

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.

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 ±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



Performance values

230V/50Hz (Schuko Plug - CEE 7/4 Plug Type F)		
Heating capacity kW	2	
Viscosity max. cSt	70	
Pump capacity flow rate I/min	22 26	
Pump capacity flow pressure bar	0.4 0.7	
Maximum suction bar	0.2 0.4	
Power consumption A	14	

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Order No.		9352628.03	
Cooling capacity (Ethanol)			
°C	20	0	-20
kW ¹	0.46	0.34	0.15
Refrigerant stage 1			
Refrigerant	R134a		
Filling weight g	200		
Global Warming Potential for R134a	1430		
Carbon dioxide equivalent t	0.286		

¹ Performance specifications measured in accordance with DIN 12876. Cooling capacities up to 20 °C measured with ethanol; over 20 °C with thermal oil unless otherwise specified. Performance specifications apply at an ambient temperature of 20 °C. Performance values may differ with other bath fluids.



Technical data

Bath

Available voltage	versions	Cooling	
Order No.	9 352 628	Cooling coil	not available
Available voltage vers	ions:	Cooling of compressor	1-stage Air
9352628.02	115V/60Hz (Nema N5-15 Plug) (R134a)		
9352628.03	230V/50Hz (Schuko Plug - CEE 7/4 Plug Type F) (R134a)		
9352628.04	230V/50Hz (UK Plug Type BS1363A) (R134a)		

III (FL)
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Other

interfaces	i Tolibus optioliai	osable ininicision acpui cin	31
External pt100 sensor connection	integrated	Weight kg	51
Integrated programmer	6x60 steps	Dimensions cm $(W \times L \times H)$	32 x 45 x 91
Temperature control	ICC	Filling volume I	24
Absolute temperature calibration	3 Point Calibration		
Temperature display	VFD		
Temperature setting	Kevnad		

Temperature values	
Working temperature range °C	-30 +200
Temperature stability °C	±0.005
Ambient temperature °C	+5 +40
Setting the resolution of the temperature	0.01

Included in delivery

Including bath cover with seven openings

All Benefits



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



Early warning system for high/low temperature limits

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



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





Connection of additional equipment

Stakei connections for solenoid valve, HSP booster pump and HST booster heater



machines

Clever pump system

Reliable and consistent pump capacity, electronically adjustable pump stages



Control of the external application

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



Condensation and ice protection

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



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.



Ouick 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.