flow (MeOH or water at 600 psi)
Composition accuracy	±1.0% absolute (full scale) from 5% to 95%, and from 1 to 150 mL (MeOH or water step gradients)	±3% absolute (full scale) from 5% to 95%, and from 1 to 150 mL/min (MeOH or water step gradients) at 600 psi
Composition precision	Retention time variation <0.3% RSD or 0.1 min SD, whichever is greater (dial-a-mix, uracil/caffeine, 6 replicates, 1, 20, 50 mL/min, 70:30 water/MeOH)	Retention time variation <0.15 min SD, (dial-a-mix uracil/caffeine; 1, 5, 20, 50, 150 mL/min; 70:30 water/MeOH)
Number of solvents	Up to four: A1 or A2, B1 or B2	Up to four selectable. 0% to 100% programmable in .01% increments for each reservoir
Gradient composition curves	Eleven (11) gradient curves including linear (1), step (2), concave (4), and convex (4)	

SOLVENT MANAGEMENT

	2545 Binary System	2545 Quaternary System
Compressibility compensation	Automatic and continuous	
Pump seal wash	Integral, active, programmable	
Priming	Self-prime from solvent container on floor with dry lines	

WFC III

Collection capacity	Standard test tube (13.0 to 18.0 mm) rack (120 tubes) Eppendorf tube rack (120 tubes) Scintillation vial (16.5 mm) rack (120 vials) Scintillation vial (27.5 mm) rack (56 vials) Microtiter plate rack (4 x 96/384) Preparative funnel rack (4 x 32 positions) Multipurpose rack
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PREP INJECTOR MODULE

Injector	3725i continuous flow design (MBB)
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FLEX INJECTOR MODULE

Injectors	7725i analytical continuous flow design (MMB) 3725i continuous flow design (MMB)
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2707 SAMPLE MANAGER

Injection volume	0 to 10,000 μ L in 1- μ L increments
Sample loop volume	10-mL sample loop
Needle	60- μ L prep
Sample capacity	Two 12-vial trays for 10-mL vials
Syringe size	2.5 mL

POWER REQUIREMENTS

Voltage	100 to 240 VAC
Frequency	50 to 60 Hz

PHYSICAL DIMENSIONS

Manual	Width: 71 cm (28 inches) Height: 64 cm (25 inches) Depth: 64 cm (25 inches)
Prep 150Q LC w/TUV	Weight: 60 kg (132 pounds)
Prep 150B LC w/TUV	Weight: 78 kg (171 pounds)
Prep 150Q LC w/PDA	Weight: 63 kg (140 pounds)
Prep 150B LC w/PDA	Weight: 80 kg (177 pounds)
Automated	Width: 86 cm (34 inches) Height: 64 cm (25 inches) Depth: 64 cm (25 inches)
Prep 150Q LC w/TUV	Weight: 75 kg (165 pounds)
Prep 150B LC w/TUV	Weight: 93 kg (205 pounds)
Prep 150Q LC w/PDA	Weight: 78 kg (172 pounds)
Prep 150B LC w/PDA	Weight: 95 kg (209 pounds)

Waters

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