

FP55-SL HighTech SL/HL 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.

Your advantages

- 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

Technical data

Available voltage versions			Bath			
Order No.	9 352 755N150		Bath cover	integrated		
Available voltage versions:			Usable bath opening cm (W x L / D)	28 x 23 / 23		
9 352 755N150.07	400V/3PNPE/5	0Hz (Plug 32A CEE)				
9 352 755N150.16	208V/3PPE/60H	Hz (Without Plug)				
Cooling			Other			
Cooling of compressor		Air	Classification	Classification III (FL)		
			IP Code	IP 21		
Electronics			Dimensions and volumes			
Digital interface		Profibus optional	Weight kg	180		
External pt100 sensor connection		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 male		
Absolute temperature calibration		3 Point Calibration				
Temperature display		VFD				
Temperature setting		Keypad				
Temperature values						
Setting the resolution of the temperature display °C		0.01	•			
Temperature display resolution °C		0.01				

Performance values



400V/3PNPE/50Hz (Plug 32A CEE)

400V/3PNPE/50Hz								
Heatir	ng capa	acity k	3					
Cooling capacity (Ethanol)								
°C	20	0	-20	-40	-60			
kW	5.2	4.1	2.2	0.7	0.13			
Viscos	sity ma	x. cST	70					
Refrigerant						R452A		
Filling volume g						2000		
Global Warming Potential for R452A						2140		
Carbon dioxide equivalent t						4.28		
Pump capacity flow rate I/min						22 26		
Pump capacity flow pressure bar						0.4 0.7		
Maximum suction bar						0.2 0.4		

208V/3PPE/60Hz (Without Plug)

208V/3PPE/60Hz						
Heating capacity kW						3
Cooling capacity (Ethanol)						
°C	20	0	-20	-40	-60	
kW	5.2	4.1	2.2	0.7	0.13	
Viscos	sity ma	ıx. cST	70			
Refrigerant						R452A
Filling volume g						2000
Global Warming Potential for R452A						2140
Carbon dioxide equivalent t						4.28
Pump capacity flow rate I/min						22 26
Pump capacity flow pressure bar						0.4 0.7
Maximum suction bar						0.2 0.4

Benefits



JULABO. Quality.

Highest standards of quality for a long product life.



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.



Intelligent temperature control.

Intelligent cascade control - automatic and self-optimizing adaptation of the PID control parameters with external stability of +/- 0.05



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