Cleanroom Management International
Groupe Trescal

Product data sheet

Julabo

FK30-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 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 No.	9352627.03		
Cooling capacity (Ethanol)			
°C	20	0	-20
kW	0.46	0.34	0.15

*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.

Refrigerant stage 1	
Refrigerant	R134a
Filling weight g	200
Global Warming Potential for R134a	1430
Carbon dioxide equivalent t	0.286

Technical data

Available voltage versions	
Order No.	9 352 627
Available voltage versions:	
9352627.02	115V/60Hz (Nema N5-15 Plug) (R134a)
9352627.03	230V/50Hz (Schuko Plug - CEE 7/4 Plug Type F) (R134a)
9352627.04	230V/50Hz (UK Plug Type BS1363A) (R134a)

Bath	
Bath tank	Stainless steel
Bath cover	integrated
Usable bath opening cm (W x L / D)	12

Cooling	
Cooling coil	not available
Cooling of compressor	1-stage Air

Other	
Classification	Classification III (FL)
IP Code	IP 21
Pump type	Immersion Pump

Electronics	
Interfaces	Profibus optional
External pt100 sensor connection	integrated
Integrated programmer	6x60 steps
Temperature control	ICC
Absolute temperature calibration	3 Point Calibration
Temperature display	VFD
Temperature setting	Keypad

Dimensions and volumes	
Usable immersion depth cm	17
Weight kg	48
Dimensions cm (W × L × H)	32 x 45 x 79
Filling volume l	14

Temperature values	
Working temperature range °C	-30 ... +200
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

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.

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
Stakei 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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