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; DIN 51398
Sample capacity: 10 samples
Temperature control: Microprocessor PID digital indicating programmable controller with ±0.05°C steady state stability
Operating Range: ambient to –55°C

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

Dimensions (lxwxh,in.(cm))
41x34x38 (104x86.5x96.5)
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 (BVS5000)

ordering information

catalog no.	description
K34715	BVS5000 Programmable Brookfield Viscosity Liquid Bath System, 220-240V 50Hz
K34716	BVS5000 Programmable Brookfield Viscosity Liquid Bath System, 220-240V 60Hz

accessories

K34750	Digital Viscometer, 115V 60Hz
K34751	Digital Viscometer, 220-240V 50Hz
K34752	Digital Viscometer, 220-240V 60Hz
K34760	Programmable Viscometer, 115V 60Hz
K34761	Programmable Viscometer, 220-240V 50Hz
K34762	Programmable Viscometer, 220-240V 60Hz
K34706	Insulated Spindle No.4B2
D2983-2	Cell Stopper (For K34706)
K34707	Cell Stopper
K34708	Insulated Cell Carrier (for Air Bath)
K34709	Test Cell - Round Bottom (pack of 12)
K34770	Test Cell - Flat Bottom (pack of 12)
250-000-122C	ASTM 122C/IP94C Thermometer Range –45 to –35°C
250-000-123C	ASTM 123C/IP95C Thermometer Range –35 to –25°C
250-000-124C	ASTM 124C/IP96C Thermometer Range –25 to –15°C
250-000-125C	ASTM 125C/IP97C Thermometer Range –15 to –5°C
355-005-027	Viscosity Standard N27B Viscosities in centipoise at –40, –30, –20, –15, –10, 0°F
355-005-115	Viscosity Standard N115B Viscosity in centipoise at –20, –15, –10, 0, +10, 20°F

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