

Comparison of Campden Vibrating Microtomes

	7000smz-2	5100mz-Plus	5100mz
Optimal Z-Axis Deflection	0 µm (±0.1 µm)	0 µm (±2.0 µm)	≈5-8 µm
Opti-cal Vertical (Z-axis) Calibration Device*	Included as standard	Included as standard	Optional Accessory
Blade Oscillation Frequency Range	50**-120 Hz	50-80 Hz	50-80 Hz
Blade Oscillation Amplitude (nominal)	Minimum: 0.5 mm Maximum: 2.5 mm	Minimum: 0.5 mm Maximum: 1.5 mm	Minimum: 0.5 mm Maximum: 1.5 mm
Amplitude Step Size (nominal)	0.25 mm	0.5 mm	0.5 mm
Advance Speed Resolution During Slicing	0.01 mm/sec	0.1 mm/sec	0.1 mm/sec
Specimen Retraction as Blade Retracts	Yes	Yes	Yes
Max Specimen Size	28x50x19	28x50x19	28x50x19
Slice thickness	1 -999um in auto/ up to 19mm in manual		
Cutting Range	40mm	40mm	40mm
Memory to Store Section Thickness	Yes	Yes	Yes
Multiple User Settings	8 different	8 different	8 different
Operating Modes	Manual, semi-automated Slice Window or fully automated Profile Repeat	Manual or semi-automated Slice Window	Manual or semi-automated Slice Window
Cooling Options	Ice bath or optional Model 7610A Tissue Bath Cooler		
Physiological temperature unit	Yes	Yes	Yes
Dimensions	16.5" x 15.7" x 10.6" 420 x 400 x 270 mm	13.7" x 17.7 x 13.7" 350 x 450 x 350 mm	13.7" x 17.7 x 13.7" 350 x 450 x 350 mm

* Campden's Opti-cal is calibrated with metrology equipment traceable to National Standards

** Lower Blade Oscillation frequencies are possible. Please contact us for information.