

## SL-14K 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.

### Product features

- LCD DIALOG DISPLAY backlit for convenient interactive operation
- ICC (Intelligent Cascade Control), self-optimizing temperature control
- TCF Temperature Control Features to optimize the control behavior
- 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



### Performance values

230V/50Hz (Schuko Plug - CEE 7/4 Plug Type F)	
Heating capacity kW	3
Viscosity max. cSt	70
Pump capacity flow rate l/min	22 ... 26
Pump capacity flow pressure bar	0.4 ... 0.7
Maximum suction bar	0.2 ... 0.4
Power consumption A	14

Order 9352514.33  
No.

### Technical data

Available voltage versions		Bath	
Order No.	9 352 514	Bath tank	Stainless steel
Available voltage versions:		Bath cover	integrated
9352514.33	230V/50-60Hz (Schuko Plug - CEE 7/4 Plug Type F)	Usable bath opening cm (W x L / D)	12
Cooling		Other	
Cooling coil	integrated	Classification	Classification III (FL)
		IP Code	IP 21
		Pump type	Immersion Pump
Electronics		Dimensions and volumes	

Interfaces	Profibus optional	Usable immersion depth cm	31
External pt100 sensor connection	integrated	Weight kg	20
Integrated programmer	6x60 steps	Dimensions cm (W x L x H)	22 x 46 x 61
Temperature control	ICC	Filling volume l	14
Absolute temperature calibration	3 Point Calibration		
Temperature display	VFD		
Temperature setting	Keypad		

Temperature values	
Working temperature range °C	+50 ... +300
Temperature stability °C	±0.005
Ambient temperature °C	+5 ... +40
Temperature display resolution °C	0.01

**Included in delivery**  
Including bath cover with seven openings

Depending on the ambient temperature and the bath fluid used, it may be necessary to use the cooling coil for temperature applications around +50 °C.

### All Benefits



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



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



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



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



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



**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).



**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



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



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



**Control of 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

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