

EVS-TCB-5

Viscometer Bath

Kinematic Viscosity ASTM D445, ISO3104

Dilute Solution Viscosity ASTM D2598, ISO 1628

With solid-state chiller option

Thermostatically controlled bath with latest embedded electronics for high precision temperature control.

Suitable for kinematic viscosity measurement and dilute solution (polymer and pulp) measurement.

Optional Solid-State chiller provides background ambient cooling to provide excellent bath temperature stability.



Features - the Viscometer bath comprises of a stainless-steel inner tank with double glazed glass front window. The window is illuminated from the front with LED lighting.

The inner tank accommodates a PTFE paddle stirrer, with heaters, over temperature cut-out device and float level safety device.

Stainless steel inner tank with double glazed window – nominal 20L with 5 viscometer positions – 3 in front row and 2 in rear row.

High Precision - The bath uses DC power to continuously control temperature to 3 decimal places .

Calibration – includes (a) resistance calibration of the internal PT100 temperature probe and (b) a bath stability temperature calibration at the designated set-point (s) of use.

Optional built-in solid-state cooling – recirculates a cooling liquid through a stainless-steel coil accommodated in the tank. A built-in reservoir holds the coolant with a filling cap situated in the top of the bath at the rear.

Accommodates up to 5 viscometer positions

The **EVS-TCB** Viscometer Bath, can be used with manual viscometers, as well as automated viscometers.

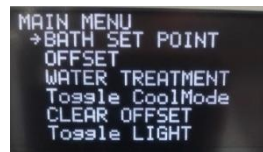
The bath is designed with a flat top lid, to accommodate a Viscometer Control Module.



A bright OLED Screen clearly displays the temperature and the status of the instrument .

The display has a resolution to 3 decimal places.

A five-button control pad on the **EVS - TCB** provides single step access to menus. The user interface includes selection of set-point, reference temperature (offset) as well as a water heating treatment cycle.



External Chiller

To control set points near to ambient, an external solid state chiller option is available, recommended for set-points between 20 to 40 deg. C.

The chiller has a nominal cooling capacity of 220W.



Specifications

EVS-TCB-5 Viscometer Bath Specifications		
Model	EVS-TCB-5-SW	EVS-TCB-5-SWH
Temperature Range	Low range (LR) 20* to 60°C *Note: 20 to 40°C will require optional solid-state chiller	High Range (HR) 50 to 100°C
Compliance	ASTM D445, ISO 3104, IP71 ASTM D2598, ISO1628	ASTM D445, ISO 3104, IP71 ASTM D2598, ISO1628
Bath filling volume	20L	20L
Bath depth	345mm	345mm
Temperature accuracy	+/- 0.01 °C (or better)	+/- 0.01 °C (or better)
Number of Viscometer Positions	5 in 2 rows (51mm OD)	5 in 2 rows (51mm OD)
Temperature display	3 decimal places	3 decimal places
Maximum power	1000W	1000W
Power requirements	100 to 240V AC	100 to 240V AC
Dimensions	400mm (wide) x 536mm (deep) x 450mm (high)	400mm (wide) x 536mm (deep) x 450mm (high)
Display	Actual Temperature Set-point temperature Temperature Offset Toggle light on-off Water treatment heating cycle	Actual Temperature Set-point temperature Temperature Offset Toggle light on-off Water treatment heating cycle
Safety	Over-temperature cut-out Float-level switch Stirrer cut-out	Over-temperature cut-out Float-level switch Stirrer cut-out
Communications	RS485	RS485
PC Option	To control bath via RS485	To control bath via RS485

Ordering Information

EVS Viscometer Bath Model:

EVS-TCB-5-SW Includes 5 place Viscometer bath, recommended range 20 to 60°C

20470/A Solid State chiller, 220W (220-240VAC)

20470/B Solid State chiller, 220W (110/115VAC)

EVS-TCB-5-SWH Includes 5 place Viscometer bath, recommended range 50 to 100°C