

Brookfield brings full compliance to stand-alone instruments!

DVNe^{xt}

CONE/PLATE RHEOMETER

DVNXHAC/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[®]



DVNXHA C/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 |
|-------------------------------------|------------------|-------------------|
| Viscosity Wizard | Included | Included |
| Digital Leveling | Included | Included |
| Automated Oscillation Test | Included | Included |
| Updated Gap Setting | Included | Included |
| Gel Timer Functions | Included | Included |
| Barcode Scanning | Optional | Included |
| Ethernet Connectivity | n/a | Included |
| LIMS Connectivity | n/a | Included |
| Compliance to 21 CFR Part 11 | 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 |
|----------------------|------|------|---------|----------------------|
| DVNXHAC/P+S+W | 2.6 | 2M | .01-250 | 2.6K |
| DVNXRVC/P-VISCOMETER | | | | |

W-WATERBATH

S-SOFTWARE

M = 1 million

K = 1 thousand

cP = Centipoise

mPa*s = Millipascal*seconds

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

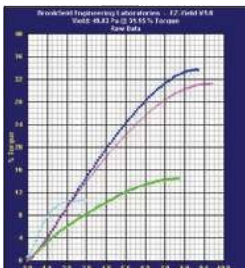
HADVNext C/P+SOFTWARE+TC550AP

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



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

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

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

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.