

# Brookfield brings viscoelasticity measurements within your reach!

# RSO™

## OSCILLATORY RHEOMETER

- 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



**BROOKFIELD**  
**AMETEK®**



# RSO™

## OSCILLATORY RHEOMETER

Cone/Plate & Plate/Plate and  
Coaxial Cylinder DIN Geometry options

### FEATURES

**Controlled shear stress/shear rate**  
operation makes it easy to study  
static yield to flow curve and visco-  
elastic behavior

**User-friendly Touch Screen**  
and graphical display for stand-  
alone 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 set up and clean up

**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



### WHAT'S INCLUDED?

**Instrument**  
with Peltier temperature control for  
sample plate

**Convenience Package**  
(cleaning cloth, 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

### 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 WxHxD	360x600x340mm
Weight	31kg

Water Jacket



Coaxial Cylinder Spindles



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.

