

FL1703 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.	9 663 017	Bath tank	Stainless steel
Available voltage versions:			
9 663 017.03	230V/50Hz (Schuko Plug - CEE 7/4 Plug Type F)		
9 663 017.04	230V/50Hz (UK Plug Type BS1363A)		
9 663 017.13	230V/60Hz (Schuko Plug - CEE 7/4 Plug Type F)		
Cooling		Other	
Cooling of compressor	1-stage Air	Sound pressure level dbA	67
		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	¾"
Temperature setting	Keypad	Dimensions cm (W × L × H)	50 x 76 x 64
		Filling volume l	12 ... 17
		Pump connections	G¾"
Temperature values			
Setting the resolution of the temperature display °C	0.1		
Return flow temperature max. °C	80		
Temperature display resolution °C	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	1.7	1.4	1	0.75	0.3
Refrigerant	R452A				
Filling volume g	690				
Global Warming Potential for R452A	2140				
Carbon dioxide equivalent t	1.477				
Pump capacity flow rate l/min	40				
Pump capacity flow pressure bar	0.5 ... 3				

230V/50Hz (UK Plug Type BS1363A)

230V/50Hz					
Cooling capacity (Water Glycol)					
°C	20	10	0	-10	-20
kW	1.7	1.4	1	0.75	0.3
Refrigerant	R452A				
Filling volume g	690				
Global Warming Potential for R452A	2140				
Carbon dioxide equivalent t	1.477				
Pump capacity flow rate l/min	40				
Pump capacity flow pressure bar	0.5 ... 3				

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

208V/60Hz					
Cooling capacity (Water Glycol)					
°C	20	10	0	-10	-20
kW	1.7	1.4	0.9	0.6	0.2
Refrigerant	R449A				
Filling volume g	590				
Global Warming Potential for R449A	1397				
Carbon dioxide equivalent t	0.824				
Pump capacity flow rate l/min	40				
Pump capacity flow pressure bar	0.5 ... 3				

230V/60Hz					
Cooling capacity					
°C	20	10	0	-10	-20
kW	1.7	1.4	0.9	0.6	0.2
Refrigerant	R449A				
Filling volume g	590				
Global Warming Potential for R449A	1397				
Carbon dioxide equivalent t	0.824				
Pump capacity flow rate l/min	40				
Pump capacity flow pressure bar	0.5 ... 3				

Benefits

Precise
 PID Temperature control with set control parameters, temperature stability $\pm 0.02 \dots \pm 0.2$ °C

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 Highest standards of quality for a long product life.



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