

FP55-SL Ultra-Low Refrigerated / Heating Circulator

The Ultra-Low Refrigerated Circulators of the HighTech Series with HL or SL circulator feature powerful pressure and suction pumps. The instruments provide the entire variety of functions of the professional HighTech Series of circulators.

Product features

- VFD COMFORT DISPLAY
- 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
- ATC3 3-Point-Calibration
- SMART PUMP, electronically adjustable pump stages
- Adjustable high temperature cut-out, visible via display
- RS232/RS485 interface for online communication
- Integrated programmer for 6 x 60 program steps
- · Connections for solenoid valve and HSP booster pump
- Proportional cooling control



Performance values

400V/3PNPE/50Hz (Plug 32A CEE)	
Heating capacity kW	3
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 A	20



Refrigerant variant	ts				
Order No.			9352755.07	7	
Cooling capacity	y (Ethanol)				
°C	20	0	-20	-40	-50
kW	5.2	4.1	2.2	0.7	0.3
Refrigerant stage 1					
Refrigerant	F	R452A			
Filling volume g	2	2000			
Global Warming for R452A	Potential 2	2140			
Carbon dioxide equivalent 4.28					
Order No.			9352755.S	1.07	
Cooling capacity (Ethanol)					
°C	20	0	-20	-40	-50
kW	5.2	4	1.95	0.67	0.26
Refrigerant stage 1					
Refrigerant	F	R449A			
Filling volume g	2	2000			
Global Warming for R449A	Potential 1	397			
Carbon dioxide o	equivalent 2	2.794			

Technical data

Available voltage versions		Bath		
Order No.	9 352 755		Bath cover	integrated
Available voltage versions:		Usable bath opening cm (W x L / D)	28 x 23 / 23	
9352755.07	400V/3PNPE/50Hz (Plug 32A CEE) (R452A)			
9352755.S1.07	400V/3PNPE/50 (R449A)	Hz (Plug 32A CEE)		
9352755.16	208V/3PPE/60H (R452A)	z (Without Plug)		
Cooling			Other	
Cooling of compressor		1-stage Air	Classification	Classification III (FL)
			IP Code	IP 21
Electronics			Dimensions and volumes	
Digital interface		Profibus optional	Weight kg	180
External pt100 sensor con	nection	integrated	Dimensions cm $(W \times L \times H)$	85 x 76 x 116



Integrated programmer	6x60 steps	Filling volume I	27
Temperature control	ICC	Pump connections	M16x1 m
Absolute temperature calibration	3 Point Calibration		
Temperature display	VFD		
Temperature setting	Keypad		

Temperature values	
Setting the resolution of the temperature display °C	0.01
Working temperature range °C	-55 + 100
Temperature stability °C	±0.05
Ambient temperature °C	+5 +40
Temperature display resolution °C	0.01

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.



Intelligent temperature control.

Intelligent cascade control - automatic and self-optimizing adaptation of the PID control parameters with external stability of \pm 0.05 °C.



Connection of additional equipment

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



Early warning system for high/low temperature

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



For flammable bath fluid

Classification III (FL) according to DIN 12876-1



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



Control of the external application

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



ATC3. Calibration.

'Absolute Temperature Calibration' for compensating a physically caused temperature difference, 3-point calibration.