

# LOW TEMPERATURE VISCOSITY MEASURED BY ROTATIONAL VISCOMETER

## BVS5000 Programmable Brookfield Viscosity Liquid Bath System

- Sample soaking and testing in a single bath, eliminating the need for an air bath and the risk of sample temperature rise during transfer
- Redesigned for improved control of sample movement and handling during testing
- Microprocessor PID temperature control duplicates the sample cooling rates in ASTM D2983
- Up to 40 cooling/testing temperature profiles can be stored in memory

Redesigned programmable baths with improved features for sample handling and testing. Bath accommodates 10 samples for Dynamic Viscosity testing. Sample cells are immersed in a liquid bath for the entire soaking and testing period, eliminating the need to transfer cells from an air bath to a liquid bath with insulated balsa wood carriers. Also eliminated is the inherent risk of sample temperature rise during transfer. The programmable microprocessor PID controller stores up to 40 temperature profiles that duplicate the sample cooling rates found in ASTM D2983. Steady state temperature accuracy and uniformity exceed ASTM requirements throughout the operating range from ambient to -55°C. Air-cooled hermetic compressors provide efficient operation with the use of CFC-free refrigerants.

The mounting position for the Rotational Viscometer has been changed to permit easier access to the samples and viscometer controls. Cabinet has a front window and glare-free fluorescent lighting for distortion free viewing of the sample cells. Cabinet construction is polyester-epoxy finished steel with a chemical-resistant composite top surface. A removable insulated cover with handle is included. Bath rests on adjustable leveling feet. Safety features include a probe fault detection circuit in the primary temperature controller and a redundant latching controller and probe for temperature fault protection.

### Specifications

Conforms to the specifications of:

ASTM D2983 - Note 2 and Note 10; IP 267 Method B; CEC-L-18A-30; ISO 9262

Sample capacity: 10 samples

Temperature control: Microprocessor PID digital-indicating programmable controller with  $\pm 0.05^\circ\text{C}$  steady state stability

Operating Range: ambient to  $-55^\circ\text{C}$

Electrical Requirements: **CE**

220-240V 50 or 60Hz, Single Phase, 12.6A

**Dimensions:** l x w x h, in.(cm)

41 x 34 x 38 (104 x 86.5 x 96.5)

Net Weight: 327 lbs (148.5kg)

### Shipping Information

Shipping Weight: 497 lbs (226kg)

Dimensions: 41.5 Cu. ft.



*K34715 Programmable Brookfield Viscosity Liquid Bath System*

### Accessories

Catalog No.		Order Qty
<b>K447-BL</b>	Rotational Viscometer, Bold Series L 100-240V 50/60Hz	1
<b>K447-PL</b>	Rotational Viscometer, Power Series L 100-240V 50/60Hz	1
<b>K34706</b>	Insulated Spindle No.4B2	1
<b>K447-SP-L4</b>	L4 Spindle	1
<b>K2983-2</b>	Cell Stopper (For K34706 Only)	1
<b>K34707</b>	Cell Stopper	12
<b>K34779</b>	Spindle Support Clips	12
<b>K34708</b>	Insulated Cell Carrier (for Air Bath)	1
<b>K34709</b>	Test Cell - Round Bottom (pack of 12)	1
<b>K34770</b>	Test Cell - Flat Bottom (pack of 12)	1
<b>250-000-122C</b>	ASTM 122C/IP94C Thermometer Range $-45$ to $-35^\circ\text{C}$	1
<b>250-000-123C</b>	ASTM 123C/IP95C Thermometer Range $-35$ to $-25^\circ\text{C}$	1
<b>250-000-124C</b>	ASTM 124C/IP96C Thermometer Range $-25$ to $-15^\circ\text{C}$	1
<b>250-000-125C</b>	ASTM 125C/IP97C Thermometer Range $-15$ to $-5^\circ\text{C}$	1
<b>355-005-027</b>	Viscosity Standard N27B Viscosities in centipoise at $-40, -30, -20, -15, -10, 0^\circ\text{F}$	1
<b>355-005-115</b>	Viscosity Standard N115B Viscosity in centipoise at $-20, -15, -10, 0, +10, 20^\circ\text{F}$	1

### Ordering Information

#### Catalog No.

<b>K34715</b>	BVS5000 Programmable Brookfield Viscosity Liquid Bath System, 220-240V 50Hz
<b>K34716</b>	BVS5000 Programmable Brookfield Viscosity Liquid Bath System, 220-240V 60Hz

 Software compatible, inquire with Customer Service.

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