

## SL-8K HighTech SL Calibration Bath

JULABO calibration baths are ideal for high precision calibration of sensors, measuring instruments, thermometers, etc. The instruments are certified for application in DKD laboratories and according to the requirements specified by DIN EN ISO 9001:2000.



### Your advantages

- VFD COMFORT DISPLAY
- LCD DIALOG DISPLAY backlit for convenient interactive operation
- Keypad for setpoints, warning/safety values and menu functions
- ICC (Intelligent Cascade Control), self-optimizing temperature control
- TCF Temperature Control Features to optimize the control behavior
- ATC3 3-Point-Calibration
- Pt100 External sensor connection for measurement and control
- SMART PUMP, electronically adjustable pump stages
- Adjustable high temperature cut-out, visible via display
- Integrated programmer for 6 x 60 program steps
- Highest temperature stability to  $\pm 0.005$  °C ( $\pm 0.02$  °C at +200 °C)
- Temperature uniformity better than  $\pm 0.01$  °C
- Optional Pt100 sensor for reference temperature measurements
- Temperature chamber with overflow at maximum liquid level

### Technical data

<b>Available voltage versions</b>		<b>Bath</b>	
Order No.	9 352 508	Bath tank	Stainless steel
Available voltage versions:		Bath cover	integrated
9 352 508.33	230V/50-60Hz (Schuko Plug - CEE 7/4 Plug Type F)	Usable bath opening cm (W x L / D)	12 x 17 /
<b>Cooling</b>		<b>Other</b>	
Cooling coil	integrated	Classification	Classification III (FL)
		IP Code	IP 21
		Pump type	Immersion Pump
<b>Electronics</b>		<b>Dimensions and volumes</b>	
Digital interface	Profibus optional	Usable immersion depth cm	17
External pt100 sensor connection	integrated	Weight kg	16
Integrated programmer	6x60 steps	Dimensions cm (W x L x H)	22 x 46 x 47
Temperature control	ICC	Filling volume l	8
Absolute temperature calibration	3 Point Calibration		
Temperature display	VFD		
Temperature setting	Keypad		
<b>Temperature values</b>			
Working temperature range °C	+50 ... +300		
Temperature stability °C	$\pm 0.005$		
Ambient temperature °C	5 ... 40		
Temperature display resolution °C	0.01		

**Power and capacities**

230V/50-60Hz (Schuko Plug - CEE 7/4 Plug Type F)

208V/50Hz		208V/60Hz	
Heating capacity kW	3	Heating capacity kW	3
Cooling capacity		Cooling capacity	
°C		°C	
kW		kW	
Viscosity max. cST	70	Viscosity max. cST	70
Pump capacity flow rate l/min	22 ... 26	Pump capacity flow rate l/min	22 ... 26
Pump capacity flow pressure bar	0.4 ... 0.7	Pump capacity flow pressure bar	0.4 ... 0.7
Maximum suction bar	0.2 ... 0.4	Maximum suction bar	0.2 ... 0.4
230V/50Hz		230V/60Hz	
Heating capacity kW	3	Heating capacity kW	3
Cooling capacity		Cooling capacity	
°C		°C	
kW		kW	
Viscosity max. cST	70	Viscosity max. cST	70
Pump capacity flow rate l/min	22 ... 26	Pump capacity flow rate l/min	22 ... 26
Pump capacity flow pressure bar	0.4 ... 0.7	Pump capacity flow pressure bar	0.4 ... 0.7
Maximum suction bar	0.2 ... 0.4	Maximum suction bar	0.2 ... 0.4

**Benefits**



**JULABO. Quality.**  
Highest standards of quality for a long product life.



**Green technology.**  
Development consistently applied environmentally friendly materials and technologies.



**Satisfied customers.**  
11 subsidiaries and more than 100 partners worldwide guarantee fast and qualified JULABO support.



**100% Checked.**  
100% testing. 100% quality. Each JULABO Circulator undergoes thorough quality testing before leaving the factory.



**Quick start.**  
Individual JULABO consultation and comprehensive manuals at your disposal.



**Services 24/7.**  
Around the clock availability. You can find suitable accessories, data sheets, manuals, case studies, and more at [www.julabo.com](http://www.julabo.com).



**Connection of additional equipment**  
Stakei connections for solenoid valve, HSP booster pump and HST booster heater



**Early warning system for high/low temperature limits**  
Maximum safety for applications, optical and audible alarm, convertible to automated cut-off function



**Clever pump system**  
Reliable and consistent pump capacity,  
electronically adjustable pump stages



**Control from the external application**  
External Pt100 sensor connection for precise  
measurement and control directly in the  
external application



**For flammable bath fluid**  
Classification III (FL) according to DIN 12876-1



**ATC3. Calibration.**  
'Absolute Temperature Calibration' for  
compensating a physically caused temperature  
difference, 3-point calibration.



**Process. Under control.**  
Full regulation of the dynamics control, access  
to all important control parameters for  
individual process optimization.



**100 % Cooling capacity**  
'Active Cooling Control' for cooling available  
throughout the entire working temperature  
range, fast cool-down even at higher  
temperatures



**Energy saving cooling**  
Proportional cooling control for automatic  
adjustment of cooling power or temporary  
switch-off of compressor as needed to save up  
to 90 % energy in comparison to unregulated  
cooling machines



**Condensation and ice protection**  
A heated cover plate prevents condensation or  
ice build-up in the bath