

# Brookfield brings full compliance to stand-alone instruments!

# DVNe<sup>xt</sup>

## CONE/PLATE RHEOMETER

DVNXRVC/P+S+W  
DVNX-VISCOMETER  
W-WATERBATH  
S-SOFTWARE

- Quick Set up with New Viscosity Wizard and Digital Leveling
- Ethernet and LIMS Connectivity
- Updated Gap Settings
- Compliant to 21 CFR Part 11 in Stand-alone Mode



**BROOKFIELD**  
**AMETEK**<sup>®</sup>



# DVNXRVC/P+SOFTWARE+TC550AP



The all-in-one tool for measuring viscosity and yield stress .

## FEATURES - For Standard and Compliant Versions

### 7-inch Full Color Touch Screen Display

- Enhanced Controls
- Real Time Graphing
- Supports Multiple Languages

### Displayed Info:

- Viscosity (cP or mPa\*s)
- Temperature (°C or °F)
- Shear Rate/Stress
- % Torque
- Speed/Spindle
- Step Program Status
- Math Model Calculations

### Viscosity Wizard

**Built-in math models** for data analysis in stand-alone mode. E.g. Casson, Bingham, Power Law, Thix Index

**Integrated Temperature Control** with connection to AMETEK Brookfield TC series Baths and AP/SD Controllers or AMETEK Brookfield Thermosel System.

### Stand-alone Programming

#### RTD Temperature Probe

**Accuracy: ±1.0% of range**

- Displayed with test data

**Repeatability: ±0.2%**

**Analyze characteristics** such as yield stress, flow curves (mixing, pumping, spraying), leveling and recovery

**USB PC Interface** provides optional computer control and automatic data collection capability

### Digital Leveling

**Internal Data Storage: 150 MB**

**Date and Time Stamp File**

### GAMP\*

#### 21 CFR Part 11 Compliant

- Customizable User Access
- Electronic Signatures
- Uneditable PDFs
- Automated Archived Audit Trail

#### Built-In Options

- Math Modeling
- Temperature Control
- Yield Tests
- Programmable QC Limits, Alarms and End Conditions

\* Only available in Compliant Version.

## WHAT'S NEW?

## OPTIONAL ACCESSORIES

	Standard VerSion	Compliant VerSion
<b>Viscosity Wizard</b>	Included	Included
<b>Digital Leveling</b>	Included	Included
<b>Automated Oscillation Test</b>	Included	Included
<b>Updated Gap Setting</b>	Included	Included
<b>Gel Timer Functions</b>	Included	Included
<b>Barcode Scanning</b>	Optional	Included
<b>Ethernet Connectivity</b>	n/a	Included
<b>LIMS Connectivity</b>	n/a	Included
<b>Compliance to 21 CFR Part 11</b>	n/a	Included

RheocalT Software

Label Printer

Bar Code Scanner

Ball Bearing Suspension  
(standard in high torque instruments)

Viscosity Standards

Quick Action Lab Stand

Temperature Bath

Embedded Temperature Probe  
in Sample Cup

Luer and Purge Fittings

Additional Cone Spindles

Protective Touchscreen Covers

Gel Timer Specific Coupling Assembly

VISCOSITY RANGE SPEEDS  
cP(mPa\*s) (2600 available)

MODEL	Min.	Max.	RPM	Number of Increments
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DVNXRVC/P+S+W 1 983K .01-250 2.6K

DVNXRVC/P-VISCOMETER

W-WATERBATH

S-SOFTWARE

K = 1 thousand

M = 1 million

cP = Centipoise

mPa\*s = Millipascal\*seconds

**Note: This combo offer inclusive of spindles and stranded validation liquid.**

# HADVNext C/P+SOFTWARE+TC550AP

## RheocalcT Software

GET TOTAL CONTROL OF YOUR INSTRUMENT AND TEST PARAMETERS

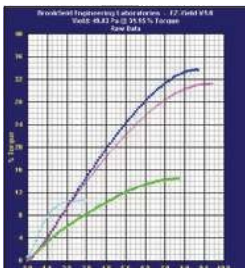
Automatically control the instrument and collect data with RheocalcT running on a dedicated PC with USB interface. RheocalcT can analyze data, generate multiple plot overlays, print tabular data, run math models and perform other time-saving routines. Up to five comparison data sets can be plotted and saved. Other features include:

- Wizards to guide you through the creation of common tests
- Yield Testing, alone, or in conjunction with other viscosity measurements
- Secure 21CFR features including multiple logins, access levels, digital signatures, and data storage in a password-protected database
- Looping functions for repetitive tasks
- Averaging of collected data by individual step or whole test
- Math models: Bingham, Casson, Power Law, Herschel-Bulkley
- Export data to Excel® file format
- Create data reports in PDF format



## AP Series Controllers

- Color touch-screen interface
- Standalone programmable or PC control with RheocalcT software
- Variable-speed pump
- Max. temperature up to 200°C
- Multiple languages (English, French, German, Spanish, Chinese available)
- Built-in help menu



	TORQUE RANGE	SHEAR STRESS RANGE
	Pa	dyne/cm <sup>2</sup>
HA	1-200	40-8K

Yield tests can be performed with the use of optional vane spindles.

## Temperature Baths Features

MODEL	Temperature Range Low	Temperature Range High	Control	Cooling	Temperature Stability†	Digital Temp Resolution (Set / Read)	Reservoir Capacity	Pump Speed	Maximum Flow Rate	Internal Work Area DIM (inches)	Overall Dimensions DIM (inches)	Weight (kg/lbs)
TC-650AP	-20°C	+200°C	AP	Refrigerated	0.01°C	0.01 / 0.001	7.0 liters	Variable	16 LPM	6.18 x 5.59 x 5.0	21.3 x 8.7 x 24.3	90 lbs
TC-650SD	-20°C	+170°C	SD	Refrigerated	0.04°C	0.1 / 0.1	7.0 liters	2-speed	11 LPM	6.18 x 5.59 x 5.0	21.3 x 8.7 x 24.3	90 lbs
TC-650MX	-20°C	+135°C	MX	Refrigerated	0.07°C	0.1 / 0.1	7.0 liters	1-speed	12 LPM	6.18 x 5.59 x 5.0	21.3 x 8.7 x 25.4	84 lbs
TC-550AP	-20°C	+200°C	AP	Refrigerated	0.01°C	0.01 / 0.001	7.0 liters	Variable	16 LPM	6.18 x 5.59 x 5.0	23.2 x 16.2 x 16.2	90 lbs
TC-550SD	-20°C	+170°C	SD	Refrigerated	0.04°C	0.1 / 0.1	7.0 liters	2-speed	11 LPM	6.18 x 5.59 x 5.0	23.2 x 16.2 x 16.2	90 lbs
TC-550MX	-20°C	+135°C	MX	Refrigerated	0.07°C	0.1 / 0.1	7.0 liters	1-speed	12 LPM	6.18 x 5.59 x 5.0	23.2 x 16.2 x 17.3	84 lbs
TC-250AP*	ambient +10°C†	+150°C	AP	Tap Water	0.01°C	0.01 / 0.001	10.0 liters	Variable	16 LPM	5.0 x 11.0 x 6.0	13.9 x 13.5 x 14.9	45 lbs
TC-250SD*	ambient +10°C†	+150°C	SD	Tap Water	0.04°C	0.1 / 0.1	10.0 liters	2-speed	11 LPM	5.0 x 11.0 x 6.0	13.9 x 13.5 x 14.9	45 lbs
TC-250MX*	ambient +10°C†	+135°C	MX	Tap Water	0.07°C	0.1 / 0.1	10.0 liters	1-speed	12 LPM	5.0 x 11.0 x 6.0	13.9 x 13.5 x 16.0	39 lbs
TC-150AP*	ambient +10°C†	+150°C	AP	Tap Water	0.01°C	0.01 / 0.001	6.0 liters	Variable	16 LPM	4.5 x 4.0 x 6.0	13.4 x 8.1 x 14.9	26 lbs
TC-150SD*	ambient +10°C†	+150°C	SD	Tap Water	0.04°C	0.1 / 0.1	6.0 liters	2-speed	11 LPM	4.5 x 4.0 x 6.0	13.4 x 8.1 x 14.9	26 lbs
TC-150MX*	ambient +10°C†	+135°C	MX	Tap Water	0.07°C	0.1 / 0.1	6.0 liters	1-speed	12 LPM	4.5 x 4.0 x 6.0	13.4 x 8.1 x 16.0	20 lbs
TC-351	-20°C	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	14.0 x 14.0 x 14.0	72 lbs

\* For use at lower temperatures, use the built-in tap water cooling, or use model TC-351 Cooler for control to -20°C.

† Low temperature limit 10°C above ambient unless external cooling is used.

‡ Temperature stability may vary depending on bath volume, surface area, insulation and type of fluid

N/A - Not Applicable  
FOR OPERATING TEMPERATURES HIGHER THAN 80°C,  
PLEASE CONTACT BROOKFIELD FOR BATH FLUID RECOMMENDATIONS.