

FK31-SL Calibration Bath

The calibration baths in this category feature an integrated refrigeration unit and are suitable for calibration applications to -30 °C. The bath cover with openings and Viton® sleeves is already included in delivery for all models.

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
- · Active Cooling Control



Technical data

Integrated programmer

Absolute temperature calibration

Temperature control

Temperature display

Available voltage versions			Bath	
Order No.	9 352 628		Bath tank	Stainless steel
Available voltage versions:			Bath cover	integrated
9 352 628.02	115V/60Hz (Nema N5-15 Plug)		Usable bath opening cm (W x L / D)	12 x 31 /
9 352 628.03	230V/50Hz (Schuko Plug - CEE 7/4 Plug Type F)			
9 352 628.04	230V/50Hz (UK Plug Type BS1363A)			
Cooling			Other	
Cooling coil		not available	Classification	Classification III (FL)
Cooling of compre	esor	1 -4 A!		
	:5501	1-stage Air	IP Code	IP 21
	3301	i-stage Air	IP Code Pump type	IP 21 Immersion Pump
Electronics		I-stage Air		
Electronics Digital interface	3301	Profibus optional	Pump type	

Dimensions cm (W × L × H)

Filling volume I

Temperature setting	Keypad
Temperature values	

6x60 steps

3 Point Calibration

ICC

VFD

32 x 45 x 91

24



Working temperature range °C	-30 +200
Temperature stability °C	±0.005
Ambient temperature °C	5 40
Temperature display resolution °C	0.01

Power and capacities

115V/60Hz (Nema N5-15 Plug)

115V	//60H	lz		
Heating capacity kW			1	
Cooling capacity (Ethanol)				
°C	20	0	-20	
kW	0.46	0.34	0.15	
Viscosity max. cST			70	
Refrigerant			R134a	
Filling volume g			163	
Global Warming Potential for R134a			1430	
Carbon dioxide equivalent t			0.233	
Pump capacity flow rate I/min			22 26	
Pump capacity flow pressure bar			0.4 0.7	
Maximum suction bar			0.2 0.4	

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

230\	//50H	lz			
Heating capacity kW			2		
Cooling capacity (Ethanol)					
°C	20	0	-20		
kW	0.46	0.34	0.15		
Visco	sity ma	x. cST		70	
Refrigerant			R134a		
Filling volume g			163		
Global Warming Potential for R134a			1430		
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Benefits



JULABO. Quality.

Highest standards of quality for a long product



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