

FL2503 Powerful model in tower version

The FL models shown here have higher cooling capacity, powerful circulating pumps, and internal bath volumes of up to 30 liters. 2 variants: Air-cooled (FL) and water-cooled (FLW).

Your advantages

- · Ergonomic design and easy operation
- · Splash-proof keypad
- Large, bright LED display
- Reliable Microprocessor PID temperature control
- Precise PID temperature control
- · Powerful immersion pumps, suitable for continuous operation
- Permissible temperature in return line +80°C
- Easy filling from the top with hinged protective lid
- · Low liquid level protection with optical and audible alarm signal
- · Integrated stainless steel bath tanks
- Removable ventilation grid
- Front drain
- No side vents, instruments can be placed right next to other equipment
- · RS232 interface for PC connection
- IP class according to IEC 60529: 21
- · Alarm output, potential-free change-over contact (max. 30 VA)
- Pressure Indicator
- By-pass valve to adjust pump pressure



Technical data

Available voltag	ge versions		Bath					
Order No. 9 663 025			Bath tank	Stainless steel				
Available voltage ve	ersions:							
9 663 025.13	230V/60Hz (Nema N6	-20 Plug)						
9 663 025.03	230V/50Hz (Schuko P Type F)	lug - CEE 7/4 Plug						
9 663 025.04	230V/50Hz (UK Plug T	ype BS1363A)						
Cooling			Other					
Cooling of compres	ssor	1-stage Air	Sound pressure level dbA	64				
			Classification	Classification I (NFL)				
			IP Code	IP 21				
			Pump type	Immersion Pump				
Electronics			Dimensions and volumes					
Temperature contro	ol	PID1	Weight lbs	321.9				
Temperature displayTemperature display LED			Barbed fittings inner diameter 3/4"					
Temperature settingTemperature setting Keypa		Keypad	Dimensions in. $(W \times L \times H)$	23.6 x 29.9 x 45.3				
			Filling volume I	24 30				
			Pump connections	G¾" male				
Temperature va	alues							
Setting the resolution of the temperature 0.1 display °C								
Return flow temperature max. °C 80								
Return now temper								
Working temperatu	re range °C	-20 + 40						



Ambient temperature °C	5 40	
Temperature display resolution °C	0.1	

Performance values

230V/60Hz (Nema N6-20 Plug)

208\	208V/60Hz						230\	230V/60Hz					
Coolir	Cooling capacity (Water Glycol)				Coolir	Cooling capacity (Water Glycol)							
°C 20 10 0 -10 -20					°C	20	10	0	-10	-20			
kW	2.5	2.2	1.5	1.2	0.5		kW	2.5	2.2	1.5	1.2	0.5	
Refrigerant R449A			R449A	Refrig	erant		R449A						
Filling volume g 1400					Filling	Filling volume g					1400		
Global Warming Potential for R449A 1397					Globa	Global Warming Potential for R449A 1397							
Carbon dioxide equivalent t 1.956				Carbon dioxide equivalent t 1.956						1.956			
Pump capacity flow rate I/min 40					Pump capacity flow rate I/min 40					40			
Pump capacity flow pressure psi 7.3 43.5					Pump	Pump capacity flow pressure psi 7.3 43.5							

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

230V/50Hz								
Cooling capacity (Water Glycol)								
°C	20	10						
kW	2.5	2.2	1.5					
Refrig	erant		R452A					
Filling	volum	e g	1510					
Globa	l Warm	ing Po	2140					
Carbo	n dioxi	de equ	3.231					
Pump	capac	ity flov	40					
Pump	capac	ity flov	7.3 43.5					

230V/50Hz (UK Plug Type BS1363A)

230V/50Hz								
Cooling capacity (Water Glycol)								
°C	20	10	0	-10	-20			
kW	2.5	2.2	1.5	1.2	0.55			
Refrig	erant		R452A					
Filling	volum	e g	1510					
Globa	l Warm	ing Po	2140					
Carbo	n dioxi	de equ	3.231					
Pump	capac	ity flov	40					
Pump	capac	ity flov	7.3 43.5					



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.



Precise

PID Temperature control with set control parameters, temperature stability $\pm 0.02...\pm 0.2$ °C