



Model VB-50



### Features

- PID controller with auto-tuning to ensure rapid heating, minimum temperature fluctuation and overshoot.
- Push-button operation and LED screen display both the set and actual temperature to  $\pm 0.1^{\circ}\text{C}$  digitally and can be locked.
- Auto diagnostic system integrated in the controller ensures rapid identification and correction in the event of any error.
- Off-set function for calibration use. Important for ISO/Calibration requirement.
- Low-level liquid cut-off switch protects heater burnt out.
- Back-up system memory protects the set point value in case of power failure.
- With built-in circuit breaker to ensure safe and lasting operation.
- Stirring motor ensure temperature uniformity throughout the bath.
- Designed and constructed for continuous operation.
- Glass window for easy viewing.
- Accommodate up to 4 or 8 standard viscometers (not supplied).

### Specifications

MODEL	VB-30	VB-50	VB-50R	VB-50X	VB-50RX
Type	Bench top	Bench top	Floor standing	Bench top	Floor standing
Bath capacity	30 litres	50 litres	50 litres	50 litres	50 litres
Temp. working range	Ambient $+5^{\circ}\text{C}$ to $100^{\circ}\text{C}$		$0^{\circ}\text{C}$ to $100^{\circ}\text{C}$	Ambient $+5^{\circ}\text{C}$ to $100^{\circ}\text{C}$	$0^{\circ}\text{C}$ to $100^{\circ}\text{C}$
Temp. control range	$0^{\circ}\text{C}$ to $100^{\circ}\text{C}$ (below ambient with external cooler)		$0^{\circ}\text{C}$ to $100^{\circ}\text{C}$	$0^{\circ}\text{C}$ to $100^{\circ}\text{C}$ (below ambient with external cooler)	$0^{\circ}\text{C}$ to $100^{\circ}\text{C}$
Viscometers positions	4	8	8	8	8
Accuracy	$\pm 0.1^{\circ}\text{C}$			$\pm 0.01^{\circ}\text{C}$	
Sensor	PT-100				
Setting and display	Digital, read out to $0.1^{\circ}\text{C}$			Digital, read out to $0.01^{\circ}\text{C}$	
Heater	1.5 kW	2 kW	2 kW	2 kW	2 kW
Refrigeration	None	None	$\frac{3}{4}$ HP (built in)	None	$\frac{3}{4}$ HP (built in)
Refrigerant	None	None	CFC Free R-134A	None	CFC Free R-134A
Safety device	Built-in circuit breakers and ELCB				
Stirring	By means of built-in pump				
Bath dimensions (mm)	380Wx260Dx290H	495Wx350Dx350H	495Wx350Dx350H	495Wx350Dx350H	495Wx350Dx350H
Lid opening area (mm)	240Wx250D	395Wx346D			
Overall dimensions (mm)	445Wx365Dx570H	725Wx435Dx650H	780Wx435Dx1020H	725Wx435Dx650H	780Wx435Dx1020H
Power Source	240VAC, 50Hz, 6.4A	240VAC, 50Hz, 8.4A	240VAC, 50Hz, 12.3A	240VAC, 50Hz, 8.4A	240VAC, 50Hz, 12.9A
Weight	18 kg	40 kg	83 kg	40 kg	84 kg

All specifications are subject to change without prior notice.