



	m-VROC® II	VROC® initium one plus	microVISC™
Temperature Control	4 - 70°C	4 - 70°C	18 - 50°C
Sample Storage Temperature Control	N/A	4- 40 ° C	N/A
Dimensions	145 x 216 x 406 (mm)	715 x 373 x 193 (mm) (no autosampler) 715 x 373 x 724 (mm) (with autosampler)	145 x 216 x 71 (mm)
Total Sample Volume	~15µL	~26µL	~100µL
Shear Rate Range	0.86 to 2,020,000 1/s	40 - 140,000 1/s	1.7 - 5,800 1/s
Viscosity Range	0.4~ >200,000cP	0.3 - 1,000 mPa-s (with autosampler) 0.3 - 3,000 mPa-s (with manual syringe)	0.2~ >200,000cP
Accuracy	±2% of reading	±2% of reading	±2% of reading
Repeatability	0.5% of reading	0.5% of reading	0.5% of reading
Sample Loading	Manual	Automated	Manual
Throughput	One samples at a time	96 well plate or 40 vial rack	One sample at a time
Sample Retrieval & Recovery	Yes	Yes	NO
Software Compliance	21CFR Compliant	21CFR Compliant	No
Applications	<u>RESEARCH AND DEVELOPMENT</u> Injection Force Calculation Intrinsic Viscosity/ Molecular Sizing Hydrogels Oils & lubricants Rechargeable Batteries	<u>RESEARCH AND DEVELOPMENT</u> Injection Force Calculation Repeated Shear/ Pumping Study Automation Intrinsic Viscosity/ Molecular Sizing Hydrogels	<u>QUALITY CONTROL</u> Household Care Oils & lubricants Rechargeable Batteries