

Compare the Reichert SR7500 Dual Channel System to the Biacore T200 and X100 Systems



	Reichert SR7500DC	Biacore T200	Biacore X100
Number of Channels	2	4	2
Refractive Index Range	1.33 – 1.40	1.33 – 1.40	1.33-1.40
Sample Loading	Semi-automatic or Automatic	Automatic	Automatic
Autosampler Capacity	Maximum 768 samples	Maximum 384 samples	15 samples
Sample Volume	20 – 4500 μL	2 – 350 μL	20-30 μL (required)
Temperature Range	10 °C below ambient to 70°C	4 °C to 45 °C	4 to 40°C (maximum 10°C below ambient)
Sample Compartment Temperature	4 °C or Ambient	4 °C to 45 °C	
Baseline Drift	0.1 RU/min	< 0.3 RU/min	<0.3 RU/min
Baseline Noise	0.05 RU (RMS)	0.03 RU (RMS)	<0.1 RU(RMS)
Flow Rate Range	0.1 – 3000 $\mu\text{L}/\text{min}$	1 – 100 $\mu\text{L}/\text{min}$	1 – 100 $\mu\text{L}/\text{min}$
Minimum Molecular Weight Detection	<100 Da	<100 Da	100 Da
Association Rate Constant Working Range	$10^3 - 10^7 \text{ M}^{-1}\text{s}^{-1}$	$10^3 - 10^7$ or $10^9 \text{ m}^{-1}\text{s}^{-1}$	$10^3 - 10^7 \text{ M}^{-1}\text{s}^{-1}$
Dissociation Rate Constant Working Range	$0.1 - 10^{-5} \text{ s}^{-1}$	$0.1 - 10^{-5} \text{ s}^{-1}$	$0.1 - 10^{-5} \text{ s}^{-1}$
Equilibrium Dissociation Constant Range	10^{-4} to 10^{-12} M	10^{-4} to 10^{-12} M	10^{-4} to 10^{-12} M
Maintenance Costs	Low (no service contract necessary)	High (service contract recommended for at least \$20K per year)	High
Sensor Chip Cost	\$65 for dextran chip	\$150 for dextran chip	\$150 for dextran chip
Specialized Flowcells	Electrochemistry, photochemistry, fluorescence, mass spectrometry	None	None

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