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## *Series 200 HPLC and Radiomatic Flow Scintillation Analyzer*

### **Technical Specifications**

#### **Series 200 Autosampler**

Injection range: Programmable from 0.1-1.0  $\mu\text{L}$  at 0.1  $\mu\text{L}$  increments, 1  $\mu\text{L}$  to 2.5 mL at 1  $\mu\text{L}$  increments  
Precision: Typically < 0.5% RSD of peak areas from 3  $\mu\text{L}$ , linearity > 0.999  
Sample syringe Sizes: 50, 100, 250, 500, 1000, 2500  $\mu\text{L}$   
Carryover: < 0.02%  
Flush volume: 0-2500  $\mu\text{L}$   
External contacts: Two, start and stop time  
Method storage (battery backed): Up to 20 methods including time programming  
Stored methods: Editing possible during runs  
Injection cycle time: 2-3 samples per minute  
Valve materials: In contact with Rheodyne® 7725 for analytical – stainless steel, Vespel®, ceramic, PEEK with sample with Rheodyne 9725 for bio applications – PEEK, Tefzel®, ceramic  
Display: 7-line by 40-character backlit liquid crystal display  
Integrated: For derivatization and dilution options serial communications – standard BCD communications interface – standard 5 relay outputs; 2 timed events, 2 inject, 1 start  
Ambient conditions: 10-30 °C, relative humidity 20-80%  
Peltier sample cooling: 4-60 °C,  $\pm 1$  °C  
Dimensions (W x D x H): 318 mm (12.5 in.) x 483 mm (19.0 in.) x 400 mm (15.8 in.)

#### **Series 200 Pump**

Flow rate range: 0.01 to 10.0 mL/min  
Flow precision: 0.3% RSD @ 1 mL/min water @ 1000 psi  
Flow accuracy: +/-1% of setting retention time  
Reproducibility: < 0.3% RSD (typically < 0.1%)  
Pressure range: 0 to 6200 psi  
Compositional range: 0 to 100%, solvent A to D  
Compositional precision: Typically < 0.2% (89 profile)  
Timed events: Two built-in independent momentary (2 second) contact closures  
Dimensions (W x D x H): 14 cm x 30.5 cm x 43 cm

## **Radiomatic Flow Scintillation Analyzers—Typical Performance Data**

	<i>Liquid<sup>1,2</sup></i>	<i>Solid<sup>3,4</sup></i>
Background		
TR-LSC™ Low:	<sup>3</sup> H < 6 CPM <sup>1</sup> <sup>14</sup> C < 8 CPM <sup>1</sup>	< 10 CPM <sup>3</sup> < 20 CPM <sup>3</sup>
Efficiency	<sup>3</sup> H > 50% <sup>14</sup> C > 90%	Up to 10% Up to 85%
Sensitivity		
TR-LSC Low:	<sup>3</sup> H < 35 DPM <sup>2</sup> <sup>14</sup> C < 50 DPM <sup>2</sup>	< 1,000 DPM <sup>4</sup> < 80 DPM <sup>4</sup>
<sup>1</sup> 500 µL liquid flow cell <sup>2</sup> 2,500 µL liquid flow cell	<sup>3</sup> 200 µL solid flow cell <sup>4</sup> 400 µL solid flow cell	

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