

# FLW1703 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 volta	age versions	Bath	
Order No.	9 673 017	Bath tank	Stainless steel
Available voltage	versions:		
9 673 017.03	230V/50Hz (Schuko Plug - CEE 7/4 Plug Type F)		
9 673 017.04	230V/50Hz (UK Plug Type BS1363A)		
9 673 017.13	230V/60Hz (Schuko Plug - CEE 7/4 Plug Type F)		

Cooling		Other	
Cooling of compressor	1-stage Water	Sound pressure level dbA	60
Cooling water pressure max. bar	6	Classification	Classification I (NFL)
Cooling water difference pressure bar	2 6	IP Code	IP 21
Cooling water consumption I/min	2.8	Pump type	Centrifugal Pump
Electronics		Dimensions and volumes	
Temperature control	PID1	Weight kg	88
Temperature display	LED	Cooling Water Connection in	G3/4
Temperature setting	Keypad	Barbed fittings inner diameter	3/4"
		Dimensions cm (W × L × H)	50 x 76 x 64
		Filling volume l	12 17
		Pump connections	G¾" male

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	°C 20 10 0 -10 -20								
kW	kW 1.7 1.4 1 0.75 0.3								
Refrig	Refrigerant R452A								
Filling	Filling volume g 320								
Globa	Global Warming Potential for R452A 2140								
Carbon dioxide equivalent t 0.685									
Pump capacity flow rate I/min 40									
Pump capacity flow pressure bar 0.5 3									

# 230V/50Hz (UK Plug Type BS1363A)

230V/50Hz													
Cooling capacity (Water Glycol)													
°C	°C 20 10 0 -10 -20												
kW	W 1.7 1.4 1 0.75 0.3												
Refrig	Refrigerant R452A												
Filling volume g 320													
Global Warming Potential for R452A 2140													
Carbon dioxide equivalent t 0.685													
Pump capacity flow rate I/min 40													
Pump capacity flow pressure bar $0.5 \dots 3$									Pump capacity flow pressure bar				

## 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					10	0	-10	-20	
kW	1.7	1.4	1	0.75	0.3			kW	1.7	1.4	1	0.75	0.3	
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						1.255		
Pump capacity flow rate I/min 40						Pump capacity flow rate I/min 40						40		
Pump capacity flow pressure bar 0.5 3						Pump capacity flow pressure bar 0.5 3								

## **Benefits**



#### Precise

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



## JULABO. Quality.

Highest standards of quality for a long product life









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