

FLW1701 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).



Your advantages

- 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
- 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)

Technical data

Available voltage versions		Bath	
Order No.	9 671 017	Bath tank	Stainless steel
Available voltage versions:			
9 671 017.13	230V/60Hz (Schuko Plug - CEE 7/4 Plug Type F)		
9 671 017.02	115V/60Hz (Nema N5-15 Plug)		
9 671 017.03	230V/50Hz (Schuko Plug - CEE 7/4 Plug Type F)		
9 671 017.04	230V/3PPE/50Hz (UK Plug Type BS1363A)		
Cooling		Other	
Cooling of compressor	1-stage Water	Sound pressure level dbA	59
Cooling water pressure max. bar	6	Classification	Classification I (NFL)
Cooling water difference pressure bar	2 ... 6	IP Code	IP 21
Cooling water consumption l/min	2.8	Pump type	Centrifugal Pump
Electronics		Dimensions and volumes	
Temperature control	PID1	Weight kg	82
Temperature display	LED	Cooling Water Connection in	G $\frac{3}{4}$
Temperature setting	Keypad	Barbed fittings inner diameter	8/12 mm
		Dimensions cm (W x L x H)	50 x 76 x 64
		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/60Hz (Schuko Plug - CEE 7/4 Plug Type F)

208V/60Hz						230V/60Hz					
Cooling capacity (Water Glycol)						Cooling capacity (Water Glycol)					
°C	20	10	0	-10	-20	°C	20	10	0	-10	-20
kW	1.7	1.5	1.1	0.85	0.4	kW	1.7	1.5	1.1	0.85	0.4
Refrigerant	R404A					Refrigerant	R404A				
Filling volume g	320					Filling volume g	320				
Global Warming Potential for R404A	3922					Global Warming Potential for R404A	3922				
Carbon dioxide equivalent t	1.255					Carbon dioxide equivalent t	1.255				
Pump capacity flow rate l/min	23					Pump capacity flow rate l/min	23				
Pump capacity flow pressure bar	1					Pump capacity flow pressure bar	1				

115V/60Hz (Nema N5-15 Plug)

115V/60Hz					
Cooling capacity (Water Glycol)					
°C	20	10	0	-10	-20
kW	1.7	1.5	1.1	0.85	0.4
Refrigerant	R404A				
Filling volume g	300				
Global Warming Potential for R404A	3922				
Carbon dioxide equivalent t	1.177				
Pump capacity flow rate l/min	23				
Pump capacity flow pressure bar	1				

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

230V/50Hz					
Cooling capacity (Water Glycol)					
°C	20	10	0	-10	-20
kW	1.7	1.5	1.1	0.85	0.4
Refrigerant	R452A				
Filling volume g	300				
Global Warming Potential for R452A	2140				
Carbon dioxide equivalent t	0.642				
Pump capacity flow rate l/min	23				
Pump capacity flow pressure bar	1				

230V/3PPE/50Hz (UK Plug Type BS1363A)

230V/50Hz

Cooling capacity (Water Glycol)

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

Refrigerant	R452A
Filling volume g	300
Global Warming Potential for R452A	2140
Carbon dioxide equivalent t	0.642
Pump capacity flow rate l/min	23
Pump capacity flow pressure bar	1

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