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).

Optional heating function

On request, we also offer our FL recirculating chillers with an additional integrated heating function and other special solutions. Our product experts will be happy to advise you individually in order to design a temperature control unit that is exactly right for your needs. Just give us a call!



Julaba

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

Pump capacity





Performance values

400V/3PNPE/50Hz	(Plug 16A CEE)				
Pump capacity flow rate l/min		40			
Pump capacity flow pressure bar		0.5 3			
Power consumption A		8			
Order No.			9663040.07		
Cooling capacity (Etha	anol)				
°C	20	10	0	-10	-20
kW ¹	4	3.4	2.4	1.5	0.65
Refrigerant stage 1					
Refrigerant R452A					
Filling weight g	2220				
Global Warming Potential for 2140 R452A					
Carbon dioxide equivalent t 4.7508					

¹ 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.

Technical data

Available voltage versions			Cooling		
Order No.	9 663 040		Cooling of compressor	1-stage Air	
Available voltage versions:					
9663040.16	230V/3PPE/60Hz (Without Plug) (R449A)				
9663040.07	400V/3PNPE/50H (R452A)	Iz (Plug 16A CEE)			
Bath			Other		
Bath tank		Stainless steel	Sound pressure level dbA	67	
			Classification	Classification I (NFL)	
			IP Code	IP 21	
			Pump type	Immersion Pump	
Electronics			Dimensions and volumes		
Interfaces		Alarm output, RS232, Stakei	Weight kg	148	
			Barbed fittings inner diameter mm	3⁄4"	
Temperature control		PID1	Dimensions cm (W \times L \times H)	60 x 76 x 115	
Temperature display		LED	Filling volume l	24 30	
Temperature setting		Keypad	Pump connections	G¾" male	
Temperature values					
Setting the resolution of the temperature display °C		0.1			
Return flow temperature max. °C		80			
Working temperature range °C -2		-20 +40			

Product data sheet - FL4003



Temperature stability °C	±0.5
Ambient temperature °C	+5 +40
Setting the resolution of the temperature display °C	0.1

All Benefits



100% Checked. 100% testing. 100% quality. Each JULABO Circulator undergoes thorough quality testing before leaving the factory.



JULABO. Quality. Highest standards of quality for a long product life.



Quick start. Individual JULABO consultation and comprehensive manuals at your disposal.

friendly materials and technologies.



Services 24/7.

Green technology.

Around the clock availability. You can find suitable accessories, data sheets, manuals, case studies, and more at www.julabo.com.

Development consistently applied environmentally



Precise

support.

Satisfied customers.

PID Temperature control with set control parameters, temperature stability ±0.02...±0.2 °C

11 subsidiaries and more than 100 partners worldwide guarantee fast and qualified JULABO



Connection of additional equipment Stakei connections for solenoid valve