

FL4003 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).

Product features

- · 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
- · 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



Technical data

Available volta	ge versions		Bath		
Order No.	9 663 040		Bath tank	Stainless steel	
Available voltage v					
9 663 040.16	230V/3PPE/60Hz (Without Plug)				
9 663 040.07	400V/3PNPE/50Hz (Plug 16A CEE)				
Cooling			Other		
Cooling of compre	ssor	1-stage Air	Sound pressure level dbA	67	
			Classification	Classification I (NFL)	
			IP Code	IP 21	
			Pump type	Immersion Pump	
Electronics			Dimensions and volumes		
Temperature control		PID1	Weight lbs	326.3	
Temperature displayTemperature display		LED	Barbed fittings inner diameter	3/4"	
Temperature settingTemperature setting		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 v	alues				
Setting the resolution of the temperature display °C		0.1			
Return flow temperature max. °C		80			
Working temperature range °C		-20 +40			
Temperature stability °C		±0.5			
Ambient temperature °C		5 40			
Temperature display resolution °C		0.1			



Performance values

230V/3PPE/60Hz (Without Plug)

230V/3PPE/60Hz Cooling capacity °C 20 10 -10 -20 kW 4 3.4 2.4 0.6 Refrigerant R449A Filling volume g 1800

Filling volume g 1800 Global Warming Potential for R449A 1397 Carbon dioxide equivalent t 2.515 Pump capacity flow rate I/min 40 Pump capacity flow pressure psi 7.3 ... 43.5 Power 11 A

400V/3PNPE/50Hz (Plug 16A CEE)

400V/3PNPE/50Hz									
Cooling capacity									
°C	20	10	0	-10	-20				
kW	4	3.4	2.4	1.5	0.65				
Refrig	erant		R452A						
Filling	volum	e g	2220						
Global	Warm	ning Po	2140						
Carbo	n dioxi	de equ	4.751						
Pump	capac	ity flov	40						
Pump	capac	ity flov	7.3 43.5						
Power			8 A						

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 ±0.02...±0.2 °C