

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 ±0.005 °C (±0.02 °C at +200 °C)
- Temperature uniformity better than ±0.01 °C
- Optional Pt100 sensor for reference temperature measurements
- · Temperature chamber with overflow at maximum liquid level

Technical data

Ambient temperature °C

Temperature display resolution °C

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 ($W \times L \times H$)	22 x 46 x 61
Temperature control		ICC	Filling volume I	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		

5 ... 40

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 °C kW		Cooling capacity °C kW	
Viscosity max. cST	70	Viscosity max. cST	70
Pump capacity flow rate I/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	
230V/50Hz Heating capacity kW	3	230V/60Hz Heating capacity kW	3
	3		3
Heating capacity kW Cooling capacity °C	3 70	Heating capacity kW Cooling capacity °C	3 70
Heating capacity kW Cooling capacity °C kW		Heating capacity kW Cooling capacity °C kW	
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Heating capacity kW Cooling capacity °C kW Viscosity max. cST Pump capacity flow rate I/min	70 22 26	Heating capacity kW Cooling capacity °C kW Viscosity max. cST Pump capacity flow rate I/min	70 22 26

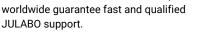
Benefits



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



Satisfied customers. 11 subsidiaries and more than 100 partners





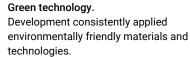
Quick start. Individual JULABO consultation and



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

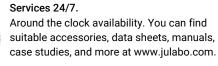
comprehensive manuals at your disposal.





100% Checked.

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





Early warning system for high/low temperature limits

Maximum safety for applications, optical and audible alarm, convertible to automated cut-off function

Julaba



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



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



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



ATC3. Calibration. 'Absolute Temperature Calibration' for

100 % Cooling capacity

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.



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



temperatures
Condensation and ice protection

'Active Cooling Control' for cooling available

throughout the entire working temperature

range, fast cool-down even at higher

A heated cover plate prevents condensation or ice build-up in the bath