

FL1203 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

Return flow temperature max. °C

Temperature display resolution °C

80

0.1

· Alarm output, potential-free change-over contact (max. 30 VA)

Technical data

Available voltage versions			Bath		
Order No. 9 6	9 663 012		Bath tank	Stainless steel	
Available voltage versions:					
	230V/50Hz (Schuko Plug - CEE 7/4 Plug Type F)				
9 663 012.04 23	230V/50Hz (UK Plug Type BS1363A)				
	230V/60Hz (Schuko Plug - CEE 7/4 Plug Type F)				
Cooling			Other		
Cooling of compressor		1-stage Air	Sound pressure level dbA	61	
			Classification	Classification I (NFL)	
			IP Code	IP 21	
			Pump type	Centrifugal Pump	
Electronics			Dimensions and volumes		
Temperature control		PID1	Weight kg	91	
Temperature display		LED	Barbed fittings inner diameter	3⁄4"	
Temperature setting		Keypad	Dimensions cm (W \times L \times H)	50 x 76 x 64	
			Filling volume I	12 17	
			Pump connections	G¾" male	
Temperature value	es				
Setting the resolution display °C	of the temperature	0.1			



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	1.2	0.9	0.8	0.5	0.2		
Refrigerant R452A							
Filling	volum	e g	690				
Global	Warm	ning Po	2140				
Carbo	n dioxi	de equ	1.477				
Pump	capac	ity flov	40				
Pump capacity flow pressure bar						0.5 3	

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Pump	capac	ity flov	40					
Pump capacity flow pressure bar						ssure bar 0.5 3		

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

230V/60Hz							
Cooling capacity							
°C	20	10	0	-10	-20		
kW	1.2	1	0.9	0.6	0.2		
Refrig	erant		R449A				
Filling	volum	e g	590				
Global	l Warm	ning Po	1397				
Carbon dioxide equivalent t						0.824	
Pump	capac	ity flov	40				
Pump capacity flow pressure bar						0.5 3	

Benefits

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







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