

FL1701 Recirculating Coolers for installation below a lab bench

The compact FL models are suited for a wide variety of cooling tasks. Installation under a lab bench saves valuable space. 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
- Powerful immersion pumps, suitable for continuous operation
- Permissible temperature in return line +80°C
- Easy filling and Drain tap easily accessible
- 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)

Technical data

Available voltage versions		Bath	
Order No.	9 661 017	Bath tank	Stainless steel
Available voltage versions:			
9 661 017.03	230V/50Hz (Schuko Plug - CEE 7/4 Plug Type F)		
9 661 017.04	230V/50Hz (UK Plug Type BS1363A)		
9 661 017.02	115V/60Hz (Nema N5-20 Plug)		
9 661 017.13	230V/60Hz (Schuko Plug - CEE 7/4 Plug Type F)		
Cooling		Other	
Cooling of compressor	1-stage Air	Sound pressure level dbA	62
		Classification	Classification I (NFL)
		IP Code	IP 21
		Pump type	Centrifugal Pump
Electronics		Dimensions and volumes	
Temperature control	PID1	Weight lbs	172
Temperature display	LED	Barbed fittings inner diameter	8/12 mm
Temperature setting	Keypad	Dimensions in. (W × L × H)	19.7 x 29.9 x 25.2
		Filling volume l	12 ... 17
		Pump connections	M16x1 male
Temperature values			
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/50Hz (Schuko Plug - CEE 7/4 Plug Type F)

230V/50Hz

Cooling capacity

°C	20	10	0	-10	-20
kW	1.7	1.5	1.1	0.85	0.4

Refrigerant R452A

Filling volume g 570

Global Warming Potential for R452A 2140

Carbon dioxide equivalent t 1.22

Pump capacity flow rate l/min 23

Pump capacity flow pressure psi 14.5

Power 10 A

230V/50Hz (UK Plug Type BS1363A)

230V/50Hz

Cooling capacity

°C	20	10	0	-10	-20
kW	1.7	1.5	1.1	0.85	0.4

Refrigerant R452A

Filling volume g 570

Global Warming Potential for R452A 2140

Carbon dioxide equivalent t 1.22

Pump capacity flow rate l/min 23

Pump capacity flow pressure psi 14.5

Power 10 A

115V/60Hz (Nema N5-20 Plug)

115V/60Hz

Cooling capacity

°C	20	10	0	-10	-20
kW	1.7	1.4	1.1	0.8	0.35

Refrigerant R449A

Filling volume g 560

Global Warming Potential for R449A 1397

Carbon dioxide equivalent t 0.782

Pump capacity flow rate l/min 23

Pump capacity flow pressure psi 14.5

Power 15 A

230V/60Hz (Schuko Plug - CEE 7/4 Plug Type F)

208V/60Hz						230V/60Hz					
Cooling capacity						Cooling capacity					
°C	20	10	0	-10	-20	°C	20	10	0	-10	-20
kW	1.7	1.6	1.1	0.8	0.35	kW	1.7	1.6	1.1	0.8	0.35
Refrigerant	R449A					Refrigerant	R449A				
Filling volume g	550					Filling volume g	550				
Global Warming Potential for R449A	1397					Global Warming Potential for R449A	1397				
Carbon dioxide equivalent t	0.768					Carbon dioxide equivalent t	0.768				
Pump capacity flow rate l/min	23					Pump capacity flow rate l/min	23				
Pump capacity flow pressure psi	14.5					Pump capacity flow pressure psi	14.5				
Power	8 A					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 $\pm 0.02 \dots \pm 0.2$ °C