



Haven Automation Limited

Calibration Solutions for Industry

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Fluidised Baths - SBL Series

- Working temperature span 50°C to 600°C (0-800°C with TC-8D)
- Control stability $\pm 1^\circ\text{C}$ ($\pm 0.3^\circ$ with TC8-D)
- Three models to choose from
- Simple to operate



The SBL range offers a working environment that is dry, easily accessible and totally free from the dangers associated with high temperature oil or salt baths.

The units are designed to be bench standing and only require an electrical and air supply for operation. Air passes through the mass of the (AL2O3) particles via a porous plate in the base of the unit separating the individual particles and suspending them in free air, giving the properties of a liquid bath. Heaters are placed in the bath which allow temperatures of up to 600°C to be maintained. All the SBL range units have a stainless steel inner container insulated from the outer wall and a safety air pressure switch in the event of loss of air.

All SBL Series fluidised baths are supplied as standard with an overspill flange and an initial charge of fluidising medium.

Other available accessories include air compressor for when a convenient airline is not available, air pressure regulator/filter and stainless steel baskets to keep workpieces from touching the heater elements and to make retrieval easier.

TC-8D
Designed to improve the temperature stability and temperature setting obtainable with the energy regulator supplied as standard with the SBL Series of fluidised baths.

The TC-8D is a self contained unit and is supplied complete with a chromel/alumel Type K thermocouple which fits into the sheath supplied with the SBL baths. The unit has digital set point and readout of bath temperature on an LED display and incorporates PID control.

		SBL-1	SBL-2	SBL-2D	TC-8D
Temperature Range °C		50 to 350	50 to 600	50 to 600	0 to 800
Temperature Stability °C, @ 50°C		± 1	± 1	± 1	± 0.3
Heat up Time, minutes 20°C to maximum		60	105	105	N/A
Cooling Time, minutes from maximum to 200°C		150	300	330	N/A
Air Pressure, kPa (psi)		21 (3)	21 (3)	21 (3)	N/A
Air flow, max litres/min		57	57	57	N/A
Weight of Medium (Kg) supplied with unit		13	16	32	N/A
Overall size (mm)	Diameter (excl. tap)	315	385	385	Width 165 Depth 240 Height 140
	Height	470	470	695	
Working volume (mm)	Diameter	228	228	228	N/A
	Height	120	140	350	



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