

Waters® 2700 Sample Manager

The Waters 2700 Sample Manager is a high capacity, robotic xyz sample processing workstation designed to manage sample injection for HPLC, LC/MS or flow injection analysis using mass spectrometry. The 2700 Sample Manager handles standard 96-well and high-density 384-well microtiter plates, to accommodate more than 2,300 samples in a footprint comparable with lower capacity autosamplers.

Operating Specifications

Sample Capacity	Up to six microtiter plates (96- and 384-well, 200 test tubes, 13 mm x 100 mm; 200 Eppendorf tubes, 1.5 mL or 200 vials, 12 mm x 32 mm)
Injection Accuracy	> 99% at full stroke with 500 µL syringe
Injection Reproducibility	< 0.75 RSD; 20 µL injection volume, 20 µL fixed loop, overflow mode; six replicates; phenone mix, 254 mm; eluent and sample diluent: degassed methanol: water, 60:40, premixed; Symmetry® C ₁₈ column, 3.9 x 50 mm; 1 mL/min
Carryover	< 0.05%
Injection Volume	20 µL standard (fixed loop); 5, 10, 50, 100, 250, 500, 1,000 and 5,000 µL loops available
Injector Cycle Time	< 20 seconds
Pretreatment Routines	Reagent addition, serial dilution and pooling (of collected fractions)
Programmable Options	Fraction collection (requires optional diverter valve) Column selection (requires optional switching valve)
Control	Control software requires (but does not include) PC workstation running Microsoft Windows®
Communications	RS-232 (to PC workstation), TTL connections to peripheral devices
Single System Operation	

Physical/Environmental Specifications

Dimensions	Width: 22 inches (559 mm) Depth: 18 inches (457 mm) Height: 19 inches (483 mm) Weight: 70 lbs. (29.5 kg)
Work Area	Width: 15.1 inches (384 mm) Depth: 5.9 inches (150 mm) Height: 6.9 inches (175 mm)

Mechanical Specifications

Travel Length	X-axis 383 mm (15.08 in.)	Y-axis 150 mm (5.91 in.)	Z-axis 165 mm (6.50 in.)
Resolution	± 0.2234 mm (0.009 in.)	± 0.1422 mm (0.006 in.)	± 0.0982 mm (0.004 in.)
Positional Accuracy	± 0.20 mm (0.008 in.)	± 0.14 mm (0.006 in.)	± 0.14 mm (0.006 in.)

Ordering Information

2700 Sample Manager
(includes PC software.)

Required racks are not included.) 176000126

Options

Diverter Valve Assembly (for fraction collection) WAT272006
Column Switching Valve, 2 columns WAT050045

Racks

Rack, 6 microtiter plates WAT272016
Rack, 2 microtiter plates WAT272017
Rack, 100 test tubes, 13 mm x 100 mm WAT272018
Rack, Eppendorf tubes, 1.5 mL WAT272019
Rack, Vials, 12 mm x 32 mm WAT272020

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