

RSO™ Oscillatory Rheometer

AMETEK Brookfield brings viscoelasticity measurements within your reach!



Quick Test functionality allows for testing within minutes



Stand-alone mode with easy-to-use interface makes it simple for QC Users



Viscoelastic measurements provide R&D users with advanced testing capabilities



Flexibility allows cone/plate and concentric cylinder in a single instrument

What's Included

- **Instrument**
with Peltier temperature control for sample plate
- **Convenience Package**
includes cleaning cloth and screen protector
- **Air Filtration System**
is added to all orders unless specifically removed

Optional Accessories

- Choice of Cone or Plate Spindle Geometries (at Least One Is Required)
- Rheo3000 Software
- Viscosity Standards
- Choice of Thermal Barrier
 - Teflon (0° – 200°C)
 - Stainless Steel (0° – 200°C+)
- Coaxial Cylinder
 - Bob (spindle) and Chamber
 - FTKY3 Water Jacket for Temperature Control
- Temperature Bath



Features

Controlled shear stress / shear rate operation makes it easy to study static yield to flow curve and viscoelastic behavior

User-friendly Touch Screen and graphical display for standalone operation

Quick Connect Coupling System for easy spindle attachment

Instrument flexibility allows for cone/plate and concentric cylinder in one

Very Small Sample Size permits rapid test setup and cleanup

Spindle Barcode for auto spindle recognition

Standalone simplicity for QC users

Automatic Gap Setting for quick and easy gap setting

Rapid Temperature Control of plate with Peltier option for quick profiling of viscosity vs. temperature

Optional Rheo3000 Software allows for PC control and data acquisition/analysis of multiple test files

MODEL SPECIFICATIONS

Min Torque	5μNm
Max Torque	100mNm
Resolution of Torque	0.02μNm
Bearing	Air bearing
Resolution of deformation	1.25μrad
Min speed	0.001rpm
Max speed	1500rpm
Min frequency	0.001 Hz / 0.006 rad/s
Max frequency	20 Hz / 126 rad/s
Measurement system	Cylinder/Cone Plate
Temp control	Peltier or bath option
Min Temp.	0° C
Max Temp.	180° C
Size W×H×D	360×600×340mm
Weight	31kg



Water Jacket



Choice of cone spindles and plate spindles accommodates various sample types. Plate spindles can be used for highly-filled or very viscous samples.



Thermal Barrier reduces the effects of heat transfer to the environment. Two part chamber provides thermal isolation of the measurement zone.