

F500 Compact recirculating cooler

The compact recirculating coolers in the F Series are economic models for routine applications in laboratories. The instruments cool in a temperature range of -10 or 0 °C to +40 °C and achieve a stability of $\pm 0.5^{\circ}\text{C}$. The space saving design and lack of side vents allow flexible positioning even in small laboratories. Their high efficiency mean that the coolers in the F Series are an economic and environmentally friendly alternative to cooling with tap water. Low acquisition costs mean that they pay for themselves within a very short time.



Product features

- Environmentally friendly operation with low energy consumption
- No side vents, instruments can be placed right next to other equipment
- All wetted parts made of stainless steel or high grade plastic (except FC-T models)
- Large, bright LED display
- Compact design
- Splash-proof keypad
- Easy filling and Drain tap easily accessible

Technical data

Available voltage versions		Bath	
Order No.	9 620 050	Bath tank	Stainless steel
Available voltage versions:			
9 620 050.01	100V/50-60Hz (Nema N5-15 Plug)		
9 620 050.02	115V/60Hz (Nema N5-15 Plug)		
9 620 050.03	230V/50Hz (Schuko Plug - CEE 7/4 Plug Type F)		
9 620 050.13	230V/60Hz (Schuko Plug - CEE 7/4 Plug Type F)		
9 620 050.05	230V/50Hz (CH Plug Type SEV 1011)		
9 620 050.04	230V/50Hz (UK Plug Type BS1363A)		
Cooling		Other	
Cooling of compressor	1-stage Air	Sound pressure level dbA	62
		Classification	Classification I (NFL)
		IP Code	IP 20
		Pump type	Centrifugal Pump
Electronics		Dimensions and volumes	
Temperature control	PID1	Weight kg	37
Temperature display	LED	Barbed fittings inner diameter	8/12 mm
Temperature setting	Keypad	Dimensions cm (W x L x H)	37.5 x 44 x 59
		Filling volume l	5 ... 7.5
		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	... +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	5	0	°C	20	10	5	0
kW	0.5	0.4	0.3	0.25	kW	0.5	0.4	0.3	0.25
Refrigerant	R134a				Refrigerant	R134a			
Filling volume g	157				Filling volume g	157			
Global Warming Potential for R134a	1430				Global Warming Potential for R134a	1430			
Carbon dioxide equivalent t	0.225				Carbon dioxide equivalent t	0.225			
Pump capacity flow rate l/min	24				Pump capacity flow rate l/min	24			
Pump capacity flow pressure bar	0.5				Pump capacity flow pressure bar	0.5			
Power	6 A				Power	6 A			

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

115V/60Hz				
Cooling capacity (Water Glycol)				
°C	20	10	5	0
kW	0.5	0.4	0.3	0.25
Refrigerant	R134a			
Filling volume g	160			
Global Warming Potential for R134a	1430			
Carbon dioxide equivalent t	0.229			
Pump capacity flow rate l/min	24			
Pump capacity flow pressure bar	0.5			
Power	6 A			

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

230V/50Hz				
Cooling capacity (Water Glycol)				
°C	20	10	5	0
kW	0.5	0.4	0.3	0.25
Refrigerant	R134a			
Filling volume g	160			
Global Warming Potential for R134a	1430			
Carbon dioxide equivalent t	0.229			
Pump capacity flow rate l/min	24			
Pump capacity flow pressure bar	0.5			
Power	3 A			

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

230V/60Hz

Cooling capacity (Water Glycol)

°C	20	10	5	0
kW	0.5	0.4	0.3	0.25

Refrigerant R134a

Filling volume g 145

Global Warming Potential for R134a 1430

Carbon dioxide equivalent t 0.207

Pump capacity flow rate l/min 24

Pump capacity flow pressure bar 0.5

Power 3 A

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

230V/50Hz

Cooling capacity (Water Glycol)

°C	20	10	5	0
kW	0.5	0.4	0.3	0.25

Refrigerant R134a

Filling volume g 160

Global Warming Potential for R134a 1430

Carbon dioxide equivalent t 0.229

Pump capacity flow rate l/min 24

Pump capacity flow pressure bar 0.5

Power 3 A

230V/50Hz (UK Plug Type BS1363A)

230V/50Hz

Cooling capacity (Water Glycol)

°C	20	10	5	0
kW	0.5	0.4	0.3	0.25

Refrigerant R134a

Filling volume g 160

Global Warming Potential for R134a 1430

Carbon dioxide equivalent t 0.229

Pump capacity flow rate l/min 24

Pump capacity flow pressure bar 0.5

Power 3 A

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, case studies, and more at www.julabo.com.



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