

FL300 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.	9 660 003	Bath tank	Stainless steel
Available voltage versions:			
9 660 003.01	100V/50-60Hz (Nema N5-15 Plug)		
9 660 003.13	230V/60Hz (Schuko Plug - CEE 7/4 Plug Type F)		
9 660 003.02	115V/60Hz (Nema N5-15 Plug)		
9 660 003.03	230V/50Hz (Schuko Plug - CEE 7/4 Plug Type F)		
9 660 003.04	230V/50Hz (UK Plug Type BS1363A)		
9 660 003.05	230V/50Hz (CH Plug Type SEV 1011)		
Cooling		Other	
Cooling of compressor	1-stage Air	Sound pressure level dbA	55
		Classification	Classification I (NFL)
		IP Code	IP 21
		Pump type	Centrifugal Pump
Electronics		Dimensions and volumes	
Temperature control	PID1	Weight lbs	77.2
Temperature display	LED	Barbed fittings inner diameter	8/12 mm
Temperature setting	Keypad	Dimensions in. (W x L x H)	9.8 x 19.7 x 23.6
		Filling volume l	3 ... 4.5
		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

Performance values

100V/50-60Hz (Nema N5-15 Plug)

100V/50Hz						100V/60Hz					
Cooling capacity (Water Glycol)						Cooling capacity (Water Glycol)					
°C	20	10	0	-10	-20	°C	20	10	0	-10	-20
kW	0.3	0.25	0.2	0.15	0.1	kW	0.3	0.25	0.2	0.15	0.1
Refrigerant	R134a					Refrigerant	R134a				
Filling volume g	140					Filling volume g	140				
Global Warming Potential for R134a	1430					Global Warming Potential for R134a	1430				
Carbon dioxide equivalent t	0.2					Carbon dioxide equivalent t	0.2				
Pump capacity flow rate l/min	15					Pump capacity flow rate l/min	15				
Pump capacity flow pressure bar	5.1					Pump capacity flow pressure bar	5.1				

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

220V/60Hz					
Cooling capacity (Water Glycol)					
°C	20	10	0	-10	-20
kW	0.3	0.25	0.2	0.15	0.1
Refrigerant	R134a				
Filling volume g	160				
Global Warming Potential for R134a	1430				
Carbon dioxide equivalent t	0.229				
Pump capacity flow rate l/min	15				
Pump capacity flow pressure bar	5.1				

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

115V/60Hz					
Cooling capacity (Water Glycol)					
°C	20	10	0	-10	-20
kW	0.3	0.25	0.2	0.15	0.1
Refrigerant	R134a				
Filling volume g	155				
Global Warming Potential for R134a	1430				
Carbon dioxide equivalent t	0.222				
Pump capacity flow rate l/min	15				
Pump capacity flow pressure bar	5.1				

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

230V/50Hz

Cooling capacity (Water Glycol)

°C	20	10	0	-10	-20
kW	0.3	0.25	0.2	0.15	0.1

Refrigerant R134a

Filling volume g 133

Global Warming Potential for R134a 1430

Carbon dioxide equivalent t 0.19

Pump capacity flow rate l/min 15

Pump capacity flow pressure bar 5.1

230V/50Hz (UK Plug Type BS1363A)

230V/50Hz

Cooling capacity (Water Glycol)

°C	20	10	0	-10	-20
kW	0.3	0.25	0.2	0.15	0.1

Refrigerant R134a

Filling volume g 133

Global Warming Potential for R134a 1430

Carbon dioxide equivalent t 0.19

Pump capacity flow rate l/min 15

Pump capacity flow pressure bar 5.1

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

230V/50Hz

Cooling capacity (Water Glycol)

°C	20	10	0	-10	-20
kW	0.3	0.25	0.2	0.15	0.1

Refrigerant R134a

Filling volume g 133

Global Warming Potential for R134a 1430

Carbon dioxide equivalent t 0.19

Pump capacity flow rate l/min 15

Pump capacity flow pressure bar 5.1

All Benefits

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

JULABO. Quality.
Highest standards of quality for a long product
life.

Green technology.

Development consistently applied environmentally friendly materials and technologies.

100% Checked.

100% testing. 100% quality. Each JULABO Circulator undergoes thorough quality testing before leaving the factory.

Satisfied customers.

11 subsidiaries and more than 100 partners worldwide guarantee fast and qualified JULABO support.

Quick start.

Individual JULABO consultation and comprehensive manuals at your disposal.