

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.



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 $\pm 0.005\text{ }^{\circ}\text{C}$ ($\pm 0.02\text{ }^{\circ}\text{C}$ at $+200\text{ }^{\circ}\text{C}$)
- Temperature uniformity better than $\pm 0.01\text{ }^{\circ}\text{C}$
- Optional Pt100 sensor for reference temperature measurements
- Temperature chamber with overflow at maximum liquid level

Technical data

Available voltage versions		Bath	
Order No.	9 352 514	Bath tank	Stainless steel
Available voltage versions:		Bath cover	integrated
9 352 514.33	230V/50-60Hz (Schuko Plug - CEE 7/4 Plug Type F)	Usable bath opening cm (W x L / D)	12 x 31 /
Cooling		Other	
Cooling coil	integrated	Classification	Classification III (FL)
		IP Code	IP 21
		Pump type	Immersion Pump
Electronics		Dimensions and volumes	
Digital interface	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 $^{\circ}\text{C}$	+50 ... +300		
Temperature stability $^{\circ}\text{C}$	± 0.005		
Ambient temperature $^{\circ}\text{C}$	5 ... 40		
Temperature display resolution $^{\circ}\text{C}$	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.



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