

FL1201 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

Available voltage vers	ions	Bath	
Order No.	9 661 012	Bath tank	Stainless steel
Available voltage versions:			
9 661 012.02			
9 661 012.03			
9 661 012.04			
9 661 012.05			
9 661 012.13			

Cooling		Other				
Cooling of compressor	1-stage Air	Sound pressure level dbA 61				
		Sound pressure level dbA Classification Classification I (NFL) IP Code Pump type Centrifugal Pump Dimensions and volumes Weight kg Barbed fittings inner diameter Dimensions cm (W × L × H) Filling volume I 61 Classification I (NFL) IP 21 Centrifugal Pump 78 8/12 mm 50 x 76 x 64 Filling volume I 12 17				
		Classification I (NFI IP Code IP 21 Pump type Centrifugal Pump Dimensions and volumes Weight kg 78 Barbed fittings inner diameter 8/12 mm Dimensions cm (W × L × H) 50 x 76 x 64				
		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 I	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	
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Performance values

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

115V/60Hz									
Cooling capacity									
°C	20	10	0	-10	-20				
kW 1.2 1 0.9 0.6 0.3									
Refrigerant R449A									
Filling	volum	e g				585			
Global Warming Potential for R449A 1397									
Carbon dioxide equivalent t 0.817									
Pump capacity flow rate I/min 23									
Pump capacity flow pressure bar 1									

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

230V	230V/50Hz									
Cooling capacity (Water Glycol)										
°C	°C 20 10 0 -10 -20									
kW 1.2 1 0.9 0.6 0.3										
Refrig	erant					R449A				
Filling	Filling volume g 570									
Global	Global Warming Potential for R449A 1397									
Carbo	n dioxi	de equ	0.796							
Pump capacity flow rate I/min 23										
Pump	capac	ity flov	1							

230V/50Hz (UK Plug Type BS1363A)

230V/50Hz										
Cooling capacity (Water Glycol)										
°C 20 10 0 -10 -20										
kW	kW 1.2 1 0.9 0.6 0.3									
Refrig	erant					R449A				
Filling	volum	e g				570				
Global Warming Potential for R449A 1397										
Carbon dioxide equivalent t 0.796										
Pump capacity flow rate I/min 23										
Pump capacity flow pressure bar 1										

230V/50Hz (CH Plug Type SEV 1011)

230V/50Hz	
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Cooling capacity (Water Glycol)

°C	20	10	0	-10	-20
kW	1.2	1	0.9	0.6	0.3

Refrigerant	R449A
Filling volume g	570
Global Warming Potential for R449A	1397
Carbon dioxide equivalent t	0.796
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						230V/60Hz								
Cooling capacity (Water Glycol)				Cooling capacity										
°C	20	10	0	-10	-20			°C	20	10	0	-10	-20	
kW	1.2	1	0.9	0.6	0.3			kW	1.2	1	0.9	0.6	0.3	
Refrigerant R449A				R449A		Refrigerant					R449A			
Filling volume g 570				570		Filling volume g					570			
Global Warming Potential for R449A 1397				1397		Global Warming Potential for R449A					1397			
Carbon dioxide equivalent t 0.796					Carbon dioxide equivalent t					0.796				
Pump capacity flow rate I/min 23					Pump capacity flow rate I/min					23				
Pump capacity flow pressure bar				1		Pump	capac	ity flov	v pres	sure ba	ar	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.



Precise

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