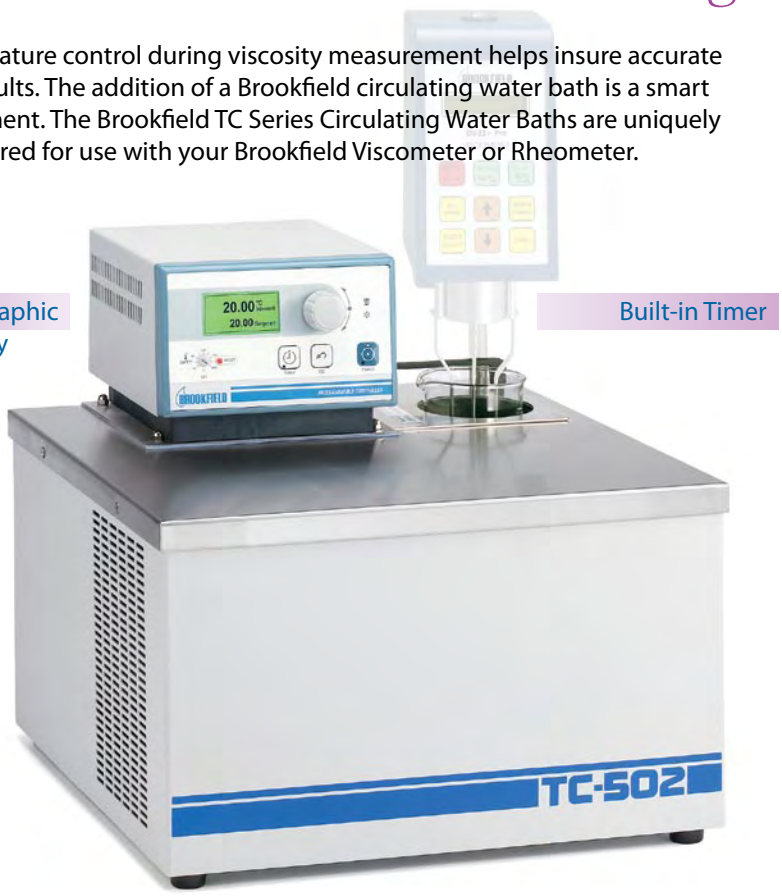
Temperature Control

You need to control sample temperature during viscosity measurements

Temperature control during viscosity measurement helps insure accurate test results. The addition of a Brookfield circulating water bath is a smart investment. The Brookfield TC Series Circulating Water Baths are uniquely configured for use with your Brookfield Viscometer or Rheometer.



Programmable Controllers

offer the highest level of performance, flexibility, and control for the most demanding applications.

- Full graphic display with help menus
- Intuitive, one-touch control
- Time and temperature programming with data logging
- RS-232 Interface –
- Use with Rheocalc™ (p7) or Rheovision™ (p19) Software
- Built-in service reminder
- Five speed pump control

Digital Controllers

have easy-to-use controls. Just dial in your set-point and push a button, you're done!

- LED readout displays set point and fluid temperature
- 3 adjustable temperature pre-sets
- Unique rotary control allows rapid set-point adjustments
- Two speed pump

Temperature Baths

MODEL	Temperature Range Low	Temperature Range High	Controller	Cooling	Temperature Stability†	Digital Readout/ Accuracy	Reservoir Capacity	Internal Work Area DxWxH (inches)	Overall Dimensions DxWxH (inches)	Weight (Gross)
TC-602P	-20°C	+200°C	Programmable	Refrigerated	0.01°C	LCD/±.25	6.0 liters	5¼ x 5¼ x 5½	15¾ x 8¼ x 22½	70 lbs
TC-602D	-20°C	+150°C	Digital	Refrigerated	0.05°C	LED/±.5	6.0 liters	5¼ x 5¼ x 5½	15¾ x 8¼ x 22½	64 lbs
TC-502P	-20°C	+200°C	Programmable	Refrigerated	0.01°C	LCD/±.25	6.0 liters	5¼ x 5¼ x 5½	15¾ x 18¾ x 17	78 lbs
TC-502D	-20°C	+150°C	Digital	Refrigerated	0.05°C	LED/±.5	6.0 liters	5¼ x 5¼ x 5½	15¾ x 18¾ x 17	67 lbs
TC-202P*	-20°C	+150°C	Programmable	Tap Water**	0.01°C	LCD/±.25	10.0 liters	5¼ x 8½ x 7¾	15½ x 10⅞ x 14¾	39 lbs
TC-202D*	-20°C	+150°C	Digital	Tap Water**	0.05°C	LED/±.5	10.0 liters	5¼ x 8½ x 7¾	15½ x 10⅞ x 14¾	33 lbs
TC-102P*	-20°C	+200°C	Programmable	Tap Water**	0.01°C	LCD/±.25	6.0 liters	5¼ x 5¼ x 5½	14¼ x 8¼ x 14	29 lbs
TC-102D*	-20°C	+150°C	Digital	Tap Water**	0.05°C	LED/±.5	6.0 liters	5¼ x 5¼ x 5½	14¼ x 8¼ x 14	23 lbs
TC-351	-20°C	N/A	N/A	N/A	N/A	N/A	N/A	N/A	17 x 14 x 14	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. FOR TEMPERATURES HIGHER THAN 80°C, PLEASE CONTACT BROOKFIELD FOR FLUID RECOMMENDATIONS.

Note: 1. Specify voltage and frequency when ordering.

** Tap water connection required.
N/A - Not Applicable
† Temperature stability may vary depending on bath volume, surface area, insulation and type of fluid

Brookfield Temperature Control

TC-502
Circulating Water Bath Refrigerated

Programmable Controller

Provides stand-alone operation – No tap water required

Easy control of set-point

Configured to measure viscosity directly in the bath – accommodates 600 mL beaker

Programmable Controller version is designed to automate sample temperature control

Built-in circulator to pump to external devices

TC-602
Circulating Water Bath Compact-Refrigerated

Compact — small "footprint" on your lab bench, only 8 1/4 inches wide

Specifically designed for use with water-jacketed devices
–Wells-Brookfield Cone/Plate
–Small Sample Adapter Accessory
–Ultra-Low Adapter Accessory
–R/S-CC Rheometer
–R/S-CPS Rheometer

Provides stand-alone operation – no tap water is required

Easy control of set-point

Programmable Controller version is designed to automate sample temperature control

Brookfield Temperature Control

TC-102
Circulating Water Bath Non-Refrigerated

Compact – small "footprint"

Built-in circulator pump

Built-in tap water cooling coil

Perfect choice for use with Brookfield water-jacketed devices
–Wells-Brookfield Cone/Plate
–Small Sample Adapter Accessory
–Ultra-Low Adapter Accessory
–R/S-CC Rheometer
–R/S-CPS Rheometer

Enhanced Digital Controller

TC-202
Circulating Water Bath Non-Refrigerated

Configured for measuring multiple samples directly in the bath

Work area accommodates 600 mL and 1000 mL beakers (cover is removable for large sample container requirements)

Built-in tap water cooling coil

Built-in circulator pump

TC-351 Cooler **Not Shown**

Eliminates tap water requirements on non-refrigerated baths

Increases lower range of most baths to –20°C

Water Bath Accessories

High Temperature Fluid **1 gal.**

DC510 50°C to 150°C

DC550 100°C to 200°C

Heat transfer fluids provide superior thermal stability

Low Temperature Fluid **1 gal.**

Dynalene -50°C to +58°C

Excellent low temperature performance

Little or no evaporation

For continuous low temperature applications

Algaecide **8 oz.**

Keeps circulator baths clean, odor free and resists black algae

Economical

10-15 drops per gallon

Ethylene Glycol **1 gal.**

-20°C to +100°C

Laboratory grade bath fluid

Normally mixed with water at 50:50 ratio