

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).

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
- · 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

A		Deale					
Available voltage versions		Bath					
Order No. 9 661 0	017	Bath tank	Stainless steel				
Available voltage versions:							
9 661 017.03							
9 661 017.04							
9 661 017.02							
9 661 017.13							
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 kg	78				
Temperature display	LED	Barbed fittings inner diameter	8/12 mm				
Temperature setting	Keypad	Dimensions cm (W \times L \times H)	50 x 76 x 64				
		Filling volume l	12 17				
		Pump connections	M16x1 male				
Temperature values							
Catting the receivities of the temperature	rature 0.1						
Setting the resolution of the temper display °C	ature 0.1						
	80						



±0.5

5 ... 40 0.1

Temperature stability °C

Ambient temperature °C

Temperature display resolution °C



Performance values

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			
Refrig	Refrigerant R452A							
Filling	Filling volume g 570							
Global Warming Potential for R452A 2140								
Carbo	n dioxi	de equ	1.22					
Pump	capac	ity flov	23					
Pump	capac	ity flov	1					

230V/50Hz (UK Plug Type BS1363A)

230V/50Hz												
Cooling capacity (Water Glycol)												
°C	20	10										
kW	1.7	1.5	1.1	0.85	0.4	0.4						
Refrig	Refrigerant R452A											
Filling	Filling volume g 570											
Global Warming Potential for R452A 2140												
Carbo	n dioxi	de equ	1.22									
Pump	capac	ity flov	23									
Pump	capac	ity flov	1									

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

115V/60Hz									
Cooling capacity (Water Glycol)									
°C	20	10							
kW	1.7	1.4 1.1 0.8 0.35							
Refrig	Refrigerant R449A								
Filling	Filling volume g 560								
Global Warming Potential for R449A 1397									
Carbon dioxide equivalent t 0.782									
Pump capacity flow rate I/min 23									
Pump capacity flow pressure bar 1									

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

208V/60Hz					230\	230V/60Hz							
Cooling capacity				Coolir	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	
Refrig	erant					R449A	Refrig	erant					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 I/min	23	Pump capacity flow rate I/min	23
Pump capacity flow pressure bar	1	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



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.



Precise

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

